

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/NLG/LST-27/HYD

Mine code : 38APR14039

- (i) Name of the Inspecting : 25) SHRI IBRAHIM SARIF
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri. Maipal Reddy, Manager
Official with
Designation
- (iv) Date of Inspection : 20/01/2022
- (v) Prev.inspection date : 07/03/2020

PART-I : GENERAL INFORMATION

- 1. (a) Mine Name : SULTANPURA THANDA
- (b) Registration NO. : IBM(578/2011)
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : TELANGANA
District : NALGONDA
Village : SULTANPURA THANDA
Taluka : MATTPALLY
Post office : SIMHAPURI
Pin Code : 508204
FAX No. : 08683227629
E-mail : nclindia@md4.vsnl.net.in
Phone : 9390801244
- (f) Police Station : MATTAMPALLY
- (g) First opening date : 28/10/1999
- (h) Weekly day of rest : SUN
- 2. Address for : SULTANPURA THANDA
correspondance : HUZURNAGAR
NALGONDA
- 3. (a) Lease Number : APR1312
- (b) Lease area : 46.36
- (c) Period of lease : 50
- (d) Date of Expiry : 13/10/2030
- 4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : NCL INDUSTRIES LTD
 3-8-352, RR TOWERS
 CHIRAGALI LANE HYDERABAD
 HYDERABAD TELANGANA
 Phone:23203637
 FAX :040-23202496

Owner : K.RAVI
 NCL INDUSTRIES LTD 3-8-
 352, 7TH FLOOR, R.RATNA
 TOWERS, CHIRAGALI LANE
 HYDERABAD TELANGANA
 Phone: 040-23203637
 FAX : 040-23202496

Agent : P.N.RAJU
 S3-8-352, RR TOWERS
 CHIRAGALI LANE HYDERABAD
 HYDERABAD TELANGANA
 Phone: 08683227634
 FAX : 08683227629

6. Date of approval of Mining Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	22/02/2005
		Modif.approved Mining Scheme	19/05/2008
		Mining Scheme rule 12 MCDR1988	30/07/2010
		Modif.approved Mining Scheme	18/01/2016
		MP modif under 17(3) MCR 2016	27/02/2017
		MP review under 17(1) MCR 2016	08/04/2021

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2019-20 : 19 Bore holes to be drilled	2020-21 and 2021-22 : 19 bore holes were drilled	
1b	Exploration over lease area for geological axis 1 or 2	Entire Lease area has to be explored in G1 scale	Entire lease area explored in G1 scale	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee.	M/s Rock Engineering Core Drillers, Hyderabad. carried out exploration under the supervision of Geologist of lessee. About Rs. 5.27 Lakhs rupees spent so far.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Entire mineralised area had been explored in G1 level.
1e	Balance reserve as on 01/04/20	----	As on 01/04/2021 Proved Reserves: 111- - 25.75 million tonnes	As per the latest Mining Plan approved on 08.04.2021
1f	General remarks of inspecting officers on geology, exploration etc			The lease area is part of palnad basin and of simple sedimentary formation of bedded stratiform deposit. Total lease area explored in G1 scale by 36 no. of bore holes with 1404 meterage..

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2020-21 - N992-N10505 & E3440-E3816	Work done within the proposed co-ordinates.	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of developing benches in top SOil/ OB. As no top soil/ OB is available in the lease area	Nil	All the benches are in Mineral only
2c	Stripping ratio or ore to OB ratio	F.Y 2020-21 : Nil	Nil	
2d	Quantity of topsoil generation in m3	F.Y 2020-21 : Nil	No proposal of any top soil generation	
2e	Quantity of overburden generation in m3	F.Y 2020-21 : Nil	No Overburden generation is proposed	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			No OB is generated in the proposed mining area and limestone is available from outcrop.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	F.Y 2020-21 : One Pit	F.Y 2020-21 : One pit	
3b	Quantity of ROM mineral production proposed	2020-21 - 10,00,000 Tonns	2020-21 -46,789 Tonns	Less production is due to want of EC approval from MOEF. Approved EC quantity by MOEF is 50,000 TPA only.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No proposal of any genreation of Mineral reject	Nil	Entire ROM produced is being utilised in cement plant.

