MCDR INSPECTION REPORT

File No. AP/NLG/LST-1/Hyd. Vol. IV

1	Name of the Inspecting Officer	Shaival Kartikeya
2	Designation	Senior Mining Geologist
3	Accompaning mine Official with Designation	Shri V. Rami Reddy, HoD (Mines)
4	Date of inspection	30-September-2024
5	Previous inspection date	29-February-2024

Mine Code: 38APR14011

Part -I General Information

High Road,
High Road,
e extended
22 Years)
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High Road,
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21	Name of the Mine Agent with Address,	Shri Mahesh Kumar Vasat Rao Mutyalwar, Sr.
21	phone, email, fax number and date of	G.M.
	appointment	M/s The India Cements Limited,
	арропшнеш	Vishnupuram Works, Wadapally Post,
		Damarcherla Mandal, Nalgonda District,
		Telangana State, Pin Code: 508355
		Phone: +91 (0) 08689-228580
		Email: Mahesh.v@indiacements.co.in
		DOA: 22/04/2024
22	Name of the Mines Manager with	Shri A. Shiva Kumar,
22	Address, phone, email, fax number	M/s The India Cements Limited,
	and date of appointment in mines	Vishnupuram Works, Wadapally Post,
	and date of appointment in mines	Damarcherla Mandal, Nalgonda District,
		Telangana State, Pin Code: 508355
		Phone: +91 (0) 08689-228580
		Email: Sivakumar.a@indiacements.co.in
		DOA: 10/10/2023
23	Name of the Mining Engineer,	Shri A. Shiva Kumar,
23	Qualification and total experience with	M/s The India Cements Limited,
	Address, phone, email, fax number and	Vishnupuram Works, Wadapally Post,
	date of appointment in mine	Damarcherla Mandal, Nalgonda District,
	date of appointment in mine	Telangana State, Pin Code: 508355
		Phone: +91 (0) 08689-228580
		Email: sivakumar.a@indiacements.co.in
		DOA: 10/10/2023
		Qualification: B.E. Mining
		Exp.: +10 Years
24	Whether Geologist and Mining Engineer	Yes, Appointed.
	appointed in mines satisfy the rule 42 &	Shri V. Ananda Kumar
	carrying out their duties as per rule 43 &	M/s The India Cements Limited,
	44.	Vishnupuram Works, Wadapally Post,
		Damarcherla Mandal, Nalgonda District,
		Telangana State, Pin Code: 508355
		Phone: +91 (0) 08689-228580
		Email: anankumar.v@indiacements.co.in
		DOA: 01/04/2024
		Exp.: +8 Years
25	Date of Approval of Mining	Mining Plan AP/NLG/Lst./MP-MS-9-SZ dated
	Plan/Modified Mining Plan with five-	26/06/1998
	year period and specific condition in	(F.Y. 1999-2000 to F.Y. 2003-04)
	approval letter, if any.	
26	Date of Approval of Scheme of	Review of Mining Plan
	Mining/Modified Scheme of Mining	AP/NLG/MP/LST-9/HYD. Dated 31/03/2020
	with five-year period and specific	(F.Y. 2020-21 to 2024-25)
	condition in approval letter, if any.	
27	Mineral(s) granted in lease and proved	Limestone
20	for mining	
28	Method of Mining(Opencast,	Opencast
20	Underground)	Eully Machanicad
29	Category (Fully Mechanised, Others or	Fully Mechanised.
30	Manual) Captive/ Non captive	Captive
30	Captive/ Noti captive	Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

1.0 Exploration

S.N.	Item	Proposals F.Y. 2022-23	Actual work F.Y. 2022-23	Remarks
1a	Backlog of previous year	No proposal	Nil.	The entire mining lease area has already been explored under G1 level of exploration.
1b	Exploration over lease area for Geological axis 1 or 2.	No proposal	Nil.	G1 level: 316.47 Ha.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No proposal	Nil.	-do-
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Nil.	-do-
le le	Balance reserves as on 01.04.2024	As on 01/10/2024 Under (111): 25.749402 Million Tonnes Under (211): 90.770447 Million Tonnes	As on 01/10/2024 Under (111): 25.749402 Million Tonnes Under (211): 90.770447 Million Tonnes	Updated reserves and resources has been obtained from the latest approved RMP dated 28/10/2024. Average grade: Cao - 46.00%, MgO: 0.09% SiO2: 14.34% Fe2O3: 1.90% AI2O3: 3.53%
1f	General remarks of inspecting officer on geology, exploration etc.	This area located in the North - Eastern margins of		

