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Mining Plan Modification REPORT

Bangalore regional office

Mine file No : KNT/BLR/FE/385/BNG

Mine code : 30KAR03058

- (i) Name of the Inspecting : **S21**) **H M Shivakumar**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : G. Pompapathi - Manager & Mining Engineer, Bhat Sridha
Official with
Designation
- (iv) Date of Inspection : 10/11/2023
- (v) Prev.inspection date : 26/05/2023

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **S.A.THAWAB**
- (b) **Registration NO.** : **IBM/19011/2014**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : KARNATAKA
District : BELLARY
Village : RAMGAD
Taluka : SANDUR
Post office : SUSHILANAGAR
Pin Code :
FAX No. : 08392-240462 (F),
E-mail : ztco2000@yahoo.com
Phone : 08392-240085 (O), 984408500
- (f) Police Station : SANDUR
- (g) First opening date :
- (h) Weekly day of rest : SUN
2. Address for : M/S.S.A.THAWAB & COMPANY,
correspondance : C/O. ZEENATH TRANSPORT CO, COWL BAZAR,
BELLARY - 583102
3. (a) Lease Number : KAR0232
- (b) Lease area : 24.72
- (c) Period of lease : 20
- (d) Date of Expiry : 03/08/2021
4. Mineral worked : IRON ORE Main

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5. Name and Address of the

Lessee : S.A.THAWAB
 BELLARY KARNATAKA
 Phone:
 FAX :

Owner : SYED AHMED
 BELLARY KARNATAKA
 Phone: 08392 - 260225
 FAX : 08392- 240462

Agent : Syed Aslam
 Zeenath Transport Company
 Zeenath House, Cowl Bazar
 Bellary BELLARY KARNATAKA
 Phone: 08392240085
 FAX : 08392240462

Mining Engineer

Name : Pompapathi Gurke, Full Time
 Qualification : Diploma in Mining and Mine surveying wit
 Appointment/ : 09/11/2021
 Termination date

Geologist

Name : BHAT SRIDHAR MADHU KESWAR, Full Time
 Qualification : M.Sc Geology
 Appointment/ : 19/09/2022
 Termination date

Manager

Name : Pompapathi Gurke
 Qualification : Diploma in Mining and Mine surveying wit
 Appointment/ : 23/05/2020
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	18/04/1994
Plan/Scheme of Mining	:	Renewal under rule 22 MCR1960	16/07/2002
	:	Mining Scheme rule 12 MCDR1988	23/11/2005
	:	Modif.approved Mining Scheme	09/02/2011
	:	Mining Scheme rule 12 MCDR1988	22/12/2014
	:	Mining Scheme rule 12 MCDR1988	29/03/2016
	:	MP review under 17(1) MCR 2016	11/12/2020
	:	Modif.approved Mining Scheme	29/10/2021
	:	MP modif under 17(3) MCR 2016	19/07/2023

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	4 DTH Boreholes (200 M)	15 DTH Boreholes (504 M) (2022-2023) 02 DTH Boreholes (105 M) (2023-2024)	2014-15 - 17 TPS 2015-16 - 23 TPS 2016-17 - 15 TPS 2017-18 - 15 TPS 06 DTH Holes. 2018-19 - 15 TPS 03 DTH Holes. 2019-20 - 2 DTH Holes. 2020-21 - 13 DTH Holes, 03 Core Bore Holes. 2021-22 - 5 Core Bore Holes, 1 TP. 2022-23 - 15 DTH Holes. 41 -DTH Borehole's (949 M), 08 Core Drilling Boreholes (200 M) Total 1149 M 86 Trial pits
1b	Exploration over lease area for geological axis 1 or 2	G1	G1 16.14 Ha. Non-mineralized area - 7.32 Ha. Unexplored area /Dump area 1.26 Ha. As per approved Modified AMP.	Mineralized area 16.14 Ha. Unexplored area /Dump area 1.26 Ha.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	--	(1) Sri Balaji Bore wells Sandur (Exploration Agency)22-23 (2) Vaishali Borewell Gangavathi (Exploration Agency)23-24	(1) The expenditure incurred for putting Borehole Drilling Expenditure 2.35 lacks (2) The expenditure incurred for putting Borehole Drilling Expenditure 0.56 lacks
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Unexplored area /Dump area 1.26 Ha. (Under G4)	Exploration was carried out in 23.46 Ha. In 2023-24.
1e	Balance reserve as on 01/04/20	--	3123933 MT as on 01.04.2023	As per Annual Returns

