

Indian Bureau of Mines
Minerals Development and Regulation Division
MCDR Inspection Report
Hyderabad Regional Office.

Mine File No: MCDR-MiFL0LST/40/2023-HYD.

Mine Code: 38APR14025

1) Name of Inspecting officer:	Shri. M.K. Kalmata
2) Designation	Regional Mining Geologist
3) Accompanying mine official with designation	Sri. D Jwannes Reddy –Mines Manager Sri. G. Kishan– Geologist Sri. G.Jaswanth Reddy –Mining Engineer
4) Date of Inspection	11.09.2024
5) Date of Previous Inspection	01.02.2024

Part-I: General

S.No.	Particulars	Details
1	Name of the Mine	Mattapally Limestone Mine.
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease Area: 46.356 Ha. Non Forest: Nil
3	Mine code	38APR 14025
4	IBM Registration Number under rule 45 of	IBM/578/2011
5	Name of the lessee, Address, phone, email and fax number	M/s NCL Industries Ltd, Simhapuri—508204 Mattampally(M),Suryapeta (Dt),Telangana (State)
6	Village	Mattapally
7	Taluka/Mandal	Mattampally
8	District	Suryapeta
9	Pin code	508204
10	State	Telangana
11	Post office	Simhapuri
12	Nearest police station	Simhapuri
13	Nearest Railway station	Nadikudi
14	Date of Grant of Mining Lease	14.10.1980
15	Date of Execution	18.01.1982
16	Period	13.10.2030

17	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri.K. Gautam, Managing Director, Date: 13.11.2015 M/s. NCL Industries Ltd, 6 th & 7 th Floor, NCL Pearl, Near Rail Nilayam, S.D.Road,Secunderabad-500 026. Fax: 91-40 – 29807871 Phone: 91-40 – 30120000
18	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri. S.Chakradhar President (Works) Date: 17.07.2015 M/s. NCL Industries Ltd, Mattapally (V), Mattampally (M), Suryapeta – 508 204 Fax: 08683 - 227629 Phone: 08683 - 227630 Email: nclworks@nclind.com
19	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines, qualification	Sri. D. Jwannes Reddy, Mines Manager Date: 12.05.2022 Email: mines@nclind.com Cell No. 7095020888
20	Name of the Mining Engineer & Geologist, Qualification and date of appointment in mine,	1. Mr G.Jaswanth Reddy, Mining Engineer,(B.Tech Mining Engineering) Date: 14.05.2022 2.G.Kishan , Geologist(M.sc Geology) Date:08.11.2013
21	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	AP/NLG/MP/Lst-44/Hyd ,Dt : 08/12/2022, Review of Mining plan for the block period 2023-24 to 2027-28.
22	Name of the Mineral	Limestone
23	Method of Mining(Opencast, Underground)	Opencast
24	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
25	Captive/Non Captive	Captive

PART-II**Exploration :**

Sl. No.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	None in the year 2023-24	None in the year 2023-24	Total lease area is 46. 356Ha and entire area is already explored under G-1, level.
1b	Exploration over lease area for geological axis 1 or 2	None in the year 2023-24	None in the year 2023-24	Total lease area is 46. 356Ha and entire area is already explored under G-1, level.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None in the year 2023-24	None in the year 2023-24	Earlier exploration is carried out by M/s. J.P Kor drilling, Hyderabad & M/s.Penna Cement Industries Ltd, Gudipadu, under Supervision of experienced Mining Engineer, Geologist. Expenditure incurred on exploration is 9.19 lakhs. (Excluding analysis expenditure)

1d	Balance area to be explored to bring Geological axis in 1 or 2	None in the year 2023-24	None in the year 2023-24	Total lease area is 46.356Ha and entire area is already explored under G-1, level by drilling 52 boreholes to a total depth of 1220 mtr.
1e	Balance reserves as on 01/04/2017	As per the approved document dated 08-12-2022, reserves/resources are as follows. (As on 04-07-2022, in Million tonnes). Proved M Reserves(111) - 17.897, Feasibility M Resources (211) - 4.013, Total:- 21.910	Reserves/resources as on 01.04.2024 is as follows (In million tonnes) Proved M Reserves (111) - 15.624, Probable M Resources (211) - 4.013, Total:- 19.637	Updated reserves/resources by depleting the production carried out between 01/07/2022 to 31.03.2024.
1f	General remarks of inspecting officers on geology, exploration etc.		The geological set up of the region is part of Kurnool system which is regarded as equivalent of the lower Vindyan (Semri series) of the stone and Narmada Valley in the standard	Total lease area is 46.356Ha and entire area is already explored under G-1, level by drilling 52 boreholes to a total depth of 1220 mtr.