Kurnool system of rocks are the younger group of rocks in the Kadappa basin. These younger rocks are developed in Palnad area stretching on both side of the Krishna river, called as Palnads, resting unconformably on the Kadappa basin. The stratigraphic sequence of the palnadu is as follows: Recent : Soil & Alluvim Kurnool System : Upper Kurnools: Quartizes (as those of Paniam Group) Shales (Auk Shales)(as those of Jammalmadugu Group) Lower Kurnools: Sandstones and Congolomates (as those of Banaganapalli group) Kadapa-Kistna Series: Quartzites & Shales Archeans: Granite & Gneiss with dykes of dolerite & Quartz Veins. The Archean formation forms the basement for the basin over which the arenaceous. argillaceous and calcareous sediments deposited. This can be observed all along the fringes of the basin Regional Geological setup including stratigraphic succession. The captive Vishnupuram Limestone Mining lease sprawling over an extent of 316.47 ha with an undulating topography, gently dipping towards E-SE in the direction where river Musi flows in a gorge. The shape of the lease is Polygonal. The limestone deposit is a Simple, Tabular, undisturbed stratigraphic horizon of the Palnad sub basin (Nargi Formation). No major structural disturbance in the sedimentary unit are observable. The deposit is type-1 bedded stratiform and tabular deposits of regular habit as per MEMC Rules 2015. A typical section of the stratigraphic core bore holes exhibits the following sequence of Lithological succession: Top Soil: 00.00-01.00 Variegated Siliceous Limestone: 00.00-10.00 Grey Limestone: 00.00-09.00 Green Limestone: 03.00-05.00 Purple Argillaceous Limestone: 03.00-04.00 Shale: Bottom Rock The lease hold is undisturbed and devoid of structural elements. Digenesis of these litho-units was apparently controlled by palaeo lineaments which the river Krishna flows in a gorge of avg.depth of 20m. The river probably follows small & multiple dip-slip fault axis.

2.0 Development

S.N.	ltem	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
2a	Location of development w.r.t. lease area			
		Block A: (a) N1846850 to N1847042 and	Block D: N1847618 to N1848234 and	

		E356610 to E356735 and (b) N1847490 to	E355545 to E356100 at several places.	
		N1847678 and E356457 to E356518		
		Block D: (a) N1847625 to N1848050 and E355575 to E356108 and		
		(b) N1848125 to N1848258 and E355150 to E355335		
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Topsoil: 01 no. Mineral/Ore: 03 nos.	Topsoil: 01 no. Mineral/Ore: 03 nos.	-
2c	Stripping ratio or ore to OB ratio	1:0.0	1:0.0	No overburden present in the mining lease.
2d	Quantity of topsoil generation in m3	23239.00 CuM	11341.00 CuM	-
2e	Quantity of overburden generation in m3	No proposal.	Nil.	No overburden present in the mining lease.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development through fully mecha		being done

3.0 Exploitation

S.N.	ltem	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
3a	Number of pits proposed for production	02 no.	01 no.	Deviation has been pointed out.
3b	Quantity of ROM mineral production proposed	13,99,842.00 Tonnes.	2,02,425.00 Tonnes	Less production has been done.
3с	Recovery of salable/usable mineral from ROM production	100%	100%	-
3d	Quantity of mineral reject generation	No proposal.	Nil.	-

3e	Grade of mineral reject generation and threshold value declared	No proposal.	Nil.	-
3f	Quantity of sub-grade mineral generation	No proposal.	Nil.	~
3g	Grade of sub-grade mineral generation	No proposal.	Nil.	-
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal.	Nil.	The entire produced limestone is being dispatched to the crusher, erected outside lease area.
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal.	Nil.	-
3j	Provision of drilling & blasting in mineral benches	Diameter: 115.0 mm Spacing: 5.50 m Burden: 3.50 m Depth: 8.0 m Explosive: AFNO	Diameter: 115.0 mm Spacing: 5.50 m Burden: 3.50 m Depth: 8.0 m Explosive: AFNO	
3k	Provision of mining machineries in mineral benches	1. Excavator 01 no. with 1.02 CuM bucket capacity. 2. Excavator 01 no. with 2.09 CuM bucket capacity. 3. Tippers 8 nos. with 13.0 CuM carrying capacity. 4. Water Tanker 01 no. with 10000 Liters capacity. 5. Jeep/Tractor 01 no. with 40 HP capacity. 6. Air Compressor 01 no. with 12.60 CuM/MN capacity. 7. Blast Drilling Machine 01 no. with 115.0 mm bit size.	1. Back Hoe 01 no. 1.02 CuM bucket capacity. 2. Tippers 4 nos. with 13.0 CuM carrying capacity. 3. Water Tanker 01 no. with 10000 Liters capacity. 4. Air Compressor 01 no. with 12.74 CuM/MN capacity. 5. Blast Drilling Machine 01 no. with 115.0 mm bit size. 6. Jeep/Tractor 02 nos. with 111 HP capacity.	-
31	Whether height of benches in overburden	Topsoil: 0.50 m to 1.0 m	Topsoil: 0.50 m to 1.0 m	-

	and mineral suitable for method of mining proposed in MP/SOM	Mineral/Ore: 8.0 m.	Mineral/Ore: 8.0 m.	
3m	Total area covered under excavation/pits	97.01 Ha. Up to end of F.Y. 2024- 25	78.52 Ha. Up to end of F.Y. 2023-24	-
3n	Ore to OB ratio for the pit/mine during the year	1:0.0	1:0.0	No overburden present in the mining lease.
30	Total area put in use under different heads at the end of year	Pit- 97.1 Ha. OB/Waste- Nil. Others- 59.35 Ha. Up to end of F.Y. 2024-25	Pit- 78.52 Ha. OB/Waste- Nil. Others- 73.06 Ha. Up to end of F.Y. 2023-24	Deviation has been pointed out. Revised land use details have been given in the latest approved RMP dated 28/10/2024.
3p	Production of ROM mineral during last five-year period, as applicable	Yr. 2019-20: 13,99,716.00 Tonnes Yr. 2020-21: 13,99,836.00 Tonnes Yr. 2021-22: 13,99,870.00 Tonnes Yr. 2022-23: 13,99,582.00 Tonnes Yr. 2023-24: 13,99,842.00 Tonnes	Yr. 2019-20: 8,13,225.000 Tonnes Yr. 2020-21: 7,10,252.000 Tonnes Yr. 2021-22: 5,84,271.000 Tonnes Yr. 2022-23: 7,84,701.000 Tonnes Yr. 2023-24: 2,02,425.000 Tonnes	-
3q	General remarks of inspecting officer on method of mining etc.	Mining has been ca	rried out through ly mechanized	the opencast means using

4.0 Solid Waste Management-Dumping

Actual work Remarks F.Y. 2023-24
Generated - copsoil has been utilized for the ourpose of olantation.
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		N1847222 and E3555552 to E355867.		
4b	Location of topsoil, OB & mineral reject dumps	Topsoil Stacking: In between UTM coordinates N1847070 to N1847222 and E355552 to E355867.	Topsoil Stacked: In between UTM coordinates N1847070 to N1847222 and E355552 to E355867.	-
4c	Number of dumps within lease area and outside lease area	No proposal.	Nil.	Old dumps/stocks Topsoil – 01 no. OB/Waste – Nil. Mineral/Ore- Nil.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal.	01 no. of topsoil stock present within UPL.	-
4e	Number of active & alive dumps	No proposal.	Nil.	~
4f	Number of dead dumps	No proposal.	Nil.	-
4g	Number of dumps stabilized	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 dump	No proposal.	Nil.	-
4j	Number of settling ponds	No proposal.	Nil.	~
4k	Specific comments of inspecting officer on waste dump management.	Nil.		

5.0 Solid Waste Management-Backfilling

S.N.	ltem	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
5a	Status on 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 mined	CuM, 13239.00	topsoil has been	-

	out area (Rule 32)	topsoil will be utilized for plantation in safety zone of Railway Station.	•	
5d	Total area fully reclaimed & rehabilitated	1.20 Ha. area will be utilized for plantation of 1000 nos. of saplings along the mining lease boundary.	has been utilized for plantation of 1000 nos. of	-
5e	General remarks of inspecting officer on backfilling, reclamation etc.	Nil.		

6.0 Progressive Mine Closure Plan

S.N.	ltem	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	As per rule 26(2), lessee has to submit the annual report before 1st day of July of every year.	Annual report on PMCP for F.Y. 2023-24 has been submitted before due date.	The given information has been cross verified during inspection.
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	No proposal.	Nil.	-
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir	No proposal.	Nil.	-

	v) Any other specific means			
6d 6e	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation Compliance of Environmental monitoring (core zone & buffer zone)	1000 nos. 1.20 Ha. By plantation Proposal has been given in the approved document for regular monitoring of the environmental parameters in the core and buffer zone.	1000 nos. 1.20 Ha. By Plantation Being done as per proposal.	All the parameters are within the permissible limits.
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Nil.		

7.0 Mineral Conservation

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM/Ore will be dispatched directly to the crusher plant without sorting.	Being done as per proposal.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No proposal for grade wise sorting.	ROM/Ore is being dispatched to the captive plant without sorting.	-
7c	Different grade of mineral sorted out at mines	-do-	-do-	•
7d	Any beneficiation process at mines	No Proposal.	NIL	-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Nil.		

