INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

Mining Plan Modification REPORT

Hyderabad regional office

	Mine :	file No : AP/KSN/LST-1	.5/I	HYD Mine code : 38APR10015
	(i)	Name of the Inspecting Officer and ID No.	:	KQ07) SHAIVAL KARTIKEYA
	(ii)	Designation	:	Senior Mining Geologist
	(iii)	Accompaning mine Official with Designation	:	Shri P. Jani Reddy, Agent (Mines) and Shri P. S. Murt
	(iv)	Date of Inspection	:	07-SEP-21
	(v)	Prev.inspection date	:	18-SEP-18
		PA	RT-	I : GENERAL INFORMATION
1.	(a)	Mine Name	:	JAYANTHIPURAM MS NO 71
	(b)	Registration NO.	:	IBM/638/2011
	(c) (d) (e) (f) (g) (h)	Category Type of Working Postal address State District Village Taluka Post office Pin Code FAX No. E-mail Phone Police Station First opening date Weekly day of rest		
2.		ess for espondance	:	JAYANTIPURAM LIMESTONE MINE JAYANTIPURAM, CHILLAKALLU (M) KRISHNA DIST.
3.	(a) (b) (c) (d)	Lease Number Lease area Period of lease Date of Expiry	:	APR0125 18.64 20 19-AUG-11
4.	Miner	ral worked	:	LIMESTONE Main

5.	Name	and Address of Lessee	the :	KUMARASWA	54-224400	
		Owner	:	AURAS COR FLOOR, Dr ROAD,MYLA CHENNAI C Phone: 044	ATRAMA RAJA PORATE CENTRE, Vth .RADHAKRISHNA PORE, CHENNAI ITY TAMIL NADU 4-28478666 4-28478676	
		Agent	:	KUMARASWA JAYATNTHI DISTRICT PRADESH Phone: 086	DDY MY .RAJA.NAGAR, PURAM KRISHNA KRISHNA ANDHRA 554-224400 554-222532	
		Mining Engine	er			
		Name	:	KHAJA ASH	RAF ALI,Full Time	
		Qualification			g)	
		Appointment/ Termination da		01-AUG-17		
		Geologist				
		Name			RAYANA MURTHY,Full Time	
		Qualification				
		Appointment/ Termination da		11-JUN-92		
		Manager				
		Name	:		SWARA REDDY	
		Qualification Appointment/	:	FCC		
		Termination da		01-AUG-17		
б.		of approval of Scheme of Minin		ng :	Renewal under rule 22 MCR1960 Modif.of approved Mining Plan Renewal under rule 24 MCR1960 Modif.approved Mining Scheme MP modif under 17(3) MCR 2016 MP review under 17(1) MCR 2016	13-MAY-02 18-JUN-03 07-APR-06 17-OCT-14 22-SEP-16 08-JAN-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	F.Y. 2020-21: 05 nos. of DTH boreholes up to the 20 to 30 meters each.	F.Y. 2021-22: 05 nos. of DTH boreholes have been drilled with the cumulative depth of 60.0 meters.	
lb	Exploration over lease area for geological axis i or 2	No proposal has been l given in the approved document.	As per the last approved document the entire mining lease area has been explored under G1 level.	. –
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not mentioned in the approved document.	M/s The Ramco Cements Limited. Expenditure: Rs. 54295/-	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal has been given in the approved document.	The entire mineralized area 156.54 Ha. has already explored in G1 level.	-
1e	Balance reserve as on 01/04/20	As on 01/04/2021 Under (111): 35.904 Million Tonnes	As on 01/04/2021 Under (111): 36.026 Million Tonnes	-
lf	General remarks of inspecting officers on geology, exploration etc		Limestone deposit within the lease area forms part of Proterozoic Palnad Sub-basin equivalent of Narji Limestone formation of Kurnool Group. These carbonate rocks were formed by sedimentary origin. Only vertical strike joints and solution cavities existing and filled with yellow clay.	undulating with surface reduce level varying from 13 m above MSL along the central part of the mining lease to a maximum elevation of 73m at the peak of a small hill located in the south-

Development :

Sl.No.	Item	Propasals	Actual work	Remarks

2a	Location of development w.r.t.lease area		F.Y. 2020-21: In between UTM co- ordinates N1865500 to N1864550 and E405450 to E405600 (In between section line ML 11.5 to 18.5)	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposal has been given in the approved document for separate benching of Topsoil/Overbu rden and Mineral/Ore OB/Waste: 04 nos. Mineral/Ore: 04 nos.	Separate benching of Topsoil/Overburden and Mineral/Ore have been maintained OB/Waste: 04 nos. Mineral/Ore: 04 nos.	-
2c	Stripping ratio or ore to OB ratio	1 : 0.14	1 : 0.15	-
2d	Quantity of topsoil generation in m3	No topsoil will be generated during Review period.	Not applicable.	-
2e	Quantity of overburden generation in m3	276780.00 CuM	264522.2 CuM (Insitu) 2618.10 CuM (Old Dump)	-
2£	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The development and production is being done through fully mechanized means.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks

3a	Number of pit proposed for production	01 no.	01 no.	_
3b	Quantity of ROM mineral production proposed	1905121.00 Metric Tonnes	1780655.00 Metric Tonnes	-
3c	Recovery of sailable/usable mineral from ROM production	82%	79%	-
3d	Quantity of mineral reject generation	No mineral reject will be generated during Review period.	Not applicable.	-
3e	Grade of mineral rejects generation and threshold value declared.	in the approved	Not applicable.	-
3f	Quantity of sub grade mineral generation.	F.Y. 2020-21: 103687.00 Metric Tonnes	F.Y. 2020-21: 84763.00 Metric Tonnes	-
3g	Grade of sub grade mineral generation	Above 34% CaO to below 41% CaO	Above 34% CaO to below 41% CaO	-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized screening and crushing have been proposed in the approved document for sizing of ROM in to -70 mm	Mechanized screening and crushing is being done for sizing of ROM in to -70 mm	-
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No beneficiation study has been proposed during Review period.	Not applicable.	-

Зi Provision of OB/Waste: OB/Waste: drilling and Dia.: 115 mm Dia.: 115 mm blasting in Burden: 3.5 m Burden: 3.5 m to 4.5 m mineral benches to 4.5 m Spacing: 5.0 m to 6.0 m Spacing: 5.0 m Depth: 8.0 m to 9.0 m to 6.0 m Depth: 8.0 m Mineral/Ore: to 9.0 m Dia.: 115 mm Burden: 3.0 m to 3.5 m Mineral/Ore: Spacing: 4.0 m to 5.0 m Dia.: 115 mm Depth: 8.0 m to 9.0 m Burden: 3.0 m to 3.5 m Spacing: 4.0 m to 5.0 m Depth: 8.0 m to 9.0 m 3k Provision of 1. Backhoe 1. Backhoe Excavator 02 Details of the mining Excavator 03 nos. with 2.0 CuM bucket machinery used for machineries in nos. with 2.0 capacity dewatering has not mineral benches 2. Dozer 01 no. with 180 been included. CuM bucket capacity HP capacity Deviation has been 2. Tippers 09 3. Tippers 10 nos. with pointed out. nos. with 20 16 Metric Tonnes Metric Tonnes capacity capacity 4. Air Compressor 01 no. 3. Cabin Drill with 12.74 CuM/Mn 5. Blast Hole Drill 01 01 no. with 115 mm dia bit no. with 115 mm dia and 550 CFM 6. Water Tanker 01 no. air compressor with 10000 liters 4. Bull Dozer capacity 01 no. with 320 HP capacity 5. Water Tanker 01 no. with 10000 liters capacity 6. Jeep 01 no. 7. Service Van 01 no. 8. Explosive Van 01 no. with 9.64 tonnes capacity

31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	- 08 meters Ore/Mineral:	Overburden: 04 - 08 meters Ore/Mineral: 06 - 08 meters	-
3m	Total area covered under excavation/pits	95.85 Ha. up to end of F.Y. 2024-25	92.00 Ha. up to end of F.Y. 2020-21	-
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.14	1 : 0.15	-
30	Total area put in use under different heads at the end of year	35.80 Ha.	Waste/reject- 36.61 Ha. Others- 100.63 Ha.	Deviation for excess utilization of the area has been pointed out.
3p	Production of ROM mineral during the last five year period as applicable	1415899.00 Metric Tonnes Yr. 2018-19: 1875300.00	Metric Tonnes Yr. 2018-19: 1778440.00	_
3q	General remarks of inspecting officers on method of mining etc.			Mining is being done through the opencast method with fully mechanized means using conventional method of drilling and blasting.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks

4a Separate dumping Separate Separate dumping of of topsoil, OB OB/Waste, Mineral Subdumping of and mineral grade and Mineral/Ore OB/Waste, rejects (Rule Mineral subare being done in the 32,33) grade and earmarked locations. Mineral/Ore has been proposed in the earmarked locations. 4b Location of Within lease Within lease area in topsoil, OB and area in between UTM co-ordinates mineral reject between UTM dumps co-ordinates Overburden/Waste (Backfilling in Pit No. Overburden/Was 1): N1865265 to N1865455 and E405330 to E405495 te (Backfilling in Pit No. 1): Mineral Sub-grade (Dump No. 4): N1865455 to N1865265 to N1865455 and N1865525 and E406145 to E405330 to E406280 E405495 Mineral/Ore: N1865875 to N1866150 and E404805 to Mineral Sub-E405170 grade (Dump No. 4): N1865455 to N1865525 and E406145 to E406280 Mineral/Ore: N1865875 to N1866150 and E404805 to E405170 4c Number of dumps OB/Waste: 04 OB/Waste: 04 nos. within lease Mineral Sub-grade: 01 nos. area and outside Mineral Subno. of lease area grade: 01 no. Mineral/Ore: 01 no. Mineral/Ore: 01 no.

4d Location of Beyond Beyond ultimate pit dumps w.r.t. ultimate pit limit limit ultimate pit OB/Waste Dump: Dump No. limit (Rule 16) OB/Waste Dump: 1, 2 and 3 Dump No. 1, 2 and 3 Within ultimate Pit limit: Mineral Sub-Within grade: 01 no., ultimate Pit Mineral/Ore: 01 no. limit: Mineral Sub-grade: 01 no., Mineral/Ore: 01 no. 4e Number of active Active and Active and alive: and alive dumps. alive: OB/Waste: 01 no. OB/Waste: 01 Mineral/Ore: 01 no. no. Mineral Sub-grade: 01 Mineral/Ore: no. 01 no. Mineral Subgrade: 01 no. 4f Number of dead OB/Waste: 03 OB/Waste: 03 nos. dumps. nos. Number of dumps Dump no. 1, 2 Dump no. 1, 2 and 3 4q established. and 3 Situated Situated in between UTM in between UTM co-ordinates co-ordinates OB Dump No. 1: N1866000 OB Dump No. 1: to N1865750 and E405400 to E405850 N1866000 to N1865750 and E405400 to OB Dump No. 2: N1864800 E405850 to N1865400 and E406400 to E406900 OB Dump No. 2: N1864800 to OB Dump No. 3: N1864500 N1865400 and to N1864800 and E406400 E406400 to to 406600 E406900 OB Dump No. 3: N1864500 to N1864800 and E406400 to 406600

4h	Whether Retaining wall or garland drain all along dumps are there.	Proposal has been given in the approved document for construction of (1) 600 meters Retaining Bund along inactive dumps. (2) Garland Drain all along the waste dumps.	(1) Retaining Bunds has not been constructed.(2) Garland Drain has been constructed all along the waste dumps.	Deviation has been pointed out. Revised Proposal has been incorporated in the Modified Mining Plan.
4i	Length of Retaining wall or garland drain all along dumps		Retaining Bunds: Not constructed Garland Drain: Approx. 3838.0 m x 2.0 m x 1.5 m	-do-
4j	Number of settling ponds	No proposal.	NIL	-
4k	Specific comments of inspecting officer on waste dump management			A certain quantity of limestone and over size boulders of limestone have been dumped along with the waste rock in the mined out pit for reclamation and rehabilitation. Deviation has been pointed out.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks

Backfilling is being 5a Status of part Backfilling or full done in between UTM cohas been extraction of proposed in ordinates N1865265 to mineral from the partly N1865455 and E405330 to mined out area mined out Pit E405495 before starting No. 1 with the backfilling. 276780 CuM of waste over 1.25 ha. area in between UTM co-ordinates N1865265 to N1865455 and E405330 to E405495 Pit No. 1: 5b Area under Pit No. 1: 0.85 Ha. area backfilling of 1.25 Ha. area has been backfilled with the 267140.30 CuM of mined out area will be backfilled Waste/Overburden. with 276780 CuM of Waste/Overburd en. 5c Concurrent use No topsoil Not applicable. of topsoil for will be restoration or generated rehabilitation during Review of mineral out period. area (Rule 32) 5d Total area 14.68 Ha. 14.28 Ha. fully reclaimed and rehabilitated 5e General remarks NIL of inspecting officers on backfilling and reclamation etc.

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).	Submitted before due date.	Information has been cross verified during inspection.	No major deviation has been found.

6b	Area available for rehabilitation (ha) .	No proposal.	NIL	-
бс	afforestation done (ha).	No proposal.	NIL	-
6d	No. of saplings planted during the year	No proposal.	NIL	-
бе	Cumulative no .of plants	No proposal.	NIL	-
6f	Any other method of rehabilitation	No proposal.	NIL	-
бg	Cost incurred on watch and care during the year	No proposal.	NIL	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	60.90 m x 20 m (2) 101.5 m x	(2) 175. 22 m x 22.0 m x	_
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	276780.00 CuM	267140.30 CuM	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	0.20 На.	0.20 На.	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	NIL	_

61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not any.	Not any.	_
бm	Compliance of rehabilitation of waste land within lease (i)afforestation	500 nos.	1200 nos.	Plantation has been done over Dump no. 2 and 3
бn	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.30 Ha.	0.30 Ha.	-
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	By Plantation	By Plantation	-
бр	Compliance of environmental monitoring (core zone and buffer zone)	Proposal has been given in the approved document for regular monitoring of the environmental parameters in the core and buffer zone.	Being done as per proposal.	All the parameters are within the prescribed limit.
бq	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			NIL

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral with above 41% CaO will be dispatched to the crusher. Mechanised sorting with shovel has been proposed for segregation of Ore/Mineral from ROM at pit head.	Before dispatch of the Ore/Mineral to the crusher, segregation is being done at pit head.	-
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Mecahnised sorting with the help of excavator has been proposed in the approved document.	Being done as per proposal.	-
7c	Different grade of mineral sorted out at mines.	ROM mineral with above 41% CaO will be sorted out at pit head before dispatch.	Being done as per proposal.	-
7d	Any beneficiation process at mines	No beneficiation study has been proposed in the approved document.	Not Applicable. Dry crushing and screening for -70 mm ore is being done within lease area.	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			NIL

Environment:

Sl.No. Item

Propasals

Actual work

Remarks

8a Separate removal No topsoil Not applicable. and utilization will be of topsoil (Rule generated 32) during Review period. No proposal. 8b Concurrent use NIL or storage of topsoil 8c Separate dumps Separate Separate dumping of OB/Waste, Mineral subfor overburden, dumping of waste rock, OB/Waste, grade and Mineral/Ore rejects and Mineral subare being done in the fines (Rule 33) grade and earmarked locations. Mineral/Ore Within lease area in between UTM co-ordinates has been proposed in the earmarked Overburden/Waste locations. (Backfilling in Pit No. Within lease 1): N1865265 to N1865455 and E405330 to E405495 area in between UTM Mineral Sub-grade (Dump co-ordinates No. 4): N1865455 to Overburden/Was N1865525 and E406145 to te E406280 (Backfilling in Pit No. 1): Mineral/Ore: N1865875 to N1865265 to N1866150 and E404805 to N1865455 and E405170 E405330 to E405495 Mineral Subgrade (Dump No. 4): N1865455 to N1865525 and E406145 to E406280 Mineral/Ore: N1865875 to N1866150 and E404805 to E405170

8d Use of Proposal has Backfilling with the overburden, been given in 267140.30 CuM of waste rock, the approved waste/overburden over rejects and document for 0.85 Ha. mined out area fines dumps for backfilling has been done for restoration of the land. restoring the with the 276780.0 CuM land to its original use of waste/overburd en over 1.25 Ha. mined out area for restoration of the land. 8e Phased 500 nos. of 1200 nos. of saplings restoration, saplings will have been planted in reclamation and be planted in 0.30 Ha. over the rehabilitation 0.30 Ha. over backfilled area for of lands the backfilled ground restoration. affected by area has been mining proposed under operations phased (Pits, dumps restoration. etc) 8f Baseline 500 nos. of 1200 nos. of saplings information on saplings will have been planted in be planted in 0.30 Ha. over the existence of 0.30 Ha. over backfilled area. plantation and additional the backfilled plantation done area. (Rule 41) Survival rate 85% 8g Approx 85% 8h Water sprinkling Proposal has Being done as per on roads to been given in proposal. control airborne the approved dust document for water sprinkling on roads to control airborne dust through the water tanker. 8i General remarks NIL of inspecting officer on aesthetic beauty in and around mines area

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M. R. Submitted up to August 2021 A. R. Submitted up to F.Y. 2020- 21	NIL	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	P. Vidya Kiran Mining Engineer: Shri	Mining Engineer: Shri P.	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Waste/reject- 36.61 Ha. Others- 100.63 Ha.	Pit- 92.00 Ha. Waste/reject- 36.61 Ha. Others- 100.63 Ha. Up to end of F.Y. 2020- 21	Deviation for excess utilization of the area has been pointed out.
9d	Scrutiny of Annual return on afforestation	Within lease area: 2720 nos. with 85% survival rate Outside lease area: 3610 nos. with 97% survival rate.	Within lease area: 2720 nos. with 85% survival rate Outside lease area: 3610 nos. with 97% survival rate.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral Reject: 84763.00 metric tones Grade: Below 34% CaO.	Incorrect nomenclature has been done for Mineral Reject. Grade: above 34% CaO to below 41% CaO.	Deviation has been pointed out.

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: 134270.000 Metric Tonne	Cement Grade Limestone: NIL	ROM Ore and the Graded Cement Grade Limestone are similar. Incorrect reporting for closing stock of graded ore has been done. Deviation has been pointed out.
9g	Annual return on	NIL Ex-Mine Price: Rs. 181.62 Per	Sale Value: NIL Ex-Mine Price: Rs. 181.62 Per Metric Tonne Cost of Production: 181.62 Per Metric Tonne	NIL
9h	Scrutiny of Annual return on fixed assets	Rs. 52882397.00	Rs. 52882397.00	NIL
9k	Scrutiny of Annual return on mining machineries		Cross verified from the field logbooks.	NIL

Details of violations observed during current inspection and compliance position of violation pointed out				
Violatio	n observed	Show c	ouse position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on	
MCDR17 Rule 11(1)	23-SEP-21			
MCDR17 Rule 45(7)(a)23-SEP-21				

Date :

(SHAIVAL KARTIKEYA)

Indian Bureau of Mines