

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

**MCDR inspection REPORT
Hyderabad regional office**

Mine file No : AP/KSN/LST-13/HYD

Mine code : 38APR10001

- (i) Name of the Inspecting : **DP09**) **D.P.Ravi kumar**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Shri G.Maheswara Rao, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 20/03/2024
- (v) Prev.inspection date : 24/06/2022

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **HEMADRI(NO.221)**
- (b) **Registration NO.** : **IBM/6878/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : ANDHRA PRADESH
- District : KRISHNA
- Village : VEDADRI
- Taluka : JAGGAIYAPET
- Post office : VEDADRI
- Pin Code : 521438
- FAX No. : 0865422373
- E-mail : hemadricements.limited@gma:
- Phone : 27373 22317
- (f) Police Station : Chillakallu
- (g) First opening date : 01/04/1985
- (h) Weekly day of rest : SUN
2. Address for : HEMADRI LIMESTONE MINE
correspondance VEDADRI (V) JAGGAYYAPET(M)
KRISHNA DIST
3. (a) Lease Number : APR0058
- (b) Lease area : 38.69
- (c) Period of lease : 50
- (d) Date of Expiry : 09/11/2031
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : M/S HEMADRI CEMENTS LIMITED
 KRISHNA ANDHRA PRADESH
 Phone:22373 22317
 FAX :08654 22373

Owner : M/SHEMADRI CEMENTS LTD
 M/S HEMDRI CEMENTS LTD
 VEDADRI JAGGAYYAPET KRISH
 KRISHNA ANDHRA PRADESH
 Phone: 22373/22317
 FAX : 0865422373

Agent : SHRI .RASOOL KHAN PATHAN
 M/s Hemadri Cements Ltd.
 Vedadri(V), Jaggaiahpet(M)
 Krishna District KRISHNA
 ANDHRA PRADESH
 Phone: 8985552089
 FAX :

Mining Engineer

Name : Shri Rasool Khan pathan,Full Time
 Qualification : M.Tech(Mining)
 Appointment/ : 11/11/2021
 Termination date

Geologist

Name : S.NARESH KUMAR,Full Time
 Qualification : M.Sc(GEOLOGY)
 Appointment/ : 18/05/2017
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	28/07/1994
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	18/04/2008
		MP modif under MCR 1960	29/02/2016
		MP review under 17(1) MCR 2016	15/05/2018
		MP review under 17(1) MCR 2016	28/11/2022

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Entire ML area has been Explored under G1 scale.
1b	Exploration over lease area for geological axis 1 or 2	Nil	The total mineralised area of 20.64 ha has been explored under G1 scale.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	None	None
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Entire mineralised area of 20.04 Ha has been explored under G1 level. Non-mineralised area - 18.04 Ha	None
1e	Balance reserve as on 01/04/20		Reserves as on 01.04.2023 = 823440 tonnes	None
1f	General remarks of inspecting officers on geology, exploration etc		The ML area falls under Jammalamadugu formation of the Kurnool group. Entire mineralised area has been explored under G1 scale.	The ML area falls under Jammalamadugu formation of the Kurnool group. Entire mineralised area has been explored under G1 scale.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N-1858880-185855, E-408879-408933	N-1858880-185855, E-408879-408933	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Only Mineral benches with 7m Height	Only Mineral benches with 7m Height	The proposed workings are within the broken area. Hence only mineral benches are developed.
2c	Stripping ratio or ore to OB ratio	1:0.03	1:0.03	Nil

2d	Quantity of topsoil generation in m3	Nil	Nil	Nil
2e	Quantity of overburden generation in m3	5233 cum	3419 cum	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Mechanised mining method is adopted. Seperate benches in OB and limestone has been developed.	Mechanised mining method is adopted. Seperate benches in OB and limestone has been developed.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit	One Pit	Nil
3b	Quantity of ROM mineral production proposed	173794 Tonnes	50900 Tonnes	Due to less production, a violation letter under rule 11(1) of MCDR 2017 is issued to the lessee.
3c	Recovery of sailable/usable mineral from ROM production	93%	93%	Nil
3d	Quantity of mineral reject generation	Nil	Nil	None
3e	Grade of mineral rejects generation and threshold value declared.	Not Applicable	Not Applicable	None
3f	Quantity of sub grade mineral generation.	NIL	NIL	None
3g	Grade of sub grade mineral generation	Nil	Nil	None
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	Nil

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Yes, Drilling and Blasting proposed in mineral benches	Yes, wagon drill-1 , compressor--1, Burden-3 m, Spacing--3.5 m, Bench ht--7m Blasting with slurry explosive with NONEL	Nil
3k	Provision of mining machineries in mineral benches	Yes, Wagon drill--1, Compressor--1, Excavator--1, Hydraulic Rock Breaker--1, Tippers-17	Yes, Wagon drill--1, Compressor--1, Excavator--1, Hydraulic Rock Breaker--1, Tippers-17	Nil
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 ht of 7m	During the inspection, it was observed that the bench ht is being maintained from 6 to 7m. The digging ht of the excavators are compatible with the bench height	Nil
3m	Total area covered under excavation/pits	14.27 ha	14.27 ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.03	1:0.58	Nil
3o	Total area put in use under different heads at the end of year	22.72 ha	19.95 ha	Nil
3p	Production of ROM mineral during the last five year period as applicable	2018-19: 149888 Tonnes 2019-20: 149955 Tonnes 2020-21: 149729 Tonnes 2021-22: 149759 Tonnes 2022-23: 173794 Tonnes	2018-19: 128600 Tonnes 2019-20: 124500 Tonnes 2020-21: 146000 Tonnes 2021-22: 149500 Tonnes 2022-23: 50900 Tonnes	Due to less production during the year 2022-23, a violation letter has been issued to the lessee.

3q	General remarks of inspecting officers on method of mining etc.	Mining operations are being carried out by adopting opencast mechanised method of mining with deep hole drilling and blasting. For loading and haulage, hydraulic excavators, backhoe and tippers are being used.	Mining operations are being carried out by adopting opencast mechanised method of mining with deep hole drilling and blasting. For loading and haulage, hydraulic excavators, backhoe and tippers are being used.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No topsoil, OB and mineral reject dumps proposed	OB Proposed & Maintained	Nil
4b	Location of topsoil, OB and mineral reject dumps	N-1858555-1858251, E-408232-408412	N-1858555-1858251, E-408232-408412	Nil
4c	Number of dumps within lease area and outside of lease area	One waste dump within the lease area	One waste dump within the lease area	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond UPL	Beyond UPL	Nil
4e	Number of active and alive dumps.	One active dump	One active dump	Nil
4f	Number of dead dumps.	Nil	Nil	Nil
4g	Number of dumps established.	Nil	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	To be maintained	Constructed and maintained	Nil

4i	Length of Retaining wall or garland drain all along dumps	Length of the retaining wall--450 m Length of the Garland drain--450 m	450 m of Retaining wall and Garland drain was constructed along the dump.	Nil
4j	Number of settling ponds	No Proposal	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management		Separate OB dumps were proposed and accordingly they are being maintained.	Separate OB dumps were proposed and accordingly they are being maintained.

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.	Back filling is proposed after full extraction of the mineral.	Back filling is being done after full extraction of the mineral.	Nil
5b	Area under backfilling of mined out area	0.1 ha	0.1 ha	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	No top soil is being generated as the workings are restricted to the broken up area.
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Back filling is being done in the North East side of ML area after the full extraction of the mineral.	Back filling is being done in the North East side of ML area after the full extraction of the mineral.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Annual report on PMCP to be submitted within the specified time	Submitted	Nil
6b	Area available for rehabilitation (ha) .	No proposal	Nil	Nil
6c	afforestation done (ha).	1500 plants on the slope of the dump covering an area of 0.0875 ha and 500 in safety barrier zone of the ML area	During the inspection it was observed that About 2000 plants have been planted on the slope of the dump and in safety barrier zone of the ML area.	Nil
6d	No. of saplings planted during the year	1500 Nos. on dump slope 500 Nos. on safety zone	The same is noticed during the inspection.	Nil
6e	Cumulative no .of plants	No proposal	it was observed during the inspection that about 5000 saplings were planted.	Nil
6f	Any other method of rehabilitation	No proposal	Nil	Nil
6g	Cost incurred on watch and care during the year	No proposal	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.1 ha	0.1 ha	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.1 ha	0.1 ha	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	Nil	Nil

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposal	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	1500 plants on the slope of the dump covering an area of 0.0875 ha and 500 in safety barrier zone of the ML area	About 2000 plants have been planted on the slope of the dump and in safety barrier zone of the ML area	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No Proposal	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposal	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring of environmental parameters are to be carried out in core & buffer zone.	Quarterly monitoring of environmental parameters are being carried out in core & buffer zone.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Back filling is being carried out in the mined out area in North east side of ML	Back filling is being carried out in the mined out area in North east side of ML

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	No grade wise sorting is proposed as the total ROM is being sent to the crushing plant.	No grade wise sorting is being carried out as the total ROM is being sent to the crushing plant.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not Applicable	Nil	Nil
7c	Different grade of mineral sorted out at mines.	Not Applicable	Nil	Nil
7d	Any beneficiation process at mines .	No proposal	Nil	No beneficiation is required as the entire ROM is utilised for the captive plant.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Total ROM is being utilised for the captive plant.	Total ROM is being utilised for the captive plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil	Nil
8b	Concurrent use or storage of topsoil	No proposal	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Back filling is proposed in the mined out area with the waste quantity generated	Waste quantity generated is being used for back filling the mined out area	Nil

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Back filling is proposed in the mined out area of 0.1 ha	Back filling is done in the mined out area of 0.1 ha	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2000 plants	2000 plants	Nil
8g	Survival rate	70%	70%	Nil
8h	Water sprinkling on roads to control airborne dust	Yes, water sprinkling is proposed on the haul roads to suppress the dust	water sprinkling is being done on haul roads to suppress the dust	Nil

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Returns and Annual Returns to be submitted within prescribed time.	Submitted in time	Nil

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer and Geologist have been appointed	During the inspection it is observed that Mining Engineer and Geologist have been appointed , but the reuired notices hve not been submitted . A violation letter under rule 55(1) of MCDR 2017 is issued to the lessee for compliance the same.	During the inspection it is observed that Mining Engineer and Geologist have been appointed , but the reuired notices hve not been submitted . A violation letter under rule 55(1) of MCDR 2017 is issued to the lessee for compliance the same.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under pits =14.270 ha, reclaimed area--0.1 ha, dumps--4.20 ha, Buildings, roads, etc=0.720 ha, Plantation and other purpose =0.650 ha	The same is noticed during the inspection.	Nil
9d	Scrutiny of Annual return on afforestation	530 nos of saplings	During inspection it is observed that more than 1500 nos of saplings were planted by the lessee.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine Price-- Rs.250/-, Cost of Production--Rs.250/-	Ex. Mine Price-- Rs.250/-, Cost of Production--Rs.250/-	Nil
9h	Scrutiny of Annual return on fixed assets	Rs. 1345466/-	The same is could not verified.	Nil

9k	Scrutiny of Annual return on mining machineries	Back Hoe of 0.9 Cu.m--2, Tippers of 9 cu.m --4, Air Compressor-- 1,Blast hole drill-- 1,Dozer--1, Tractor--1, water Tanker-- 1	Machineries found in the mining area.	Machineries found in the mining area.
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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 :

(D.P.Ravi kumar)

Indian Bureau of Mines