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1f	General remarks of inspecting officers on geology, exploration etc	There are 2 iron ore reefs below the float ore. General strike direction is NW to SE with dip varying from 650 to 700 due NE. The grade of iron ore varies from 52.05% to 64.95% Fe. The details of Reefs are 1) Reef-A 253m Avg. length, 25m Avg. width. and 40m Avg. depth 2) Reef-B: 196m Avg. length, 22m Avg. width and 50m Avg. Depth. The float ore depth ranging from 2m to 19m and covers an area of around 15.12 Ha.	Only a small extent of 1.26 Ha beneath the dump is remaining to be explored. Post exploration: Mineralized area 16.14 Ha & Non-mineralized area - 7.32 Ha.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Float ore: N 16775389 - 1675446 E 656315 - 656384, N1675259 - 1675225 E 656743 - 656761, N1674704 - 1674790 E 656701 - 656783	Float ore: N16775389- 1675446 E656315 - 656384, N1675259- 1675225 E656743 - 656761, N1674704- 1674790 E 656701 - 656783	Mine workings carried out within limits.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of separate benches in topsoil, and over burden mineral	No separate benches maintained in topsoil, and overburden mineral.	Mining is done in float ore Zone.
2c	Stripping ratio or ore to OB ratio	1:0.07	1:0.07	ROM- 67490 Ts WASTE - 4803 Ts
2d	Quantity of topsoil generation in m3	No Proposal	No Top soil generation during the year	Float ore working
2e	Quantity of overburden generation in m3	5000 MT	4803 Mt (31.03.2023)	As per the annual Returns for 2022-23.

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2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The Mine is developed with 3 pits for winning the float ore and Reef Ore separately. Pit-1 & Pit-3 are float ore pits with bench height and width of 3m each. Pit-2 is a Reef Ore pit with bench height and width of 7.5m and these mine pits are observed to suitably developed as per the different float Ore and reef deposits within the lease area.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	3 pits proposed for production in float ore zone.	Working carried out in 3 pits. float ore zone.	Float ore: N16775389- 1675446 E656315- 656384, N1675259- 1675225 E 656743 - 656761, N1674704- 1674790 E 656701 - 656783
3b	Quantity of ROM mineral production proposed	67500 MT	67490 MT (31.03.2023)	As per the AR-2022-23.
3c	Recovery of sailable/usable mineral from ROM production	100 %	100 %	
3d	Quantity of mineral reject generation	No Proposal	No mineral rejection generation during the year	
3e	Grade of mineral rejects generation and threshold value declared.	No Proposal	NIL	
3f	Quantity of sub grade mineral generation.	No Proposal	NIL	

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3g	Grade of sub grade mineral generation	No Proposal	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Only dry crushing & screening Mechanized.	Crusher 100 TPH Screening 150 TPH	Capacity of crushing plant installed is 100 TPH & Screening 150 TPH
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	No such beneficiation study proposed and carried out. Worked in Float & Reef Ore Zone.	
3j	Provision of drilling and blasting in mineral benches	No drilling & blasting in mineral benches	No drilling and blasting were carried out in the mineral benches.	Excavator deployed in the float ore Zone.
3k	Provision of mining machineries in mineral benches	Proposed Mining machineries in mineral benches Wheel loader Volvo 3 cum-1 No Back Hoe - 1 No Tipper - 2 No's Water Tanker 12000 ltr - 1 No Crusher 200 T/H - 1 No	Following Mining machineries used: Wheel loader Volvo 3 cum-1 No Back Hoe - 1 No Tipper - 2 No's Water Tanker 12000 ltr - 1 No Crusher 200 T/H - 1 No	The reported machineries were found deployed on the day of inspection.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Suitable bench height and width proposed in mineral benches.	Suitable bench height and width maintained in mineral benches	Float Ore working: Height 3 mtrs Width 5 mtrs
3m	Total area covered under excavation/pits	8.114 Ha. At the end of the year	8.114 Ha.	As per the AR-2022-23.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.07 (in Tons)	1:0.07 (in Tons)	ROM- 67490 Ts WASTE - 4803 Ts

