INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR inspection REPORT

Hyderabad regional office

Mi	ine f	file No : AP/RR/LST-3/	HY	Mine code : 38APR23002
(i	i)	Name of the Inspecting Officer and ID No.	:	160) kalmata.M.K
(j	ii)	Designation	:	Regional Mining Geologist
(1	iii)	Accompaning mine Official with Designation	:	Shri Chaitanya Nalamatta, Mines Manager.
((iv)	Date of Inspection	:	28-SEP-22
((v)	Prev.inspection date	:	17-SEP-21
		PA	RT-	I : GENERAL INFORMATION
(3	a)	Mine Name	:	SANGAMKALAN NO. 1
(b)	Registration NO.	:	613/2011
(c)	Category	:	A Mechanised
()	d) e)	Type of Working Postal address	:	Opencast
,	.,	State District	:	
		Village	:	
		Taluka Post office		MALKAPUR
		Pin Code	-	501157
		FAX No.	:	
		E-mail Phone	:	mkp_mines@indiacements.co.
	(f)	Police Station		TANDUR
	(g)	First opening date		: 15-OCT-98
	(h)	Weekly day of rest		: SUN
		ess for espondance		M/S INDIA CEMENTS LIMITED 93, KARPAGAM AVENUE CHENNAI, TAMIL NADU
	(a)	Lease Number		: APR1350
•	(a) (b)	Lease area		: 112.68
	(C)	Period of lease		: 50
	(d)	Date of Expiry		: 03-SEP-48
	Mine	eral worked		: LIMESTONE Main

5.	Name	and Address of			
		Lessee	:	THE INDIA CEMENTS LTD	
				DHUN BUILDING 827, ANNA SALAI CHENNAI CHENNAI CITY TAMIL NADU Phone:282521526	
				FAX :28520638	
		Owner	:	Mrs laxmi Aparna Srikumar	
				Coromandal tower, 93, Santhome High Avenue, raja Annamalaipuram, Chennai CHENNAI CITY TAMIL NADU Phone:	
				FAX :	
		Agent	:	S. Dakshinamoorthy	
				The India Cements Ltd, Malkapur Tandur(Mandal), Vikarabad dist Telangana- 501158 MAHBUBNAGAR TELANGANA	
				Phone: 7095597888	
				FAX :	
		Mining Engineer	5		
		Name	:	T MURALIDHAR, Full Time	
		Qualification	:	BTECH MINING	
		Appointment/ Termination dat	: .e		
		Geologist			
			:	B.Prithvi Raj,Full Time	
		Qualification		Msc, Geology.	
		Appointment/ Termination dat	:	13-DEC-21	
6.	Date Plan/	of approval of M Scheme of Mining	inir	ig : Fresh under rule 22 MCR1960 Fresh under rule 22 MCR1960 Modif.approved Mining Scheme Mining Scheme rule 12 MCDR1988 Mining Scheme rule 12 MCDR1988 MP modif under 17(3) MCR 2016	23-SEP-98 24-AUG-00 07-DEC-03 07-MAR-08 12-FEB-14 02-FEB-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	No exploration is proposed in the present plan period.	Nil.	Entire mineralized area is explored under G-1 level.
1b	Exploration over lease area for geological axis 1 or 2	None.	None.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None.	None.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	None.	None.	Entire Mineralized area is explored under G-1 level.
1e	Balance reserve as on 01/04/20	Reserves/reso urces as per approved document dated 02.02.2018 Mineable Reserves - 27.49 MT Remaining Resources - 38.59MT Total:-	Reserves/resources as on 01.04.2022 Mineable Reserves - 26.82 MT Remaining Resources - 38.59MT Total - 65.41 T	were updated by depleting about 0.66 MT of ROM produced in the present plan period up to 31.03.2022.
		66.08MT		
lf	General remarks of inspecting officers on geology, exploration etc		The deposit belongs to Kurkunta limestone of Bhima series. The kurkunta limestone mines consists of limestone of varying types and average thickness of limestone within the lease area is about 45 to 50 mtrs. The entire mineralized area is explored under G-1 level by drilling 53 exploratory boreholes.	