- 3e Grade of mineral rejects generation and threshold value declared. Not applicable --
- 3f Quantity of sub grade mineral generation. F.Y 2020-21 : Nil
No proposal generation of any Sub grade ore
- 3g Grade of sub grade mineral generation Not applicable --
- 3h Manual / Mechanised method adopted for segregating from ROM No segregation from ROM is proposed Nil
ENTire ROM used in Captive Cement Plant
- 3i Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. F.Y 020-21 : No such Study carried out
No such beneficiation study/
Analysis of SUB grade ore is proposed during the year
- 3j Provision of drilling and blasting in mineral benches Deep Hole Drilling is being carried out by deploying wagon Drill of 115 mm dia by maintaining spacing of 5 meters, Burden of 4 meters and depth up to 7 to 8 meters.
Blasting is being carried out with slurry and emulsion explosives with NONELS as initiating system. The Deep hole drilling and Blasting is being carried out as proposed.

3k	Provision of mining machineries in mineral benches	Hydraulic Excavator- 3.1 cum Capacity- 1 No.,Tippers- 17 Tonnes-13 Nos., Wagom Drill- 115 mm hole dia- 1 No.,	Hydraulic Excavator- 2.3 cum-1 No, TIPPER 17 Tonnes - 6 No. BLAST HOLE DRILL (NON-ELEC.)115.000 MM - 1 No. EXPLOSIVE VAN 6.71 TONNE - 1 No. DOZER 180.000 HP - 1 No.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was proposed to maintain the bench height of 6-7 meters	During inspection it was noticed that the bench height is being maintained between 6-7 m and digging height of the excavators are compatible with bench height.
3m	Total area covered under excavation/pits	F.Y - 2020-21 : 12.853 Ha	F.Y. 2020-21 : 10.56 Ha only
3n	Ore to OB ratio for the pit/mine during the year.	F.Y. 2020-21 : Nil	F.Y. 2020-21 : Nil
3o	Total area put in use under different heads at the end of year	At the end of F.Y. 2020-21 : 15.653 Ha	At the end of F.Y. 2020-21 : 13.486 Ha
3p	Production of ROM mineral during the last five year period as applicable	2016-17=2,60,000 tonnes 2017-18=10,00,625 tonnes 2018-19=10,00,625 tonnes 2019-20=9,98,763 tonnes 2020-21 = 10,07,100 Tonnes	2016-17=51,000 tonnes 2017-18=50,000 tonnes 2018-19=50,021 tonnes 2019-20=46640 tonnes 2020-21 = 46,789 tonnes

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

Fully mechanized
opencast mining is
being adopted to
exploit the ore
using HEMM with
deep hole drilling
and Blasting
carried out with
slurry and
emulsion
explosives with
NONELS as
initiating system.
SOil bund was
constructed to
prevent the
inundation of pit
due to
Pulichintala Dam
HFL. However it
was noticed that
it was not done
properly to avoid
seepage of water
in to mine working
which needs to be
constructed with
concrete.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	F.Y 2020-21 : No proposal	Nil	No Top Soil/ Overburden generated so far in the lease area
4b	Location of topsoil, OB and mineral reject dumps	Not applicable -		
4c	Number of dumps within lease area and outside of lease area	Not applicable	Nil	No dumps available
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable	Nil	

4e	Number of active and alive dumps.	Not applicable	Nil	
4f	Number of dead dumps.	Not applicable	Nil	
4g	Number of dumps established.	Not applicable	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	F.Y 2020-21 : No proposal of construction of Retaining wall and Garland Drain along the dumps	Nil	
4i	Length of Retaining wall or garland drain all along dumps	F.Y 2020-21 : No proposal	Nil	
4j	Number of settling ponds	F.Y 2020-21 : No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management			No waste dump exists within the lease area as there is no generation of waste during mining so far .

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	F.Y 2020-21 : No such proposal of Backfilling as no area is mined out fully so far.	No backfilling carried out	
5b	Area under backfilling of mined out area	F.Y 2020-21 : Not applicable	-	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	F.Y. 2020-21 : No proposal	Nil	

5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	No area is matured for reclamation and Rehabilitation
5e	General remarks of inspecting officers on backfilling and reclamation etc.			The pit is not yet mined upto its ultimate pit limit to carry out backfilling.

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).	To be submitted in time	Submitted in time	
6b	Area available for rehabilitation (ha) .	F.Y 2020-21 : No proposal	Not applicable	
6c	afforestation done (ha).	F.Y 2020-21 : 0.315 Ha	F.Y 2020-21 : Afforestation done over 0.33 Ha area	
6d	No. of saplings planted during the year	2020-21 - 470 Nos spplings planted during the year.	F.Y 2020-21 : About 480 sa[pplings planted during the year	
6e	Cumulative no .of plants	----	About 1735 Nos sapplings planted in the lease area so far.	
6f	Any other method of rehabilitation	F.Y 2020-21 : No proposal	Not applicable	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	F.Y 2020-21 : No proposal	Nil	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	F.Y 2020-21 : No proposal	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	F.Y 2020-21 : :No proposal	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	F.Y 2020-21 : No proposal	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	F.Y 2020-21 : No proposal	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	F.Y 2020-21 : No proposal	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No proposal	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No proposal	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly environmental monitoring of core and buffer zone to be carried out.	Quarterly environmental monitoring carried out during 2020-21 and all the parameters are within the permissible limit.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Environmental monitoring is being carried out quarterly AAQ, Noise, Surface Water. Plantation is being carried regularly. No area is matured for reclamation and Rehabilitation.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Entire ROM produced to be utilized directly for captive purpose, hence no grade wise sorting is proposed within the ML.	2020-21 - 46640 Tonnes ROM produced iwas dispatched for use in Captive Cement Plant.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Nil	
7c	Different grade of mineral sorted out at mines.	Not applicable	Nil	
7d	Any beneficiation process at mines	F.Y 2020-21 : No proposal	Nil	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No sub grade ore has been generated. Beneficiation is not required as the entire ROM mineral is utilised for captive use in Cement plant.
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Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	F.Y 2020-21 : No proposal of Top soil generation is anticipated during the year	Nil	
8b	Concurrent use or storage of topsoil	Not applicable	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Not applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Not applicable	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	470 Nos. of saplings planted over 0.315 Ha in the year 2020-21.	480 Nos. of saplings planted over 0.33 Ha in the year 2020-21.	
8g	Survival rate	---	70%	
8h	Water sprinkling on roads to control airborne dust	Water Tankers to be provided to suppress the air borne dust during Mining activities.	Water tanker is provided for dust suppression.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation is done in the 7.5m safety zone to improve aesthetic beauty.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly returns up to December 2021 and Annual return for the year 2020-21 to be submitted	Monthly returns up to December 2021 and Annual return for the year 2020-21 has been submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager - Sri. G.S.Subba Rao Mining Engineer - Sri. D.V.Akhil Kalyan, Geologist - Sri. G.Kishan	Manager - G.S.Subba Rao Mining Engineer - Sri. D.V.Akhil Kalyan Geologist. Sri. Mallikarjuna	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit - 10.834 Ha Plantation - 0.315 Ha	Broadly as per submission.	

9d	Scrutiny of Annual return on afforestation	2020-21 - 483 Nos sapplings planted.	Broadly as per submission and same quantity is verified in afforestation register maintained.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex Mine Price, As submitted by Lessee Cost of Production per tonne is Rs.154/-		Exploration is carried out, but cost incurred for the same is not considered in COP, Depreciation considerede is not matching with the figures furnished in Part-III of the returns.
9h	Scrutiny of Annual return on fixed assets	Rs.4799661/-	As submitted by lessee	
9k	Scrutiny of Annual return on mining machineries	AIR COMPRESSOR 450.000 CUM/MN - 1 No. BACK HOE 2.30 CUM - 1 No. TIPPER 14.000 CUM - 6 No. BLAST HOLE DRILL (NON-ELEC.) 115.000 MM - 1 No. EXPLOSIVE VAN 6.71 TONNE - 1 No. DOZER 180.000 HP - 1 No.	Machineries mentioned are being utilised in the mining area.	

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

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on

Date :

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines