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3o	Total area put in use under different heads at the end of year	Area for Mining-8.114Ha Waste dumps-1.05 Ha Roads - 0.82 Infrastructure s- 0.10 Ha Other purpose (Stock yard, Safety Zone and others) - 14.636	Area for Mining-8.114Ha Waste dumps-1.05 Ha Occupied by plant, buildings, residential & Roads - 0.92 ha Other purpose (Stock yard, Safety Zone and others) -14.636	As per the AR-2022-23.
3p	Production of ROM mineral during the last five year period as applicable	2016-17:35,000 2017-18:35,000 2018-19:35,000 2019-20:35,000 2020-21:35,000 2021-22:67,500 2022-23:67,500	2016-17: NIL 2017-18: 9,000 2018-19: 35,000 2019-20: 35,000 2020-21: 35,000 2021-22: 35000 2022-23: 67,490	67490 MT production achieved during 2022-23.
3q	General remarks of inspecting officers on method of mining etc.			The mine is an open cast mine being worked with combination of excavator & tippers without deep hole drilling and blasting.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal	NIL	No separate OB Dump observed in the Mine.
4b	Location of topsoil, OB and mineral reject dumps	No proposal	NIL	No topsoil, OB & mineral reject generated.
4c	Number of dumps within lease area and outside of lease area	WML- 01dump OML - NIL	WML- 01 dumps OML - NIL (Inactive)	Fully stabilized dump

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4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	1 OB dump (Inactive) were situated outside the UPL.	Location of Inactive Dump carried out in past: ID N 1675374 - 1675461 E 655961 - 656144
4e	Number of active and alive dumps.	No proposal	Concurrent Back filling carried out in the worked-out Pit.	
4f	Number of dead dumps.	1 Dead Dump (ID-1)	1 Dead Dump (ID-1)	Stabilized with plantation.
4g	Number of dumps established.	1 dead dump	1 dead dump stabilized	Stabilized by plantation and partially by coir mating.
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	NIL	GD and RW's are constructed as per the R & R Plan in the past.
4i	Length of Retaining wall or garland drain all along dumps	No Proposal	NIL	Completed as per proposal previously at the toe of Dead Dump ID TW3 - 300 m GD3 - 300 m (PMCP)
4j	Number of settling ponds	No proposals	NIL	2 No.s of settling pond constructed outside lease the previous plan period.
4k	Specific comments of inspecting officer on waste dump management			2 Inactive Waste dumps are stabilized by way of plantation and with the engineering structures like toe wall and garland drains of 300m each. The waste generated during float ore mining is concurrently backfilled.

Solid Waste Management - Backfilling:

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Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Back filling Location N 1675159 - 1675222 E 656743- 656757.	Back filling Location N 1675159 -1675222 E 656743- 656757.	Back filling was done within the proposed limit.
5b	Area under backfilling of mined out area	0.084 Ha	0.084 Ha. Was covered under Backfilled area.	As per the proposals
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Not applicable	No generation of Top Soil.
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	2.524 Ha. Area was covered under Backfilling& is in under progress. As per PMCP Report.
5e	General remarks of inspecting officers on backfilling and reclamation etc.			The proposed backfilling is in progress and part of the backfilled is being prepared for reclamation by way of plantation.

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).	Annual report on PMCP to be submitted before 1st July of every year.	PMCP report submitted on 24.06.2023	
6b	Area available for rehabilitation (ha) .	No proposal	NIL	
6c	afforestation done (ha).	0.29 Ha.(safety zone),	0.29Ha.(safety zone),Inactive dump(Gap pilling)	Appears to be correct.
6d	No. of saplings planted during the year	290 saplings proposed - Green Belt,	290 saplings planted. Inactive dump: 20 saplings	Safety Zone: 290 saplings. OML - 20 saplings. Inactive dump: 20,

