

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

**Mine File MCDR-Misc/15/2023-Hyd**

**Mine Code: 38APR14018**

1) Name of Inspecting officer:	<b>Shri. M.K. Kalmata</b>
2) Designation	Regional Mining Geologist
3) Accompanying mine official with designation	Sri. G S Subba Rao – Mines Manager Sri. S. Naresh Kumar– Geologist Sri. O.Varaprasad–Mining Engineer
4) Date of Inspection	10.09.2024
5) Date of Previous Inspection	02.02.2024

**Part-I: General**

S.No.	Particulars	Details
1	Name of the Mine	Gundlapally Limestone Mine.
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease Area: 130.37 Ha. Non Forest: 130.37 Ha.
3	Mine code	<b>38 APR 14018</b>
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	Gundlapally
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	22.10.1990
15	Date of Execution	28.03.1991
16	Period	21.10.2040

17	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	<b>Shri.K. Gautam,</b> Managing Director, Date: 13.11.2015 M/s. NCL Industries Ltd, 6 <sup>th</sup> & 7 <sup>th</sup> 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	<b>Sri. S.Chakradhar</b> 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: <a href="mailto:nclworks@nclind.com">nclworks@nclind.com</a>
19	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines, qualification	Sri. G S Subba Rao, Mines Manager Date: 02.09.2015 Email: <a href="mailto:mines@nclind.com">mines@nclind.com</a>
20	Name of the Mining Engineer & Geologist, Qualification and date of appointment in mine,	1. Mr O. Vara Prasad, Mining Engineer,(B.Tech Mining Engineering) Date: 27.01.2024 2.Mr. S Naresh Kumar, Geologist(M.Sc. Applied Geology) Date: 01.04.2024
21	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Modification in the Approved Mining Plan (MMP) AP/NLG/MP/Lst-11/Hyd, dated 28-06-2021
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 :**

<b>Sl. No.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
1a	Backlog of previous year	None in the year 2023-24	None in the year 2023-24	Lessee has drilled 23 exploratory bore holes to a total depth of 1150 mtrs in the present 5 year block period.
1b	Exploration over lease area for geological axis 1 or 2	None in the year 2023-24	None in the year 2023-24	Drilled 23 boreholes in the present five years block period and explored entire mineralized area 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. Rock Engineering Core drillers, Hyderabad, under Supervision of experienced Mining Engineer, Geologist of the M/s NCL Ltd. Expenditure incurred on exploration is 52.44lakhs.(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 130.37Ha and entire area is explored under G-1 level.
1e	Balance reserves as on 01/04/2017	As per the approved document dated 28-06-21 reserves/resources are as follows. (As on 01-04-2021, in Million tonnes). Proved M Reserves (111) - 26.881, Probable M Reserves (122) 28.818 Feasibility M Resources (211) - 5.522, Pre-feasibility m Resources(222) 15.852, Inferred M Resources(333) 23.536, Total:- 100.609	Based on exploration carried out in the present plan period lessee has re-assessed the reserves/resources and same are updated in the Review of Mining plan approved for the period 2025-26 to 2029-30 and details are as follows (date of estimation 30.06.2024)(In million tonnes) Proved Mineral Reserves (111) - 68.342 Feasibility M Resources (211) 81.904 Total:-150.246	Reserves/resources are re-estimated based on the exploration carried out during the present five year block period.

1f	General remarks of inspecting officers on geology, exploration etc.		<p>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 Indian stratigraphy. The lease area is part of palnad Basin two type of limestone bands available in the lease area one is Gray to dark gray colored which is cement grade limestone and other is Light grey colored which is rich in silica. The general strike of the formation is NNE to SSW and dip is varies from 5 to 20 degree SE.</p>	<p>Total lease area is 130.37Ha and entire area is already explored under G-1, level by drilling 100 exploratory boreholes to a total depth of 3617.5 mtr. Expenditure incurred on exploration is 52.44lakhs.</p>
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<b>Development :</b>				
Sl.No.	Item	Proposals	Actual Work	Remarks

2a	Location of development w.r.t. lease area	In the year 2023-24, there was a proposal to work in two pits and details are as follows. Pit No-1: N1847784 to 1848196 & E 378036 to 378440, Pit No-2:- N1847888 to 1848382 & E 378832 to 379210	Actual working is carried out in Pit No-2 only. The working has been carried out between the co-ordinates N 1848200 to 18487950 & E 378200 to 378600 in the Eastern side and N 1848000 to 1848500 & E 377900 to 378200 in the South western of Pit No-2.	Working has been carried out within the proposed limits only. However, due to non-availability of EC for enhanced production is not achieved as proposed. Lessee has submitted Review of Mining plan for the next five year block period 2025-26 to 2029-30. And in the RMP updated present status of working in the review chapter so no violation is pointed out for deviation (Negative) in the year 2023-24.
2b	Separate benches in topsoil, overburden and minerals (Rule-15)	Benches were proposed in ore only.	Benches are existing 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 <sup>3</sup>	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 <sup>3</sup>	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.		There was a proposals to work in two pits in the year 2023-24, however, lessee has not obtained EC for the enhanced production of 3.0 million tonnes and achieved only 0.88million tonnes in the year 2023-24.So production is achieved from one pit only (pit No-2)	Lessee has submitted Review of Mining plan for the next five year block period 2025-26 to 2029-30. And in the RMP updated present status of working in the review chapter so no violation is pointed out for deviation (Negative) in the year 2023-24.

**Exploitation :**

Sl.No.	Item	Proposals	Actual Work	Remarks
3a	Number of pit proposed for production	Two pits in the year 2023-24.	One pit in the year 2023-24.	Total two pits are existing within the lease area and dimension of the pits are as follows Pit 1:- 140m (L) x

				<p>170m (W) x 17m (D) Pit No-2:- 650m(L) x 460m (W) x 26m (D). Due to non availability of EC for 3.0 million tonnes lessee has produced only 0.88Million tones against the proposal of 3.0 million tonnes, so working is carried out in only one pit(Pit No.2) in the year 2023-24.</p>
3b	Quantity of ROM mineral production proposed	3000000 tonnes in the year 2023-24 (3.0 million tonnes)	880000 tonnes in the year 2023-24. (0.88 million tonnes)	<p>The production achieved is 29.33% of proposal in the year 2023-24. Lessee has submitted Review of Mining plan for the block period 2025-26 to 2029-30 and in the review chapter updated the proposals v/s actual and given revised proposals for the next five year block period. So no violation is</p>



				pointed out for deviation in proposals.
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	None.	None.	

	rejects			
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 4to 7.00 mtr (Average).	Average bench height is maintained within 6.00 mtrs and in some places it is observed that bench height was kept more than the proposal. But it is suitable for the method of mining and machineries proposed. However, advised lessee to maintain benches as per the proposal.

3m	Total area covered under excavation / pits	Area under Mining:- 51.41Ha, at the end of 31,03.2025.	32.14Ha as on September 2024.	The production is not carried out as per the proposal due to non availability of EC for enhanced production, so there is a negative deviation in area under excavation.
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:- 51.41Ha, Infrastructure:- 1.54Ha,	Area under mining:- 32.14Ha, Infrastructure:- Infrastructure:-1.54Ha.	The production is not carried out as per the proposal due to non availability of EC for enhanced production, so there is a negative deviation in area under excavation.
3p	Production of ROM mineral during the last five year period as applicable	2023-24 - 3000000T 2022-23 - 3000000T 2021-22 - 3000000T 2020-21 - 3000000T 2019-20 - 1000000T	2023-24 - 880000T 2022-23 - 997069T 2021-22 - 999500T 2020-21 - 996000T 2019-20 - 854717T	

