

**MCDR INSPECTION REPORT (2022-23)**

<b>S. N.</b>	<b>Particulars</b>	<b>Details</b>
1	Name of the Mine	<b>Dharmapur Iron Ore Mine/M L No. 2309</b>
2	Total Lease Area (Ha) with breakup of non-forest and forest land	36.42(as per lease deed) 38.50 (as per CEC) Forest - 36.42 Ha Non-forest – 0.00 Ha
3	Mine code	30KAR03055
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/1010/2011
5	Name of the lessee, Address, phone, email and fax number	Mr. Syed Ahmed M/s Zeenath Transport Company Zeenath House, Cowl Bazar Ballari-583 102, Karnataka State Ph. No. 08392-240085 Fax No. 08392-240462 Email ID: ztc2000@yahoo.com
6	Village	Ramgad Village
7	Taluk/Mandal	Sandur
8	District	Bellari
9	Pin code	583 119
10	State	Karnataka
11	Post office	Sushila nagar
12	Nearest police station	Sandur
13	Nearest Railway station	Hospet
14	Date of Grant of Mining Lease	19.04.1979
15	Date of Execution	04.06.2001
16	Date of opening of Mine	1979, 20.05.2020 Resumed Mining
17	Date of first Renewal, if applicable and its period & expiry	04.10.1980 to 03.10.1990
18	Date of second Renewal, if applicable and its period & expiry	04.10.1990 to 03.10.2000 Third Renewal from 03.10.2000 to 02.10.2020
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	25.04.2015 (As per MMRD Act 2015 the lease period valid up to 18.04.2029)
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. Syed Ahmed M/s Zeenath Transport Company Zeenath House, Cowl Bazar Dist: Ballary, State: Karnataka Pin Code 583 102 Ph. No. 08392-240084/240085 Fax No. 08392-240462 Email: ztco2000@yahoo.com
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	N A
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Ekambrappa B. BE Mining with First class Mines Manager certificate, Bangalore University Ph. No. 8088129599

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		Ztco2000@gmail.com 28.07.2023
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Imthiyaz.V B.E Mining and with Second class Mines Manager certificate, Bangalore University 9743277828 Ztco2000@gmail.com 09.11.2021
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	M. Peddanna M.Sc Geology Sri Venkateswara University Tirupati, Andhra Pradesh 7204768379 Ztco2000@gmail.com 20.09.2021
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	29.11.2022
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	22.09.2020
27	Mineral(s) granted in lease and proved for mining	Iron Ore
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanized, Others or Manual)	Fully Mechanized "A" Category
30	Captive/ Non captive	Non-captive
31	Date of inspection	30.12.2023
32	Name of accompanying mine officials with designation	Ekambrappa B (Mine's manager) M. Peddanna (Geologist) Imthiyaz V (Mining Engineer)

**Exploration**

S.N.	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
1a	Backlog of previous year	No Proposals. (2022-23)	09 DTH bore holes were drilled in the year 2022-23 with a total meterage of 379 mts	
1b	Exploration over lease area for Geological axis 1 or 2.	G1	Mineralized area G1 25.70 Ha.	In the lease area lessee has carried out 41 non-core boreholes (1509 mts) and 13 Core Boreholes (520.5 mts) and

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				43 Trial pits Entire Mineralized area of 25.70 Ha. Has been explored under G1 level.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No proposal	09 DTH boreholes were drilled by Sri Balaji Borewells, Sandur The expenditure 1.61 lakhs.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Nil	Entire Mineralized area of 25.70 Ha. Has been explored under G1 level.
1e	Balance reserves	Iron ore 6300031 tonnes (as on 01/04/2022 as per approved Mining plan)	Iron ore 61,81,741 MT as on 01.04.2023	Actual reserves as per Annual retruns submitted.
1f	General remarks of inspecting officer on geology, exploration etc.	The lease area consists of Iron ore as reef and also float ore. Iron ore reefs exist below the float ore. Lessee has carried out detailed exploration in the mineralized area and the entire mineralized area explored under G1 level.		

**Development**

S.N.	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
2a	Location of development w.r.t. lease area 2022 – 23	Float ore: N 1675017 - 1675395 E 656157 – 656441, N 1674759 - 1674925 E 656518 – 656593 Reef Ore: N1674714 – 1674754 E 656366 – 656416,	Float ore: N 1675017 - 1675395 E 656178 – 656441, N 1674759 - 1674925 E 656520 – 656616 Reef Ore: N1674714 – 1674741 E 656373 – 656402,	Mine workings carried out within limits.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No proposal of separate benches in topsoil, and overburden mineral	No separate benches maintained in topsoil, and overburden mineral.	Mining is done in float & Reef ore Zone.
2c	Stripping ratio or ore to OB ratio	1:0.25	1:0.25	ROM:118290 Tonnes

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				Waste 30100 tonnes
2d	Quantity of topsoil generation in m3	No Proposal	No Top soil generation during the year	Workings are in the broken-up area
2e	Quantity of overburden generation in m3	30170 m3 (60340 MT)	15050 m3 (30100 Mt)	Actual OB volume as per Annual Return
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	In the proposed production and development location for 2023-24, the lessee has stockpiled the minerals, which is not in accordance with the approved mining plan and is also obstructing the systematic development of the mine. Violation pointed out under Rule 11(1) of MCDR, 2017.		

**Exploitation**

S. N.	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
3a	Number of pits proposed for production	2 pits proposed for production. One in float ore & one in Reef zone.	Working carried out in 2 pits. Float & Reef ore zone.	Working the year 2022-23 carried out at proposed location.
3b	Quantity of ROM mineral production proposed	300000 MT	118290 MT (31.03.2022)	As per Monitoring Committee guidelines 118300 MT (CEC Limit) ltr No. MC/R&R/MPAP/2022-23 dated on 15.02.2023 for the year 2022-23.
3c	Recovery of salable/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 reject generation and threshold value declared	No Proposal	Nil	
3f	Quantity of sub-grade mineral generation	No Proposal	Nil	Old SGMD Stock-27009.600 MT (52-64%)
3g	Grade of sub-grade mineral generation	No Proposal	Not applicable	
3h	Manual / Mechanized method adopted for segregating from ROM	Only dry crushing & screening	Crusher 100 TPH Screening 150 TPH	Capacity of crushing plant installed 100 TPH, Screening 150 TPH

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3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposal	No such beneficiation study proposed and carried out. Worked in Float & Reef Ore Zone.	
3j	Provision of drilling & blasting in mineral benches	drilling & blasting in mineral benches	No drilling and blasting were carried out in the mineral benches.	Excavator deployed to in the float ore & Reef Zone.
3k	Provision of mining machineries in mineral benches	Excavator Volvo 1.6 CUM - 1 Volvo Wheel Loader 3 CUM -1 Mobile Crushing 100 TPH - 1 Mobile Screening 150 TPH - 1 TATA Prima - 2 water tanker 10000 ltr - 1	Excavator - 1 No. Wheel Loader -1 No. Dumpers - 2 No. (16 cum) Water tanker - 1 No. Crusher 100 TPH - 1 No. Screening 150 TPH - 1 No.	
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 in Float Ore Zone Bench Height: 3 mtr Bench Width: 4 mtr, in Reef Ore Zone Bench Height: 7.5 mtr Bench Width: 8 mtr	Suitable bench height and width maintained in mineral benches in Float Ore Zone Bench Height: 3 mtr Bench Width: 4 mtr, in Reef Ore Zone Bench Height: 7 mtr Bench Width: 8 mtr	Proposed height and width of bench maintained.
3m	Total area covered under excavation/pits	11.47 Ha. At the end of the year	11.47 Ha.	As per AR submitted for the year 2022-23.
3n	Ore to OB ratio for the pit/mine during the year	1:0.25	1:0.25	ROM- 118290 tonnes Waste - 30100 tonnes
3o	Total area put in use under different heads at the end of year	Area under Mining - 11.47 Ha Waste dumps - 10.72 Ha. Mineral Storage - 0.37 Ha.	Area under Mining - 11.47 Ha Waste dumps - 10.72 Ha. Mineral Storage - 0.37 Ha. Infrastructure - 0.70 Ha	Proposal data as per approved Mining plan and actual data as per Annual Return submitted FY

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		Infrastructure – 0.70 Ha Roads – 0.79 Ha. Others (Greenbelt, SGMD, Protective measures) – 1.82 Ha. Unused area – 10.55 Ha. (At the end of the year as per approved mining plan)	Roads – 0.79 Ha. Others (Greenbelt, SGMD, Protective measures) – 1.82 Ha. Unused area – 10.55 Ha. At the end of the year	2022-23.
3p	Production of ROM mineral during last five-year period, as applicable	2016-17: 36000 2017-18:36000 2018-19: 36000 2019-20:36000 (in tonnes) 2020-21:69500 (in tonnes) 2021-22:82000 (in tonnes) 2022-23:300000 (in tonnes)	2016-17: Nil 2017-18: Nil 2018-19: Nil 2019-20: Nil (in tonnes) 2020-21:36000 (in tonnes) 2021-22:80230 (in tonnes) 2022-23:118290 (in tonnes)	The mining operation was started on 22.05.2020 (For the want of statutory clearances. Monitoring Committee). For the year 2022-23. 118290 MT achieved as per guidelines of Monitoring Committee.
3q	General remarks of inspecting officer on method of mining etc.	Method of mining is mechanized as per proposal.		

**Solid Waste Management-Dumping**

S.N.	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate Backfilling & Dump proposed for OB (Section H-H’).	Concurrent backfilling observed in mine worked out area.	
4b	Location of topsoil, OB & mineral reject dumps	One over burden dump proposed	N1675306-1675375 E656242 – 656278. However, Mineral stocking is not carried out at the earmarked location as per approved Mining plan and huge stocking is done at different locations between Section line AA’ and DD’ where there are working proposals for	Mineral stocking is not carried out at the earmarked location as per approved Mining plan and huge stocking is done at different locations between Section line AA’ and DD’ where there are working proposals for

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			working proposals for the year 2023-24.	the year 2023-24. Violation pointed out under Rule 11(1) of MCDR, 2017
4c	Number of dumps within lease area and outside lease area	WML: 6 Dumps ID-1, ID-2, ID-3, ID-4 One Active dump, One dump on Backfilling area. OML: NIL	WML: 6 Dumps ID-1, ID-2, ID-3, ID-4 One Active dump, One dump on Backfilling area. OML: NIL	Active and Inactive dumps are within the lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Total 05 no. of dumps, located outside UPL. (Dump ID's AD, ID1, ID2, ID3, ID4)	Total 05 no. of dumps, located outside UPL. (Dump ID's AD, ID1, ID2, ID3, ID4)	Location of Old OB dumps carried out in past: AD: N 1675387-1675128, E 656195 – 655776  ID1- N1674224 to 1674169, E 656175 to 656178,  ID2-N1674496 to 1675036, E- 655636 to 656051  ID3-N1674499 to 1674488, E- 656573 to 656588  ID4- N1675069 to 1675153 E- 655703 to 655864
4e	Number of active & alive dumps	2 no's of Active dumps AD TD-1	2 no's of Active dumps AD TD-1	Backfilling & Dumping N1675340-1675384 E656212–656257
4f	Number of dead dumps	4 Dead Dumps (ID-1, ID-2, ID-3, ID-4.)	4 Dead Dumps (ID-1, ID-2, ID-3, ID-4.)	Stabilized with plantation.
4g	Number of dumps stabilized	4 Dumps (ID-1, ID-2, ID-3, ID-4.)	4 Dead Dumps (ID-1, ID-2, ID-3, ID-4.)	Stabilized by plantation and

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			3,ID-4.	partially by coir mating.
4h	Whether Retaining wall or garland drain all along dumps are there	One Retaining wall(185m) & One Garland Drain(190m)	Retaining wall 185m Completed. Garland drain is under progress.	Garland drain construction was under progress.
4i	Length of Retaining wall or garland drain all along dump	One Retaining wall(185m) & One Garland Drain (190m)	Retaining wall 185m Completed. Garland drain is under progress	TW1 – 61 m TW2 – 606 m TW4 – 190 m TW6 – 137 m GWCW – 235 m TW8- 185 m Total 1414 m GD1 – 63 m GD2 – 621 m GD4 – 660 m GD6 – 140 m GD8 – 310 m
4j	Number of settling ponds	No proposal	Nil	3 No.s of settling pond constructed with in lease, 2 No.s of settling pond constructed outside lease the previous plan period.
4k	Specific comments of inspecting officer on waste dump management.	Lessee has made efforts to implementation of R & R activities and to stabilize the waste dumps.		

**Solid Waste Management-Backfilling**

S.N.	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Backfilling is proposed in mine worked out area.	Backfilling is proposed in mine worked out area.	Concurrent backfilling is in progress at the proposed location.
5b	Area under backfilling of mined out area	0.3 Ha	0.3 Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	Nil	No generation of Top soil.
5d	Total area fully reclaimed & rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Lessee has done the concurrent backfilling at the mined out area. The backfilling is under progress.		

**Progressive Mine Closure Plan**

S.N.	Item	Proposals	Actual work	Remarks
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		(2022-23)	(2022-23)	
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.	Annual report on PMCP to be submitted before 1 <sup>st</sup> July of every year.	PMCP report is submitted.	PMCP Report submitted on 24.06.2023
6b	Area available for rehabilitation (ha)	No proposal	Nil	
6c	Afforestation done (ha)	0.38 Ha. (Safety zone, Inactive dumps)	0.38 Ha. (Safety zone, Inactive dumps)	Completed as per Proposal.
6d	No. of saplings planted during the year (2022-23)	950 saplings proposed-Green Belt, & Inactive Dumps in gap area.	1271 samplings	Plantation mainly done on the inactive dumps and safety zone area.
6e	Cumulative no. of plants	No proposal	217422 saplings in all.	Actual figures from Annual return 2022-23.
6f	Any other specific method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch & care during the year (2022-23)	No proposal	1,98,000 Rs. Per year	As reported by lessee team during inspection.
6h	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D)	reclamation by backfilling (L-50*B-20*L-03)	reclamation by backfilling (L-50*B-20*L-03)	Reclamation is under progress.
6i	Compliance on reclamation and rehabilitation by backfilling ii) Void filled by waste/tailings	No proposal	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling iii) Afforestation on the backfilled area	No proposal	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	0.38Ha, 150 no's of saplings (Gap Plantation)	251 no's of saplings (Gap Plantation)	Gap filling done in Safety zone.

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6n	Compliance of Rehabilitation of waste land within lease ii) Area rehabilitated (ha)	0.38 Ha.	0.38 Ha.	Gap filling done in Safety zone.
6o	Compliance of Rehabilitation of waste land within lease iii) Method of rehabilitation	By Plantation	By Plantation	
6p	Compliance of Environmental monitoring (core zone & buffer zone)	Environment monitoring proposed in buffer zone and core Zone.	Environmental monitoring is carried out.	Cosmo conscious Research laboratory. Bellary.
6q	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Lessee has undertaken PMCP activities as proposed in the approved Mining plan. Concurrent backfilling in the mined-out area is under progress. Once it is completed, plantation may be done on the area to rehabilitate the mined-out area.		

**Mineral Conservation**

S.N.	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Dry crushing & Screening plant.	Crushing Plant -100TPH, Screening Plant 150TPH	1 unit of dry crushing & screening plants.
7b	Method of grade-wise mineral sorting i.e., manual or mechanical	mineral sorting in mechanical method by crushing and screening.	As per proposal	Crushing and screening done at mine site for separation of lumps and fines.
7c	Different grade of mineral sorted out at mines	Lumps & fines	Lumps 55%-58% Fe, 58%-60% Fe 62%-65% Fe 62-65% Fe. Fines 51%-55% Fe. 55-58% Fe 58-60% Fe	
7d	Any beneficiation process at mines.	No proposal	Nil	Only dry screen and crusher plant
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Lessee has done crushing and screening for grade-wise separation of lumps and fines at mine site. Presently there is no beneficiation plan at the mine site. At present grade, products can be directly salable at market.		

**Environment**

S.N.	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
8a	Separate removal and utilization of topsoil (Rule	No proposal	No utilization of topsoil	

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	32)			
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)	OB generated is proposed to Backfilling & Dumping	Back filling & Dumping was carried out as per the proposals	--
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	Concurrent back filling proposed at mined out area.	Concurrent backfilling to restore the land to its original position is under progress.	--
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposals	--	Plantation 4.36 Ha. On Inactive dumps. 0.32 Ha. Backfilling
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	No proposal	1271 sapplings planted during year 2022-23. Total no. at the end of the year is 217422	Gap filling, Inactive dumps & Safety zone. Actual figures given are from Annual return.
8g	Survival rate	70%	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.	10,000 ltr capacity water tanker is engaged.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around mine is moderate.		

**Compliance of Rule 45**

S.N	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to November 2023. On 08.12.2023. A.R. Submitted 2022-23 on 30.06.2023		Returns submitted within stipulated time.
S.N	Item	Details GIVEN in A.R.	Observation of I/ Officer	Remarks
9b	Scrutiny of Annual return for	Mines Manager - Shri.Pompapathi G	All three Mine officials were	

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	information on Mining Engineer, Geologist and Manager	Mining Engineer Mr. Imthiyaz. V Geologist-M. Peddanna	present during the day of inspection.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current workings (O/C) – 11.47 Ha., Waste dump – 10.72 Ha. Infrastructure – 1.49 Ha., Other purposes (Stockyard, safety zone and others) – 12.74 Ha.	Appears to be correct	
9d	Scrutiny of Annual return on afforestation	1271 no's (WML) 50 no's (OML)	Appears to be correct	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock: 25290 tonnes Dump working: 27009.60 tonnes <u>Lumps</u> 55% to below 58%Fe : 8000 tonnes 58% to below 60%Fe : 8000 tonnes 60% to below 62%Fe : 7463 tonnes 62% to below 65%Fe : 8000 tonnes <u>Fines:</u> 51% to below 55%Fe : 24016 tonnes 55% to below 58%Fe : 10000 tonnes 62% to below 65%Fe : 1592 tonnes	Appears to be correct.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex- mine price: Lumps (Fe) 55-58% - 4196/- 58-60% - 4799/- 60-62% - 5017/- 62-65% 4844/- Fines (Fe): 51-55%- 2244/- 55-58% -2602/- 58-60%- 2734/-	Appears to be correct.	
9i	Scrutiny of Annual return on fixed assets	19,00,451 Rs including plants, machineries and transport equipments.	Appears to be correct.	
9k	Scrutiny of Annual return on mining	Excavator – 1 No. Wheel Loader -1 No.	Appears to be correct.	

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	machineries	Dumper - 2 No.s (16 cum) Water tanker- 1 No. Crusher 100 TPH – 1 No. Screening 150 TPH -1 No.		
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(Dr. Suresh Prasad)  
Regional Controller of Mines