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: M029) MADHU SUDHAN YADAV M

Officer and ID No.

(ii) Designation : Assistant Controller Mine

(iii) Accompaning mine : Sri. K.Sudhakar, Mine Manager, Sri. Prabakar Reddy, G

Official with Designation

(iv) Date of Inspection : 14-SEP-21
(v) Prev.inspection date : 20-FEB-21

PART-I : GENERAL INFORMATION

. (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-FEB-09

(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-MAR-36

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-MAR-06
Modif.of approved Mining Plan 22-JAN-07
FMCP under 23C(1) 04-JUL-11
Modif.of approved Mining Plan 29-JUL-11
Mining Scheme rule 12 MCDR1988 04-SEP-13
MP review under 17(1) MCR 2016 29-NOV-17
MP modif under 17(3) MCR 2016 28-MAY-20

PAGE : 3

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil	
1b	Exploration over lease area for geological axis 1 or 2	No proposal	Nil	Entire mineralised area is converted into G1 scale of exploration by drilling 207 Nos. of core boreholes and 55 Nos. of DTH holes.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Entire mineralised area is converted into G1 scale of exploration.
1e	Balance reserve as on 01/04/20		Proved Reserves as on 01/04/2021 - 188 millior Tonnes.	1
1f	General remarks of inspecting officers on geology, exploration etc			

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a		E 4462-4506	Work done within the proposed co-ordinates.	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	seperate	Developed seperate benches in topsoil, overburden and minerals.	
2c	Stripping ratio or ore to OB ratio	1:0.149	1:0.09	
2d	Quantity of topsoil generation in m3	2020-21 - 99231 cu.m	2020-21 - 78980 cu.m	
2e	Quantity of overburden generation in m3	2020-21 - 299604 cu.m	2020-21 - 207854 cu.m	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Topsoil of around 1m thickness is removed seperatedly and OB is removed by forming seperate bench as proposed in the MMP approved on 28/05/2020.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	2020-21 - 5000450 Te	2020-21 - 3685807 Te	
3с	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No proposal	Nil	

3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Nil
3f	Quantity of sub grade mineral generation.	No proposal	Nil
3g	Grade of sub grade mineral generation	Not applicable	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	Drilling and blasting is proposed in mineral benches.	Duirng inspection it was observed that Wagon drill being used for drilling with a blast hole dia of 150 mm & depth of 9 m, spacing of 8 meters and burden of 5 meters. Blasting with slurry explosives & ANFO with NONELS as initiating system.
3k	Provision of mining machineries in mineral benches	Machinery proposed in mineral benches	During inspection, it was observed that wagon drills, dumpers & excavators are being used for drilling, loading & transportation of ore to crushing plant
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	of 8m bench height is	During inspection it was noticed that the bench height is being maintained between 8 m and digging height of the excavators are compatible with bench height

3m	Total area covered under excavation/pits	2020-21 - 131.87 Ha	2020-21 - 100.26Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.149	1:0.09	
30	Total area put in use under different heads at the end of year	different	The total area put to use under different heads is 146.8 hectare till 2020-21.	
3p	Production of ROM mineral during the last five year period as applicable	2016-17 - 5002379 T 2017-18 - 5095099 T 2018-19 - 5035502 T 2019-20 - 5001025 T 2020-21 - 5000440 T	2015-16 - 2788500 T 2016-17 - 3120500 T 2017-18 - 4038306 T 2018-19 - 4611806 T 2019-20 - 3707491 T 2020-21 - 3685807 T	
3q	General remarks of inspecting officers on method of mining etc.			Top soil working benches are not found to be sufficiently apart and found mixing with the mineral. Violation issued as per rule.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	dumping is	Top soil dump is developed and maintained.	
4b	Location of topsoil, OB and mineral reject dumps	Top soil stacking is proposed at location - E5663-N10007, E5711-N10115, E5650-N10150 & E5600-N10077	Topsoil is stacked in the proposed location.	

One old dump

already existing

near the crusher

	of lease area			and office area since the beginning of the lease.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed outside UPL	Dump developed outside the UPL.	
4e	Number of active and alive dumps.	One	One	
4f	Number of dead dumps.	One	One	
4 g	Number of dumps established.	No proposal	No dumps established during 2020-21	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal for 2020-21	Nil	
4i	Length of Retaining wall or garland drain all along dumps	No proposal for 2020-21	Nil	
4j	Number of settling ponds	No proposal for 2020-21	Nil	
4k	Specific comments of inspecting officer on waste dump management			One mineral dump is developed outside the lease area near crusher and office. It was reported by the lessee that the dump is lying since the beginning of the lease.
Soli	d Waste Managem	ent - Backfi	llling:	
Sl.No.	Item	Propasals	Actual work	Remarks

Number of dumps Within lease - Within lease -1 dump

within lease 1 dump Outside lease - 1 dump

4c

area and outside

5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Backfilling proposed after full extraction of mineral	Backfilling carried out in mined out area.	
5b	Area under backfilling of mined out area	2.30 На	0.36 На	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed to use for plantation and stacking the remaining quantity.	Used for plantation and remaining quantity is being stacked.	
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 stabliisation of the part of excavated area.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	time as	Submitted in time.	
6b	Area available for rehabilitation (ha) .		afforestation done	
6c	afforestation done (ha).	2020-21 - 0.6 Ha	2020-21 - 1.0 Ha.	

6d	No. of saplings planted during the year	2020-21 - 400 Nos	2020-21 - 5000 Nos.
6e	Cumulative no .of plants	No proposal	Nil
6f	Any other method of rehabilitation	No proposal	Nil
6g	Cost incurred on watch and care during the year	No proposal	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal in 2020-21	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal in 2020-21	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No proposal in 2020-21	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal in 2020-21	Nil
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal in 2020-21	Nil

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal in 2020-21	Nil	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal in 2020-21	Nil	
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal in 2020-21	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	It was proposed to carry out Environmental monitoring in Core & Buffer Zone every quarter	Quarterly environmental monitoring carried out during 2020-21 and all the parameters are within the permissible limit.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Backfilling carried out in the mined out area i.e., southen side of the mining lease area and plantation done in the southern side of the lease boundary.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal	Entire ROM produced is utilised for cement plant.	

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			No sub grade has been generated. Beneficiation is not required as the entire ROM mineral is utilised for captive plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	and utilization	excavated	Topsoil excavated separately but not stacked in the proposed area.	Violation issued for not stacking the topsoil in the proposed area.
8b	Concurrent use or storage of topsoil	Topsoil to be used for plantation and remaining quantity is stacked.	Topsoil used for plantation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Nil	

8h	General remarks of inspecting officer on aesthetic beauty in and around mines area	control of dust generation by using water sprinkles		Plantation has been carried out along the lease boundary and near view point to maintain the aesthetic beauty.
8h	General remarks of inspecting officer on aesthetic beauty in and around	control of dust generation by using water		been carried out along the lease boundary and near view point to maintain the aesthetic
8h		control of dust generation by using water		
8g	Water sprinkling on roads to	proposed to	Water spinkling was done with water tanker.	
	Survival rate	90%	90%	
	Baseline information on existence of plantation and additional plantation done (Rule 41)	400 Nos. of saplings to be planted in 2020-21.	5000 Nos. of saplings planted in 2020-21 covering an area of 1.0 Ha.	
	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	
	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Overburden generated to be used for backfilling.	Overburden generated is used for backfilling.	

9a	Status of submission of Monthly and Annual returns	MR and AR to be submitted in time.	Submitted in time.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager & Mining Engineer : Sri K. Sudhakar Geologist: Sri V Vijaya Bhaskar	Manager & Mining Engineer: Sri K. Sudhakar Geologist: Sri Prabhakar Reddy (appointed on 04/08/2021)
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Workings 100.26 ha Reclaimed/Reha	Broadly as per submission.
9d	Scrutiny of Annual return on afforestation		Broadly as submission and same quantity is verified in afforestation records maintained.
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	Ex-mine price reported as Rs.151.02/-	Depreciation, over-head cost and royalty per tonne reported in this part is inconsistent with data given in various parts of this annual returns. Advised to correct the annual returns since it has been referred back by the MMS division.	Annual returns has been referred back to the lessee by MMS division.
9h	Scrutiny of Annual return on fixed assets		Annual returns referred back to the lessee by the MMS division. Advised to correct the fixed assets details.	
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,5.000 TONNE - 10 DOZER,308.000 HP - 1 WATER TANKER,10000.0 00 LITRE - 1 AIR COMPRESSOR,600 .000 CUM/MN - 1 AIR COMPRESSOR,325 .000 CUM/MN - 1 EXPLOSIVE VAN,6.000 TONNE - 1 ROAD ROLLER,11.000 TONNE - 1	Same was available in the mine during inspetion.	

PAGE: 15

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

Violation observed			Show couse position		
Rule N	10.	Issued on	Compliance on	Rule NO.	Issued on Compliance on
MCDR17	Rule 11(1)	21-SEP-21			
MCDR17	Rule 13(1)	21-SEP-21			

Date:

 $(\,{\tt MADHU \;\; SUDHAN \;\; YADAV \;\; M}\,)$

Indian Bureau of Mines