8.0 Environment

S.N.	Item	Proposals	Actual work	Remarks
		F.Y. 2023-24	F.Y. 2023-24	

			I a .	
8a 8b	Separate removal and utilization of topsoil (Rule 32) Concurrent use or storage of topsoil	Proposal has been given in the approved document for separate removal and concurrent use of topsoil for the purpose of plantation. 13239.00 CuM of generated topsoil will be utilized for the purpose of plantation.	Separate removal and the concurrent use of generated topsoil is being done. 11341.00 CuM of generated topsoil has been utilized for the purpose of plantation.	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal.	Nil.	Old dumps/stocks Topsoil – 01 no. OB/Waste – Nil. Mineral/Ore- 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)	1.20 Ha. area will be utilized for plantation of 1000 nos. of saplings.	1.20 Ha. area has been utilized for plantation of 1000 nos. of saplings.	Planation has been done along the safety barrier of railway station.
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	1000 nos. of saplings will be planted over 1.20 Ha. area.	1000 nos. of saplings have been planted over 1.20 Ha. area.	-do-
8g	Survival rate	90%	Approx 90%	
8h	Water sprinkling on roads to control airborne dust	Proposal has been given in the approved document for water sprinkling on roads to control airborne dust through the water tanker.	Being done as per proposal.	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Nil.	I	

9.0 Compliance of Rule 45

S.N.	ltem	COMMENTS	Remarks
9a	Status of submission of	M.R. Submitted up to December 2024	Nil.
	Monthly and Annual	A.R. Submitted up to F.Y. 2023-24	
	returns		

S.N.	Item	Details GIVEN in A.R. F.Y. 2023-24	I/Officer F.Y. 2023-24	
9b	Scrutiny of Annual return for information on Mining Engineer,	Manager: Shri A. Shiva Kumar.	Chaitanya.	Nil.
	Geologist and Manager	Mining Engineer: Shri Shri N. Chaitanya.	Mining Engineer: Shri Shri N. Chaitanya.	
		Geologist: Shri V. Anand Kumar.	Geologist: Shri V. Anand Kumar.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.			Nil.
9d	Scrutiny of Annual return on afforestation	Within ML: 1000 nos. with 90% survival rate.	Within ML: 1000 nos. with 90% survival rate.	Nil.
		Outside ML: Nil nos. with Nil survival rate.	Outside ML: Nil nos. with Nil survival rate.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mineral Reject: Nil. Grade: Nil.	Mineral Reject: Nil. Grade: Nil.	Nil.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Closing Stock: Nil.	ROM Closing Stock: Nil.	Nil.
		Limestone	Cement Grade Limestone Closing stock: 30366.000 Tonnes	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale value: Rs. 36960448.00	Sale value: Rs. 36960448.00	Nil.
		Ex-mine Price: Rs. 194.12 Per Metric Tonne	Ex-mine Price: Rs. 194.12 Per Metric Tonne	

		Cost of	Cost of Production:	
		Production: Rs.	Rs. 194.12 Per	
		194.12 Per	Metric Tonne	
		Metric Tonne	Tricking Formic	
9i	Scrutiny of Annual return	Rs.	Rs. 3237901946/-	Nil.
	on fixed assets	3237901946/-		
9k	Scrutiny of Annual return	1. Back Hoe 01		,
	on mining machineries	no. 1.02 CuM		0
		bucket capacity.	· · ·	been cross
		2. Tippers 4 nos.	1	verified.
		with 13.0 CuM	with 13.0 CuM	
		carrying	carrying capacity.	
		capacity.	3. Water Tanker 01	
		3. Water Tanker	no. with 10000	
		01 no. with	l	
		10000 Liters	· •	
		capacity.	01 no. with 12.74	
		4. Air		
		Compressor 01	5. Blast Drilling	
		no. with 12.74	Machine 01 no.	
		CuM/MN	with 115.0 mm bit	
		capacity.	size.	
		5. Blast Drilling	6. Jeep/Tractor	
		Machine 01 no.	02 nos. with 111	
		with 115.0 mm	HP capacity.	
		bit size.		
		6. Jeep/Tractor		
		02 nos. with		
		111 HP		
		capacity.		

Details of violations observed during current inspection and compliance position of earlier violation pointed out:

Violation Rule 11(1) of MCDR, 2017 has been pointed out during inspection.

(Name of inspecting officer with designation and date)

Shaival Kartikeya Senior Mining Geologist Date of Inspection 30/09/2024