

INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT 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 : C\$10) Ch.Suseela
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Shri Manish Kumar Shukla, Geologist
Official with
Designation
- (iv) Date of Inspection : 21-DEC-21
- (v) Prev.inspection date : 15-MAR-21

PART-I : GENERAL INFORMATION

1. (a) Mine Name : KARANKOTE
- (b) Registration NO. : IBM/5210/2011
- (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: 011-24360158
 FAX : 011-24364555

Owner : Shri R.P.Singh
 Core 5, Scope Complex, 7
 Lodhi Delhi. DELHI DELHI
 Phone: 011-24360158
 FAX : 011-24364555

Agent : VIVEK KUMAR
 TANDUR CEMENT FACTORY CCI
 TANDUR RANGAREDDY
 TELANGANA
 Phone: (08411)247221/223
 FAX : (08411)247243

Mining Engineer

Name : Shri Pulakit Amburkar, Full Time
 Qualification :
 Appointment/ :
 Termination date

Geologist

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

Manager

Name : Shri Dhruvajyothi Samadder
 Qualification :
 Appointment/ :
 Termination date

6. Date of approval of Mining
Plan/Scheme of Mining

Mining plan under Rule 11 of MCR, 1988 16.11.1994
 : Renewal under rule 22 MCR1960 19-NOV-04
 Mining Scheme rule 12 MCDR1988 12-OCT-12
 MP modifi 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	NIL	NIL	
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	Entire mineralised area has been explored under G1 scale of exploration.
1e	Balance reserve as on 01/04/20	RESERVES AS ON 1.4.2021 Proved-- 209.062 million tonnes (111) Probable -- 19.21 million tonnes (121) Resources: 211-73.69 mill.tonnes 221 &222-- 2.20 mill.tonnes 334--1.82 mill.tonnes Grade--Cao-- 44.88 % Sio2--11.63 %	RESERVES AS ON 1.4.2021 Proved--212.37 million tonnes (111) Probable --19.21 million tonnes (121) Resources: 211-73.69 mill.tonnes 221 &222--2.20 mill.tonnes 334--1.82 mill.tonnes Grade--Cao--44.88 % Sio2--11.63 %	
1f	General remarks of inspecting officers on geology, exploration etc	_____	_____	Entire mineralised area has been explored under G1 scale of exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	E 762500--E 762900 N 1916700-- N 1917000 456-453 mRL 453-443 mRL 443-437 mRL	Development and production was carried out within the proposed area	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches for top soil and mineral is proposed	Separate benches for top soil and mineral is maintained	
2c	Stripping ratio or ore to OB ratio	NIL	NIL	
2d	Quantity of topsoil generation in m3	33800 m3	11566 m3	
2e	Quantity of overburden generation in m3	No proposal	NIL	There is no overburden. Only top soil is observed.
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. The Limestone is found just below the top soil of about 1.5 m thickness

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	2020-21-- 1,049,588 tonnes	2020-21--873,344 tonnes	Achieved less production due to Covid-19 pandemic and as per the plant requirement.
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	Total ROM is being utilised
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 mineral benches	Wagon drill is being used for drilling blast holes of 115 mm dia and depth of 9m, spacing of 5 m and burden of 4m. Slurry and emulsion explosives are used for blasting with Nonels as initiating system.	
3k	Provision of mining machineries in mineral benches	It was proposed to use wagon drills, excavators and dumpers for drilling, loading and transportation of ore to crusher.	During inspection, it was observed that wagon drills, dumpers and excavators are being used for drilling, loading and transportation of ore to crusher.	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	The height of the bench--5-10 m Width--50-150 m	During the inspection , it was observed that the bench height is being maintained as 8 to 10 m and the digging height of the excavators are compatible with the bench height.	
3m	Total area covered under excavation/pits	88.82 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	2016-17--1497510 t, 2017-18--1497750 t, 2018-19--1492600 t, 2019-20--1048125 t, 2020-21--1049588 t	2016-17--800000 t, 2017-18--721000t, 2018-19--630500 t, 2019-20--477000 t, 2020-21--873344 t	
3q	General remarks of inspecting officers on method of mining etc.	_____	_____	Opencast mechanised method of mining with deephole drilling and blasting is being adopted.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Temporary storage of top soil is proposed	Temporary storage of top soil is maintained and later it is being utilised for plantation.	
4b	Location of topsoil, OB and mineral reject dumps	No proposal	Top soil generated is used for green belt development .	

4c	Number of dumps within lease area and outside of lease area	One old dump within the lease	One old dump within the lease	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond UPL	Beyond UPL	
4e	Number of active and alive dumps.	NIL	NIL	
4f	Number of dead dumps.	NIL	One old dump	
4g	Number of dumps established.	NIL	One old dump was stabilised	
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	Not applicable	NIL	
4j	Number of settling ponds	No proposal	NIL	
4k	Specific comments of inspecting officer on waste dump management	_____	_____	Top soil generate is being 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 mine has not reached up to its UPL and not matured for reclamation.

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).	Annual Report on PMCP to be submitted	Annual Report on PMCP has been submitted and found to be in order.	
6b	Area available for rehabilitation (ha) .	No proposal	NIL	
6c	afforestation done (ha).	2020-21--1.0 ha	2020-21--2.5 ha	
6d	No. of saplings planted during the year	2020-21--1000 saplings	2020-21--2000 WML 5000 OML	
6e	Cumulative no .of plants	_____	WML--32081 OML--143285	
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 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 monitoring of environmental parameters are to be carried out.	Quarterly monitoring of environmental parameters have been carried out for the year 2020-21 and found that all the parameters are within the permissible limits.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No grade wise sorting is proposed as total ROM is being utilised for captive purpose.	During the year 2020-21, a quantity of 873344 tonnes limestone was produced and the same was utilised for captive purpose.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not Applicable	NIL	
7c	Different grade of mineral sorted out at mines.	Not Applicable	NIL	
7d	Any beneficiation process at mines	No proposal	NIL	No beneficiation is required as the entire ROM is of feed grade.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	_____	_____	No beneficiation is required as the entire ROM is feedable to plant.

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There is a proposal of removal of top soil and to be utilised for plantation	Top soil is being removed and utilised for plantation.	
8b	Concurrent use or storage of topsoil	Concurrent usage of top soil for plantation purpose	The top soil generated is being used for plantation purpose.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	NIL	There is no generation of OB and waste
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 saplings over an area of 0.45 ha in the year 2020-21	2000 saplings were planted within ML and 5000 saplings were planted in outside ML during the year 2020-21	
8g	Survival rate	_____	60%	
8h	Water sprinkling on roads to control airborne dust	Water sprinklers are to be provided for dust suppression on haul roads	Water sprinklers are being provided for dust suppression on haul roads	

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

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Return submitted up to November, 2021 Annau Returns submitted up to the year 2020-21	Monthly Return submitted up to November, 2021 in time Annau Returns submitted up to the year 2020-21 in time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer & Mines Manager--Shri Sharad Kumar for the year 2020-21 Geologist--Shri M.K.Shukla	Mining Engineer & Mines Manager--Shri Sharad Kumar for the year 2020-21 Geologist--Shri M.K.Shukla	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pit--82.360 ha, Infrastructure --32.6 ha, Green belt and top soil storage-- 21.722 ha	Seems to be in order	
9d	Scrutiny of Annual return on afforestation	2000 in within ML 5000 in outside ML	Seems to be in order and verified in the register maintained for the purpose	
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- - Rs.185.77/- CoP-- Rs.185.77/-	Some discrepancies were observed in the calculation of cost of production. Hence, violation of Rule 45(7) was pointed out to the Lessee.
9h	Scrutiny of Annual return on fixed assets	Rs. 23796449/-	Found in order
9k	Scrutiny of Annual return on mining machineries	Hydraulic Shovel(3700 cu.m)--1 Hydraulic Shovel(1800 cu.m)--1 Dozer--320 HP- -1 Dumper--35 tonnes--2 Rock Drill(115mm)-- 1 Air Compressor-- 365 cu.m--1	Observed some discrepancies in the quantity of machinery. Hence violation of Rule 45(7) was pointed out to the party.

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 45(7) (a) 07-JAN-22			

Date : 07.1.2022

Ch. Suseela
(Ch. Suseela)

Indian Bureau of Mines