			<p>Indian stratigraphy. The area forms a part of plan land basin comprising Precambrian Proterozoic strata. Litho units belonging to the Jammalamadugu series of Kurnool system and co-relatable to Narji Limestone formation occur in and around the area. The limestone formation has an estimated thickness of about 100 in the plan land basis but not all of it is useable as raw material for cement manufacturing. The general strike of the formation is NE to SW and dip is almost EW.</p>	
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Development :				
Sl.N	Item	Proposals	Actual Work	Remarks
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2a	Location of development w.r.t. lease area	In the year 2023-24, there was a proposal to work between the co-ordinates N1847140 to 1847680 & E 374750 to 375340	In the year 2023-24, working is almost carried out within the proposed limits only.	
2b	Separate benches in topsoil, overburden and minerals (Rule-15)	Benches were proposed in ore only.	Benches exist in ore only.	No topsoil or OB is existing in the proposed working area. And existing benches are in ore only.
2c	Stripping ratio of ore to OB ratio	1:0	1:0	No OB is existing in the proposed working area.
2d	Quantity of topsoil generation in m ³	None in the year 2023-24.	None in the year 2023-24.	No topsoil generation is proposed in the present plan period.
2e	Quantity of overburden generation in m ³	None in the year 2023-24.	None in the year 2023-24.	No OB/waste generation is proposed in the present plan period.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc.		Only one pit is existing in the lease area. The bench parameters are almost kept as per the proposal. Top benches are almost reached UPL and in future working will be carried	

			out depth wise only.	
Exploitation :				
Sl.N o.	Item	Proposals	Actual Work	Remarks
3a	Number of pit proposed for production	One pit in the year 2023-24.	One pit in the year 2023-24.	The dimension of the pit is 680m (L) x 570(W) x 35m (D) (Average)
3b	Quantity of ROM mineral production proposed	1500000 tonnes in the year 2023-24	1215000 tonnes in the year 2023-24.	The production achieved is 81% of proposal in the year 2023-24.
3c	Recovery of saleable / usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	None in the year 2023-24.	None in the year 2023-24.	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable.	Not applicable.	
3f	Quantity of subgrade mineral generation.	None.	None.	
3g	Grade of subgrade mineral generation.	Not applicable.	Not applicable.	

3h	Manual / Mechanized method adopted for segregating from ROM	None.	None.	
3i	Any analysis or beneficiation study proposed and carried out for subgrade mineral and rejects	None.	None.	
3j	Provision of drilling and blasting in mineral benches	yes, proposed deep hole drilling and blasting.	Lessee is doing drilling and blasting as per the proposal.	Using drilling machine of 115mm capacity for drilling blast holes and loose ammonium nitrate slurry explosive for blasting.
3k	Provision of mining machineries in mineral benches	Yes proposed.	Using Combination of excavators and tippers for production and development.	Additionally using rock drilling machine of 115mm for drilling blast holes.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6.00 mtr bench height is proposed.	Maintained bench height of 6 to 7.00 mtr(Average).	In some places it is observed that bench height was kept more than the proposal. But it was suitable for the method of mining and

				<p>machineries proposed. However, advised lessee to maintain benches as per the proposal.</p>
3m	Total area covered under excavation / pits	Area under Mining:- 38.75 Ha up to 2023-24.	Area under mining 40.11 Ha up to 2023-24.	In the present plan period, working is almost carried out as per proposal only. In the approved document the area put to use at the start of the year is not given properly, so there is a small deviation in the area under mining.
3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0	No OB is existing in the proposed working area.
3o	Total area put in use under different heads at the end of year	Area under Mining:- 38.75 ha, Infrastructure:- 0.31Ha, Plantation:- 3.56 up to 2023-24.	Area under pits is 40.11Ha, Infrastructure (Road and buildings):- 1.50Ha, and area covered under plantation within the lease area is 3.84Ha.	There is a small deviation in the land use details and as per the advice lessee has requested to MMS division for refer back the Annual returns submitted for the year 2023-24, So no violation

				is pointed out for the same.
3p	Production of ROM mineral during the last five year period as applicable	2023-24 - 1500000T 2022-23 - 1500000T 2021-22 - 1500000T 2020-21 - 1500000T 2019-20 - 1500000T	2023-24 - 1215000T 2022-23 - 1493000T 2021-22 - 1499600T 2020-21 - 1490000T 2019-20 - 1353832T	94% of production is achieved during the last five years.
3q	General remarks of inspecting officers on method of mining etc.		The mine is opencast & method of mining adopted is fully mechanized with deep hole drilling and blasting. Lessee is doing drilling and blasting for loosening of starata and using combination of Excavators and tippers for bench cleaning and loading of the ROM.	Additionally lessee is using rock drilling machine for reduce the size of the ROM boulders.
Solid Waste Management - Dumping :				
Sl.No.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32, 33)	None in the year 2023-24.	None in the year 2023-24.	No topsoil, OB is existing in the area proposed for mining in the present five years block period. Recovery is 100% and generation mineral reject is also Nil.

