

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

MCDR INSPECTION REPORT

Nagpur regional office

Mine file No : MAH/YTL/LST- 43 /NGP

Mine code : 38MSH26013

- (i) Name of the Inspecting : **KQ13**) **KEWAL KRISHAN**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri. Sandeep Singh, GM(M)
Official with
Designation
- (iv) Date of Inspection : 04/10/2018
- (v) Prev.inspection date : 11/10/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **GOVARI**
- (b) **Registration NO.** : **IBM/256/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MAHARASHTRA
District : YEOTMAL
Village : GOVARI
Taluka : WANI
Post office : SINDOLA MINES 445 307
Pin Code : 445307
FAX No. : 07239 - 236272
E-mail : sindola_cd@accement.com
Phone : 07239 - 236272
- (f) Police Station :
- (g) First opening date : 28/01/1988
- (h) Weekly day of rest : WED
2. Address for : P.O. CEMENT NAGAR
correspondance : DISTT. - CHANDRAPUR
442 502
3. (a) Lease Number : MSH0017
- (b) Lease area : 558.9
- (c) Period of lease :
- (d) Date of Expiry : 31/03/2030
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : M/S CHANDA CEMENT WORKS (ACC)
 CEMENT NAGAR, DISTT.
 CHANDRAPUR (MS) - 442 502
 CHANDRAPUR MAHARASHTRA
 Phone:07172 - 75026
 FAX :07172 - 75165

Owner : Shri M.L.Narula, Director.
 M/s Associated Cement Co
 GREATER BOMBAY MAHARASHTRA
 Phone:
 FAX :

Agent : SHRI CHANDER SHEKHAR
 YEOTMAL MAHARASHTRA
 Phone:
 FAX :

Mining Engineer

Name : SHRI M.K. MEHTA, Full Time
 Qualification : B.E. MINING
 Appointment/ : 16/08/2002
 Termination date

Mining Engineer

Name : SHRI SANDEEP JAIN, Full Time
 Qualification : B.E. MINING
 Appointment/ : 22/11/2003
 Termination date

Geologist

Name : SHRI J. SUSEENDHIRAN, Full Time
 Qualification : MSc Geology
 Appointment/ : 15/10/2002
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	03/10/2001
Plan/Scheme of Mining		Modif.approved Mining Scheme	02/12/2003
		Modif.approved Mining Scheme	21/10/2005
		Modif.of approved Mining Plan	21/10/2005
		FMCP under 23C(1)	29/10/2005
		Mining Scheme rule 12 MCDR1988	15/12/2005
		Modif.approved Mining Scheme	06/03/2009
		Mining Scheme rule 12 MCDR1988	11/11/2011
		MP modif under MCR 1960	19/08/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	nil	nil	
1b	Exploration over lease area for geological axis 1 or 2	nil	nil	reserves already established under G1 category
1c	Exploration Agencies and Expenditure in lakh rupees during the year	nil	nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	nil	nil	
1e	Balance reserve as on 01/04/20	Balance reserves as on 01/04/2018	28147201 T under 111 14960000 T under 211	
1f	General remarks of inspecting officers on geology, exploration etc			No further exploration , as the area has been already explored under G1 level by drilling boreholes over a grid of 100x100.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	ML 13 to ML 18 as per proposal		
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	yes	as per proposal	
2c	Stripping ratio or ore to OB ratio	1:0.97	1:0.86	
2d	Quantity of topsoil generation in m3	16000	15200	

2e	Quantity of overburden generation in m3	1066118	933936	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development is as per the type of deposit and as per the proposal

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	yes, one large pit	
3b	Quantity of ROM mineral production proposed	1114478 (cum) 2.78 MT	2.68 MT	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	approximately 5% of the fines are being generated ,which are blended with ROM and dispatched
3d	Quantity of mineral reject generation	nil	nil	
3e	Grade of mineral rejects generation and threshold value declared.	nil	nil	
3f	Quantity of sub grade mineral generation.	nil	nil	
3g	Grade of sub grade mineral generation	nil	nil	
3h	Manual / Mechanised method adopted for segregating from ROM	mechanised crushing	as per proposal	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	no such proposal	nil	
3j	Provision of drilling and blasting in mineral benches	yes	yes	Drill Machine: Smart rock T40 with Nonel blasting
3k	Provision of mining machineries in mineral benches	yes	Shovel 4cubmt - 2 Nos. Shovel 7.2 cum - 1 No. Drill- Smart Roc T40 Dozer - 2 Nos. Dumper(60 Tons)- 5 Nos.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height 8-10m, Width- 15 -20 m.	yes, as per proposal	
3m	Total area covered under excavation/pits	As per the approved mining plan for the period 2016-17 to 2020-21, area under excavation/pits as on 1.4.2016 was 74.00 ha , additional requirement during the five year proposal period was 42.25 ha . Net area under excavation/pits as per proposal made will be 116.45	As per the Annual returns submitted for the year 2017-18, area covered Under excavation/ pits is 115.40ha	
3n	Ore to OB ratio for the pit/mine during the year.	1;0.97	1:0.86	

