INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/RR/LST-4/HYD Mine code : 38APR23003

(i) Name of the Inspecting : 160) Kalmata.M.K

Officer and ID No.

(ii) Designation : Regional Mining Geologist

(iii) Accompaning mine : Shri N Chaitanya, Mines Manager

Official with Designation

(iv) Date of Inspection : 12-JAN-24
(v) Prev.inspection date : 13-NOV-19

PART-I : GENERAL INFORMATION

. (a) Mine Name : SANGAMKALAN NO. 2

(b) Registration NO. : IBM/613/2011

(c) Category : A Mechanised

(d) Type of Working : Opencast

(e) Postal address

State : TELANGANA
District : RANGAREDDY
Village : SANGAMKALAN
Taluka : TANDUR (MANDAL

Post office : MALKAPUR Pin Code : 501147

FAX No. : 04428572100

E-mail : palanikumaresan.m@indiaceme

Phone : 9710911585

(f) Police Station :

(g) First opening date : 15-JUL-02

(h) Weekly day of rest : SUN

2. Address for : VISAKA CEMENT IND. LTD.

correspondance MALKAPUR, TANDUR(M)

RANGA REDDY DIST.

3. (a) Lease Number : APR1350

(b) Lease area : 112.68

(c) Period of lease : 20

(d) Date of Expiry : 03-SEP-18

4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : THE INDIA CEMENTS LTD

DHUN BUILDING 827, ANNA SALAI CHENNAI CHENNAI CITY

TAMIL NADU
Phone:282521526
FAX:28520638

Owner : T.S.RAGHUPATHY

SANGAMKALAN TANDUR

RANGAREDDY AP RANGAREDDY

TELANGANA
Phone: 46324

FAX : 08411-46302

Agent : K.S.Srinivas

Sangamkalan-Village Malkapur, Tandur-Tq,

Vikarabad (d), Telangana-501146

.

Mining Engineer

Name : TV Satya Prasad, Full Time

Qualification : B.E.Mining Appointment/ : 16-OCT-23

Termination date

Geologist

Name : N.JANARDHANREDDY, Full Time

Qualification : M.SC.(GEOLOGY)

Appointment/ : 26-APR-17

Termination date

6. Date of approval of Mining Plan 07-DEC-03 Plan/Scheme of Mining Mining Scheme rule 12 MCDR1988 24-FEB-05 Modif.approved Mining Scheme 07-MAR-08 Mining Scheme rule 12 MCDR1988 04-AUG-10 MP modif under MCR 1960 24-AUG-15

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration was proposed in the year present five year block period 2020-21 to 2024-25.	None in the present block period 2020-21 to 2024-25.	Entire mineralized area is alredy explore under G-1 level by drilling 73 boreholes from 1997-98 to 2018-19.
1b	Exploration over lease area for geological axis 1 or 2	No exploration was proposed in the year present five year block period 2020-21 to 2024-25.	None.	Entire mineralized area is alredy explore under G-1 level by drilling 73 boreholes from 1997-98 to 2018-19.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No exploration was proposed in the year present five year block period 2020-21 to 2024-25.	None.	Earlier, the exploration was carried out by Natural Resources Development Co operative Society Ltd, Hyderabad under the Suprvision of Mining Engineer and Geologist of the lessee. The expenditure incurred on the exploration carried out during period 2015-16 to 2018-19 is Rs-21,63,506.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No exploration was proposed in the year present five year block period 2020- 21 to 2024- 25.	None.	Entire mineralized area is alredy explore under G-1 level by drilling 73 boreholes from 1997-98 to 2018-19.

le Balance reserve as on 01/04/20

As per the approved document dated 20.10.2019, Reserves/reso urces as on 01.09.2019 are as follows. (Unit-Million tonnes) Mineable Reserves : 90.85 Remaining Resources : 29.66

Total:-

Reserves/Resources as on "01.04.2023 is as R follows. (Unit in million tonnes)
Mineable Reserves :- de 82.88

Remaining Resources:29.66

Total 112.54

Reserves/resources are updated by depelting 7.97 million tonnes of production carried out during the period. 2019-20 (01.09.2019

onwards) 2022-23."

120.51

1f General remarks of inspecting officers on geology, exploration etc

The mining lease area hosts limestone of the stratigraphic horizon "kurkunta Limestone" of Bhima Basin. The deposit is bedded in nature with strike NE to SW. Lessee has explored entire mineralized area under G-1, level by drilling 73 number of boreholes with a total meterage of 3395.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2023-24, proposal was	Actual working has been carried out between the co-ordinates N 191780 to 1918200 and E 762530 to 763320	The workinh has been carried out within the proposed area only.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Benches were proposed in ore only.	Benches are existing in ore only.	No topsoil was removed in the year 2023-24, However, earlier topsoil was removed by scraping, so no benches were formed in topsoil.
2c	Stripping ratio or ore to OB ratio	1:0	1:0	No OB/waste was proposed and generated in the year 2023-24.
2d	Quantity of topsoil generation in m3	12484 in the year 2023-24.	None, No topsoil was removed in the year 2023-24.	Working was carried out in the already broken up area only, so no topsoil was removed in the year 2023-24.
2e	Quantity of overburden generation in m3	None.	None.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		The deposit it bedded regular deposit and formation is hard in nature. So benche height was maintained at 7.00 to8.00 mtr (Average) which is suitable to the method of mining adopted and nature of the deposit.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One.	One.	Dimension of the pit is 765m (L) x 635m (W) x 45m(d)
3b	Quantity of ROM mineral production proposed		1392682 tonnes in the year 2023-24 (up to Dec 2023)	Up to dec-23 production achieved was 46%.
3с	Recovery of sailable/usable mineral from ROM production	100%	100%	

3d	Quantity of mineral reject generation	None in the year 2023-24.	None.	Recovery is 100% and entire ROM Removed was dispatched to captive cement plant linked to the mine.
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable.	Not applicable.	
3f	Quantity of sub grade mineral generation.	None in the year 2023-24.	None.	Recovery is 100% and entire ROM Removed was dispatched to captive cement plant linked to the mine.
3g	Grade of sub grade mineral generation	Not applicable.	Not applicable.	
3h	Manual / Mechanised method adopted for segregating from ROM	None.	None.	Lessee is sending entire ROM to plant without doing any processing at the mine site. Lessee is doing crushing and screening for sizing in the plant premises which is outside the lease area.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None.	None.	
3j	Provision of drilling and blasting in mineral benches	Yes, proposed drilling and blasting.	Lessee is using 115mm rock driller for drilling and using slurry explosive for blasting.	Lessee is doing drilling and blasting as per the proposal.
3k	Provision of mining machineries in mineral benches	excavators and tippers for	Using Back hoe excavator of 2.4Cum capacity and tippers of 15 cum capacity for production and development.	Additionally lesse is using dozar of 176HP capacity for cleaning of bench floor and repair of haul road.

31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM		Benches were maintained at 7.00 to 8.00 mtrs height (average) and width is maintained at more than 15 mtrs.	Bench parametrs were maintained as per the proposal and suitable for the method of mining adopted.
3m	Total area covered under excavation/pits	53.17 Ha in the present plan period i.e up to 2024-25.	48.60Ha up to 2023-24.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0	No OB/waste was proposed and generated in the year 2023-24.
30	Total area put in use under different heads at the end of year	Area under mining-53.17Ha, Topsoil storage - 0.24Ha, Mineral storage - 0.35Ha, Roads - 2.13Ha.	Area under mining:- 48.60Ha, Roads-2.13Ha, Topsoil storage:-0.24Ha.	
3p	Production of ROM mineral during the last five year period as applicable	2023-24 - 2998372T 2022-23 - 2995645T 2021-22 - 2990920T 2020-21 - 2987045T 2019-20 -	2023-24 - 1392682T (up to dec 23) 2022-23 - 2072500T 2021-22 - 2323172T 2020-21 - 1570000T	In the present five years block period production achieved up to Dec 2023 is almost 67%.
		2019-20 - 2278509T	2019-20 - 2251000Т	

3q General remarks
 of inspecting
 officers on
 method of mining
 etc.

