

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

MCDR inspection REPORT

Bangalore regional office

Mine file No : KNT/BLR/FE/150/BNG

Mine code : 30KAR03017

- (i) Name of the Inspecting : **S19**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri P. Venkateswara Rao, Mine Manager, Shri Domnic S
Official with
Designation
- (iv) Date of Inspection : 19/08/2022
- (v) Prev.inspection date : 07/09/2021

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **VYASANKERE**
- (b) **Registration NO.** : **IBM/199/2011**
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : KARNATAKA
- District : BELLARY
- Village : VYASANKERI
- Taluka : HOSPET
- Post office : VYASANKERI
- Pin Code : 583201
- FAX No. : (08394) 232333
- E-mail : rahulbaldota@mspllimited.co
- Phone : (08394) 232003 08394232002
- (f) **Police Station** : Hospet
- (g) **First opening date** : 01/11/1962
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : M/s MSPL Limited
BALDOTA ENCLAVE, ABHERAJ BALDOTA RD,
HOSPET, BELLARY-583201
3. (a) **Lease Number** : KAR0196
- (b) **Lease area** : 858
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 13/11/2002
4. **Mineral worked** : IRON ORE Main

5. Name and Address of the

Lessee : MSPL LTD
CO-OPERATIVE COLONY,
HOSPET, BELLARY, BELLARY
KARNATAKA
Phone:28402,28502
FAX :08394-24537,25052

Owner : Dr. Meda Venkataiah..Nominated Owner
M/s MSPL Limited
BaldotaEnclave,Abheraj
Baldota Road Hosapete
BELLARY KARNATAKA
Phone: 08394232002
FAX : 08394232444

Agent : K. MADHUSUDHANA
MSPL Limited, Baldota
Enclave Abheraj Baldota
Road, Hosapete BELLARY
KARNATAKA
Phone: 08394-232002
FAX : 08394-232444

Mining Engineer
Name : DOMNIC SAVIO,Full Time
Qualification : BE MINING
Appointment/ : 01/04/2016
Termination date

Geologist
Name : Prasanth Laharia,Full Time
Qualification : M.Sc GEOLOGY
Appointment/ : 01/01/2022
Termination date

Manager
Name : P Venkateshawara Rao
Qualification : DIP IN MINING & FCC
Appointment/ : 01/09/2012
Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	30/11/1989
Plan/Scheme of Mining		Existing rule 11 MCDR1988	06/08/1990
		Mining Scheme rule 12 MCDR1988	04/04/1996
		Fresh under rule 22 MCR1960	10/03/1997
		Renewal under rule 22 MCR1960	03/09/2002
		Modif.of approved Mining Plan	13/08/2004
		Modif.of approved Mining Plan	25/04/2005
		Mining Scheme rule 12 MCDR1988	30/04/2007
		Mining Scheme rule 12 MCDR1988	11/01/2013
		Modif.approved Mining Scheme	22/06/2016
		MP review under 17(1) MCR 2016	04/11/2016
		MP review under 17(1) MCR 2016	16/02/2021
		MP review under 17(1) MCR 2016	16/02/2021
		FMCP under 23C(1)	25/02/2021

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal	NIL	NIL
1b	Exploration over lease area for geological axis 1 or 2	No Proposal	NIL	NIL
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal	NIL	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1-15 ha G2-Nil G3-Nil Non-mineralized-339.71 ha	G1-15 ha G2-Nil G3-Nil Non-mineralized-339.71 ha	G-1 level of exploration completed & Geological Report submitted in accordance with Rule 12(4) of MCDR 2017.
1e	Balance reserve as on 01/04/20	27,896,836 tonnes as on 31.12.2020 with grade range 62-68% Fe(HIO)	25,597,254 tonnes as on 1.04.2022 after depleting production.	As reported in AR 2021-22.
1f	General remarks of inspecting officers on geology, exploration etc			The processed output [digital elevation model (DEM) and Orthomosaic] have not been submitted in accordance with the Standard Operating Procedures under sub rule (5) of rule 34A of MCDR, 2017 for carrying out drone survey and submission of Digital Aerial Images of Mining areas. Violation issued under Rule 34A(1) of MCDR 2017.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	North & A-block B block (NA5-NA5' to DD')-North block FF' to L1-L1' in B-block. For North & A-block- Top-780 mRL & bottom 629 mRL. For B block - Top- 746 mRL. Bottom- 683 mRL.	It was observed during inspection that the height and width of the few benches of North & A block at North western portion have not been maintained as per the proposal between Section NA-NA' to NC-NC.' Also, the vertical extent(mRL) of Block-B at Sec J-J' have been developed beyond the proposed vertical limit of 683 mRL.	Violation issued under Rule 11(1) of MCDR 2017.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed in OB & mineral.	It was observed during inspection that the height and width of the few benches of North & A block at North western portion have not been maintained as per the proposal between Section NA-NA' to NC-NC.' Also, the vertical extent(mRL) of Block-B at Sec J-J' have been developed beyond the proposed vertical limit of 683 mRL.	Violation issued under Rule 11(1) of MCDR 2017.
2c	Stripping ratio or ore to OB ratio	1:2.42 (In Cu.m)	1:2.44 (In Cu.m)	Ore: 1,761,370~ 503,248 Cu.m OB: 2,457,675 ~1,228,837 Cu.m
2d	Quantity of topsoil generation in m3	No proposal	NIL	NIL
2e	Quantity of overburden generation in m3	1,228,620 Cu.m proposed	1,228,837 Cu.m achieved	NIL

