INDIAN BUREAU OF MINES
MINERALS DEVELOPMEMT AND REGULATION DIVISION

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/ANP/LST-36/HYD **Mine code : 38APR02052**

(i) Name of the Inspecting Officer and ID No. : **M029) MADHU SUDHAN YADAV M**

(ii) Designation : Assistant Controller Mine

(iii) Accompaning mine Official with Designation : Sri.Suresh Reddy, Mining Engineer & Sri.Venkataramana

(iv) Date of Inspection : 16-SEP-21

(v) Prev.inspection date : 18-JUL-18

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **GUDIPADU(454.59 HA)**

(b) Registration NO. : **IBM/18063/2014**

(c) Category : A Fully Mechanised

(d) Type of Working : Opencast

(e) Postal address

State : ANDHRA PRADESH
District : ANANTAPUR
Village :
Taluka :
Post office :
Pin Code :
FAX No. : 04023356573
E-mail : sureshreddys@sagarcements.
Phone : 04023351571

(f) Police Station : Yadiki

(g) First opening date : 23-DEC-15

(h) Weekly day of rest : SUN

2. Address for correspondance : M/s BMM Cement
Gudipadu village & Post, Yadkli Mandal,
Ananthapur, Dist, Andhra Pradesh.

3. (a) Lease Number :
(b) Lease area :
(c) Period of lease :
(d) Date of Expiry :

4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee	:	BMM CEMENT LTD 101, 1ST FLOOR, PRIDE ELITE nO. 10, mUSEUM rOAD, BANGALORE. ANANTAPUR ANDHRA PRADESH Phone: FAX :
Owner	:	S.ANANDA REDDY H.NO.8-2-472/B/2,ROAD NO.1 BANJARA HILLS HYDERABAD HYDERABAD TELANGANA Phone: 04023351571 FAX : 04023356573
Agent	:	V.C.Honnur Saheb c/o M/s BMM Cements Limited Gudipadu village, Yadiki Mandal, ANANTAPUR ANDHRA PRADESH Phone: FAX :
Mining Engineer		
Name	:	SIRAM SURESH REDDY,Full Time
Qualification	:	BE MINING ENGINEERING
Appointment/ Termination date	:	16-DEC-15

6. Date of approval of Mining Plan/Scheme of Mining : MP review under 17(1) MCR 2016 30-JAN-20
MP modif under 17(3) MCR 2016 12-OCT-20

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	2020-21 - 05 Nos. 2021-22 - 10 Nos.	2020-21 - 05 Nos. boreholes drilled. 2021-22 - 10 Nos. boreholes drilled.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-----	Lessee has carried out exploration by their own drilling machine.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	---	Entire lease area of 454.59 Ha is explored in G1 Level by carrying out 202 core boreholes.	
1e	Balance reserve as on 01/04/20	-----	Proved Mineral Reserves as on 01/04/2021 - 127.875 million tonnes.	
1f	General remarks of inspecting officers on geology, exploration etc			Entire lease area of 454.59 Ha has been explored in G1 level by drilling 187 core boreholes. Additional 15 Nos. boreholes proposed to dill to ascertain the depth persistance of the shale.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development proposal made as per below mentioned grid lines: 821905,1672113 822242,1672260 822424,1672159 822514,1671889 822094,1671721	Work done within the proposed co-ordinates.	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed to excavate top soil seperately.	Top soil is being excavated seperately.	
2c	Stripping ratio or ore to OB ratio	No proposal	Nil	
2d	Quantity of topsoil generation in m3	2020-21 - 28104 cu.m	2020-21 - 36910.82 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			No OB is generated in the proposed mining area and the limestone is found just below the top soil horizon of around 1.5m thickness.

