

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

**Review and updation of Mining Plan REPORT**

**Hyderabad regional office**

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

**Mine code :** 38APR04015

- (i) Name of the Inspecting : **M029** ) **MADHU SUDHAN YADAV M**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri. Sudhakar, Mine Manager  
Official with  
Designation
- (iv) Date of Inspection : 20/02/2020
- (v) Prev.inspection date : 27/10/2017

**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 Plan/Scheme of Mining	:	Fresh under rule 22 MCR1960	23/03/2006
		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	NIL	NIL	
1b	Exploration over lease area for geological axis 1 or 2	NIL	NIL	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	
1e	Balance reserve as on 01/04/20	Reserves as on 30-09-2017 is 202.01 million tonnes (111) & 168.4 million tonnes(211)	Reserves as on 31-01-2020 is 192.14 million tonnes (111) & 168.8 million tonnes(211)	
1f	General remarks of inspecting officers on geology, exploration etc			Entire lease area is explored.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Work is proposed between Locations 1. N10525 to N10638 & N11240 to N11358. 2. E5246 to E5415 & E5773 to E5826.	Work carried out as per proposal.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches are proposed for topsoil and mineral	Top soil and mineral benches are worked seperately.	

2c	Stripping ratio or ore to OB ratio	1:041	1:048
2d	Quantity of topsoil generation in m3	95782	
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		

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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3c	Recovery of sailable/usable mineral from ROM production	2018- 19=5035502 T 2019-20= 5001025 T	2018-19= 4611806 T 2019-20 (till Jan'20)= 2932002 T	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	Nil	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	

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, Excavators 5.2 cum capacity - 3 nos, dumpers - 15 nos, dozer- 1 no, Road Grader- 1no was proposed	Lessee has deployed Excavators of 6.5 cum capacity - 3 nos, dumpers of 55 tonnes capacity - 10 nos, dozer - 1 no.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Maximum 10meters bench height is proposed	Digging 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.	Nil	Nil
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 -	2014-15 -	2795000 T
		4950957 T	2015-16 -	2788500 T
		2015-16 -	2016-17 -	3120500 T
		4999616 T	2017-18 -	4038306 T
		2016-17 -	2018-19 -	4611806 T
		5002379 T		
		2017-18 -		
		5095099 T		
		2018-19 -		
		5035502 T		

3q	General remarks of inspecting officers on method of mining etc.	The mineral has been exploited beyond the proposed area. Submitted Modified Mining Plan for changes in the excavation area for compliance of violation issued.
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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 is proposed in N10504-10705, E4873-5174	Top soil is stacked at the proposed location	
4c	Number of dumps within lease area and outside of lease area	No proposal	No overburden dump created in 2019-20. 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 2019-20	Nil	
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Nil	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management			One top soild dump which was proposed for utilisation has not being carried out.

#### 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	Around 6 hectare area is backfilled and is in the process of rehbailitation.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed	Being carried out accordingly	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Calcerous material is occuring in the area which is being stacked and used for backfilling and stablisation of the part of excavated area.
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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).	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 2019-20	1.5 Ha area of afforestation done	
6d	No. of saplings planted during the year	400 saplings within lease in 2019-20	1500 saplings planted in October 2020.	
6e	Cumulative no .of plants		Within Lease area - 357914 Nos. Outside Lease area - 73705 Nos.	
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	No proposal	2.0 lakhs incurred as reported by the lessee.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Nil	Excavation pit is not mature for the purpose	



6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Area is not mature for the purpose.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Nil	Nil
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.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Retaining wall which was proposed in 2021-22 has still not been prepared. Plantation of 25000 Nos. reportedly planted along the lease boundary and view point.
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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.	Entire ROM produced is used.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Nil	
7c	Different grade of mineral sorted out at mines.	No proposal	Nil	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Entire ROM is utilised to feed the plant.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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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 purpose.	Top soil is being stored as well as utilised for plantation.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	Being carried out accordingly.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil
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 35 hectare area and about 35,791 saplings planted.
8g	Survival rate	No proposal	80 %
8h	Water sprinkling on roads to control airborne dust	Water tankeris to be provided to suppress the dust generation during mining operation.	Water tanker is provided to suppress the dust in lease area.

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Plantation has been carried out along the lease boundary and view point to maintain the aesthetic beauty.
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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.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer : Sri K. Sudhakar Geologist: Sri V Vijaya Bhaskar	Mining Engineer : Sri K. 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	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Opening Balance Nil. Production reported as 4611806 T and closing balance Nil.	Opening Balance Nil. Production reported as 4611806 T and closing balance Nil.	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM production is 4.425 Million Tonnes	As per submission.
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	Information furnished	Machineries provided as reported.
9k	Scrutiny of Annual return on mining machineries	Submitted in document	Shovel, dumper, road grader, water sprinkler, drill machine and front end loader are provided.

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

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on

Date :

(MADHU SUDHAN YADAV M)

Indian Bureau of Mines