3o	Total area put in use under different heads at the end of year				Mining: 115.40 ha, reclaimed/rehabilitated 17.00ha, waste disposal 41.00ha, building and road 3.76 ha, other purpose (green belt, garland drain and top soil stack) 8.2 ha.
3p	Production of ROM mineral during the last five year period as applicable	2013- 14 2.51MT 2014-15 2.51MT 2015-16 2.51 MT 2016-17 2.78 MT 2017-18 2.78 MT	2013-14 2014-15 2015-16 2016-17 2017-18	1.89 MT 2.24MT 2.43MT 2.05 MT 2.68 MT	
3q	General remarks of inspecting officers on method of mining etc.				Method of mining is Category A, opencast and is fully mechanized , which is justified in terms of Capital expenditure, production requirements for feeding the Cement Plant..

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	yes	as per proposal	
4b	Location of topsoil, OB and mineral reject dumps	ML8 to ML 17 ML 23 to ML 24 ML 21 to ML 26	as per proposal	One top Soil stack alongwith concurrent utilization. OB and Waste Dumps

4c	Number of dumps within lease area and outside of lease area	4 , all dumps within lease area	4, within lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside pit limit	All dumps are outside the pit limit	
4e	Number of active and alive dumps.	2	as per proposal	
4f	Number of dead dumps.	01	yes as per proposal	waste dump
4g	Number of dumps established.	01	yes, as per proposal	Waste dump stabilized by plantation
4h	Whether Retaining wall or garland drain all along dumps are there.	yes	yes	
4i	Length of Retaining wall or garland drain all along dumps	yes	all along the dumps about 3.0km	
4j	Number of settling ponds	no such proposal	nil	
4k	Specific comments of inspecting officer on waste dump management			Dump management is carried out as per proposal. All the dumps are outside the pit limit .Dumps are surrounded by garland drains and retaining wall. The overall waste dump management aspect is satisfactory

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.	after full extraction	After the full extraction ,with available waste.	
5b	Area under backfilling of mined out area	ML-15 to ML-17, 2.1 ha	yes, as per proposal	There is a shortfall as mineral is left due to less production
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Plantation on dump and backfill	as per proposal	Some top soil stacked for future usage
5d	Total area fully reclaimed and rehabilitated	26.13 ha(during the plan peroid)	1.5 ha	for the year 2017-18
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling will be done after the full extraction of mineral. However, the efforts made by the lessee are satisfactory for restoring the area.

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).	yes	yes	
6b	Area available for rehabilitation (ha) .	1.5 ha	as per proposal	
6c	afforestation done (ha) .	1.5 ha	1.5ha	

6d	No. of saplings planted during the year	6000	as per proposal
6e	Cumulative no .of plants	102000	as per proposal
6f	Any other method of rehabilitation	nil	nil
6g	Cost incurred on watch and care during the year	Rs 800000	as per proposal , approximately
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	ML 15 to ML 17 2.1 ha	ML 15 to ML 17 1.5 ha
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	nil	1.5 ha
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	nil	nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	nil	nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	nil	0.5 ha

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)		1.5 ha	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	nil	nil	Extensive plantation is done on waste land
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes, environment monitoring is proposed for core zone and buffer zone	yes, as per proposal	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP operations are managed are bit lagging from proposals. Environment Monitoring in the core zone and buffer zone are being done regularly.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	grade wise	as per proposal	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical	yes as per proposal	
7c	Different grade of mineral sorted out at mines.	cement grade	cement grade	

7d	Any beneficiation process at mines .	The mechanical crushing of limestone is being undertaken wherein the size of Limestone is reduced to make it amenable for use as raw feed.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		ROM after crushing is being fed to kiln. Some fines are generated while crushing, but they are blended with ROM and are utilized.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	yes	yes	
8b	Concurrent use or storage of topsoil	yes	for plantation purpose	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	yes	yes ,as per proposal	Dumps at S and SE of ML area
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	yes	backfilling is in progress	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Pits are proposed for backfilling after exhaustion of mineral	About 2.0 ha area of mined out area is backfilled, And about 17 ha area of dumps are stabilized through plantation.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes, available in EMP	Yes, available in EMP	
8g	Survival rate	78%	70%	
8h	Water sprinkling on roads to control airborne dust	yes	Two tankers of 10k and 28Kl for sprinkling, Fixed sprinkling erection is in progress	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty is good in and around the mine due to the plantation carried out within the lessee.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		M.R. Submitted upto Aug 2018 A.R. submitted upto 2017-2018	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	yes	provided	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	yes	provided
9d	Scrutiny of Annual return on afforestation	yes	provided
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	yes	provided
9f	Scrutiny of Annual return on ROM stock and/or graded ore	yes	provided
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	yes	provided
9h	Scrutiny of Annual return on fixed assets	yes	provided
9k	Scrutiny of Annual return on mining machineries	yes	provided

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

Date :

(KEWAL KRISHAN)

Indian Bureau of Mines