INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR inspection REPORT

Hyderabad regional office

	Mine :	file No : AP/KRM/LST-	5/H	YD Mine code : 38APR09002
	(i)	Name of the Inspecting Officer and ID No.	g :	MQ29) MADHU SUDHAN YADAV M
	(ii)	Designation	:	Assistant Controller Mine
	(iii)	Accompaning mine Official with Designation	:	Sri Subashish Bose, Mines Manager, Sri S. Thirupathi,
	(iv)	Date of Inspection	:	02-SEP-21
	(v)	Prev.inspection date	:	05-FEB-21
		PA	ART-	I : GENERAL INFORMATION
1.	(a)	Mine Name	:	THKKALAPALLY
	(b)	Registration NO.	:	
	(c) (d) (e) (f) (g) (h)			KARIMNAGAR 08728-228160
2.	Addre	ess for espondance		BASANTH NAGAR KARIMNAGAR 505187
3.	(c)		:	APR2269 122.28 20 23-DEC-22
4.	Miner	ral worked	:	LIMESTONE Main

5.	Name and Address of t	the		
	Lessee	:	KESORAM CEMENT	
			KESORAM CEMENT P.O.	
			BASANTHNAGAR KARIMNAGAR	
			DIST. KARIMNAGAR TELANGANA	
			Phone:	
			FAX :040 4657472	
	Owner	:	M/S KESORAM CEMENT	
			9/1 RN MUKHERJI ROAD	
			KALKATTA KOLKATA WEST	
			BENGAL	
			Phone:	
			FAX :	
	Agent	:	Ch. S. Nageswara Rao	
			Kesoram Cement Basantnagar	
			KARIMNAGAR TELANGANA	
			Phone: 08728228135	
			FAX : 08728228160	
6.	Date of approval of M	Mini	ng : Fresh under rule 22 MCR1960	26-JUL-02
	Plan/Scheme of Mining	Э	Mining Scheme rule 12 MCDR1988	21-APR-09
			Mining Scheme rule 12 MCDR1988	01-APR-15
			MP modif under 17(3) MCR 2016	17-JAN-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil	
1b	Exploration over lease area for geological axis 1 or 2	2020-21 - No proposal	2020-21 - 02 Nos. core boreholes drilled to ascertain the thickness of the mineral in the hanging wall side of th I- Block	
lc	Exploration Agencies and Expenditure in lakh rupees during the year	No propsal	02 Nos. boreholes drilled by the lesse company	
1d	Balance area to be explored to bring Geological axis in 1 or 2		Entire lease area has been explored into G1 level of exploration.	
le	Balance reserve as on 01/04/20		Proved Mineral Reserves as on 01/04/2021 - 1.54 million tonnes	
lf	General remarks of inspecting officers on geology, exploration etc			Entire potentially mineralise area has been explored into G1 level of exploration by drilling 134 core boreholes.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area		Work done within the proposed co-ordinates.	
2b	in topsoil, overburden and	No topsoil and OB bench, only mineral benches proposed	Only mineral benches developed	

2c	Stripping ratio or ore to OB ratio	1:1.18	1:2.053	Blasted material not transported completely. Hence high stripping ratio during the year 2020-21.
2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	2020-21 - 151800 cu.m	2020-21 - 45104 cu.m	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine is developed with one bench of 8 meters height. Blasted material is not completely removed due to rain water accumulation in the pit.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	2020-21 - 321000 Te	2020-21 - 55000 Te	
3с	Recovery of sailable/usable mineral from ROM production	85%	100%	Entire ROM produced was consumed by the cement plant during the year 2020-21.
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Nil	

3f	Quantity of sub grade mineral generation.	No proposal	Nil
3g	Grade of sub grade mineral generation	Not applicable	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting proposed in the mineral benches	Drilling is being carried out using wagon drill machine for drilling with a blast hole dia of 150 mm & depth of 9 m, spacing of 7 meters and burden of 5 meters. Blasting with slurry and ANFO with NONELS as initiating system.
3k	Provision of mining machineries in mineral benches	It was proposed to use wagon drills, exvators & dumpers for drilling, loading & transporting of ore to crushing plant.	Wagon drills, dumpers & excavators are being used for drilling, loading & transportation of ore to crushing plant
31	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 is being maintained as 8 m. Digging height of the excavators are compatible with bench height.

3m	Total area covered under excavation/pits	14.823 Ha	9.0 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:1.18	1:2.053	Blasted material not transported completely. Hence high stripping ratio during the year 2020-21.
30	Total area put in use under different heads at the end of year	28.07 Ha	20.52 На	
3р	Production of ROM mineral during the last five year period as applicable	2016-17 - 140545 Te 2017-18 - 239205 Te 2018-19 - 192000 Te 2019-20 - 398225 Te 2020-21 - 321000 Te	2016-17 - 50000Te 2017-18 - 70000 Te 2018-19 -40000 Te 2019-20 - 100000 Te 2020-21 - 55000 Te	
Зq	General remarks of inspecting officers on method of mining etc.			Mining is carried out in common mine boundary with Basantnagar Limestone Mine, which is in northeast direction of the lease by obtaining permission from DGMS.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Seperate dumping for topsoil and OB were earmarked in the lease area	during the plan period	
4b	Location of topsoil, OB and mineral reject dumps		OB dump maintained in the north and southern side of the mining lease	

4c	Number of dumps within lease area and outside of lease area	Two dumps within the lease area	Two dumps within the lease lease	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumps to be developed outside the UPL	Dumps developed outside the UPL	
4e	Number of active and alive dumps.		Two active dumps	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	No prosposal	No dumps established during the year 2020-21	
4h	Whether Retaining wall or garland drain all along dumps are there.	and garland	Retaining wall and garland drain maintained along the dumps.	
4i	Length of Retaining wall or garland drain all along dumps	-	Retaining wall and garland drain maintained along the dumps.	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management			Two dumps developed in the northen and southern side of the lease area.

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.	No proposal during the year 2020-21	Nil	
5b	Area under backfilling of mined out area	No proposal during the year 2020-21	Nil	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal during the year 2020-21	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal during the year 2020-21	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.		

The pit is not mined out upto its ultimate pit limit to start backfilling.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	To be submitted	Submitted	
бb	Area available for rehabilitation (ha) .	No proposal	Nil	
бс	afforestation done (ha).	2020-21 - 0.1927 На	2020-21 - Nil	No plantation done as per the proposal. Violation issued as per rule.
6d	No. of saplings planted during the year	2020-21 - 385 Nos.	2020-21 - Nil	
бе	Cumulative no .of plants	No proposal	Nil	
6f	Any other method of rehabilitation	No proposal	Nil	
бд	Cost incurred on watch and care during the year	No proposal	Nil	

6h Compliance on No proposal Nil reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx ВхD бi Compliance on No proposal Nil reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings бj Compliance on No proposal Nil reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area 6k Compliance on No proposal Nil reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir 61 Compliance on No proposal Nil reclamation and rehabilitation by backfilling (v)any other specific means. бm Compliance of No proposal Nil rehabilitation of waste land within lease (i)afforestation бn Compliance of No proposal Nil rehabilitation of waste land within lease (ii)Area rehabilitation (ha)

60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil	
бр	Compliance of environmental monitoring (core zone and buffer zone)	environmental monitoring of	, , , , , , , , , , , , , , , , , , ,	
бq	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Plantation not carried out in the year 2020-21 as per proposal made in the approved mining plan. Violation issued as per rule.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal	Nil	
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	No proposal	Nil	
7c	Different grade of mineral sorted out at mines.	No proposal	Nil	
7d	Any beneficiation process at mines	No proposal	Nil	

7e General remarks of inspecting officer on Mineral conservation and beneficiation issues Proposed recovery of usable mineral from ROM production was 70 % whereas 100% recovery made from the ROM produced the year 2020-21.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	during the	Nil	
8b	Concurrent use or storage of topsoil	No proposal during the year 2020-21	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate dumps proposed for ovderburden	Seperate dumps maintained for overburden	
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)	No proposal	Nil	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	385 Nos. plantation propsed with an area of 0.1927 Ha during the year 2020-21	No plantation done during the year 2020-21	
8g	Survival rate	85%	Nil	
8h	Water sprinkling on roads to control airborne dust	proposed to	lease area.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The general aesthetic beauty is satisfactory in nature.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	and monthly returns to be	Annual and monthly returns submitted in time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Manager - Sri. Subashish Bose Mining Engineer - Sri. Ravider Reddy Geologist - Sri. B.Sadashiva Rao	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Ha Plantation - 9.3 Ha	Same as submitted.	

9d	Scrutiny of Annual return on afforestation	Nil	Nil
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	-	Total overhead cost, depreciation are not matching with the cost per tonne calculation. Advised to correct the annual returns since it has been referred back by the MMS division.
9h	Scrutiny of Annual return on fixed assets	reported by the lessee in	Annual returns referred back to the lessee by the MMS division. Advised to correct the fixed assets details.
9k	Scrutiny of Annual return on mining machineries	Drill machine - 01 Nos. Hydraulic shovel - 1 Nos. Dumper - 4 Nos.	All proposed machineries found in the mining area.

Details of violations observed during current inspection and compliance position of violation pointed out					
Violatior	n observed	Show couse position			
Rule NO.	Issued on Compliance or	n Rule NO.	Issued on Compliance on		
MCDR17 Rule 11(1)	06-SEP-21				

Date :

(MADHU SUDHAN YADAV M)

Indian Bureau of Mines