Development :

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Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In the year 2021-221, Production and development was proposed between the co-ordinates S 990 to S 1312 and W 1190 to W 1285, S 910 to S925 and W 770 to W 1170 and S 560 to S 900 and W 1370 to W 1450.	Working has been carried out between the co- ordinates S 750 to 1300 and W 1200 to 1380.	Working has been carried out within the proposed co- ordinates.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Benches were proposed in the mineral only.	Benches were formed in mineral only.	No OB handling is proposed in the present plan period. and topsoil is completely removed by scraping and no benches were formed.
2c	Stripping ratio or ore to OB ratio	Nil	Nil	No OB generation is proposed in the present plan period.
2d	Quantity of topsoil generation in m3	11,200, in the year 2021-22.	9166 cum	
2e	Quantity of overburden generation in m3	Nil	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		The working has been carried out within the proposed area. Benches were systematically formed in the mineral and topsoil was completely removed by scraping without formationof benches. Bench height is maintained	

Sl.No. Item Propasals Actual work Remarks

3a Number of pit One. proposed for production One.

3b Quantity of ROM 81,275 Tonnes. mineral 1,00,00,000 production Tonnes in the proposed year 2021-22.

- 3c Recovery of 100% 100% sailable/usable mineral from ROM production
- 3d Quantity of Nil.
 mineral reject
 generation
- 3e Grade of mineral Not Not applicable. rejects applicable. generation and threshold value declared.
- 3f Quantity of sub None. Nil. grade mineral generation.

None.

- 3g Grade of sub Not grade mineral applicable. generation
- 3h Manual / Mechanised method adopted for segregating from ROM

None.

Not applicable.

Nil.

Lessee is dispatching entire ROM to plant connected with this mine for captive consumption.

Additionally few quarry pits pits were observed in the Northern side of the lease area, near lease boundary. Pits are existing within the lease and some are extended beyond lease boundary. an enqurining about the pits lessee has informated that the pits were made by some other for slabs. In this regard, letter is written State Government for action.

Due to lack of demand for cement , plant was under shutdown so production is decreased.

some others. It appears working has been extended beyond the lease bounadry and same is communicated to . . .

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.	The drilling is being carried out by wagon drill of 115mm dia and blasting by slurry explosives and ANFO.	Drilling and blasting is being carriedout as per the proposal.
3k	Provision of mining machineries in mineral benches	Excavators and dumpers for	Lessee has deployed Excavator of 1.00cum capacity and tippers of 15.00cum capacity for production and development.	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed benches of 8.00 mtrs height in mineral.	Bench heigt was maintained at 6.00 to 8.00 mtrs.	Strata is hard and the bench height proposed and maintatined is suitable for method of minining adopted.
3m	Total area covered under excavation/pits	40.87 Ha in the present plan period. up to 31.03.20203.	36.00 Ha	Additionally in the northern side of the lease area near lease boundary 1.22 Ha of area is coverd by slab quarries, Lessee has mentioned that slab quarries are old workings carried out by

DMG, Telangana, for further necessary action. 3n Ore to OB ratio None. None. for the pit/mine during the year. Total area put Area under mining-30 Area under Additionally about 36.00Ha, Topsoil-3.05Ha, Roads-0.4Ha. 1.2Ha is covered in use under mining:different heads 40.87Ha, by old quarry slab at the end of Storage of working. topsoilyear 4.34ha, Roads-0.4Ha.

