

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

MCDR INSPECTION REPORT

Bangalore regional office

Mine file No : KNT/CTD/LST/17/BNG

Mine code : 38KAR07018

- (i) Name of the Inspecting : 130) PRASHANT S HEGDE
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : S/Shri N. Nagamalleswara Rao, Mines Manager, and Prav
Official with
Designation
- (iv) Date of Inspection : 07/12/2017
- (v) Prev.inspection date : 07/05/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : KANCHIPURA (ML 1839)
- (b) **Registration NO.** : IBM/638/2011
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : KARNATAKA
- District : CHITRADURGA
- Village : KANCHIPURA
- Taluka : HOSADURGA
- Post office : KANCHIPURA
- Pin Code :
- FAX No. : 08199-240314
- E-mail : mathod_mines@ramcocements.co
- Phone : 08199-240111/112
- (f) **Police Station** : SRIRAMPUR
- (g) **First opening date** : 27/01/2003
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : The Ramco Cements Limited,
Mathod works, Hosadurga Taluk,
Chitradurga Dist, Karnataka-577533
3. (a) **Lease Number** : KAR1092
- (b) **Lease area** : 48.36
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 17/01/2003
4. **Mineral worked** : DOLOMITE Associated
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. Radhakrishna Salai,
 Mylapore, CHENNAI CITY
 TAMIL NADU
 Phone: 044-28478666.
 FAX : +91 4428478676

Agent : Ajit Kumar Paul
 The Ramco Cements Limited
 Method works, Hosadurga
 Taluk, CHITRADURGA
 KARNATAKA
 Phone: 08199-240111/112
 FAX : 08199-240314

Mining Engineer

Name : K. Saravanan, Full Time
 Qualification : (BE-Mining)
 Appointment/ : 15/04/2013 21/08/2017
 Termination date

Manager

Name : K. Saravanan
 Qualification : (BE-Mining)
 Appointment/ : 15/04/2013 21/08/2017
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	02/12/2002
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	28/05/2007
		Modif.of approved Mining Plan	01/05/2012
		Mining Scheme rule 12 MCDR1988	11/09/2012
		MP review under 17(1) MCR 2016	25/01/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	No proposal	G - 1 area: 27.00Ha	NIL
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Entire mineralized area covered under G-1 level of exploration.	Nil
1e	Balance reserve as on 01/04/20	-----	15.50 million tonnes	Cement grade (CaO 35 to 46 % & MgO 8 % Max.) Based on approved RMP dated 25/1/17
1f	General remarks of inspecting officers on geology, exploration etc	-----	-----	51 nos of core boreholes with 4,142 total meterage were drilled (with grid interval of 100 m) so far to cover Entire mineralized area under G-1.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N-530-1140 E-760-965 (section nos ML-10 to ML-14)	Same location with lesser quantity.	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Overburden West side-5benches East Side-2benches Mineral-2 benches Top Soil-NIL	Benches as per the proposals Top Soil-NIL	NIL

2c	Stripping ratio or ore to OB ratio	1 :2.01	1 :1.42	NIL
2d	Quantity of topsoil generation in m3	Nil	Nil	Nil
2e	Quantity of overburden generation in m3	145,506	7,773	BD: 2.5 considered
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-----	-----	The part of transportation road (outside ML) is falls in forest area. Lessee has applied for forest clearance. Mine was under temp. discontinuance w.e.f. 21/8/17 due to operation becomes un-economic and no production reported during year 2017-18.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1 (pit No-3)	1 (pit No-3) Existing pits dimensions are as follows. (i)Pit No-1: 600 m X140 X28 m; (ii) Pit No-2 very small located in between 1 &3 and (iii) Pit No-3: 420 m X188m X37 m	NIL
3b	Quantity of ROM mineral production proposed	180,280tonnes	13,700 tonnes	NIL
3c	Recovery of sailable/usable mineral from ROM production	70%	70%	70 % recovery
3d	Quantity of mineral reject generation	NIL	NIL	All material above threshold value is being utilized.

3e	Grade of mineral rejects generation and threshold value declared.	N.A	N.A	All material above threshold value is being utilized.
3f	Quantity of sub grade mineral generation.	No Proposal	N.A	NIL
3g	Grade of sub grade mineral generation	No Proposal	N.A	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised - Crushing	Mechanised -Crushing	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	Conventional Drilling & blasting has been proposed	Conventional Drilling & blasting has been carried out.	Nil
3k	Provision of mining machineries in mineral benches	Open-cast mechanised mining method with heavy machineries Viz. excavators, Dumpers/tippers	The machineries were deployed as proposed in SOM	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height - 6Mts to 8m Width - More than 20mts in working benches and more than height of bench in non working benches.	Height - 6Mts to 8m Width - More than 20mts in working benches and more than height of bench in non working benches.	NIL
3m	Total area covered under excavation/pits	18.613HA	16.00HA	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1 :2.01	1 :1.42	NIL

3o	Total area put in use under different heads at the end of year	Pit - 18.613HA Dump - 12.644HA Green belt - 5.393HA Road -2.30HA	Pit - 16.00HA Dump - 13.25 Green belt - 0.90HA Road - 1.19	NIL
3p	Production of ROM mineral during the last five year period as applicable	2012-13 : 120,684 2013-14 : 180,778 2014-15 : 180,691 2015-16 : 178,124 2016-17: 180,280	2012-13 77,022 2013-14 :103,080 2014-15:26,750 2015-16: 0 2016-17:13,700	Unit: in tonnes
3q	General remarks of inspecting officers on method of mining etc.	-----	-----	Mine was under temp. discontinuance.w.e. f. 21/8/17 due to operation becomes un-economic and lack of demand. No production during year 2017-18 so far.

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 proposed for OB only.	Dumping of OB has been done as per proposal.	NIL
4b	Location of topsoil, OB and mineral reject dumps	N-405-660 E-952-1048 (eastern side of ML)	N-405-660 E-952-1048(eastern side of ML)	NIL
4c	Number of dumps within lease area and outside of lease area	Within Lease Area - 1 Outside Lease Area-Nil	Within Lease Area - 1 Outside Lease Area-Nil	NIL

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumping is proposed within the ultimate pit limit due to proposal of backfilling in conceptual period & space constrains.	Dumping of OB has been done as per proposal.	NIL
4e	Number of active and alive dumps.	1	1	NIL
4f	Number of dead dumps.	Nil	Nil	NIL
4g	Number of dumps established.	1(part)	1(part)	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	Maintenance	Retaining Wall at toe of dump on the north eastern side of ML boundary has been constructed with dimension of 150 X 1.5 X 2. Remaining area at the toe of dump is stabilized by temporary bund.	NIL
4i	Length of Retaining wall or garland drain all along dumps	Maintenance & 500 m garland drain	Done as per proposals	NIL
4j	Number of settling ponds	Maintenance	Maintenance work has been carried out as per proposal.	NIL
4k	Specific comments of inspecting officer on waste dump management	NIL	NIL	Mine was under temp. discontinuance w.e.f. 21/8/17 due to operation becomes un-economic. Total area covered by the dumps was about 13.25 Ha and the management was made as per the proposals.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No Proposal of backfilling as pits not matured for back-filling	Nil	Nil
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	Nil 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 are not matured for back-filling at present.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	The Annual Report on PMCP to be submitted within the stipulated time for FY 2016-17 within 1st July 2017	Yearly Report in accordance with Rule 23 E (2) is submitted on 05.07.2017	NIL
6b	Area available for rehabilitation (ha) .	13.25 Ha dumps area	13.25 Ha dumps area	NIL
6c	afforestation done (ha).	NIL	NIL	NIL
6d	No. of saplings planted during the year	NIL	NIL	NIL
6e	Cumulative no .of plants	10,000 saplings in 5 Ha area	10,000 saplings in 5 Ha area	NIL

6f	Any other method of rehabilitation	Retaining wall and garland drain provided at toe of dump.	150m retaining wall and garland drain provided as per proposals.	NIL
6g	Cost incurred on watch and care during the year	Rs 1,40,000	Rs25,000	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No Proposal	Nil as pit not matured for Backfilling	Backfilling was proposed at conceptual stage
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	1360 nos saplings	500 nos saplings	V/L issued on 28/12/17
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.85Ha	0.30Ha	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Afforestation	Afforestation	NIL

6p	Compliance of environmental monitoring (core zone and buffer zone)	Season-wise Environmental monitoring proposed	Season-wise Environmental monitoring were carried out and parameters are within the permissible limit.	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	----- --	-----	Mined out pit is not matured for back-filling. There was proposal of back-filling of wastes during conceptual period. About cumulative of 10,000 nos of saplings were planted 5 Ha area of dump.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM proposed to be crushed at crusher near Plant premise of 100 TPH capacity	ROM is being crushed at crusher of 100 TPH capacity located at plant premise about 7 kms from the mine.	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised Crushing with output size of -25 mm to +10 mm	Mechanised Crushing with output size of -25 mm to +10 mm	NIL
7c	Different grade of mineral sorted out at mines.	The low grade and high grade limestone blended	The low grade and high grade limestone blended at plant site	Dolomitic Limestone with CaO less than 35 % and MgO more than 6 % are being considered as waste/mineral reject.
7d	Any beneficiation process at mines	No such proposals	NIL	-----
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-----	-----	The lessee had captive cement plant having 0.29 million tonnes clinker capacity.

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)	Dumping is proposed for OB only.	Dumping of OB has been done as per proposal.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	NIL as pits not matured for back-filling	Backfilling is proposed at conceptual stage
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	NIL as pits not matured for back-filling	Backfilling is proposed at conceptual stage
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Entire ML area is non-forest. There is proposal of planation of 1360 nos of saplings during year 2016-17 in Green-Belt.	500 nos saplings within were planted during year 2016-17. About 13,000 nos of saplings were planted within ML so far.	V/L issued on 28/12/17
8g	Survival rate	No Proposal	75%	Nil
8h	Water sprinkling on roads to control airborne dust	All working benches & haulage road	All working benches & haulage road by water tankers	Nil

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NIL	NIL	The aesthetic beauty in and around mine is good as lessee had carried out afforestation and other environmental protective measures as per approved SOM.
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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 2017 A.R. submitted upto - FY 2016-17	Annual Return for FY 2016-17 submitted by the Lessee on 26/6/17. On-line submission of MR was regular.	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri Saravanan K, ME And Shri Praveen Kulkarni, Geologist	ME And Geologist posted another mine as Mine was under temp. discontinuance w.e.f. 21/8/17	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit - 16.00HA Dump - 13.25 Green belt - 0.90HA Road - 1.19	Actual also appear to be same.	Nil
9d	Scrutiny of Annual return on afforestation	i) Saplings - 500 saplings. ii) Survival Rate - 75%	Actual also appear to be same.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock of ROM: 17,863 tonnes	Actual also appear to be same at that time	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine Price Rs 388.03 per tonne and cost of production: Rs 651.45 per tonne	Appeared to be incorrect as captive mine	V/L issued on 28/12/2017

9h	Scrutiny of Annual return on fixed assets	Rs 151,51,491=00	Appeared to be correct as plant located outside ML.	NIL
9k	Scrutiny of Annual return on mining machineries	Excavator (0.9 Cum): 1 nos; Dumpers/ Tipper (10 cum): 3nos Dozser-1 nos; Rock Hole Drill: 1 nos (115 mm)	Appeared to be correct.	Presently mine was non-working.

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
MCDR17	Rule 11(1)	28/12/2017			
MCDR17	Rule 35(2)	28/12/2017			
	Rule 45(8)	28/12/2017			

Date :

(PRASHANT S HEGDE)

Indian Bureau of Mines