

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

MCDR inspection REPORT

Hyderabad regional office

Mine file No : TS/LST-86/HYD

Mine code : 38TNG08001

- (i) Name of the Inspecting : **M029**) **MADHU SUDHAN YADAV M**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri Kalyan Chakravarthy, Mine Manager & Sri. L.Sriman
Official with
Designation
- (iv) Date of Inspection : 23/08/2022
- (v) Prev.inspection date : 29/10/2021

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BHAVANIPURAM-III**
- (b) **Registration NO.** : **IBM/1029/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : **TELANGANA**
- District : **NALGONDA**
- Village : **RAVIPAHAD**
- Taluka : **NEREDUCHERLA**
- Post office : **JANPAHAD**
- Pin Code : **508218**
- FAX No. : **08686-229502**
- E-mail : **mines@deccancements.com**
- Phone : **08686-229502**
- (f) Police Station : **Palakeedu**
- (g) First opening date : **23/03/2015**
- (h) Weekly day of rest : **SUN**
2. Address for : **M/s Deccan Cements,Ravipahad Village,**
correspondance **Mandal: Palakeedu,Suryapet District**
Telangana State
3. (a) Lease Number : **TNG0017**
- (b) Lease area : **183.11**
- (c) Period of lease : **50**
- (d) Date of Expiry : **27/12/2063**
4. Mineral worked : **LIMESTONE** Main

5. Name and Address of the

Lessee : M/S DECCAN CEMENT LIMITED
 DECCAN CHAMBERS 6-3-666/B,
 SOMAJGUDA HYDERABAD
 HYDERABAD TELANGANA
 Phone:3310168, 3310552, 3310561, 3310599
 FAX :(91) 040-3318366

Owner : DECCAN CEMENTS LIMITED
 Ravipahad
 Village,Huzurnagar Mandal
 Suryapet District Telangana
 State NALGONDA TELANGANA
 Phone: 08686-229502
 FAX : 08686-229502

Agent : S.VENKATESWARULU
 SAGAR CEMENTS LTD
 MATTAMPALLY VILLAGE AND
 MANDAL NALGONDA DISTRICT
 NALGONDA TELANGANA
 Phone: 08683247029
 FAX : 08683247041

Mining Engineer

Name : CH.NARESH KUMAR,Full Time
 Qualification : B.Tech(MINING ENGINEERING)
 Appointment/ : 08/02/2012
 Termination date

Geologist

Name : L.Srimannarayana,Full Time
 Qualification : M.Sc(geologist)
 Appointment/ : 28/04/2017
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	10/10/2013
Plan/Scheme of Mining		MP modif under 17(3) MCR 2016	16/04/2018
		MP modif under 17(3) MCR 2016	19/11/2019
		MP modif under 17(3) MCR 2016	12/07/2021

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	2021-22 - 10 Nos.	2021-22 - 10 Nos.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	B.S.Envi Tech Pvt Ltd, Hyderabad	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Entire lease area is explored into G1 level.
1e	Balance reserve as on 01/04/20	----	Proved Mineral Reserves as on 01/04/2022 - 73.5819 million Tonnes. Grade: CaO-45.01% SiO2-14.75%	
1f	General remarks of inspecting officers on geology, exploration etc			Entire mining lease area is covered under G1 level of exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N1847980 to N1848798 & E362671 to E363471	Work done within the proposed co-ordinates.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Only mineral benches proposed	Three benches developed in the mineral.	
2c	Stripping ratio or ore to OB ratio	No proposal	Nil	
2d	Quantity of topsoil generation in m3	No Proposal	Nil	
2e	Quantity of overburden generation in m3	No proposal	Nil	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Stratified deposit of regular habit and development is done in Limestone only. There is no existence of top soil and overburden.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One pit	
3b	Quantity of ROM mineral production proposed	2021-22 : 3075975tonness	2021-22 : 1600000 tonness	
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.	No Proposal	Nil	
3g	Grade of sub grade mineral generation	Not Applicable	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	Nil	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	

3j	Provision of drilling and blasting in mineral benches	Drilling and blasting is proposed in the mineral benches.	Wagon drill being used for drilling with a blast hole dia of 115 mm & depth of 8.8 m, spacing of 5 meters and burden of 3 meters. Blasting with ANFO & slurry explosives with NONELS as initiating system. as initiating system.
3k	Provision of mining machineries in mineral benches	It was proposed to use wagon drills, excavators & dumpers for drilling, loading & transporting of ore to crushing plant.	During inspection, it was observed that wagon drills, dumpers & excavators are being used for drilling, loading & transportation of ore to crushing plant
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 8 meters	Bench height is being maintained between 8 m and digging height of the excavators are compatible with bench height
3m	Total area covered under excavation/pits	46.16 Ha	31.087 Ha
3n	Ore to OB ratio for the pit/mine during the year.	No proposal	Nil
3o	Total area put in use under different heads at the end of year	Openpit - 46.16 Ha Mineral Storage - 0.11 Ha Infrastructure - 0.032 Ha Roads - 3.80 Ha	Openpit - 31.087 Ha Infrastructure - 0.2 Ha

3p	Production of ROM mineral during the last five year period as applicable	2018-19 - 1.1016 million tonnes 2019-20 - 1.801 million tonnes 2020-21 - 2.000025 million tonnes 2021-22 - 3.417 million tonnes	2018-19 - 0.86 million tonnes 2019-20 - 1.423 million tonnes 2020-21 - 1.852 million tonnes 2021-22 - 1.6 million tonnes
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3q	General remarks of inspecting officers on method of mining etc.	The mining operations are being carried out by opencast fully mechanised method using HEMM with deep hole drilling and blasting.
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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)	No proposal	Nil	
4b	Location of topsoil, OB and mineral reject dumps	No proposal	Nil	
4c	Number of dumps within lease area and outside of lease area	No proposal	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Nil	
4e	Number of active and alive dumps.	No proposal	Nil	
4f	Number of dead dumps.	No proposal	Nil	
4g	Number of dumps established.	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Nil	

4i	Length of Retaining wall or garland drain all along dumps	No proposal	NA	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management			No OB is generated in the mining area and the topsoil is scrapped and utilised for plantation.

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 in time	Submitted for the year 2021-22.	

6b	Area available for rehabilitation (ha) .	No proposal	Nil
6c	afforestation done (ha).	2021-22 - 0.5 Ha	2021-22 - 0.74 Ha
6d	No. of saplings planted during the year	2021-22 - 1250 Nos	2021-22 - 180 Nos.
6e	Cumulative no .of plants	----	19310 Nos. as on 01/04/2022
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 2021-22 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	Entire ROM produced is to be despatched.	The entire ROM is being fed to crusher and then supplied to the plant for manufacturing for Cement.	
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	No sub grade has been generated. Beneficiation is not required as the entire ROM mineral is utilised for captive plant.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No such proposal is made.	There is no generation of top soil.	
8b	Concurrent use or storage of topsoil	No proposal	Nil	
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)	1250 Nos. of saplings at 0.5 Ha	1800 Nos. of saplings at 0.6 Ha	
8g	Survival rate	No proposal	90%	

8h	Water sprinkling on roads to control airborne dust	Yes, proposed.	Water tanker with 12 KL capacity deployed for water sprinkling and sprinklers provided in the haul road.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation is being carried out in and around the mine to improve aesthetic beauty.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly return and annual return to be submitted	Annual and Monthly returns submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager & Mining Engineer : D Kalyana Chakravarthy, Geologist : L Sreemannarayan a	Manager & Mining Engineer : D Kalyana Chakravarthy, Geologist : L Sreemannarayana	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining - 31.087 Ha, Other infrastructure : 0.02 Ha	Same as submitted	
9d	Scrutiny of Annual return on afforestation	1250 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	Opening & Closing stock - 1200 Tonnes	Opening & Closing stock - 1200 Tonnes	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production reported as Rs.175.70/-	Total Depreciation amount is not matching with the cost per tonne calculation & total overhead cost is not submitted Part-III. Sl.No.5. Show cause notice issued as per rule.	
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets reported by the lessee in annual returns is Rs.216935044/-	Fixed assest could not be verified.	The figures furnished is common for both the mines(Bhavanipuram Lease-2& Lease-3).
9k	Scrutiny of Annual return on mining machineries	Shovel - 03 Nos. Dumper - 05 Nos. Dozer - 1 No. Drill Machine - 3 Nos. Explosive van - 1 Nos. Water Tanker - 2 Nos.	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 cause position			
Rule NO.		Issued on	Compliance on	Rule NO.		Issued on	Compliance on
MCDR17	Rule 11(1)	05/09/2022	31/10/2022				
MCDR17	Rule 31(1)	05/09/2022	31/10/2022				
	Rule 45(7)	05/09/2022					

Date :

(MADHU SUDHAN YADAV M)

Indian Bureau of Mines