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	It was observed during inspection that the height and width of the few benches of North & A block at North western portion have not been maintained as per the proposal between Section NA-NA' to NC-NC'. Also, the vertical extent(mRL) of Block-B at Sec J-J' have been developed beyond the proposed vertical limit of 683 mRL. Violation issued under Rule 11(1) of MCDR 2017.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 pits proposed. N and A block, B block	Worked in 2 pits, N and A block, B block	NIL
3b	Quantity of ROM mineral production proposed	1,800,000tons proposed	1,761,370 tons achieved.	NIL
3c	Recovery of sailable/usable mineral from ROM production	100% proposed	100% achieved	NIL
3d	Quantity of mineral reject generation	No proposal	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	NIL	NIL
3f	Quantity of sub grade mineral generation.	No proposal	NIL	NIL
3g	Grade of sub grade mineral generation	No proposal	NIL	NIL

3h	Manual / Mechanised method adopted for segregating from ROM	Only Dry crushing & screening proposed	Only Dry Crushing & screening carried out. Crusher: Specification: Capacity: 475 Tph-1. 150 Tph-1. 100 Tph-1. F	Product size: 0 to 10mm(fines), 10 to 40mm(Lumps/C-ore)
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	Drilling and Blasting Proposed in hard strata	Drilling and Blasting carried out in hard strata Drill-115 mm dia. Blasting Materials used: ANFO/Slurry in conjunction with detonators & safety fuse.	NIL
3k	Provision of mining machineries in mineral benches	Yes Mining Machinery Proposed: Excavators-550 TPH- 2 nos. &300 TPH-3 nos. Tippers- 8 nos. Drill- 3 nos. Wheel loader- 11.	Yes Mining Machinery deployed: Excavator- 3 Cu.m-7 nos., 0.3 Cu.m-2 nos., 2.1 Cu.m- 3 nos. Tipper: -25tonnes- 50 nos. Drill-115 mm-4 nos. Wheel Loader: Capacity-1.6 Cu.m-7 nos. Water tanker-8KL- 1no. & 12Kl-5 nos.	As reported in AR 2021-22.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of bench 9m-10 m proposed for both OB & mineral.	It was observed during inspection that the height and width of the few benches of North & A block at North western portion have not been maintained as per the proposal between Section NA-NA' to NC-NC'	Violation issued under Rule11(1) of MCDR 2017.
3m	Total area covered under excavation/pits	86.655 Ha proposed	86.655 Ha as on 1.04.2022	As reported in AR 2021-22.

3n	Ore to OB ratio for the pit/mine during the year.	1:2.42 (In Cu.m)	1:2.44 (In Cu.m)	Ore: 1,761,370~ 503,248 Cu.m OB: 2,457,675 ~1,228,837 Cu.m
3o	Total area put in use under different heads at the end of year	Mining-86.655 Waste dump-84.292 Infrastructure & roads-16.557	Mining-86.655 Waste dump-84.292 Infrastructure & roads-16.557	As reported in AR 2021-22.
3p	Production of ROM mineral during the last five year period as applicable	2017-18:1,800,000 2018-19:1,800,000 2019-20:1,800,000 2020-21:1,800,000 2021-22:1,800,000 (In tonnes)	2017-18:1,800,000 2018-19:1,800,000 2019-20:1,800,000 2020-21:1,800,000 2021-22:1,761,370 (In tonnes)	CEC Limit-1.8 MMTPA.
3q	General remarks of inspecting officers on method of mining etc.			It was observed during inspection that the height and width of the few benches of North & A block at North western portion have not been maintained as per the proposal between Section NA-NA' to NC-NC'. Also, the vertical extent(mRL) of Block-B at Sec J-J' have been developed beyond the proposed vertical limit of 683 mRL. Violation issued 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)	Separate dumping of OB proposed. No top soil & mineral reject generation proposed.	Separate dumping of OB carried out at Waste dump. No topsoil & mineral Reject generation.	NIL

