

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

Review and updation of Mining Plan REPORT

Bangalore regional office

Mine file No : KNT/CTD/LST/24/BNG

Mine code : 38KAR07027

- (i) Name of the Inspecting : **A101**) **ARUN KUMAR**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sri Nagamalleswara Rao, AGM and other mine officials
Official with
Designation
- (iv) Date of Inspection : 16/11/2020
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MATHOD (M.L.2342)**
- (b) **Registration NO.** : **IBM/638/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : KARNATAKA
- District : CHITRADURGA
- Village : MATHODU
- Taluka : HOSADURGA
- Post office : MATHOD
- Pin Code : 577533
- FAX No. : 08199-240314
- E-mail : mathod_mines@ramcocements.co
- Phone : 08199-240111/112
- (f) Police Station : SRIRAMPURA
- (g) First opening date : 07/10/1987
- (h) Weekly day of rest : SUN
2. Address for : The Ramco Cements Limited,
correspondance : Method works Hosadurga Taluk,
Chitradurga Dist, Karnataka-577533
3. (a) Lease Number : KAR1103
- (b) Lease area : 388.5
- (c) Period of lease : 20
- (d) Date of Expiry : 06/05/2003
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : THE RAMCO CEMENTS LIMITED
 "Auras Corporate Centre",
 Dr. Radhakrishna Salai,
 Mylapore, CHENNAI CITY
 TAMIL NADU
 Phone:044-28478666
 FAX :+91 4428478676

Owner : P.R.Venketrama Raja,
 The Ramco Cements Limited,
 Auras Corporate Centre",
 Dr. RadhakrishnaSalai,
 Mylapore, CHENNAI CITY
 TAMIL NADU
 Phone: 044-28478666, 0
 FAX : 044-28478676 (

Agent : SVRK Murthy Rao
 The Ramco Cements Limited
 Mathod Works, Tq-Hosadurga
 CHITRADURGA KARNATAKA
 Phone: 08199-240111
 FAX : 08199-240314

Mining Engineer

Name : Thayaraj M.P,Full Time
 Qualification : BE - Mining
 Appointment/ : 16/04/2013
 Termination date

Manager

Name : SRI NAMA NAGAMALLESWAR RAO
 Qualification : Diploma in Mining Engg,First Class Mines
 Appointment/ : 01/08/2017
 Termination date

6. Date of approval of Mining	:	Modif.of approved Mining Plan	13/08/2004
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	10/04/2007
		Modif.approved Mining Scheme	11/11/2009
		Mining Scheme rule 12 MCDR1988	08/03/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	G1	G-1: 17.7 Ha	Entire potentially mineralized area covered under G1
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	In house drilling carried out in the past	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Entire potentially mineralized area covered under G1
1e	Balance reserve as on 01/04/20	Nil	2.14 Million Tons as on 01.04.2020 (Grade CaO-44% & MgO: 10%)	As per AR submitted for FY - 2019-20
1f	General remarks of inspecting officers on geology, exploration etc			23 nos of core BH's with total meterage of 1579 drilled so far. Additional 3 nos of bore holes proposed in 2020-21 to ascertain the depth continuity of limestone in eastern side (Band-III).

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Band I - N-1521210 to 1521450, E-654338 to 654523 Band III - N-1520940 to 1521560, E-655866 to 656161	Mining operation was temporarily discontinued w.e.f. 31.10.2018 due to un-economical & stoppage of plant	Carried out only in Band-I as per the proposal previously
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate overburden in OB & benches proposed	Separate overburden in OB & benches maintained	Nil

2c	Stripping ratio or ore to OB ratio	1 : 5.99	NIL	The mine is under temporary discontinuance w.e.f. Oct 2018
2d	Quantity of topsoil generation in m3	No proposal	Nil	Nil
2e	Quantity of overburden generation in m3	891931 Tonnes	Nil	The mine is under temporary discontinuance w.e.f. Oct 2018
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mining operation was temporarily discontinued w.e.f. 31.10.2018 due to un-economical & stoppage of plant. Boundary pillars were maintained at the time of inspection

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two pits proposed (Band - I & III)	Nil	Due to stoppage of plant.
3b	Quantity of ROM mineral production proposed	148676.0 Tonnes	Nil	Nil
3c	Recovery of sailable/usable mineral from ROM production	80%	Nil	Nil
3d	Quantity of mineral reject generation	37169 Tonnes	Nil	Non working
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Nil	Nil
3f	Quantity of sub grade mineral generation.	No proposal	Nil	Nil
3g	Grade of sub grade mineral generation	No proposal	Nil	Nil

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	No mining operations were carried out in the reporting year	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposals	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Drilling & Blasting proposed (Depth: 8.8 mts ,Burden: 2 Mts & Spacing 3.5 Mts)	Nil	No mining operation
3k	Provision of mining machineries in mineral benches	Excavator & tipper combination proposed	Nil	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height - 8Mts,Width - More than 10mts proposed	Bench Height - 8Mts Width -10mts maintained in the past	Nil
3m	Total area covered under excavation/pits	15.64 Ha at the end of plan period	14.30 Ha	No mining operation
3n	Ore to OB ratio for the pit/mine during the year.	1 :5.99	Nil	No mining operation
3o	Total area put in use under different heads at the end of year	Area under mining:15.64 Ha, Waste dump: 34.03 Ha, Infrastructure & roads:1.56 Ha, Others: 4.15 Ha	Area under mining:14.30 Ha, Waste dump: 25.1 Ha, Infrastructure & roads:1.6 Ha, Others: 3.47 Ha	Nil

3p	Production of ROM mineral during the last five year period as applicable	2015-16: 148108.0TPA 2016-17: 151352.0 2017-18: 136620.0TPA 2018-19: 154620.0 2019-20: 148676.0	2015-16: 76450Tns 2016-17: 49800Tns 2017-18: 23423.0Tns 2018-19: 500.0 2019-20: Nil	Unit: In tonnes
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3q	General remarks of inspecting officers on method of mining etc.	Mining operation was temporarily discontinued w.e.f. 31.10.2018 due to un-economical & stoppage of captive plant.
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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)	Separate dumping of OB proposed	No generation of OB in the reporting year as the mine was not in operation.	OB dumped separately in the past. No generation of top soil.
4b	Location of topsoil, OB and mineral reject dumps	Band - I N-1520815-1520948 E-653653-654115 Band - III N-1521137-1521563 E-655034-655277	Mining operation was temporarily discontinued w.e.f. 31.10.2018 due to un-economical & stoppage of plant	OB dumping carried out as per the proposal previously
4c	Number of dumps within lease area and outside of lease area	Within Lease Area - 6 Outside Lease Area-Nil	Within Lease Area - 6 Outside Lease Area-Nil	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL	Outside the UPL	Nil
4e	Number of active and alive dumps.	02	02	Nil
4f	Number of dead dumps.	04	04	Nil

4g	Number of dumps established.	04	04	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed along toe of dump.	Constructed along toe of dump(Re constructed)	Nil
4i	Length of Retaining wall or garland drain all along dumps	Retaining Wall - 50 m X 2m X 1m	60 mts Retaining Wall & garland drain	Nil
4j	Number of settling ponds	One	One	Nil
4k	Specific comments of inspecting officer on waste dump management			Waste dump management was carried out as per the approved proposals in the past.

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 of backfilling	Nil	Backfilling is proposed at conceptual stage
5b	Area under backfilling of mined out area	No Proposal	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal	Nil	No generation of top soil
5d	Total area fully reclaimed and rehabilitated	No Proposal	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Existing pits were not matured for backfilling as ore has not been exhausted so far.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	1st of July every year	Yearly Report on PMCP submitted	Report submitted on 30.09.2020
6b	Area available for rehabilitation (ha) .	No proposal	Nil	Backfilling is proposed at conceptual stage
6c	afforestation done (ha).	No proposal	Nil	Nil
6d	No. of saplings planted during the year	No proposal	Nil	Nil
6e	Cumulative no .of plants	No proposal	Nil	Nil
6f	Any other method of rehabilitation	No proposal	Nil	Nil
6g	Cost incurred on watch and care during the year	No proposal	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil	Nil

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Afforestation - 750saplings	750 no of saplings planted	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.28Ha	0.35Ha	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	By way of Afforestation	Afforestation carried out	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environment monitoring in Core & Buffer zone proposed	Season wise environmental monitoring was carried out& all parameters were within the limits	Carried out by Global Environment & Mining Services, Hospet
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP implementation was being carried out as per the proposal

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM from mine will be transported through tippers to their crusher located at the plant premise	Nil	0.3 million tons Cement plant was stopped due to uneconomical
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Nil	Nil

7c	Different grade of mineral sorted out at mines.	Nil	Nil	Nil
7d	Any beneficiation process at mines .	No proposal	Nil	Only crushing & screening plant (100 TPH)at plant premise
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			There was no mineral conservation issue as ore above the threshold value was utilized in the past.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil	Nil
8b	Concurrent use or storage of topsoil	No proposal	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping was proposed for OB only.	Nil	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Nil	Backfilling is proposed at conceptual stage
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	Pits were not matured for backfilling

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	750 saplings proposed during year 2019-20	750 saplings planted during year 2019-20	Nil
8g	Survival rate	Not specified	80%	Nil
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed on roads to control airborne dust	Nil	No mining operation
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in & around the min area was good as the lessee had carried out afforestation & environmental protection measures as per the proposal.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to : Oct.2020 A.R. Submitted up to :2019-20	AR submitted on 30.06.2020	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mine Manager- Nama Nagamalleswara rao, Mining Engineer- Thayaraj M.P, Geologist- Praveen Kulkarni	Mine Manager- Nama Nagamalleswararao, Mining Engineer- None, Geologist- None	Non working mine
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining:14.30 Ha, Waste dump: 25.1 Ha, Infrastructure & roads:1.6 Ha, Others: 3.47 Ha	Appears to be correct	Nil
9d	Scrutiny of Annual return on afforestation	750 saplings@80% survival rate	Appears to be correct	

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	ROM Stock: Nil	Non working mine
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale Value, Ex Mine price & cost of Production- Nil	Non working mine
9h	Scrutiny of Annual return on fixed assets	Rs. 1665941	Appears to be correct
9k	Scrutiny of Annual return on mining machineries	Nil	Non working mine

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 :

(ARUN KUMAR)

Indian Bureau of Mines