

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

**MCDR inspection REPORT
Hyderabad regional office**

Mine file No : AP/RR/LST-1/HYD

Mine code : 38APR23001

- (i) Name of the Inspecting : **M029**) **MADHU SUDHAN YADAV M**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri.Pulkit Amburkar, Sri.Adil
Official with
Designation
- (iv) Date of Inspection : 15-MAR-21
- (v) Prev.inspection date : 14-NOV-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KARANKOTE**
- (b) **Registration NO.** : **613**
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **TELANGANA**
- District : **RANGAREDDY**
- Village : **KARANKOTE**
- Taluka : **TANDUR**
- Post office : **CCI TANDUR**
- Pin Code : **501158**
- FAX No. : **08411-247218**
- E-mail : **miningccitandur@mail.com**
- Phone : **08411-247223**
- (f) **Police Station** : **KARANKOTE**
- (g) **First opening date** : **12-JAN-83**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **CEMENT CORPORATION OF INDIA,**
correspondance **TANDUR CEMENT FACTORY,**
TANDUR, R.R. DIST.
3. (a) **Lease Number** : **APR0069**
- (b) **Lease area** : **255.15**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **21-JAN-94**
4. **Mineral worked** : **LIMESTONE** **Main**

5. Name and Address of the

Lessee : CEMENT CORPORATION OF INDIA LTD
 CORE-V,SCOPE COMPLEX
 7,LODHI ROAD,NEW DELHI
 110003 ADILABAD TELANGANA
 Phone:
 FAX :

Owner : B N V PRASAD
 CORE 5, SCOPE COMPLEX, 7
 LODHI DELHI DELHI
 Phone:
 FAX :

Agent : B.M.Mahana
 Tandur Cement factory ,
 karankote RANGAREDDY
 TELANGANA
 Phone:
 FAX :

Mining Engineer

Name : Deepak Kumar Adil,Full Time
 Qualification :
 Appointment/ :
 Termination date

Geologist

Name : Manish Kumar Shukla,Full Time
 Qualification :
 Appointment/ :
 Termination date

Manager

Name : Sharad Kumar
 Qualification :
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	19-NOV-04
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	12-OCT-12
		MP modif under 17(3) MCR 2016	30-SEP-16
		MP review under 17(1) MCR 2016	08-JAN-19

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	2019-20 - Nil	2019-20 - Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	---	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	-----	Entire mineralised area is converted into G1 level of exploration.	
1e	Balance reserve as on 01/04/20	----	Proved Reserves as on 01/03/2021 - 212.37 million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			Entire mineralised area is converted into G1 level of exploration laterally.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	458-456 mRL 453-443mRL 443-442mRL	Work done within the proposed co-ordinates.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Seperated benches for topsoil and mineral is proposed.	The topsoil existing in the working area is not being excavated separately.	Violation issued as per rule.
2c	Stripping ratio or ore to OB ratio	Nil	Nil	
2d	Quantity of topsoil generation in m3	2019-20 - 34500 cu.m 2020-21 - 33880 cu.m	2019-20 - 8550 cu.m 2020-21 - 3800 cu.m	

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			No OB is generated in the proposed mining area and the limestone is found just below the top soil horizon of around 1.5m thickness.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	2019-20 - 1048125 Te 2020-21 - 1049588 Te	2019-20 - 477000 Te 2020-21 - 791289 Te (till Feb'21)	
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 proposed in the mineral benches.	During inspection it was observed that Wagon drill being used for drilling with a blast hole dia of 115 mm & depth of 9 m, spacing of 5 meters and burden of 4 meters. Blasting with slurry and emulsion explosives with NONELS 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	During inspection it was noticed that the 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	94.90 Ha	78.18 Ha
3n	Ore to OB ratio for the pit/mine during the year.	Nil	Nil
3o	Total area put in use under different heads at the end of year	160.46 Ha	128.756 Ha

3p	Production of ROM mineral during the last five year period as applicable	2015-16 : 1,60,000 T 2016-17 : 1497510 T 2017-18 : 1,497750 T 2018-19 = 1492600T 2019-20= 1048125 T 2020- 21=1049588 T	2015-16 :947375 T 2016-17 : 800000 T 2017-18 : 721000 T 2018-19 : 630500 T 2019-20 : 477000 T 2020-21: 791289 T
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3q	General remarks of inspecting officers on method of mining etc.	Opencast mechanised mining method with deephole drilling and blasting technique is being carried out.
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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)	Seperate dumping for topsoil is proposed	Seperated topsoil dump is proposed	
4b	Location of topsoil, OB and mineral reject dumps	No proposal	Topsoil generated is used for green belt development and remaining is stacked in the existing topsoil dump.	
4c	Number of dumps within lease area and outside of lease area	One	One	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	
4e	Number of active and alive dumps.	One	One	
4f	Number of dead dumps.	One	One	
4g	Number of dumps established.	Nil	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			
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management			Top soil generated is partially used for plantation and remaining quantity is being stacked in the existing dump at the south western portion of the mining lease.

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.
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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	Nil	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	2019-20 - 0.5Ha 2020-21 - 1.0Ha	2019-20 - 1.0Ha 2020-21 - 2.5Ha	
6d	No. of saplings planted during the year	2019-20 - 1000 Nos.	2019-20 - 1000 Nos.	
6e	Cumulative no .of plants	----	32081 Nos. (till Feb'21)	
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 2019-20 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	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Entire ROM to be utilized directly for captive purpose, hence no grade wise sorting is proposed within the ML.	2019-20 - 477000 Te	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Nil	
7c	Different grade of mineral sorted out at mines.	Not applicable	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.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed to remove topsoil seperately	Topsoil not removed seperately.	Violation issued as per rule.
8b	Concurrent use or storage of topsoil	Topsoil to used for plantation and remaining to be stacked	Topsoil not removed seperately.	Violation issued as per rule.
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)	1000 Nos. saplings over 0.45 Ha in the year 2019-20.	1000 Nos. saplings over 0.5 Ha in the year 2019-20.	
8g	Survival rate	----	60%	
8h	Water sprinkling on roads to control airborne dust	Water Tankers to be provided for dust supression.	Water tanker is provided for dust supression.	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Plantation is done in the 7.5m safety zone.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	To be submitted in time	Submitted in time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager - Sri. Sharad Kumar Mining Engineer - Sri. Sharad Kumar Geologist - Ajit Shukla	Manager - Not appointed after retirement of Sri.Sharad Kumar Mining Engineer - Not appointed after retirement of Sri.Sharad Kumar Geologist - Manish Kumar Shukla	Violation issued as per rule.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Open pit - 78.18 Ha Infrastructure - 32.6 Green belt and topsoil storage - 17.976 Ha	Broadly as per submission.	
9d	Scrutiny of Annual return on afforestation	1000 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	Nil	Nil	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price is reported as Rs.208.57/-	In the cost per tonne details overhead cost is not matching with the total over head cost in other chapter. DMF & NMET paid is not mentioned in the cost per tonne calculation.	Violation issued as per rule.
9h	Scrutiny of Annual return on fixed assets			
9k	Scrutiny of Annual return on mining machineries			

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 31(1)	30-MAR-21			
MCDR17	Rule 36(1)	30-MAR-21			
MCDR17	Rule 55(1)(3)	30-MAR-21			
	Rule 45(7)	30-MAR-21			

Date :

(MADHU SUDHAN YADAV M)

Indian Bureau of Mines