

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPEMMENT 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 : **25** ) **SHRI IBRAHIM SARIF**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine :  
Official with  
Designation
- (iv) Date of Inspection : 13/02/2019
- (v) Prev.inspection date : 13/02/2016

**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	None	None	
1b	Exploration over lease area for geological axis 1 or 2	No proposal	Entire lease area is explored with 251 no. of bore holes in G1 level of exploration	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Natural Resources Development Coparative Society LTD., Hyderabad	Expenditure RS= 59,60,650/.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal.	Nil	
1e	Balance reserve as on 01/04/20		199.81 Millon Tons.	As on 01.04.2019
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 arae has been explored. In the recent approved mining plan also no future exploration proposals are submitted	

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t. lease area	N10631 to N 10984 E265 to E5594	Development is being carried out within the approved proposals.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Seperate bench in soil, overburden and mineral benches are proposed to be maintained.	Separate topsoil bench, mineral benches are there where ever it occurs	
2c	Stripping ratio or ore to OB ratio	Nil,	Nil	No OB is there except Top soil
2d	Quantity of topsoil generation in m3	272017 cum	255612 cum	

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		Top soil generated is being stocked for future use and part of it used for greenbelt development in and around lease area.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	50,95,099 Tonnes	40,38,306 Tonnes	2017-18
3c	Recovery of sailable/usable mineral from ROM production	100%	Entire ROM mineral is being used as such.	
3d	Quantity of mineral reject generation	Nil	Nil	No mineral reject is present, entire ROM is feed to plant
3e	Grade of mineral rejects generation and threshold value declared.	N.A	N.A	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	N.A	N.A as entire ROM is being used.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	N.A	N.A	There is no mineral reject or sub grade ore in the lease

3j	Provision of drilling and blasting in mineral benches	It is proposed to carry out drilling of blast hole by 150mm drill equipped with wet drilling system as well as dust collection system. Blasting operation is proposed to be carried out using slurry explosives in combination with delay detonators with sequential sequential blasting machine/ Nonel detonators will be used.	Drilling operation is being carried out with 150 mm dia drill, depth of hole of 11 m, Burden and spacing of 5 meters and 8 meters respectively. Blasting is being carried out using slurry explosives in combination with delay detonators with sequential sequential blasting machine/ Nonel detonators is used.
3k	Provision of mining machineries in mineral benches	Excavators: 6.5 cum capacity & Dumpers of 50 Tonne capacity, Dozer are proposed to be utilised for mining operations	Excavator: 6.5 cum capacity-3 nos, Dumpers of 50 Tonne capacity- 10 nos, Dozer-1 No. are observed in the lease area.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	10 meters bench height is proposed	Yes, Boom height of Excavator of 6.3 cum capacity is technically suitable for development of 10 meters bench height.
3m	Total area covered under excavation/pits	118.75 Ha	117.00 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.009	1 : 0.009
3o	Total area put in use under different heads at the end of year	118.75 Ha	117.00 ha

3p	Production of ROM mineral during the last five year period as applicable	2013-14 =4981175 T. 2014-15 =4950957 T. 2015-16 =4999616 T, 2016-17 =5002379 T. 2017-18 : 5095099 T	2013-14-2430000 T, 2014-15 =2795000T, 2015-16 =2788500 T, 2016-17 =3120500 T. 2017-18 = 4038306 T
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3q	General remarks of inspecting officers on method of mining etc.	Mineral operations are being carried out by fully mechanised method deploying HEMM like Excavators of 6.5 cum capacity, 50 Tonne dumpers, Dozer etc. with deep hole drilling and blasting.
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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 to stock it seperately	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	On Southern side of lease area	Top soil is found stocked on southern side of the lease area near view point	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)			
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	Old retaining wall was observed along bottom periphery of dumps	

4j	Number of settling ponds	No proposal	One settling pond is observed
4k	Specific comments of inspecting officer on waste dump management		Two Top soil dumps are there in the lease area are well established, retaining wall is found maintained around periphery of dumps.

#### 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	No area is matured for backfilling, however top soil is being stocked on southern side of the lease area temporarily.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	No area is matured for restoration	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		On southern side of the lease area, top soil is found stocked temporarily in the pit and will be utilised later on for plantation.	

#### 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).	Annual report on PMCP	Submitted.	
6b	Area available for rehabilitation (ha) .		About 4.5 hectare area has been backfilled	
6c	afforestation done (ha).	0.32 Ha	About 2.5 Ha area is afforested	

6d	No. of saplings planted during the year	400	2500	
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year		2.0 Lakhs	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	0.3 Ha	0.5 Ha backfilled is planted	
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.			Annual return on PMCP has been submitted. Environment monitoring is being carried out regularly. Green belt development is being created to improve aesthetic beauty.

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#### Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Entire ROM produced has to be dispatched to the plant as there is no generation of sub grade mineral or mineral reject	Entire ROM produced dispatched to the Plant	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No mineral sorting is required	N.A	



7c	Different grade of mineral sorted out at mines.	No proposal	N.A	
7d	Any beneficiation process at mines	No proposal	Nil	Not required as no mineral reject/ sub grade ore is there in the lease
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)	48115 cum	402720 tonnes of top soil is removed durinf the year	
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)	No overburden, mineral reject and fines are generated in the lease area	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	400 sapplings are proposed for plantation	2500 sapplings are planted	
8g	Survival rate		85%	
8h	Water sprinkling on roads to control airborne dust	Water tanker is to be provided to suppress the dust generated during mining operation	Water tanker is provided for regular sprinkling in the lease arae.	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Green belt development is being done by planting 2500 sapplings during the year to improve 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 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.	(i) Covered under current (O/C) Workings 90.350 (ii) Reclaimed/Rehabilitated 0.580 (iii) Occupied by plant, buildings, residential, welfare buildings & roads 1.500 (vii) Work done under progressive mine closure plan during the year 0.580	(i) Covered under current (O/C) Workings 90.350 (ii) Reclaimed/Rehabilitated 0.580 (iii) Occupied by plant, buildings, residential, welfare buildings & roads 1.500	
9d	Scrutiny of Annual return on afforestation	Nil	Nil	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Rs. 148.69	Ex mine price/ cost of production is Rs 148.69 PMT Mineral is used for captive purpose
9h	Scrutiny of Annual return on fixed assets	Rs. 11,24,46,97,20 3.00	As reported by lessee
9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC) 4.500 CUM 1 SHOVEL (HYDRAULIC) 6.500 CUM 1 BACK HOE 6.500 CUM 1 WHEEL LOADER 6.500 CUM 1 DUMPER 55.000 TONNE 10 DOZER 308.000 HP 1 AIR COMPRESSOR 625.000 CUM/MN 1 AIR COMPRESSOR 325.000 CUM/MN 1 EXPLOSIVE VAN 6.000 TONNE 1	Same as furnished in AR

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**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

**Date :**

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines