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INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/KNL/GOLD-1/HYD

Mine code : 27APR11001

- (i) Name of the Inspecting : S11) SHAILENDRA KUMAR
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : S/SHRI VEDANANDA REDDY AND DEVANAADAN, GEOLOGIST
Official with
Designation
- (iv) Date of Inspection : 01-SEP-22
- (v) Prev.inspection date : 24-FEB-22

PART-I : GENERAL INFORMATION

1. (a) Mine Name : JONNAGIRI (597.82 HA)
- (b) Registration NO. : IBM/18273/2014
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : ANDHRA PRADESH
District : KURNOOL
Village : JONNAGIRI
Taluka : TUGGALI MANDAL
Post office : PAGADRAYI
Pin Code : 518390
FAX No. : 080-40428401
E-mail : hanuma@geomysore.com
Phone : 080-404228400
- (f) Police Station :
- (g) First opening date : 21-OCT-13
- (h) Weekly day of rest : SUN
2. Address for
correspondance : 627, TRINITY, 3rd CROSS, 3rd BLOCK
KORAMANGALA, BANGALURU- 560034
3. (a) Lease Number : NA
- (b) Lease area : 597.820
- (c) Period of lease : 30 years
- (d) Date of Expiry : 20/10/2043
4. Mineral worked : GOLD Main

5. Name and Address of the

Lessee : GEOMYSORE SERVICES (INDIA) PVT. LTD.
627, 3rd CROSS 3rd BLOCK,
KORAMANGALA BANGALORE
BANGLORE URBAN KARNATAKA
Phone: 080 40428400
FAX : 080 40428401

6. Date of approval of Mining
Plan/Scheme of Mining

: MP review under 17(1) MCR 2016

13-APR-18

Details of Mining Engineer & Geologist.Mining Engineer:

Name: - Mrs. Y. Nagendra
Qualification: B.E. Mining

Geologist:-

Name: - Mr. C. Karthikeyan.
Qualification: MSc. Geology.

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	In the year 2021-22, there was a proposal to drill 103 boreholes to a total depth of 15,545 mtrs.	Lessee has drilled 85 boreholes to a total depth of 3046 mtrs.	The mine was previously inspected by Senior Mining Geologist, and violation was pointed out under Rule 11 (1) of MCDR 2017, for shortfall in the exploration, so no fresh violation is pointed out for the same.
1b	Exploration over lease area for geological axis 1 or 2	Proposed G 2 level of exploration.	G-1 and G-2, level of exploration has been carried out . However, exploration was not carried out as per the proposal.	SMG was pointed out violation for the same during his previous inspection, so no fresh violation is pointed out for the same.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No such proposal was given.	Exploration was carried by M/s Geomysore Services (India) Pvt.Ltd.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Proposal was given to explore entire mineralized area under G-1 and G-2, level of exploration.	Explored about 20.15Ha under G-1 and 27.89 Ha under G-2 level.	Total mineralized area is 318.29 Ha, out of which 20.15Ha, 27.89Ha and 177.82Ha are explored under G-1,G-2, and G-3 levels respectively. Further, about 92.43 ha is unexplored.

1e	Balance reserve as on 01/04/20	Reserves as per the approved document dated 13.04.2018 Reserves - 3.2581 MT with average grade of 1.63 grams/T Remaining resources - 6.1548 MT with average grade of 1.12 grams/T Total 9.4129 MT with average grade of 1.30 grams/T	Reserves as on 01.04.2022. Reserves - 3.25 MT with average grade of 1.63 grams/T Remaining resources - 6.1548 MT with average grade of 1.12 grams/T Total 9.4121 MT with average grade of 1.30 grams/T	ROM production has not started yet. Therefore , reserves/resource position remains same.
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1f	General remarks of inspecting officers on geology, exploration etc	The lease area is located on the Eastern Dharwarian Craton which bearing gold bearing green stone. The Jonnagiri green stone belt is narrow, sigmoid shaped which extends along NW-SE to N-S direction. The east block can be considered as a single auriferous zone hosted in sheared granodiorite. Total mineralized area is 318.29 Ha, out of which 20.15Ha, 27.89Ha and 177.82Ha is explored under G-1, G-2, and G-3 levels respectively. Further, about 92.43 ha is unexplored.	The exploration is not carried out as per the proposal and violation was pointed for the same by senior Mining Geologist during his previous inspection. Lessee has advised to give exploration proposals to explore entire mineralized area under G-1 level in the review of Mining plan due for the year 2022- 23 onwards.
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Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	In the year 2021-22, production and development was proposed between the co-ordinates N 1686480 to N 1687030 to E 778800 to 779120.	Working has been carried out between the co-ordinates N1686880 to 1686920 and E 778995 to 779035	Six pits were dug in soil cover apparently for testing purpose in the proposed location.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	yes proposeed.	No benches were formed in the present plan period. Lessee has dug only 6 small pits of different dimensions. Approximatley average dimension of pits are as follows. 5m x 5m x 1.2m.	Working has not been carried out as per the proposal and violation is pointed out for the same under Rule 11(1) of MCDR 2017.
2c	Stripping ratio or ore to OB ratio	Proposed 1:4 in the year 2021-22.	Nil.	In the year 2021-22, lessee has worked in the soil cover only. The entire quantity removed was shown as ROM and shifted to plant area for processing.
2d	Quantity of topsoil generation in m3	No topsoil generation was proposed in the year 2021-22.	Removed only negligibel quantity of topsoil approximately 2.00 to 3.00 tonnes.	The topsoil removed is utilized for plantation work.
2e	Quantity of overburden generation in m3	7,43,000 in the year 2021-22.	Nil.	Entire quantity removed in the year 2021-22, is shown as ROM.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		The working has not been carried out in the present plan period. There was a proposal to maintain the bench height of 7.5mtr. However, no such bench was developed in the present plan period. Lessee has made only six small pits having average dimesion of 5m x 5m x 1.2m. violation is pointed out for the same under Rule 11(1) of MCDR 2017.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	In the year 2021-22, proposed one pit having average dimension of 460m(L) x 190(w) x 7.5m(h) .	Lessee has excavated 6 pits of different dimension having average depth of 1.2 m. The dimssion of pits are as follows. PIT 1,3,4,5 and 6:- 5M (L) X 5M (W) . Pit No-2:- 15m(L) x 20m(w) .	Pit has been not made as per the proposal and violation is pointed out for the same under Rule 11(1) of MCDR 2017.
3b	Quantity of ROM mineral production proposed	7,83,800T in the year 2021-22.	Nil.	The working has not been started yet. No infrastructure is installed. No production is carried out as per the proposal.
3c	Recovery of sailable/usable mineral from ROM production	1.51 grams per ton.	1.25 grams per ton.	
3d	Quantity of mineral reject generation	2,82,800 tonnes in the year 2021-22.	Nil in the year 2021-22.	
3e	Grade of mineral rejects generation and threshold value declared.	No threshold value is declared for Gold. However, lessee has shown ore having grade 0.3 to 0.6g as mineral reject.	Nil.	No mineral reject was handled in the year 2021-22.
3f	Quantity of sub grade mineral generation.	Nil.	Nil.	
3g	Grade of sub grade mineral generation	Not applicable.	Not applicable.	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized.	Manual.	Lessee is doing pilot scale testing/ screening by primitive method of manual sieving.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	

3j	Provision of drilling and blasting in mineral benches	Yes proposed.	No drilling and blasting has been carried out in the present plan period.	Mining operation has not been started yet.
3k	Provision of mining machineries in mineral benches	Yes proposed	Nil.	No mining operations started yet.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	7.5 mtr bench height was proposed.	No benches were formed. Only small pits were dugged to a average depth of 1.20mtrs.	Working has not been carried out as per the proposal and violation is pointed out under Rule 11(1) of MCDR 2017.
3m	Total area covered under excavation/pits	10.00Ha in the present plan period.	0.038Ha in the present plan period.	
3n	Ore to OB ratio for the pit/mine during the year.	1:4	Nil	
3o	Total area put in use under different heads at the end of year	Area under mining :- 10.01Ha , Topsoil- 1.82Ha, waste dump-27.19Ha, Ore stock- 2.19Ha, Plant:-7.62Ha, Infrastructure -0.35Ha, Tailing dam:- 31.54Ha.	Area under mining 0.038Ha, Plant (Pilot) + ROM stock:- 8.470Ha	Excavated material was stacked near a pilot plant in contravention with the approved proposal. The violation was pointed out for the same by SMG during previous inspection. So no fresh violation was pointed out for the same.
3p	Production of ROM mineral during the last five year period as applicable	2022-23 705500 T 2021-22 783800T 2020-21 400200T 2019-20 192300T 2018-19 226300T	2022-23 Nil (up to August 2022) 2021-22 Nil 2020-21 Nil 2019-20 Nil 2018-19 Nil.	No production has started yet.

3q General remarks of inspecting officers on method of mining etc.

Approval was accorded to commence mining operation by mecahnised method. Proposed single pit with bench height of 7.5 mts. However, lessee has dug six pits of different dimensions with average depth of 1.2mtr. The working has been not carried out as per the proposal and violation is pointed out for the same under Rule 11 (1) of MCDR 2017.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes proposed.	No OB and mineral reject was generated in the year 2021-22.	No production and development has been carried out in the present plan period up to 2020-21 and in 2021-22, lessee has excavated about 849 T material from six pits and Entire material was shifted to pilot plant area. Further, about 2.00 to 3.00 tonnes of topsoil was removed in the year 2021-22 and same is utilized for plantation within the lease area.

4b	Location of topsoil, OB and mineral reject dumps	Topsoil N 1686400 to 1686500 and E 779180 to 779360, OB- N 1686840 to N 1687050 and E 779300 to 779780, Mineral reject:- N1686530 to 1686670 and E 779200 to 779520.	No topsoil, OB and mineral reject dumps as production of ROM and mineral processing have not started.	
4c	Number of dumps within lease area and outside of lease area	Proposed 4 dumps within the lease area one each for OB, Topsoil, Mineral reject and Ore.	Nil	The mine has not started production and development up to 2020-21 and no OB, Mineral reject and Topsoil is generated in the present plan period.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed outside the UPL.	No dumping was made in the present plan period.	
4e	Number of active and alive dumps.	04 dumps.	One small stockpile observed near pilot plant area.	
4f	Number of dead dumps.	Nil.	Nil	
4g	Number of dumps established.	Nil.	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes proposed.	Nil.	No dumps were established in the present plan period, so retaining walls are not constructed.
4i	Length of Retaining wall or garland drain all along dumps	All along the toe of the dumps.	Nil.	No dumps were formed in the present plan period.
4j	Number of settling ponds	Yes proposed.	Nil.	No dumps were made in the present plan period.

4k	Specific comments of inspecting officer on waste dump management	The mine was not started production and development up to 2020-21 and no dumps were made in the present plan period. Further, since no dumping was made, no retaining walls were constructed in the present plan period.
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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 backfilling is proposed in the present plan period.	No backfilling is made in the present plan period.	Mineral is not extracted up to the proved depth, so, no backfilling was proposed and made in present plan period.
5b	Area under backfilling of mined out area	Nil.	Nil.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed.	Nil.	
5d	Total area fully reclaimed and rehabilitated	Not proposed.	Nil.	

5e General remarks of inspecting officers on backfilling and reclamation etc. Mineral is not extracted upto the proved depth and no area is matured for backfilling, so no backfilling was proposed and made in the present plan period.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Before 1st July of every year.	Lessee has submitted PMCP report for the year 2021-22.	Submitted PMCP report for the year 2021-22, within the time limit.
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	0.14 Ha	0.18Ha	
6d	No. of saplings planted during the year	340 in the year 2021-22.	570 in the year 2021-22.	Plantation has been done in the 7.5 mtr safety zone.
6e	Cumulative no .of plants	3180 saplings up to 2022-23.	570 saplings up to 2021-22.	In the year 2021-22, plantation was made in the 7.5mtr safety zone only.
6f	Any other method of rehabilitation	Nil.	Nil.	
6g	Cost incurred on watch and care during the year	Not proposed.	Nil.	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not proposed.	Nil.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed.	Nil.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Not proposed.	Nil.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed.	Nil.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed.	Nil.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not proposed.	Nil.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed.	Nil.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed.	Nil.

6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed regular monitoring of Air, water and noise in the core and buffer zone.	Quarterly ambient, water and noise monitoring is being carried out in the core and buffer zones and results are well within the permissible limits.	Lessee has dug six pits by manual method only and impact of mining on environment is negligible. However, lessee is regularly monitoring Air and Water through Mineral Engineering Services, Ballari.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		No reclamation and rehaulitation was proposed in the present plan period. Made plantation in the 7.5 mtr safety zone. Lessee is regularly monitoring Air and Water through Mineral Engineering Services, Ballari and results are within the permissible limits.	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposal was given to produce Dore bar by processing.	Produced concentrate by tabling method and despatched concentrate to recover Gold.	The mineral processing and despatch was not carried out as per the proposal given in the approved document and violation is pointed out for the same under Rule 11(1) of MCDR2017.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized	Both manual and mechanized.	Lessee is doing screening by primitive method of manual sieving and by dry gravity screen.
7c	Different grade of mineral sorted out at mines.	Proposed cut off grade of above 0.6 grams per ton for processing.	ROM of 1.25 grams per tonne produced in the year 2021-22.	

7d	Any beneficiation process at mines	Proposed Crushing, grinding, Carbon leach, Elution and Gold smelting to produce Dore bar.	Lessee was doing only screening by manual sieving , dry screen and tabling to get the concentrate.	The beneficiation process was not carried out as per the proposal and violation is pointed out for the same under Rule 11 (1) of MCDR-2017.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Lessee has not started actual mining and processing so far, Entire excavated quantity of 849 T was shown as ROM and out of which 2.00 tonnes was utilized for processing. Further, lessee is doing only screening by manual sieving and tabling for getting concentrate. The beneficiation practices were not as per the proposal and violation is pointed out for the same under Rule 11 (1) of MCDR 2017.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes proposed.	Removed about 2.00 to 3.00 tonnes of ROM in the year 2021-22 and entire quantity was utilized for plantation work.	
8b	Concurrent use or storage of topsoil	Nil in the year 2021-22.	About 2.00 to 3.00 tons of topsoil was generated in the year 2021-22 and entire quantity was utilized for plantation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes proposed.	Nil.	The mine has not started production and despatch during 2020-21 and no dumps were formed for OB, waste rock and rejects.

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed.	Nil.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed.	Nil.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		Yes, information was given in the mining plan. Additionally, lessee has planted about 570 saplings in the year 2021-22.
8g	Survival rate	No such proposal was given.	90 to 95%.
8h	Water sprinkling on roads to control airborne dust	Yes proposed.	Nil.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		The working has been not commenced as per the proposal and agricultural activity is observed in most of the lease area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	A monthly returns shall be submitted before 10 th day of every month in respect of preceding month and an annual returns shall be submitted before 1st day of july of each year for the preceding financial year.	Submitting Monthly and annual returns within the time limit.	Submitted Monthly returns up to Aug 2022 and Annual returns 2021-22.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Enginee Manager:- Mr.Tatikonda Raviteja, Geologist:-Mr. C. Karthikeyan,	Mr.Y.Nagendra is appointed as the Mining Engineer and Manager and details of Geologist given in the AR 2021-22 is found correct.	Lessee has submitted Notice of appointment and termination of Mr.Y.Nagendra and Mr.T.Raviteja.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	4.40Ha under exploited and abandoned by opencast mining-4.40Ha, current-working-0.038Ha, Infrastructure (occupied by plant area) - 8.47Ha.	The mine is started production and development in the year 2021-22 only, but shown 4.40Ha under abandoned pits.	Show cause notice is issued for the same under Rule 45(7) of MCDR 2017.
9d	Scrutiny of Annual return on afforestation	Shown plantation as 570 number and survival rate 98%	The survival rate was 90 to 95% and the information given in the annual returns is found correct.	
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 ROM- Opening stock- Nil, Production- 849T, Closing stock- 847T. Metal Grade is mentioned as 1.25 for ROM production, 1.21 for closing stock, for concentrates- 9.15, concentrate closing stock- 3.81 The metal grade mentioned under different headings are not matching. Showcause notice is issued for the same under Rule 11(1) of MCDR 2017.
- 9g Scrutiny of Annual return on sale value, Ex. Mine price and production cost Sale value is shown as Rs 25,360 for 0.320 T of gold concentrate, Exmine price was shown as Rs 100, Cost of production is shown as Zero. 849 tonnes of production is shown in the year 2021-22, but cost of production is mentioned as zero. Further, deduction is shown as Rs,11946 but exmine price is shown as Rs-100. The details of Cost of production, Ex-mine price etc., are given incorrectly in the AR submitted for the year 2021-22 and therefore showcause notice is issued for the same under Rule 45(7) of MCDR 2017.
- 9h Scrutiny of Annual return on fixed assets Value of fixed asset is shown as Rs 847447983. The information found correct.
- 9k Scrutiny of Annual return on mining machineries Nil. No mining machineries were observed in the site.
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Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
Rule 45(7)	15-SEP-22				
MCDR17 Rule 11(1)	15-SEP-22				
Rule 47	15-SEP-22				

Date :

(SHAIENDRA KUMAR)

Indian Bureau of Mines