3р	Production of ROM mineral during the last five year period as applicable	2022-23 10,000,00 2021-22 10,000,00 2020-21 10,000,00 2019-20 10,000,00 2018-19 10,000,00	T T T	2022-23 2021-22 81,275 T 2020-21 1,05,000T 2019-20 4,77,995T 2018-19 6,31,414T
3q	General remarks of inspecting officers on method of mining etc.			The mine is opertaing by fully mecahnised opencast method. The benches are maintained systematically. Lessee is doing drilling and blasting for loosening the strata. Lessee has formed only one pit. Earlier, in southern side woking has been carried out beyond the lease boundary and same was shown in the Lease sketch authenticated by Asst.Director of Mines of Geology so no action has been initiated by this office.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes proposed storage of topsoil.	The soil removed during the plan period is utilized for plantation within the lease area.	No dump formation was proposed for OB and Mineral rejects.
4b	Location of topsoil, OB and mineral reject dumps	Topsoil dump was proposed in northern part of the lease area near Bondary pillars- 36,37 and 38.	No topsoil dumps were formed during the present plan period. The entire topsoil generated was utilized for plantation.	On old reclaimed inactive topsoil dump is existing North-Eastern part of the lease near BP Nos- 41 and 42.

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4c

within lease area and outside of lease area

Number of dumps One. One old topsoil dump is existing within the lease area.

Few scattered waste dumps were observed in the northern side of the lease boundary and it appears some dumps are extended beyond the lease boundary. During inspection lessee has mentioned that , the dumps are old dumps made by someothers during slab quarry working. Letter is written to State Goverment for examination of the same.

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL	Outside the UPL
4e	Number of active and alive dumps.	One	Nil
4f	Number of dead dumps.	None.	One

One inactive topsoil dump is existing within the lease area. Further some inactivedumps were observed in the northern side of the lease which were made by som other party during slab quarry mining and same is communicated to State DMG for verification.

One topsoil dump is stabilized by plantations.

4g	Number of dumps established.	None.	One.
4h	Whether Retaining wall or garland drain all along dumps are there.	None.	None.
4i	Length of Retaining wall or garland drain all along dumps	None.	None.
4j	Number of settling ponds	None.	None.

4k

Specific comments of inspecting officer on waste dump management No dumping was proposed and made i the present plan period. One old topsoil dump which is existing in the eastern part of the lease area is stabilized by plantations. Some scattered dumps were observed in the southern part of the lease area which were made by someother person during slab quaary working and same was communicated to State Government for verification.

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.	None.	None.	No area is matured for backfilling.
5b	Area under backfilling of mined out area		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.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	None.	None.	
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.	Lessee has submitted PMCP report for the year 2021-22.	Submitted PMCP report for the year 2021-22, within the prescribed time.
6b	Area available for rehabilitation (ha) .	None.	Nil in the year 2021-22.	About 3.5Ha old topsoil dump is reclaimed by plantation.
6c	afforestation done (ha).	0.45Ha in the year 2021-22.	0.70Ha in the year 2021- 22.	
6d	No. of saplings planted during the year	500 in the year 2021-22.	1550 saplings within the lease area.	
6e	Cumulative no .of plants	2500 in the present plan period up to 2022-23.	3500 sapling are planted in the present plan period up to 2021-22.	
6f	Any other method of rehabilitation	None.	Nil.	
6g	Cost incurred on watch and care during the year	None.	Approximately 25 to 30 thousand for taking care of plantation.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	None.	Nil.	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None.	Nil.	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	None.	Nil.	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	None.	Nil.	

61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	None.	Nil.	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	None.	Nil.	
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.	
бр	Compliance of environmental monitoring (core zone and buffer zone)	-	Lessee is regularly monitoring, Air, water, noise in the core and buffer zone and results were within permissible limit.	Environmental monitoring was carried out in the month of july 2022 submitted copy of report to this office.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		About 3.05Ha old topsoil dump is reclaimed by plantation. Lessee has planted about 3500 saplings in the present plan period. The plantation was made more than the proposal. Lessee is regularly monitoring air, water and noise and all the parameters were found within the permisible limits.	

Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks	

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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposed Cement grade dispatch.	Entire ROM produced is dispatched to plant as cement grade for captive consumption.	Lessee is dispatching cement grade ore by blending lowgrade with high grade as per the requirement of the plant.
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Not proposed.	Nil.	Entire ROM is dispatched as cement grade by blending.
7c	Different grade of mineral sorted out at mines.	Cement Grade.	Cement Grade.	
7d	Any beneficiation process at mines	None.	Nil.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Lessee is using entire ROM by blending lowgrade with the high grade as per the requirement of the plant. Lessee is not doing any beneficiation within the lease area. However, doing only size reduction by crushing plant outside the lease area before feeding to cement plant.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes proposed.	Topsoil is removed separately.	About 18,280 cum of topsoil is removed against the proposal of 84700 cum in the present plan period.
8b	Concurrent use or storage of topsoil	Proposed storage.	Utilized for plantation.	About 18,280 Cum topsoil was removed and entire quantity 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.	Nil.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed.	Nil.	About 3.05Ha of old topsoil dump is reclaimed by planatation during the previous plan period.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		Yes, information was given in the approved mining plan. Additionally lessee has planted about 3500 saplings . within the lease area during present plan period.	
8g	Survival rate	70%	65 to 70%	Lessee is monitoring the plantation by regular maintence and watering by deploying man power.
8h	Water sprinkling on roads to control airborne dust		Regularly sprying water on the working benches, haul road etc.	One water tanker of 10,000 ltr capacity is in use for dust supression.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Benches and haulage roads were maintained systematically. One water tanker is deployed for sprinking water in the working area and on the haulage roads. Plantation was made in the 7 .5 mtr safety zone and engaged manpower for monitoring plantation.	

Compliance of Rule 45:

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Sl.No.	Item	Propasals	Actual work	Remarks	
9a	Status of submission of Monthly and Annual returns	A monthly returns shall be submitted before 10 th day of every month in respect of preceding month and an annual returns shall be submitted before 1st day of july of each year for the preceding financial year.	Lessee has submitted Annual returns for the year 2021-22 within the time limit and submitted monthly returns up to Aug 2022. However, submission of monthy returns for the month of oct, Dec-2021 and January and february 2022 were delayed by one day.	Violation is pointed out by this office for the same under Rule 45 (5) (b) (i) of MCDR 2017. So no fresh violation is issued. Lessee is regularly submiiting monthly and annual returns.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer:- Shri T. Muralidhar, Geologist:- Shri B. Prithivi Raj, Manager:- Shri Chaitanya Nalamatta.	The details of Mining engineer, Geologist given in the annual returns are correct.	Lessee has submitted notice of appointment to this ofice.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	34.040Ha, Exploited and anandoned by	The information given in the AR is found correct.	Lessee has shown old non working quarry pits as abandoned pits.	
9d	Scrutiny of Annual return on afforestation	with surviaval	The information furnished in the annual returns submitted for the year 2021-22 on aforestation is found correct.		
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	None.	No mineral reject was generated in the year 2021-22 and information furnished is correct.		

9f	Scrutiny of Annual return on ROM stock and/or graded ore	The details furnished in the AR submitted for the year 2021-22 is found correct.	Entire ROM has been sorted out under Cement grade and dispatched to cement plant linked to the mine for captive use.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	for the year	Since it is the captive mine and lessee is consuming entire ROM for captive consumption. Cost of production and exmine price will be same. Since materail was dispatched for cpative use sale value is shown as zero.
9h	Scrutiny of Annual return on fixed assets	The details given in the returns is found correct.	
9k	Scrutiny of Annual return on mining machineries	The details furnished in the AR is found correct.	

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Details of violation po			during current i	inspection	and compliance	e position of
	Violation	observed		Sh	now couse posit.	ion
Rule NO.		Issued on	Compliance on	Rule N	0. Issued	on Compliance on

Date :

(kalmata.M.K)

Indian Bureau of Mines