

## MCDR INSPECTION REPORT

## General

S. N.	Particulars	Details
1	Name of the Mine	<i>Ghursal Limestone mines</i>
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	<i>area 4.90 hectare Non forest land 147/1=4.90ha</i>
3	Minecode	38MPR12014
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/9173/2012
5	Name of the lessee, Address, phone, email and fax number	<b>Shri Vipin T. Gangwal</b> , Village Ghursal, At & post:47, Main Road, Manawar, District Dhar (M.P.)9893540841 <b>vipulgangwal@yahoo.com</b>
6	Village	Ghursal
7	Taluka/Mandal	Gandhwani
8	District	Dhar
9	Pincode	-
10	State	MP
11	Post office	Gandhwani
12	Nearest police station	Gandhwani
13	Nearest Railway station	Indore
14	Date of Grant of Mining Lease	03-3-1981
15	Date of Execution	03-3-1981
16	Date of opening of Mine	01-4-1981
17	Date of first Renewal, if applicable and its period & expiry	03-3-1991 to 02-03-2011
18	Date of second Renewal, if applicable and its period & expiry	03-3-2011 to 02-03-2031
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	One year before the lapse of period
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	<b>Shri Vipin T. Gangwal</b> , Village Ghursal, At & post:47, Main Road, Manawar, District Dhar (M.P.)9893540841 <b>vipulgangwal@yahoo.com</b>
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	<b>Shri Vipin T. Gangwal</b> , Village Ghursal, At & post:47, Main Road, Manawar, District Dhar (M.P.)9893540841
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Suraj Jaiswal c/o <b>Shri Vipin T. Gangwal</b> , Village Ghursal, At & post:47, Main Road, Manawar, District Dhar (M.P.)9893540841 <b>01-4-2008</b>
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	-
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	-
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	<i>M.plan for 4.90ha (for renewal of mining lease) approved vide letter no. Dhar/LST/M.Plan-93/NGP DATED 30/08/2013</i>
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	<i>SOM approval vide letter no. Dhar/LST/M.Plan-93/NGP DATED 19-6-2009</i>
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Open cast, Underground)	Open cast
29	Category (Fully Mechanised, Others or Manual)	B MANUAL
30	Captive/Non Captive	NON CAPTIVE

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

## Exploration

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	0.040ha additional area and cumulative area was 0.897ha was proposed to develop with three benches, first bench was proposed in thin top soil and coralline limestone (up to 2m) then two production benches of 2.5m each was proposed in limestone.	<b>Achievement</b> : (2009-10 to 2011-12)  As on date cumulative area is degraded for 2.6375ha with one development cum production bench for 5-7m height.	
		As on 01-4-2012 about 2.6375ha area was developed and approx 1.0945ha was proposed to be developed 31-3-2016	During the period approx 1. ha area has been developed and cumulate are is 3.70HA	
1b	Exploration over lease area for Geological axis 1 or 2.	G2 proposal for 02 bore holes to convert in to G1 status	Not done	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not applicable	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	4.90	NA	
1e	Balance reserves as on 01.04.20...	156050-52000=104050T		
1f	General remarks of inspecting officer on geology, exploration etc.	Coralline limestone should be tested and worked out for its market	Violation for exploration	As the case transferred to Jabalpur Regional Office after the inspection, necessary actions may be taken at their end.

## Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	10945m <sup>2</sup>	100000	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	2.5M BECNH WAS PROPOSED IN OB	1-2M HT BENCH DEVELOPED	
2c	Stripping ratio or ore to OB ratio	1:0.6-1:5	Average ration is 1:0.95	
2d	Quantity of topsoil generation in m3	No top soil	No top soil	
2e	Quantity of overburden generation in m3	39898m3	30000m3	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Bedded type of deposit of Bagh beds	The area is having small mounds that contain Limestone. The lease area is surrounded by leases of M/s Polyport Cements and leases of Shri Anil Sharma, private land and surrendered land under FMCP from the lessee out of total 7.50 ha lease area originally granted. Lessee is carrying out developments as per the proposals.	

## Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	90150t	52000t	
3c	Recovery of salable/usable mineral from ROM production	80%	95%	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral reject generation and threshold value declared	NA	NA	
3f	Quantity of sub-grade mineral generation	NA	NA	

SN	Item	Proposals	Actual work	Remarks
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed	not done	
3j	Provision of drilling & blasting in mineral benches	Jack Hammer	Jack hammer	
3k	Provision of mining machineries in mineral benches	Not proposed	As per proposal	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes	As per proposal	
3m	Total area covered under excavation/pits	2.6375ha+1.0945ha	3.7ha	
3n	Ore to OB ratio for the pit/mine during the year	1.:0.6 to1:5.	Average ration is 1:0.95	
3o	Total area put in use under different heads at the end of year	3.5309ha+1.107ha=4.6379ha	4.60ha	
3p	Production of ROM mineral during last five-year period, as applicable	90150t	52000t	
3q	General remarks of inspecting officer on method of mining etc.	Mineral is occurring from the surface level. Also, grade is very good. Thus there is no generation of sub-grade or mineral rejects. Earlier, coralline Limestone occurring at the top is considered to be overburden but this also contains more than 40% CaO as per physical observations. Thus the same should be covered under ROM instead of overburden after necessary analysis and studies. The same was suggested to the lessee during field inspection. Limited blasting is being done to avoid any harm to local people residing near the mine on private land.		

#### Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	NO top soil only OB 55598m <sup>3</sup> cumulative quantum proposed to be dumped over 1.23ha	NO top soil generated As such only one dump 44000m <sup>3</sup> dumped over an area of 0.4ha	
4b	Location of topsoil, OB & mineral reject dumps	N/S/E	Seen southern part	Dumps are outside pit limits on the non-mineralized land. Outside the lease area-dumping is not allowed and apart from 7.5 m non-mining zone, whole area is pit limit due to occurrence of mineral.
4c	Number of dumps within lease area and outside lease area	4+1=5	1	Within lease area, one dump.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Are proposed in 7.5m and non mineralized area	In non mineralized area	
4e	Number of active & alive dumps	1 inactive +4 temp. inactive	1INACTIVE	Small dumps besides the pit/excavation for manually sorting the mineral contents.
4f	Number of dead dumps	1+4	1	
4g	Number of dumps stabilised	nil	nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Not discuss	not done	
4i	Length of Retaining wall or garland drain all along dump	Not discuss	not done	
4j	Number of settling ponds	1	not done	
4k	Specific comments of inspecting officer on waste dump management	Coralline limestone was earlier considered as overburden. Thus dumps having the same are existing. But it was advised to the lessee to manually sort the mineralized content from the dumps. Garland drain and retaining wall should be maintained along the toe of the dump as the area is on the mound and due to slope, wash off from the dumps may cause degradation of land at lower levels.		

**Solid Waste Management-Backfilling**

SN	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	7.50ha was the original area and 2.60ha was backfilled and no additional proposal was given	As per proposal	
5b	Area under backfilling of mined out area	2.60HA area already mined out	Subject to exploration result	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not top soil	NO top soil generated	
5d	Total area fully reclaimed & rehabilitated	NA	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Top soil is not occurring in the area as the area is having coralline limestone at the surface levels. Further, out of original lease area of 7.50 ha, 2.60 ha area has already been backfilled and FMCP for the same is approved.		

**Progressive Mine Closure Plan**

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	Proposal was there	not done	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	Since the part of area of 2.60ha from original 7.50ha backfilled and complied under Rule 29 MCDR 1988 and rest area no proposal for mined out area is given only 200trees over the backfilled area	Approx 100 plantation has been done	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	Since the part of area of 2.60ha from original 7.50ha backfilled and complied under Rule 29 MCDR 1988 200trees over the backfilled area	Approx 100 plantation has been done	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	200trees and dumps will be rehabilitated by compaction	100 Trees and old dump is already rehabilitated by natural compaction	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	As MPCB norms and as per the proposals given in the SOM	Not done	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Plantation seen during site inspection but due to scarcity of soil and water in the area, survival is very low. Suitable action for non-submission of annual report on protective measures and not conduction Environment Monitoring may be taken by Jabalpur Regional Office.		

**Mineral Conservation**

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	80% Recovery	Cement grade Lst should have 95% recovery	Coralline Lst should be worked out
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sorted out at mines	Cement grade	Cement grade	Coralline limestone should be worked out for analysis and its marked
7d	Any beneficiation process at mines	Not	not	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Mineral occurring in the area is mostly of high grade and therefore, recovery from ROM is on higher side. But Coralline Limestone should also be analyzed for its contents and in line with the objectives of Mineral Conservation; the mineralized content should be separately stacked or should be used.		

**Environment**

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not given	no top soil	
8b	Concurrent use or storage of topsoil	Not soil	no soil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	One old dump +additional 4 dumps were proposed	Only one dump is reject of coralline limestone	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	OB was proposed to be dump	Dumped over the present dump	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	This is a case of already backfilled and complied under Rule 29 of MCDR 1988 and presently 4.90ha out of original area of 7.50 is considered for renewal		
8f	Baseline information on existence of plantation & additional plantation	As per MPPCB norms	not done	
8g	Survival rate	70%	60%	
8h	Water sprinkling on roads to control airborne dust	yes	as per proposal	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Area is devoid of soil. Lithology is in form of Coralline Limestone at the top and a few waste bands followed up by mineral bed. Thus coralline limestone has been dumped as overburden. Survival rate is lower than the proposals due to the lack of soil and water in the area.		

#### Compliance of Rule 45

SN	Item	Comments	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto <b>Offline submitted upto date, Online submitted for November'2015</b> A.R. submitted upto <b>2014-15</b>	Compliance of Rule 45

SN	Item	Details given in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Not appointed/ No details given.		Violation of Rule 42 of MCDR'1988
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	3.70 ha area under pits and dumps.	Correct.	
9d	Scrutiny of Annual return on afforestation	100 trees	60	Survival has not been mentioned/considered.
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	No rejects	No rejects generation.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore		Correct figures have been mentioned as per physical observations.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost		Correct	
9i	Scrutiny of Annual return on fixed assets		Correct	
9k	Scrutiny of Annual return on mining machineries		As the mine is under category B manual, no machinery except jackhammer drill was seen during site inspection.	

#### Details of violations observed during current inspection and compliance position of earlier violation pointed out:-

As the case is transferred to Jabalpur Regional Office, relevant violations may be issued after inspection done by Jabalpur Regional Office.

(Ashish Mishra)  
ACOM