The mine is working by fully mechanized method. drilling and blasting is adopted for loosening the strata. Production and development has been carried out as per the proposals and benches were maintatined systematically. Bench height is maintained 7 to 8 mtrs and width morethan 15. mtrs.Lessee is using excavator for loading the blasted material and 15 cum capacity tippers for dispatching ROM from mine to plant. No OB is existing in the lease area and all benches were made in ore only.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	None in the year 2023-24.	None.	One old topsoil dump covering an area of 0.24Ha is existing in the Western part of the lease area near pillar number-20,21 and 22. The said dump is covered with plantation.
4b	Location of topsoil, OB and mineral reject dumps	None in the year 2023-24.	None.	One old topsoil dump covering an area of 0.24Ha is existing in the Western part of the lease area.
4c	Number of dumps within lease area and outside of lease area	None in the year 2023-24.	None.	One old topsoil dump covering an area of 0.24Ha is existing in the Western part of the lease area.

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	None in the year 2023-24.	None.	One old topsoil dump is existing outside the UPL.
4e	Number of active and alive dumps.		None.	None.
4f	Number of dead dumps.	None in the year 2023-24.	None.	One old topsoil dump covering an area of 0.24Ha is existing in the Western part of the lease area.
4g	Number of dumps established.	None in the year 2023-24.	None.	One old topsoil dump covering an area of 0.24Ha is existing in the Western part of the lease area near pillar number-20,21 and 22. The said dump is covered with plantation.
4h	Whether Retaining wall or garland drain all along dumps are there.	None in the year 2023-24.	None.	
4i	Length of Retaining wall or garland drain all along dumps	Not applicable.	Not applicable.	
4j	Number of settling ponds	None in the year 2023-24.	None.	
4k	Specific comments of inspecting officer on waste dump management		"No dumping was proposed and made in the present plan period. One inactive old topsoil dump is existing within the lease area and it is covered with plantation. Since no OB dumps are existing within the lease area, retaining walls are not proposed and made in the present plan period."	

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 backfilling is made in the present plan period.	Mineral is not extracted up to the proved depth, so, no backfilling was proposed and made in the present plan period.
5b	Area under backfilling of mined out area	None.	None.	No area is matured for backfilling.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	None.	None.	"The topsoil removed in the past is utilized for plantation work within the lease area."
5d	Total area fully reclaimed and rehabilitated	None.	None.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Mineral is not extracted upto the proved depth and no area is matured for backfilling, so no backfilling was proposed and made in the present plan period.	

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).	Before 1st july of every year.	Yes, submitted PMCP report for the year 2022-23 along with the annual returns submitted for the year 2022-23.	Submitted report on 29.06.2023.
6b	Area available for rehabilitation (ha) .	None.	None.	
6c	afforestation done (ha).	0.2Ha in the year 2023-24	0.34Ha in the year 2023- 24	Total area covered under plantation is 9.86Ha.
6d	No. of saplings planted during the year		750 in the year 2023-24	Plantation was made morethan the proposal.

бе	Cumulative no .of plants	2000in the present five year block period up to 2023-24	6100 in the present five year block period up to 2023-24.	Total plantation made so far is 42790
6f	Any other method of	None.	None.	
	rehabilitation			
6g	Cost incurred on watch and care during the year	None.	Approximately 1.5lakh	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	None.	None.	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None.	None.	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	None.	None.	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	None.	None.	
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	None.	None.	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	None.	None.	