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.	There was a proposal to work in two pits. However, due to non-availability of EC for enhanced production, actual production achieved is only 29 to 33% in the present block period (2020-21 to 2024-25), so working is carried out in only one pit. Lessee has submitted RMP for the next five year block period (2025-26 to 2029-30) and updated the actual positions in the review chapter and given fresh proposals from 01.04.2025 onwards so no violation is pointed out for deviation in working proposals.
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**Solid Waste Management - Dumping :**

Sl.No.	Item	Proposals	Actual Work	Remarks
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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	None in the year 2023-24.	None in the year 2023-24.	

	garland drains all along dumps are there.			
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 ponds	None in the year 2023-24.	None in the year 2023-24.	
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 :**

<b>Sl.N o.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
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	Not proposed.	Nil	

	restoration or rehabilitation of mined out area (Rule 32)			
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 upto the proved depth and no proposals were made for reclamation and rehabilitation in the present plan period.	

**Progressive Mine Closure Plan :**

<b>Sl.No.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
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)	0.30Ha in the year 2023-24.	0.31Ha in the year 2023-24.	
6d	No. of saplings planted	1330 saplings in the year 2023-24.	1546 saplings in the year 2023-24.	

	during the year			
6e	Cumulative no. of plants	5320 saplings in the present five year block period (2020-21 to 2024-25)	5587 saplings were planted up to 2023-24 in the present five year block period.	Total plantation made so far is 11807 and area covered is 5.59Ha.
6f	Any other method of rehabilitation	None.	None.	
6g	Cost incurred on watch and care during the year	None	Approximately Rs 2.0lakhs	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	Nil	Nil	



	rehabilitation by backfilling (iii) Afforestation on 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	Nil	Nil	

	lease (ii) Area rehabilitatio n (ha)			
6o	Compliance of rehabilitatio n of waste land within lease (ii) Method of rehabilitatio n	Nil	Nil	
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 <b>Enviro</b> 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 1546 sapling in the year 2023-24 and total saplings planted so far is 11807. Carried out environmental monitoring for Air, Water etc. and results are within the permissible limits.	
<b>Mineral Conservation:-</b>				
<b>Sl.N o.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>

7a	ROM mineral dispatch or gradewise 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 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
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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 2023-4, 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, reclamation and rehabilitation of land affected by	None.	None.	

	mining operations (pits, dumps etc.)			
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 11807 saplings so far within the lease area.	
8g	Survival rate	No such proposal was given in the approved document	70 to 75%	. 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.		Two pits are existing within the lease area. The benches are maintained systematically. Plantation was made in the 7.5mtr safety zone.	
<b>Compliance of Rule 45 :</b>				
<b>Sl.No.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>

9a	Status of submission of monthly and annual returns	A monthly return shall 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.	Submitting Monthly and Annual returns within the time limit.	Submitted Annual returns for the year 2023-24 on 28-06-2024.
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:- S.Pavankumar Reddy, Geologist:-S.Srinivasa Reddy, Mines Manager:-G.S.Subba Rao	Mining Engineer:Mr. O.Varaprasad, B.Teh Mining, Geologist:- Mr. S.Naresh Kumar, Msc Geology, Mines Manager:-S.Subba Rao.	The details furnished in the Annual Returns are found correct. However, recently Lessee has appointed O. Varaprasad as a Mining Engineer and Mr. S Naresh as a Geologist 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 31.91Ha, Infrastructure:- 1.54Ha, Green belt:- 5.59Ha.	Area under mining:- 32.14Ha, Infrastructure:- Infrastructure:-1.54Ha. Green belt:-5.59Ha	The information furnished in the Annual returns submitted for the year 2023-24 is found correct. Since the actual position is given

				based on the latest survey there is a little deviation in details furnished in the AR and actually area in use.
9d	Scrutiny of Annual return on afforestation	1546 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:-880000 tonnes. Grade wise: Cement Grade:- Opening and closing stock:-Nil, Production and dispatch:- 880000 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 166/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 ₹ 0 in the year 2023-24.	Lessee has shown Capital structure combinedly in the Sultanipur tanda limestone mines returns of the same lessee.(Mine code 38APR14039)	
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