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6e	Cumulative no .of plants	16906 550 (2021-22) 17456	17456 330 17786 (plantation report)	Safety Zone: 5079, Inactive dump: 8311, Avenue Plantation: 300, OML - 4096 as On 31.03.2023
6f	Any other method of rehabilitation	No proposal	NIL	
6g	Cost incurred on watch and care during the year	14,500 Rs. Per year	4,71,475 Rs. Per year	Appears to be correct.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.084 Ha	60 mtr(L) x 14mtr (W) x 3 Mtr	As per the proposals.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.084 Ha	0.084 Ha	As per the proposals.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No proposal	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	NIL	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	NIL	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	290 saplings	310 saplings	Gap Plantation done in Safety Zone, Dump area

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6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.29 Ha.	0.29 Ha.	Gap Plantation done in Safety zone.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	0.29Ha, 290 no's of saplings (Gap Plantation)	290 no's of saplings (Gap Plantation)	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environment monitoring proposed in buffer zone and core Zone.	Environmental monitoring is carried out.	Environmental monitoring is being carried out on regular basis by Cosmo conscious Research laboratory. Bellary.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			All the proposed PMCP activities are satisfactorily carried out.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Dry crushing & Screening plant.	Crushing Plant -100TPH, Screening Plant 150TPH	2 units of dry crushing & screening plants.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Grade wise sorting proposed mechanically with help of crusher and screening plant.	Crushing and screening process are in under process.	1 no. of Crusher and screen plant
7c	Different grade of mineral sorted out at mines.	45-51% 51-55% +55-58% 58-60% 60-62% 62-65% +65%	51- 55 % Fe, 55-58% Fe, 62-65%Fe,	

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7d	Any beneficiation process at mines	No proposal	NIL	Only dry screen and crusher plant
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The mine generally consists of high-grade ores. The low-grade ores as and when produced is blended with higher grade ores to bring it to marketable grade thereby taking care of Mineral conservation aspect. However no beneficiation is required or being carried out.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	No utilization of topsoil	
8b	Concurrent use or storage of topsoil	No proposal	Nil	No generation of top soil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Backfilling proposed. No Separate dumps	Back filling was carried out as per the proposals	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	NIL	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	NIL	--

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8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	16906 550 (2021-22) 17456	17456 330 17786 (plantation report)	Plantation on Back filling Area & Inactive dump Gap filling in Safety zone.
8g	Survival rate	50-60%	75%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul road proposed to control airborne dust.	Water sprinkling is carried out regularly to control air pollution.	12,000 ltr capacity water tanker is engaged.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty in and around the mine is satisfactorily maintained by way of plantation both WML & OML and adding up to natural dense forest existing in the vicinity.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Returns submitted up to October 2023 Annual Returns submitted up to 2022-23 on 30/06/2023.	M.R Submitted on 08.11.2023 A.R Submitted on 30.06.2023	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri. G. Pompapathi - Mines Manager Sri. G. Pompapathi - MiningEngineer Sri. Sridhar M bhat - Geologist	On the date of inspection following Technical Officers were present. Sri. G. Pompapathi - Mines Manager Sri. G. Pompapathi - Mining -Engineer & Geologist - Sridhar M Bhat	The reported statutory officials were present on the day of inspection carried out in connection with the draft Mining Plan.

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current workings (O/C) - 8.114Ha, Dumping- 1.050 Ha. Occupied by plant, buildings, residential, welfare buildings & Roads - 0.92 Ha Other purposes (Stockyard, safety zone and others) - 14.636Ha	Appears to be correct.
9d	Scrutiny of Annual return on afforestation	310 saplings planted WML 20 saplings planted OML @75% survival rate.	Appears to be correct.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock: opening balance 64000 tons, Production: 67490 tons, Closing Stock 95490 tons.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price Lumps 62-65% -4675/- . Fines 51-55% - 2333/- 55-58% - 1752/-	

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9h	Scrutiny of Annual return on fixed assets	Rs. 1025041/- Plant and Machinery including transport equipment & pre-production exploration.	
9k	Scrutiny of Annual return on mining machineries	Wheel loader Volvo 3 cum - 1 Back Hoe 1.60 cum - 1 Tipper - 2 (16 T) Water Tanker 12000 ltr - 1 Crusher 200 T/H - 1	The reported machineries were found deployed on the day of inspection.

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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 :

(H M Shivakumar)

Indian Bureau of Mines