4b	Location of topsoil, OB and mineral reject dumps	OB dumping proposed at Dump 2: E - 649000 to 649650 N - 1681220 to 1681800 Dump 3: E - 648400 to 649300 N - 1682000 to 1682600 Dump 6: E - 650100 to 650650 N - 1680800 to 1681200 Backfilling North (Sec-NA5-NA5' to NA3-NA3')	The waste dumping at dump no 3 at South eastern portion have been carried out beyond the proposed extent. (Actual N-1681966 E-649317).	Violation issued under Rule 11(1) of MCDR 20017.
4c	Number of dumps within lease area and outside of lease area	5 OB dumps within lease area (D-1 & D-4 inactive dump & D-2, D-3 & D-6 dump active dumps)	5 OB dumps within lease area (D-1 & D-4 inactive dump & D-2, D-3 & D-6 dump active dumps).	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Portion of inactive dump D-4 & active dump D-6 within UPL	Portion of inactive dump D-4 & active dump D-6 within UPL	As per the last approved document.
4e	Number of active and alive dumps.	3 Active and alive dumps (D-2, D-3 & D-6) & 1 backfill North area	3 Active and alive dumps (D-2, D-3 & D-6) & 1 backfill North area	NIL
4f	Number of dead dumps.	2 Inactive/dead dumps within ML area (D-1 & D-4)	2 Inactive/dead dumps within ML area (D-1 & D-4)	NIL
4g	Number of dumps established.	No proposal	NIL	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall & garland drain construction proposed along dump.	Retaining wall & garland drain construction carried along dump.	NIL

4i	Length of Retaining wall or garland drain all along dumps	105.20 Metres Retaining wall and garland drain construction proposed	500 metres Retaining wall and garland drain construction carried out along waste dumps	As reported by the Lessee during inspection.
4j	Number of settling ponds	2 nos. of SST proposed at dump D-1 & D-6.	1 SST constructed & 1 construction in progress.	As reported by the Lessee during inspection. So far 5 out of 6 SST constructed.
4k	Specific comments of inspecting officer on waste dump management			The waste dumping at dump no 3 at South eastern portion have been carried out beyond the proposed extent. (Actual N-1681966 E-649317). Violation issued under Rule 11(1) of MCDR 2017.

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.	Backfilling proposed at the North Eastern exhausted pit. (Sec-NA5-NA5' to NA3-NA3')	Backfilling carried at the North Eastern exhausted pit Sec-NA5-NA5' to NA3-NA3')	NIL
5b	Area under backfilling of mined out area	2.5 Ha proposed	2 Ha achieved	As reported by the Lessee during inspection.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	NIL	NIL
5d	Total area fully reclaimed and rehabilitated	No proposal	NIL	NIL

5e General remarks of inspecting officers on backfilling and reclamation etc.

The plans and sections required under these rules shall be maintained up to date showing also the respective proposal of approved mining plan for various activities pertaining to that year, within three months in case of category 'A' mines as referred to in clause (a) of sub-rule(2) of rule 55. It was observed during inspection that the plans maintained have not shown the respective proposal of approved mining plan as per the provision of this rule. Violation issued under Rule 31(4) of MCDR 2017

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).	To be submitted before 1st of July every year.	The yearly report as required under Rule 26(2) of MCDR 2017 setting forth the extent of protective and Rehabilitative works carried out as envisaged in the approved final mine closure plan and if there are any deviations, reasons thereof shall be submitted before 1st of July every year. The yearly report has not been submitted as per the provision of this rule and FMCP approval condition.	Violation issued under Rule 26(2) of MCDR 2017.

6b	Area available for rehabilitation (ha) .	4 Ha proposed	4 Ha achieved	(Gap-filling plantation) Dump-D-1.
6c	afforestation done (ha).	4 Ha proposed	4 Ha achieved	(Gap-filling plantation) Dump-D-1.
6d	No. of saplings planted during the year	20000 saplings plantation proposed	19000 saplings planted	As reported in AR 2021-22.
6e	Cumulative no .of plants	1,00,000 from 2017-18 to 2021-22 as per the approved document.	96,000 from 2017-18 to 2021-22 as per the Annual returns of the respective year.	As reported in ARs.
6f	Any other method of rehabilitation	No proposal	NIL	NIL
6g	Cost incurred on watch and care during the year	43.11 lacs proposed for dump management & watch and care.	As per proposal	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	260m x 250m x 70m proposed for backfill.	130m x 60m x 25m backfilling carried out	As reported by the Lessee during inspection.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Void filled by waste proposed, 2,04,200Cum~4,08,400 tons.	Void filled by waste, 1,95,000 Cum-3,90,000 tons	As reported by the Lessee during inspection.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposal	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	NIL	NIL