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	None.	None.	
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	None.	None.	
6р	Compliance of environmental monitoring (core zone and buffer zone)	Yes, Air, Water and Noise monitoring was proposed in Core and Buffer zone.	Lessee is regularly monitoring air , water and noise and all the parameters are within permissible limits.	Lawn enviro associates, Hyderabad is doing the Environmental monitoring.
бq	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Under PMCP proposals were given only for plantation in the safety zone, accordingly lessee has planted 750 saplings in the 7.5 mtr saftey zone and total plantation made in the present five year block period is 6100 saplings. Lessee has carried out monitoring report for the said mine and reports are within permissible limits.	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposed dispatch of Cement grade ROM to Captive Cement Plant.	Lessee is dispatching Cement grade ROM to Captive plant as proposed.	Lessee is not doing any processing at mine site.
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	None.	None.	Sending ROM to Captive Cement plant with out any processing.

7c	Different grade of mineral sorted out at mines.	Cement.	Cement.	
7d	Any beneficiation process at mines .	None.	None.	Lessee is dispatching Entire ROM to Captive Cement plant with out any processing.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Lessee is not doing any mineral processing at the mine site. Dispatching ROM (Cement grade) to Captive Cement plant linked with the mine.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	removal of	None.	Working was carried out in the already broken up area only, so no topsoil was removed in the year 2023-24.
8b	Concurrent use or storage of topsoil	Proposed removal of 12484 CUM topsoil in the year 2023-24.	None.	"The topsoil removed in the past is utilized for plantation work within the lease area."
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	None.	None.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed.	None.	

9a Status of submission of Monthly and Annual returns

A monthly be submitted before the tenth day of every month in respect of the preceding month and an annual return shall be submitted before the 1st day of July each year for the preceding financial year.

Lessee is Regularly return shall submitting Monthly and Annual returns.

Submitted Annual returns for the year 2022-23 and monthly returns up to dec 2023 within time. Annual returns submitted on 29.06.2023.

9b Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager

Mining Engineer and Geologist as mentioned in the AR the year 2022- Engineer. 23 is as follows. Ming Engineer :-A.Shivakumar, Reddy, Geologist:-Janardhan Reddy and Mines Manager:-Chaitanya Nalamatta.

The details of The information furnished on Mines Manager and Geologist is correct. However, in place of A.Shivakumar, TV Satyaprasad is submitted for appointed as Mining

Lessee has sent notice of appointments for mining engineer , Geologist & Mines Managers to this office.

9c Scrutiny of Annual return on mining land use pattern 48.207Ha for area under pits, reclaimed

Area under Topsoil storage area, dumps etc. 0.24Ha, Roads 2.13Ha. (AR 2022-23)

The information furnished on land use pattern is found correct.

9d Scrutiny of afforestation

rate of 70%

3540 saplings The information Annual return on with survival furnished in the AR submitted for the year 2022-23 is found correct.

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	None.	None.	Recovery is 100% and no mineral reject was reported in the year 2022-23.
9f	Scrutiny of Annual return on ROM stock and/or graded ore		The details furnished in the annual returns is found correct.	Entire ROM produced is Cement grade and same is dispatched to the captive cement plant for own consumption.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	T	The details furnished in the annual returns is found correct.	During 2022-23 there was no instruction from IBM for giving sale value eventhough mineral is utilized for cative purpose so sale value is mentioned as zero in the AR submitted for the year 2022-23.
9h	Scrutiny of Annual return on fixed assets		The information furnished in the AR 2022-23 is found correct.	
9k	Scrutiny of Annual return on mining machineries	Backhoe- 2.4Cum-02, Tippers of 15CUM-09, Drilling machine 115mm- 01, Dozer-01.	The information furnished in the AR 2022-23 is found correct.	

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Details of violations observed during current inspection and compliance position of violation pointed out				
Violat	cion observed	Show couse position		
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on	

Date : (Kalmata.M.K)

Indian Bureau of Mines