4b	Location of topsoil, OB and mineral reject dumps	None in the year 2023-24.	None in the year 2023-24.	No dumps are existing within the lease area.
4c	Number of dumps within lease area and outside of lease area	None in the year 2023-24.	None in the year 2023-24.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable.	Not applicable.	
4e	Number of active and alive dumps.	None in the year 2023-24.	None in the year 2023-24.	No dumps are existing within the lease area.
4f	Number of dead dumps.	None in the year 2023-24.	None in the year 2023-24.	
4g	Number of dumps established.	None in the year 2023-24.	None in the year 2023-24.	
4h	Whether retaining wall or garland drains all along dumps are there.	None in the year 2023-24.	None in the year 2023-24.	
4i	Length of retaining wall or garland drain all along dumps.	None in the year 2023-24.	None in the year 2023-24.	
4j	Number of settling	None in the year	None in the year 2023-	

	ponds	2023-24.	24.	
4k	Specific comments of inspecting officers on waste dump management .		No topsoil, OB, and mineral reject is proposed and generated in the present five year block period, so no dumping was made.	No dumps are existing within the lease area.
Solid Waste Management - Backfilling :				
Sl.N o.	Item	Proposals	Actual Work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling	Not proposed.	Nil	No backfilling is proposed in the present plan period.
5b	Area under backfilling of mined out area	Not proposed.	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed.	Nil	
5d	Total area fully reclaimed and rehabilitated	Not proposed.	Nil	

5e	General remarks of inspecting officers on backfilling and reclamation etc.		Present working is not reached up to the proved depth and no proposals were made for reclamation and rehabilitation in the present plan period.	
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Progressive Mine Closure Plan :

Sl.N o.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 26(2)	Before 1st July of every year.	Submitted yearly report on PMCP within the prescribed time limit.	PMCP report submitted on 28.06.2024 along with the Annual returns submitted for the year 2023-24.
6b	Area available for rehabilitation (ha)	None in the year 2023-24.	None in the year 2023-24.	No area is matured for Reclamation and Rehabilitation.
6c	Afforestation done (ha)	0.40Ha in the year 2023-24.	0.43Ha in the year 2023-24.	
6d	No. of saplings planted during the year	1000 saplings in the year 2023-24.	1035 saplings in the year 2023-24.	
6e	Cumulative no. of plants	5025 saplings in the present five year block period (2023-24 to 2027-28)	1035 saplings were planted up to 2023-24 in the present five year block period (Only one year is completed in the present five year	Total plantation made so far is 6145 and area covered is 3.84Ha.

			block period).	
6f	Any other method of rehabilitation	None.	None.	
6g	Cost incurred on watch and care during the year	Rs 1.0lakh for plantation and maintenance.	Approximately Rs 1.5lakhs	For plantation and watch and care.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (LxBxD)	Nil	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on	Nil	Nil	

	backfilled area			
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Nil	Nil	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Nil	Nil	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Nil	Nil	
6o	Compliance of	Nil	Nil	

	rehabilitation of waste land within lease (ii) Method of rehabilitation			
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes, Air, Water and Noise monitoring was proposed in Core and Buffer zone.	Environmental monitoring in the core and buffer zone is carried out as per the proposal and results are within permissible limits.	Environmental monitoring is carried out by M/s Lawn Enviro Associates, Hyderabad.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Only Plantation was proposed under progressive Mine Closure plan. Accordingly lessee has planted 1035 saplings in the year 2023-24 and total saplings planted so far is 6145. Carried out environmental monitoring for Air, Water etc. and results are within the permissible limits.	
Mineral Conservation:-				
Sl.No.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or gradewise sorting within lease	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.

	area			
7b	Method of gradewise mineral sorting i.e. manual or mechanical	None.	None.	Sending ROM to Crusher which is existing near the plant area. From crusher point feeding to Captive Cement plant.
7c	Different grade of mineral sorted out at mines	Cement Grade.	Cement Grade.	
7d	Any beneficiation process at mines	None.	None.	
7e	General remarks of inspecting officers on mineral conservation and beneficiation issues.		Lessee is not doing any mineral processing at the mine site at present and Dispatching ROM Crusher which is existing near the plant area. After crushing feeding to Captive Cement plant linked with the mine.	

Environment:-

Sl.No	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	None in the year 2023-24.	None in the year 2023-24.	No topsoil is existing in the area proposed for production and development in

				the year 20232-4, so no topsoil is removed in the present plan period.
8b	Concurrent use or storage of topsoil	Not applicable.	Not applicable.	
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	None.	None.	
8e	Phased restoration, reclamatio n and rehabilitati on of land affected by mining operations (pits, dumps etc.)	None.	None.	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Baseline information was furnished in the mining plan. Additional plantation proposals are being given in the Mining Plan documents.	Additionally lessee has planted about 6145 sapling so far within the lease area.	
8g	Survival rate	60%	65 to 70%	The survival rate is more than the proposal. Lessee is well taking care of the plantation by engaging manpower.
8h	Water sprinkling on roads to control airborne dust	Yes proposed.	Regularly spraying water on the working benches, Haul road etc.	One water tanker of 12000 ltr capacity is in use for dust suppression.
8i	General remarks of inspecting officers on aesthetic beauty in and around mine areas.		One pit is existing within the lease area. The benches are maintained systematically. Plantation was made in the 7.5mtr safety zone.	

Compliance of Rule 45 :

Sl.No.	Item	Proposals	Actual Work	Remarks
9a	Status of submission of monthly and annual returns	A monthly return shall be submitted before the tenth day of every month in	Submitting Monthly and Annual returns within the time limit.	Submitted Annual returns for the year 2023-24 on 28-06-2024.

		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.		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	As per the Annual returns submitted for the year 2023-24, details are as follows, Mining Engineer:- P.Swathikiran Reddy, Geologist:-G.Kishan, Mines Manager:- D.Jwannes Reddy.	Mining Engineer: G.Jaswanth Reddy, B.Teh Mining, Geologist:- Mr. G.Kishan, Msc Geology, Mines Manager:-D. Jwannes Reddy.	The details furnished in the Annual Returns are found correct. However, recently Lessee has appointed G Jaswanth reddy as a Mining Engineer and sent notice of appointment to this office.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Mining 38.75Ha, Infrastructure:- 0.56Ha, Green belt:- 3.84Ha.	Area under pits is 40.11Ha, Infrastructure (Road and buildings):- 1.50Ha, and area covered under plantation within the lease area is 3.84Ha.	There is a small deviation in the land use details and as per the advice lessee has requested to MMS division for refer back the Annual returns submitted for the year 2023-24, So no violation is pointed out for the same.

9d	Scrutiny of Annual return on afforestation	1035 saplings in the year 2023-24 with survival rate of 70%.	The information furnished in the Annual returns submitted for the year 2023-24 is found correct.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	None in the year 2023-24.	None in the year 2023-24.	Entire ROM is dispatched to Captive plant under cement grade.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: Opening and closing stock:- Nil, Production:-1215000 tonnes. Grade wise: Cement Grade:- Opening and closing stock:-Nil, Production and dispatch:- 1215000 tonnes	The details furnished in the AR submitted for the year 2023-24 is found correct.	Entire ROM produced is dispatched to captive plant under cement grade.
9g	Scrutiny of Annual return on Sale value, Ex Mine price and production cost	Sale value, cost of production and Ex-mine price is shown as Rs 156/ton.	The information furnished in the Annual returns submitted for the year 2023-24 is found correct.	Since the mine is captive cost of production and Ex-mine price is same. And as per the instruction given by HQ, Sale value is given by multiplying quantity dispatched and cost of production.

9h	Scrutiny of Annual return on fixed assets	Value of fixed assets was mentioned as ₹ 6316103 in the year 2023-24.	At Part II A, under capital structure figures are given same for all the three leases of the M/s. NCL Industries Ltd. In case information is furnished combinedly, in that case for other leases only mine codes of the leases for which information is furnished combinedly to be given. Further, no industries, residential buildings are observed in the lease area however, value for the same are mentioned in the Annual returns submitted for the year 2023-24. Further, value of land which is mentioned as Rs 18849 appears incorrect.	Advised lessee to refer only mine codes of remaining leases in case data is furnished combinedly and for Sultanpur tanda mine of same lessee Show-cause notice was issued for the same under Rule 45(7) of MCDR 2017. So no fresh show-cause notice is issued in this mine. However, under intimation to this office lessee has requested MMS division for refer back the Annual returns for correction.
9k	Scrutiny of Annual return on mining machineries	Shovel 2.5 cum - 01. Shovel -1.0 cum-01, Shovel 0.9cum-01, Tippers of 17cum-10 , Drilling machine of 115mm-01. Dozer-01.	The details furnished in the AR submitted for the year 2023-24 is found correct.	

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

Violation observed			Show cause position		
Rule No.	Issued on	Compliance position	Rule No.	Issued on	Compliance position
	NA		NA	NA	

Date:-

(KALMATA.M.K)

Indian Bureau of Mines