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	NIL	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	NIL	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	NIL	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring proposed in both core and buffer zone.	Environmental monitoring carried out for air, water, noise and soil in both core and buffer zone as per the proposal. March-22 monitoring report available during inspection. Parameters within limit.	Parameters within limit.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	The yearly report as required under Rule 26(2) of MCDR 2017 setting forth the extent of protective and Rehabilitative works carried out as envisaged in the approved final mine closure plan and if there are any deviations, reasons thereof shall be submitted before 1st of July every year. The yearly report has not been submitted as per the provision of this rule and FMCP approval condition. Violation issued under Rule 26(2) of MCDR 2017.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Only Dry crushing & screening proposed	Only Dry Crushing & screening carried out. Crusher: Specification: Capacity: 475 Tph-1. 150 Tph-1. 100 Tph-1.	Product size: 0 to 10mm(fines), 10 to 40mm(Lumps/C-ore)
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No grade wise sorting proposed	NIL	NIL
7c	Different grade of mineral sorted out at mines.	No grade wise sorting proposed.	Lumps 62-65% Fe. Fines 62-65% Fe	As reported in AR 2021-22
7d	Any beneficiation process at mines	No proposal	NIL	NIL

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The mineral conservation activities are carried out inside mine as per the proposal.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	NIL	NIL
8b	Concurrent use or storage of topsoil	No proposal	NIL	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	3 Active dumps for OB dumping (D-2, D-3 & D-6) & 1 backfill North area.	3 Active dumps for OB dumping (D-2, D-3 & D-6) & 1 backfill North area.	The waste dumping at dump no 3 at South eastern portion have been carried out beyond the proposed extent. (Actual N-1681966 E-649317). Violation issued under Rule 11(1) of MCDR 2017.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	260m x 250m x 130m x 60m x 25m 70m waste rock proposed for backfill.	backfilling carried out.	As reported by the Lessee during inspection.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	NIL	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1,00,000 from 2017-18 to 2021-22 as per the approved document.	96,000 from 2017-18 to 2021-22 as per the Annual returns of the respective year.	As reported in ARs.

8g	Survival rate	85 % proposed within ML.	85% achieved within ML.	As reported in AR 2021-22.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed on roads to control airborne dust.	Water sprinkling carried out with 8KL-1 no and 12 Kl-5 nos. of water sprinklers to control airborne dust.	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The waste dumping at dump no 3 at South eastern portion have been carried out beyond the proposed extent. (Actual N-1681966 E-649317). Violation issued under Rule 11(1) of MCDR 2017.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to July-22 on 08.08.2022 A.R. Submitted up to 2021-22 on 29.06.2022.	M.R. Submitted up to July-22 on 08.08.2022 A.R. Submitted up to 2021-22 on 29.06.2022.	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager - Shri. P.VENKATESWARA RAO Mining Engineer-Shri. DOMNIC SAVIO J Geologist-Shri. PRASHANT LAHARIA	Appears to be correct.	NIL

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	i)Covered under current o/c working- 86.655 ha ii)Used for waste disposal- 84.292 ha iii)Occupied by plant, buildings, residential, welfare buildings & roads -16.557 ha	Appears to be correct.	NIL
9d	Scrutiny of Annual return on afforestation	19000 nos. of saplings within ML area with 85% survival rate	Appears to be correct.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	Appears to be correct.	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM O/s- 0 tons Production- 1,761,370 tons C/s- 0 tons.	Appears to be correct.	NIL
		Graded Ore O/s- 278,376.33 tons Production- 1,761,370 tons Despatch- 1,605,163.45 tons C/s- 434,582.88 tons. (Includes both lumps & fines)		

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production- 3625 Rs/ton Ex-mine price(Rs/ton): Lumps 62-65%- Rs. 6354.58 Fines: 62-65%- Rs. 6381.58	Appears to be correct.	NIL
9h	Scrutiny of Annual return on fixed assets	Rs. 274614029 including Land, industrial & plant, and machinery.	Appears to be correct.	NIL
9k	Scrutiny of Annual return on mining machineries	Excavator- 3 Cu.m-7 nos., 0.3 Cu.m-2 nos., 2.1 Cu.m- 3 nos. Tipper: -25tonnes- 50 nos. Drill-115 mm-4 nos. Wheel Loader: Capacity-1.6 Cu.m-7 nos. Water tanker- 8KL- 1no. & 12Kl-5 nos. etc.	Appears to be correct.	NIL

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
MCDR17	Rule 11(1)	05/09/2022	30/11/2022				
MCDR17	Rule 26(2)	05/09/2022	30/11/2022				
MCDR17	Rule 31(4)	05/09/2022	30/11/2022				
MCDR17	Rule 34(1)	05/09/2022	30/11/2022				

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines