

- 1.(a) Mine Name : Hebbal Limestone and Dolomite mine (M.L.No-2493)
 (b) Category : "A" OTF Mechanized.
 (c) Type of Working: Opencast Mine code: 38KAR26060
 (i) Name of the Inspecting Officer and ID No: K02, Kalmata.M.K.
 (ii) Designation: Senior Mining Geologist.
 (iii) Accompanying mine Official with Designation: Prakesh Sabarad, Lessees son.
 (iv) Date of Inspection: 26.05.2017(F/N)
 (v) Previous inspection date: 12.02.2014 (MCDR)
 (vi) First opening date: 06.12.2006

PART-I: GENERAL INFORMATION

(d) Postal address of mine

Address	FAX No	E-mail	Phone	Mobile No
Hebbalvillage, Lokapur-Post, Mudhol-Tq and Bagalkot-District.	Nil	minerals.ganga578@gmail.com	08350-280255	09449579690 & 9448580908

State	District	Taluka	Village	Post office	Pin Code	Police Station	Landmark
Karnataka	Bagalkot	Mudhol	Hebbal	Lokapur	587122	Lokapur	

2. Postal Address for correspondence, if different:

3. Lease details

Lease Number	Lease area	Forest / Non-forest area	Period of lease	Date of Expiry	Status (Fresh Grant / renewal / deemed renewal)
M.L.No-2493	4.86ha	Non-forest	50 years	30.06.2055 As per Amended MMDR Act-2015.(letter of extension is not issued by State Government)	Fresh grant

4.Mineral worked

Mineral worked	Main mineral	Associated mineral	New mineral discovered
Limestone	Limestone	Dolomite	NA

5A.Name and Address of theLessee:

Name and Address	FAX No	E-mail	Phone	Mobile
Shri Kallappa H Sabarad, APMC Yard, Mallamma Nagar, Mudhol, Mudhol-Tq, Karnataka-587313	Nil	minerals.ganga578@gmail.com	08350-280255	09449579690 & 9448580908

5B. Name and address of Owner:

Name and Address of Owner	Date of nomination	FAX No	E-mail	Phone	Mobile
NA	NA	NA	NA	NA	NA

5C. Name and address of Agent:

Name and Address of Agent	Date of appointment	FAX No	E-mail	Phone	Mobile
Nil	Nil	Nil	Nil	Nil	Nil

5D. Name and address of Mining Engineer:

Name and	Date of	Qualification	FAX	E-mail	Phone	Mobile

Address of Mining engineer (Full time/part time- then No of mines covered)	appointment	and experience in years	No			
	Nil	Nil	Nil	Nil	Nil	Nil

5E. Name and address of Geologist:

Name and Address of Geologist	Date of appointment	Qualification and experience in years	FAX No	E-mail	Phone	Mobile
Nil	Nil	Nil	Nil	Nil	Nil	Nil

6. Letter Number and Date of approval of Mining Plan and Scheme of Mining:- MSH/OTF-Mech-101(KNT)/GOA/2015-16, dated:10.03.2016.

1. Details about Average employment:

Maximum number of persons employed on any day during the year: 2015-16

Employment category	DIRECT /CONTRACT	No of employment	Av. yearly working days
Managerial	Nil	Nil	Nil
Supervisory	DIRECT	02	298
Workers	DIRECT	15	298
Ministrial	Nil	Nil	Nil
Plant	Nil	Nil	Nil
Others	Nil	Nil	Nil

2. Community Development Plan (in and around the mines): Proposed action and expenditure towards socio-economic development.

Action during the year	Proposed	Expenditure in Rs. Lakhs for previous year Incurred	Proposed	Expenditure in Rs. Lakhs for current year Incurred	Remarks
Health	Nil	Nil	Nil	Nil	About Rs, 90,000 was given for Renovation of three schools of nearby villages.
Housing	Nil	Nil	Nil	Nil	
Medical facility	Nil	Nil	Nil	Nil	
Safety	Nil	Nil	Nil	Nil	
Sanitation	Nil	Nil	Nil	Nil	
Water supply	Nil	0.25	Nil	Nil	
Communication	Nil	Nil	Nil	Nil	
Electricity	Nil	Nil	Nil	Nil	
Public transport	Nil	Nil	Nil	Nil	
Roads	Nil	Nil	Nil	Nil	
Employment	Nil	Nil	Nil	Nil	
Environment management	Nil	Nil	Nil	Nil	
Others	Nil	0.90	Nil	Nil	
Recreation	Nil	Nil	Nil	Nil	
Sports activities	Nil	Nil	Nil	Nil	
Training	Nil	Nil	Nil	Nil	

PART-II				
Exploration :				
Sl.No.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	In the approved mining plan there was a proposal to drill 09 boreholes in the year 2016-17.	Lessee has drilled 09 boreholes in the year 2016-17.	
1b	Exploration over lease area for geological axis 1 or 2	Entire lease area was proposed for exploration under G-1 level.	Entire lease area was explored under G-1 level of exploration by 09 coreholes.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year		Exploration was carried out by lessee himself. Expenditure incurred on exploration is about 3.45lakh rupees.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Entire area is explored under G-1 level of exploration.
1e	Balance reserves as on 01/04/2017		Proved mineral reserves (111)- 725559 tons, Pre-feasibility mineral resources(222) 233751 tons.	Lessee was advised to re-estimate the reserves based on exploration carried out in the year 2016-17.
1f	General remarks of inspecting officers on geology, exploration etc.		Lessee has explored entire lease area under G-1 level of exploration .	
Development :				
Sl.No.	Item	Proposals	Actual Work	Remarks
2a	Location of development w.r.t. lease area	In the year 2016-17, It was proposed to work in the Northern and western part of the lease area.	Working has been carried out as per the proposal. Benches were developed in the Northern and western part of the lease area.	In the Western side benches were moved little bit more than the proposal but within the 7.5mtr safety zone. Lessee was advised to work as per the proposal.
2b	Separate benches in topsoil, overburden and minerals (Rule-15)	Three benches were proposed in the year 2016-17 and all are in ore only.	benches were made almost as per the proposal.	
2c	Stripping ratio of ore to OB ratio	1:0.05	1:0.04	

2d	Quantity of topsoil generation in m3	1695	750	Since the production was less than the proposal. The additional area taken for mining is reduced hence topsoil handling also reduced.
2e	Quantity of overburden generation in m3	2429	1130	Since the production was less than the proposal waste handling is reduced.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc.		Benches were opened in all directions of the lease area and present working is going on in the western part of the lease area.	

Exploitation :

Sl.No.	Item	Proposals	Actual Work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	1,20,000 tons in the year 2016-17.	56500	Less production was due to non availability of EC for enhanced production.
3c	Recovery of saleable / usable mineral from ROM production	95%	96%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Threshold value for limestone karnataka is Cao minimum 35% Cao.	Threshold value for limestone of Karnataka is Cao minimum 35% . The ore which is produced is above the threshold value and saleable.	
3f	Quantity of subgrade mineral generation.	Nil	Nil	
3g	Grade of subgrade mineral generation.	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed and carried out for subgrade mineral and rejects	Nil	Nil	
3j	Provision of drilling and blasting in mineral benches		Lessee is doing Drilling and blasting as per the proposal.	
3k	Provision of mining machineries in mineral benches	02 numbers of excavators were proposed in the approved document.	Lessee is using only JCB for mining activity.	Since the EC is not available for enhanced production. Lessee is produced only 56,500 tons in the year 2016-17, instead of 1,20,000 tons. Due to lessee production lessee is using only JCB. After obtaining EC for 120000 tons lessee will engage excavator for production purpose.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3 mtr height benches were proposed.	benches were made almost as per the proposal.	

3m	Total area covered under excavation / pits	In the year 2016-17 it was propose to work in 0.75ha.	In the year 2016-17 woking has been carriedout in the 0.4ha.	woking has been carriedout in the less area due to less production.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.05	1:0.04	
3o	Total area put in use under different heads at the end of year		Mining-3.80Ha, Stackyard//dump-0.46Ha, Plant/build/roads-0.29.	
3p	Production of ROM mineral during the last five year period as applicable	120000 tons	56500 tons	The lessee production is due to non-availability of EC for enhanced production.
3q	General remarks of inspecting officers on method of mining etc.		The benches were systematically developed and plantation is made in the 7.5 mtr safety zone.Dumping was not made as per the proposal and violation is pointedout for the same.	

Solid Waste Management - Dumping :

Sl.No.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32, 33)		OB was stacked separately and topsoil was utilized for plantation and no mineral reject was produced in the year 2016-17.	
4b	Location of topsoil, OB and mineral reject dumps	No proposal was given for stacking of topsoil and mineral reject and it was proposed to stack OB in the South-western part of the lease area.	Topsoil generated was utilized for making bund and plantation as per the proposal and OB was not stacked as per the proposal. OB was stacked in the North-western part of the lease area.	Violation is pointedout for not dumping OB as per the proposal.
4c	Number of dumps within lease area and outside of lease area	One	One within the lease area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL	Ouside the UPL.	
4e	Number of active and alive dumps.	One	One	Dumping was not made as per the proposal and violation is pointedout for the same.
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	One	One	

4h	Whether retaining wall or garland drain all along dumps are there.	One retaining wall and one garland drain was proposed in the first year.	No retaining wall and garland drain was made in the year 2016-17.	Dumping was not made as per the proposal and quantity of waste generation was also very less due to less production. Since dump area is very small and quantity also less no retaining wall and garland drain was made in the year 2016-17.
4i	Length of retaining wall or garland drain all along dumps.	Retaining wall 117mtr and garland drain-325mtr.	No retaining wall and garland drain was made in the year 2016-17.	Dump area is very small and height is also less than two mtrs. So no retaining wall is constructed.
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officers on waste dump management.		Dumping was not made as per the proposal and violation is pointed out for the same. Since the dump area is very small no retaining wall and garland drain was made in the year 2016-17.	

Solid Waste Management - Backfilling :

Sl.No.	Item	Proposals	Actual Work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling	Nil	Nil	Mineral is proved upto 45mtr depth and no proposal of backfilling in the present plan period.
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Nil	Nil	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Mineral is proved upto 45mtr depth and present working is not reached upto the proved depth. So no proposal was made for backfilling in the present plan period.	

Progressive Mine Closure Plan :

Sl.No.	Item	Proposals	Actual Work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 26(2)	Before 1 st July of every year.	Annual report on PMCP is not submitted for the year 2015-16.	Violation is pointedout for the same.
6b	Area available for rehabilitation (ha)	Nil	Nil	
6c	Afforestation done (ha)	0.04ha	0.19ha	Plantation was made more than the proposal.
6d	No. of saplings planted during the year	Quantity is not mentioned in the approved mining plan.	Lessee has planted 2500 saplings within the lease area and 1000 saplings outside the lease area in the year 2016-17.	
6e	Cumulative no. of plants		Approximately 5000 plants.	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	Nil	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (LxBxD)	Nil	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Nil	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv)Rehabilitation by making water reservoir	Nil	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Nil	Nil	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Nil	Nil	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Nil	Nil	
6o	Compliance of rehabilitation of waste land within lease (ii) Method of rehabilitation	Nil	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)		Lessee is doing environmental monitoring regularly and all parameters are within permissible limits.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Less has made the plantation morethan the proposal and maintained by regular watering. Lessee has not submitted yearly report on PMCP and violation is pointedout for the same.	

Mineral Conservation :

Sl.N o.	Item	Proposals	Actual Work	Remarks
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7a	ROM mineral dispatch or gradewise sorting within lease area		About 40945 tonnes despatched in the year 2016-17.	
7b	Method of gradewise mineral sorting i.e. manual or mechanical		Manual	
7c	Different grade of mineral sorted out at mines	Nil	Nil	Lessee is using all the ore by blending.
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officers on mineral conservation and beneficiation issues.		No beneficiation process is going on in mines and lessee is using all the ore by blending.	

Environment :

Sl.No.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There was a proposal to remove about 1695 cum topsoil in the year 2016-17.	Lessee has removed about 750 cum topsoil and utilized for plantation in the 7.5 mtr safety zone.	
8b	Concurrent use or storage of topsoil	Proposed to put bund in 7.5mtr safety zone for plantation.	Entire topsoil was utilized for plantation in the 7.5mtr safetyzone.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	It was proposed to dump waste in the South western part of the lease area.	Dumping was made in the North-western part of the lease area. Dumping ore was made in the South-western part of the lease area.	In the approved mining plan there was no proposal for stacking of ore and dumping of waste also not made as per the proposal. So violation is pointedout for both.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	
8e	Phased restoration, reclamation and rehabilitation of land affected by mining operations (pits, dumps etc.)	Nil	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		About 2500 plantation was madewithin the lease area in the year 2016-17.	
8g	Survival rate		Survival rate is more than 70%.	Lessee is maintaing plantation by regular watering.
8h	Water sprinkling on roads to control airborne dust		Production is less only and generation of dust is negligible.	
8i	General remarks of inspecting officers on aesthetic beauty in and around mine areas.		Benches were properly maintained and plantation was made in the 7.5 mtr safety zone.	

Compliance of Rule 45 :

Sl.No.	Item	Proposals	Actual Work	Remarks
9a	Status of submission of monthly and annual returns		Lessee is regularly submitting monthly and annual returns.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		No Mining engineer and Geologist is appointed by the lessee.	Violation is pointed out for the same.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		In the annual return submitted for the year 2015-16 area under mining eas shown as 3.43Ha, for dumping-0.288Ha, for roads & others 0.445Ha.	On the day of inspection it is observed that area utilized under different heads was as follows. Mining-3.80Ha, Stackyard//dump-0.46Ha, Plant/build/roads-0.29.
9d	Scrutiny of Annual return on afforestation	200 plants shown in the returns for the year 2015-16.	Plantation was made as mentioned in the annual return submitted for the year 2015-16.	Approximately 5000 plants were planted in the lease area so far.
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		About 32568 tons stack was shown in the returns submitted for the year 2015-16.	One the day of inspection it was observed that about 35000-40000tons of ore was stacked in the lease area.
9g	Scrutiny of Annual return on Sale value, Ex Mine price and production cost		In the annual returns submitted for the year 2015-16 exmine price was shown as Rs, 438/ton and cost of production Rs-250/ton.	
9h	Scrutiny of Annual return on fixed assets		Value of fixed asset was shown as Rs, 18 lakhs	
9k	Scrutiny of Annual return on mining machineries		Only aircompressor was shown.	Upto 2015-16 the mine was operated manually so no other machineries were used. At present lessee is using JCB for production.

Details of violations observed during current inspection and compliance position of violation pointed out.

Violation observed.

Rule No	Issued on
11(1)	05.06.2017
26(2)	05.06.2017
55(3)(iii)(iv)	05.06.2017
67	05.06.2017

Date:-

Kalmata.M.K.
Senior Mining Geologist