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 - 1001562 Te	2020-21 - 999945 Te	
3c	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.	2020-21 - 91080 Te	2020-21 -88753 Te	Sub grade mineral is blended with cement grade limestone.
3g	Grade of sub grade mineral generation	CaO-41.56 % SiO2-16.41%	CaO-41.49 % SiO2-16.25%	
3h	Manual / Mechanised method adopted for segregating from ROM	Nil	Nil	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting proposed in the mineral benches.	Duirng inspection it was observed that Wagon drill being used for drilling with a blast hole dia of 115 mm & depth of 10 m, spacing of 6 meters and burden of 4 meters. Blasting with slurry explosives with NONELS as initiating system.	
3k	Provision of mining machineries in mineral benches	Shovel-2 Nos. Tippers-8 Nos. Drilling machine - 1No.	Shovel-2 Nos. Tippers-8 Nos. Drilling machine - 1No.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was proposed to maintain the bench height of 9 meters	Bench height is being maintained as 9 m. Digging height of the excavators are compatible with bench height.	
3m	Total area covered under excavation/pits	35.43 Ha	16.08 Ha	
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	47.37 Ha	26.512 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2016-17 - 1000987 Te 2017-18 - 1000000 Te 2018-19 - 1001458 Te 2019-20 - 1001586 Te 2020-21 - 1000562 Te	2016-17 - 956360 Te 2017-18 - 727196 Te 2018-19 - 999900 Te 2019-20 - 999910 Te 2020-21 - 999945 Te	
3q	General remarks of inspecting officers on method of mining etc.			Mining is carried out by fully mechanised method by deploying HEMM.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Topsoil dump is proposed	Top soil dump is maintained.	
4b	Location of topsoil, OB and mineral reject dumps	821728-1671826, 821603-1671903.	Entire topsoil generated in 2020-21 is utilised for plantation in the buffer zone.	
4c	Number of dumps within lease area and outside of lease area	One - Within lease area	One - Within lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumping proposed within UPL	Dump maintained within UPL	Top soil is temporarily stacked and will be utilised for plantation purpose.
4e	Number of active and alive dumps.	One	One	
4f	Number of dead dumps.	Nil	Nil	

4g	Number of dumps established.	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining bund proposed	Retaining bund constructed around the dump.	
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Around 150m of parapet wall developed around the dump.	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management			Entire topsoil generated in the year 2020-21 is utilised for plantation in the buffer zone.

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 proposal	Nil	
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	The pit is not mined out upto its ultimate pit limit to start backfilling.

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) .	No proposal	Nil	
6c	afforestation done (ha).	2020-21 - 2.27 Ha	2020-21 - 9.8 Ha	
6d	No. of saplings planted during the year	2020-21 - 4500 Nos.	2020-21 - 14676 Nos.	
6e	Cumulative no .of plants	No proposal	44869 Nos. till Aug'21.	
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	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposal	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly environmental monitoring of core and buffer zone.	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.		No area of pit has reached its ultimate pit limit to start Reclamation and Rehabilitation and backfilling activities.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM to be consumed with blending.	Entire ROM is consumed by blending the sub grade mineral with cement grade limestone.	
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 consumed by blending the sub grade limestone with cement grade limestone.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed to remove and utilised the topsoil seperately	Topsoil removed seperately and utilised for plantation	

8b	Concurrent use or storage of topsoil	Topsoil to be stacked in the proposed dump	Topsoi generated is utilised for plantation purpose	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Nil	
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)	2.27 Ha	9.8 Ha	
8g	Survival rate	85%	89.4%	
8h	Water sprinkling on roads to control airborne dust	Water Tankers to be provided for dust supression.	Water tanker is provided for dust supression.	
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.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks

9a	Status of submission of Monthly and Annual returns	Monthly and Annual returns submitted as per rule	Submitted in time.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager & Mining Engineer- Sri. Siram Suresh Reddy, Geologist- Sri.C. Venkata Ramana	Manager & Mining Engineer- Sri. Siram Suresh Reddy, Geologist- Sri.C. Venkata Ramana
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Open cast - 16.08 Ha Road - 4.894 Ha Top soil dump - 5.538 Ha	Broadly as per submission.
9d	Scrutiny of Annual return on afforestation	14676 Nos.	Broadly as submission and same quantity is verified in afforestation register 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	Cost of production is reported as Rs.178.04/-	Depreciation, over-head cost and interest per tonne reported in cost of production 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.

9h	Scrutiny of Annual return on fixed assets	The value of fixed assets reported by the lessee in annual returns is Rs.231524459/-	Depreciation during the year is not matching with the cost per tonne calculation. Advised to correct the annual returns since it has been referred back by the MMS division.
9k	Scrutiny of Annual return on mining machineries	Shovel - 1.4 cu.m- 2 no.s Tipper- 14 cu.m- 8 nos. Wheel Loader- 2.7 cu.m- 1 no. Blast hole drill- 115 mm- 1 no.	All proposed machineries found in the mining area.

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