INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/KTN/LST-65 Mine code : 38MPR47026 (i) Name of the Inspecting : SQ05) DEEPAK SHARMA Officer and ID No. (ii) Designation : Senior Mining Geologist (iii) Accompaning mine : Official with Designation (iv) Date of Inspection : 04-FEB-20 (v) Prev.inspection date : 07-FEB-19

PART-I : GENERAL INFORMATION

1.	(a)	Mine Name	:	АМЕНТА
	(b)	Registration NO.	:	
	(C)	Category	:	A Other than Fully Mech.
	(d) (e)	Type of Working Postal address	:	Opencast
		State	:	MADHYA PRADESH
		District	:	KATNI
		Village	:	AMEHTA
		Taluka	:	V.GARH
		Post office	:	KAHANGAON
		Pin Code	:	
		FAX No.	:	N. A.
		E-mail	:	N. A.
		Phone	:	N. A.
	(f)	Police Station	:	VIJARAHHOGARH
	(g)	First opening date	:	06-MAR-76
	(h)	Weekly day of rest	:	SUN
2.	Addr	ess for	:	SHRI RANJAN GROVER
	corr	espondance		CIVIL LINES, KATNI (M.P.) 483501
3.	(a)	Lease Number	:	MPR1368
	(b)	Lease area	:	18.33
	(C)	Period of lease	:	20
	(d)	Date of Expiry	:	05-MAR-16
4.	Mine	ral worked	:	LIMESTONE Main

5.	Name and Address of	the		
	Lessee	:	RANJAN GROVER	
			CIVIL LINES KATNI MADHYA	
			PRADESH	
			Phone:N. A.	
			FAX :N. A.	
	Owner	:	RANJAN GROVER	
			CIVIL LINES KATNI MADHYA	
			PRADESH	
			Phone: N. A.	
			FAX : N. A.	
6.	Date of approval of	Mini	ng : Renewal under rule 22 MCR1960	05-JUL-96
	Plan/Scheme of Minim	ng	Mining Scheme rule 12 MCDR1988	14-FEB-03
			Modif.of approved Mining Plan	10-MAR-05
			Mining Scheme rule 12 MCDR1988	28-MAR-12
			Mining Scheme rule 12 MCDR1988	22-APR-14
			Renewal under rule 24 MCR1960	24-DEC-14

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	no exploration proposed during the reporting year 2019-20	no exploration work carried out in the reporting year 2019–20	
1b	Exploration over lease area for geological axis 1 or 2	explored upto	ML area already explored upto G1 level	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Mentioned	No exploration work carried out durign the year	
1d	Balance area to be explored to bring Geological axis in 1 or 2	ML already explored upto G1 level	ML already explored upto G1 level	
1e	Balance reserve as on 01/04/20	as on 01.04.2014 111-2329239 211-1143125	as on 01.04.2020 121-3348853 211-1472725	units are in tonnes
lf	General remarks of inspecting officers on geology, exploration etc			ML area belongs to rohtas formation of vindhyan super group, in the kymore hill region, hard and compact in nature, light grey to dark grey coloured limestone, shale patches found as interbeds
Deve	elopment :			
Sl.No.	Item	Propasals	Actual work	Remarks

Location of workign was as per the 2a it was proposal with slight development proposed to w.r.t.lease area work in the variation in maintaning central part the bench widths of the ML area in the quarry-1, advancement towards the eastern direction and trimming of benches of western side 2b Separate benches proposed separate benches in topsoil, proposed in the soil of overburden and 1-2 meter and mineral minerals (Rule benhces of 6-8 meter 15) Stripping ratio 2c 1:0.57 1:0.35 or ore to OB ratio 2d Quantity of 6600 cu m 1000 cu m topsoil generation in m3 2e Quantity of 16420 cu m 9500 cu m overburden generation in m3 2f General remarks working was in the of inspecting said location with officers on deviation in development of progress pit w.r.t. type of deposit etc

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	two pits	two pits quarry 1 and quarry 2	
3b	Quantity of ROM mineral production proposed	100200	74360	units in tonnes

3c Recovery of 80% 75-80% aproxx sailable/usable mineral from ROM production 3d Quantity of Not Proposed Nil no mineral reject mineral reject generated only waste / generation OB 3e Grade of mineral not proposed nil rejects generation and threshold value declared. 3f Quantity of sub not proposed nil, threshld value grade mineral considered as 34% CaO generation. Grade of sub not proposed lower limit of threshold 3q grade mineral considered to be used generation 3h Manual / mechanical method mechanical Mechanised method adopted i.e. screening method adopted proposed furtherly sizing for segregating from ROM 3i Any analysis or not proposed nil beneficiation study proposed and carried out for sub grade mineral and rejects. Зi Provision of proposed as per approved mining drilling and plan small dia holes blasting in mineral benches 3k Provision of proposed HEMM is being used in mineral benhces for mining machineries in excavation and mineral benches trasportaion of mineral Whether height as per approved mining 31 suitable of benches in plan height & width of overburden and benches are suitable for mineral suitable mining opencast for method of mining proposed in MP/SOM 3m Total area 8.90 8.56 hect covered under excavation/pits

3n	Ore to OB ratio	1.0 57	1:0.35	
JII	for the pit/mine during the year.	1.0.37	1.0.35	
30	Total area put in use under different heads at the end of year	13.04	12.65 hect	
Зp	Production of	2015-16=104340	2015-16=99924	units are in
	ROM mineral	2016-	2016-17=99548	tonnes
	2			
	five year period			
	as applicable	2019-20=100200	2019-20-74360	
Зq	General remarks			opencast
	of inspecting			mechanised method
	officers on			mining adopted in
	method of mining etc.			the ML, HEMM is being used in the
				mineral benches
				for excavation and
				transportaio of
				the mineral ,
				threshold considred as CaO
				34% prescribed by
				IBM

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposed	Seperate dumps of waste and soil located in the ML	
4b	Location of topsoil, OB and mineral reject dumps	proposed	waste dumps are located in the southern part of the ML and Soil dump located in the northern part of the ML	
4c	Number of dumps within lease area and outside of lease area	4- dumps within the ML	4-dumps are located within the ML	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside the UPL	outside the UPL	
4e	Number of active and alive dumps.		4-active dumps	
4f	Number of dead dumps.	not proposed	nil	
4g	Number of dumps established.	not proposed	nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	proposed	100*1*1 retaining wall prepared along the waste dump of northern part of ML area	
4i	Length of Retaining wall or garland drain all along dumps	proposed	100*1*1 retaining wall prepared along the waste dump of northern part of ML area	
4j	Number of settling ponds	not proposed	nil	
4 k	Specific comments of inspecting officer on waste dump management			retaining wall prepared along the waste dump, separate dumping for soil and waste located within the ML 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.	full extraction proposed	full extraction of mineral under process	
5b	Area under backfilling of mined out area	3.36	0.5 hect	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	proposed	soil is used in planttaion over backfilled are and barrier zone	
5d	Total area fully reclaimed and rehabilitated	3.36	0.5 hect	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			backfilling not achieved as per the proposal due to lack of waste generation.

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).	Proposed	not submitted	
6b	Area available for rehabilitation (ha) .	3.36	0.5	
6c	afforestation done (ha).	3.36	0.5	
6d	No. of saplings planted during the year	10	10	
бе	Cumulative no .of plants	500	250-300	
6f	Any other method of rehabilitation	Not Proposed	nil	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
		-		

7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch proposed	ROM is being dispatched to the Screeners and crushers installed on private land of ML holder adjacent to the ML
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	mechanical methos	mechanical method adopted for grade wise sorting with the use of screeners
7c	Different grade of mineral sorted out at mines.	proposed	Adjacent to the ML area
7d	Any beneficiation process at mines •	Not Proposed	nil

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	propsoed	generated soil is being used in plantation	
8b	Concurrent use or storage of topsoil	proposed	soil is being used for plantation without storing	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	separate dumps located in the ML area for waste and OB	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed	OB waste is being used in backfilling of fully extracted area	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	as per prosal in approved mining plan	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	as per approved mining plan	
8g	Survival rate	80%	60%	
8h	Water sprinkling on roads to control airborne dust	proposed	with the use of water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			needs improvemenst in terms of plantation and maintanance

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	submitted	AR submitted upto 2020- 21 MR submitted upto Oct 2021	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	furnished	Mining Engineer in charge MANOJ KUMAR RAI	

9c Scrutiny of furnished Annual return on land use pattern for area under pits, reclaimed area, dumps etc.

9d Scrutiny of furnished Annual return on afforestation Lease area (surface area) utilisation as at the end of year (hectares) Under forest Outside forest Total (i) Already exploited & abandoned by opencast (O/C) mining 0.000 1.400 1.400 (ii) Covered under current (O/C) Workings 0.000 7.250 7.250 (iii) Reclaimed/Rehabilitated 0.000 0.750 0.750 (iv) Used for waste disposal 0.000 2.330 2.330 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 1.710 1.710 (vi) Other Purpose (Green belt) 0.000 1.870 1.870 (vii) Work done under Number of trees planted during the year 10 0(ii) Survival rate in percentage 80.00 0

9e Scrutiny of furnished Annual return on mineral reject generation (Grade and quantity)

9f Scrutiny of furnished Annual return on ROM stock and/or graded ore

9g Scrutiny of furnished Annual return on sale value, Ex. Mine price and production cost

9h Scrutiny of furnished Annual return on fixed assets Grades Opening stock at mine head (in tonne) Production (in tonne) Dispatches from mine head (in tonne) Closing stock at mine head (in tonne) Ex-mine price (in . Per Tonne) (a) LD 0.000 0.000 0.000 0.000 0.00 (b) SMS 152.682 74360.000 72440.925 2071.757 346.50 (c) Chemical 0.000 0.000 0.000 0.000 0.00 (d) BF 0.000 0.000 0.000 0.000 0.00 (e) Cement 0.000 0.000 0.000 0.000 0.00 Category Opening stock (in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 0.000 74360.000 0.000 (b) Underground Workings 0.000 0.000 0.000 (c) Dump Workings 0.000 0.000 0.000 ex mine price 346.50 INR cost of production 227.83 Value of Fixed Assets (inr) 7443709

(in respect of the mine, beneficiation plant, mine work-shop, power and water installation)

9k	Scrutiny of Annual return on mining machineries	furnished	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) FRONT END LOADER 1.200 CUM 1 Non Electrical Opencast DUMPER 10.000 TONNE 2 Non Electrical Opencast DUMPER 16.000 TONNE 2 Non Electrical Opencast WATER TANKER 5000.000 LITRE 1 Non Electrical Opencast PUMPS (NON-ELEC.) 0.000 L/MN 1 Non Electrical

Details of violations observed during current inspection and compliance position of violation pointed out						
Violation observed			Show couse position			
Rule NO.	Issued on	Compliance on	Rule NO	. Issued on Compliance on		

Date :

(DEEPAK SHARMA)

Indian Bureau of Mines