

## MCDR INSPECTION REPORT

S. N.	Particulars	Details
1	Name of the Mine	<b>MKS Limestone Mine, ML No. 1882</b>
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	388.50 (Non Forest)
3	Minecode	<b>38KAR07015</b>
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/638/2011
5	Name of the lessee, Address, phone, email and fax number	M/S The Ramco Cements Limited. Method Works Method Post, Hosadurga Taluk, Chitradurga Dist, Karnataka-577533 Phone: 08199-208938 Email: method_mines@ramcocements.co.in
6	Village	Method
7	Taluk/Mandal	Hosadurga
8	District	Chitradurga
9	Pincode	577533
10	State	Karnataka
11	Post office	Method
12	Nearest police station	Srirampura
13	Nearest Railway station	Hosadurga road
14	Date of Grant of Mining Lease	07.05.1983
15	Date of Execution	07.05.1983
16	Date of opening of Mine	14.05.1988
17	Date of first Renewal, if applicable and its period & expiry	Applied for first Renewal Yet to be granted
18	Date of second Renewal, if applicable and its period & expiry	Not Applicable
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	20 <sup>th</sup> April 2002, No Mining operations.
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri P.R.Venketrama Raja, M/S The Ramco Cements Limited, "Auras Corporate Centre", Dr. Radhakrishna Salai, Mylapore, Chennai-600 004. Ph: 044-28478666.
21	Name of the <b>Mine Agent</b> with Address, phone, email, fax number and date of appointment	Shri Ramchandra Y Dambal The Ramco Cements Limited Method Works Method Post, Hosadurga Taluk, Chitradurga Dist, Karnataka-577533 Phone: 08199-240111 Email: method_mines@ramcocements.co.in Appointed on 25.04.2014
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri K. Saravanan The Ramco Cements Limited, Method Works Method Post, Hosadurga Taluk,

		Chitradurga Dist, Karnataka-577533 Phone: 08199-240111 Email: saravanankmtd@ramcocements.co.in Appointed in 2011
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri K. Saravanan (BE-Mining) Experience- 12 years The Ramco Cements Limited, Mathod Works Mathod Post, Hosadurga Taluk, Chitradurga Dist, Karnataka-577533 Phone-08199-240111 Email-saravanankmtd@ramcocements.co.in
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri V.V.Kulkarni - Geologist Shri K. Saravanan – Mining Engineer
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan Period : 2001-02 to 2005-06 Date of approval: 01.02.2002
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Scheme of Mining Period: 2013-14 to 2017-18 Date of approval: 02.02.2015
27	Mineral(s) granted in lease and proved for mining	Limestone ( Applied for inclusion of manganese ore)
28	Method of Mining(Open cast, Underground)	Open cast
29	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
30	Captive/ Non captive	Captive
31	Date of inspection	18.06.2015
32	Name of accompanying mine officials with designation	Shri K. Saravanan – Mining Engineer cum manager

**Scientific Mining:** Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

#### Exploration

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	G1	G1 & G3	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not specified	By lessee	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1	G1 & G3	Proposed to drill 3 Core Boreholes in the financial year 2015-16.
1e	<b>Balance reserves as on 01.04.2015</b>	No proposal	Cat. 111: 1.563 million tonnes	CaO +35%
1f	General remarks of inspecting officer on geology, exploration etc.	No deviation w.r.t exploration is observed during the course of MCDR inspection on 18.06.2015.		

## Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	N:3880-4115 E:1185-1360	Nil	Mining operation is temporary discontinued due to statutory obligation
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Proposed (No generation of top soil)	Nil	
2c	Stripping ratio or ore to OB ratio	1: 2.19	Nil	
2d	Quantity of topsoil generation in m <sup>3</sup>	Nil	Nil	
2e	Quantity of overburden generation in m <sup>3</sup>	96, 177 tonnes	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Mining operation is temporary discontinued since 07/05/2003; hence there is no change in mine development since then.		

## Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	Single pit	Nil	
3b	Quantity of ROM mineral production proposed	42958 tonnes	Nil	
3c	Recovery of salable/usable mineral from ROM production	90%	Nil	
3d	Quantity of mineral reject generation	4396 tonnes	Nil	
3e	Grade of mineral reject generation and threshold value declared	CaO 35 to 40% MgO 3 to 5%	Nil	
3f	Quantity of sub-grade mineral generation	No proposal	Nil	
3g	Grade of sub-grade mineral generation	Not Applicable	Nil	
3h	Manual / Mechanized method adopted for segregating from ROM	Mechanized	Nil	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	Nil	
3j	Provision of drilling & blasting in mineral benches	Drilling & blasting is proposed by DTH holes	Nil	
3k	Provision of mining machineries in mineral benches	01 excavator 05 tripper 01 backhoe	Nil	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height - 6Mts Width – 8Mts	No change	
3m	Total area covered under excavation/pits	6.48 Ha.	6.40 Ha.	Dimension of the existing pit: 320m (L) x 200m(W) x 40m (D)

3n	Ore to OB ratio for the pit/mine during the year	1: 2.19	Nil	
3o	Total area put in use under different heads at the end of year (in Ha.)	Area under excavation: 6.48 Dump: 5.81 Roads: 2.20 Infrastructure: 0.1 Green belt: 1.00	No change in area.	
3p	Production of ROM mineral during last five-year period, as applicable	2010-11: 64274 2011-12: 65114 2012-13: 65494 2013-14: Nil <b>2014-15: 39562</b> ( in tonnes)	2010-11: 0.00 2011-12: 0.00 2012-13: 0.00 2013-14: 0.00 <b>2014-15: Nil</b> ( in tonnes)	
3q	General remarks of inspecting officer on method of mining etc.	Violation of rule 13(1) is issued to the lessee due to 100% deviation in production during 2014-15.		

### Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	OB – 2 dumps Top Soil – Nil	None	
4b	Location of topsoil, OB & mineral reject dumps	Waste dump: N: 3565 to 3925 E: 1100 to 1500	Nil	
4c	Number of dumps within lease area and outside lease area	Within Lease area: 02 Outside lease area: nil	Within Lease area: 02	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	N: 3565-3925 E: 1100-1500 Outside the UPL	No change in location.	
4e	Number of active & alive dumps	2 active dump	None	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilized	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Nil	
4i	Length of Retaining wall or garland drain all along dump	Retaining wall: 75mts Garland drain: 75mts	Nil	
4j	Number of settling ponds	1 No.	Nil	
4k	Specific comments of inspecting officer on waste dump management.	Violation of Rule 13(1) is issued to the lessee due to non-construction Retention wall, Garland drain & one settling pond along the toe of the dump.		

## Solid Waste Management-Backfilling

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal	Not Applicable	
5b	Area under backfilling of mined out area	No proposal	Not Applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	Not Applicable	
5d	Total area fully reclaimed & rehabilitated	No proposal	Not Applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc	This chapter is not applicable, because mineral is not found exhausted in the working pits & hence backfilling is not necessary as of now.		

## Progressive Mine Closure Plan

S.N.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	1 <sup>st</sup> July of every year.	Submitted vide letter no. TRCL/MTD/MKS-1882/IBM /EM/13-14 dated 01.08.2014 for F.Y. 2013-14	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	i) Not specified ii) Not specified iii) 1000 iv) Not specified v) Not specified vi) Not specified	i) Not applicable. ii) 1.00 Ha. iii) 700nos. inside ML iv) 2,000 nos. v) Nil vi) Not Available.	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	No Proposal	Nil	

6d	Compliance of Rehabilitation of waste land within lease i) Afforestation  ii) Area rehabilitated (ha) iii) Method of rehabilitation	No proposal	Nil	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	One Season Ambient Air Quality , Surface Water monitoring and noise monitoring	Nil	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	No deviation w.r.t PMCP compliance is observed during the course of MCDR inspection dated 18.06.2015.		

### Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch	Nil	There is no method followed for grade wise mineral sorting. The ROM is proposed to be transported from mines to crusher situated within the cement plant premises.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Nil	
7c	Different grade of mineral sorted out at mines	BF/ cement grade limestone	Nil	
7d	Any beneficiation process at mines.	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No deviation w.r.t mineral conservation is observed during the course of MCDR inspection dated 18.06.2015.		

## Environment

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil	Proposed mining area is devoid of any Topsoil
8b	Concurrent use or storage of topsoil	No proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	OB to be stacked separately	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	OB & Waste will be used during Final Mine Closure for back filling	Not applicable	Mineral is not found exhausted in the working pits
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Will be complied during Final Mine Closure	Not applicable	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	1000 nos. of additional plantation is proposed during 2014-15.	Total existing plantation 2000 nos. within 1 Ha. green belt area.	
8g	Survival rate	Not specified	60%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Nil	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	ML is not working since 07/05/2003. Any change in aesthetic beauty in & around the mining area is not observed. Existing plantations as carried out by the lessee are found to be maintained.		

## Compliance of Rule 45

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to May 2015 A.R. Submitted up to 2013-2014		
S.N.	Item	Details GIVEN in A.R. 2013-14	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining engineer & manager: Shri K. Saravanan Mining Geologist: Shri V.V. Kulkarni	No change.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area,	Area covered under current O/C working: 5.0 Ha.	Area covered under current O/C working: 6.40 Ha.	Party is advised to correct the land use pattern

	dumps etc.	Dump: 5.0Ha. Reclaimed: Nil	Used for waste disposal: 5.8Ha. Reclaimed: Nil	in future Annual Returns.
9d	Scrutiny of Annual return on afforestation	Nil	Not applicable	Mining operation is temporary discontinued since 07/05/2003
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Not applicable	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Stack: 117.9 tonnes. Grade not specified	No ROM stack is observed during current inspection.	As per monthly return of May 2015 ROM Stack : Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Nil	Not applicable	
9i	Scrutiny of Annual return on fixed assets	Fixed assets: Rs. 19982,540	Office building and Mining machineries found to be present within the ML area.	
9k	Scrutiny of Annual return on mining machineries	Nil	Not applicable	

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

1. During present inspection on 18.06.2015, Rule **13(1)** is found violated for production deviation & for non- construction of Retention wall, Garland drain & one settling pond along the toe of the dump. The same was pointed out to the party vide violation letter no. KNT/CTD/LST-12/BNG dated 29.07.2015.  
During last MCDR inspection dated 12/06/2014 by Shri V.D. Jalnapurkar- Senior Mining Geologist no violation was pointed out.
2. Boundary pillars are **not found to be constructed** as per the specifications prescribed vide CCOM's Circular No. 2/2010(addendum) dated 21/09/2011

Sd/-  
**KRISHNENDU CHATTERJEE**  
Junior Mining Geologist

(Name of inspecting officer with designation and date)

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