INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR inspection REPORT

Nagpur regional office

	Mine	file No : MP/CHW/MN-3	36/N	GP Mine code : 40MPR08003
	(i)	Name of the Inspectin Officer and ID No.	g :	GQ05) SANJAY M. GIRHE
	(ii)	Designation	:	Regional Mining Geologist
	(iii)	Accompaning mine Official with Designation	:	
	(iv)	Date of Inspection	:	09-AUG-21
	(v)	Prev.inspection date	:	28-AUG-18
		P	ART-	I : GENERAL INFORMATION
1.	(a)	Mine Name	:	GWARI BADONA (8.776H)
	(b)	Registration NO.	:	IBM/11435/2012
	(c) (d) (e) (f)	Category Type of Working Postal address State District Village Taluka Post office Pin Code FAX No. E-mail Phone Police Station		A Other than Fully Mech. Opencast MADHYA PRADESH CHHINDWARA NA chhindwaramines@gmail.com 9810491848 Lodhikheda
	(g)	First opening date	:	US-APR-US
2.	(n) Addr corr	weekly day of rest ess for espondance	:	Village- Gowari-Bodona, P.O.Khairitaigaon Taluk- Sausar, Dist. Chhindwara, Madhya Pradesh - 480108
3.	(a) (b) (c) (d)	Lease Number Lease area Period of lease Date of Expiry	::	MPR2204 8.78 20 15-MAY-27
4.	Mine	ral worked	:	MANGANESE ORE Main

- 5. Name and Address of the Lessee : M/S CHHINDWARA MINES PVT. LTD. L-1/9 HAUZ KHAS ENCLAVE, NEW DELHI PIN - 110016 CHHINDWARA MADHYA PRADESH Phone:09810079291, 09303186884 FAX :
- 6. Date of approval of Mining : Fresh under rule 22 MCR1960 15-MAR-07 Plan/Scheme of Mining

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	During the year 2019-20 to 2020-21 total 05 boreholes were proposed	Exploraion not carried out as proposed	Violation under Rule 11(1) of MCDR,2017 was issued. However, the fresh proposal has been given in ROMP which is under process.
1b	Exploration over lease area for geological axis 1 or 2	Total 10 boreholes were proposed during plan period 2019- 20 to 2022-23 for G1 axis	Exploration during the year 2020-21 not carried out	Violation under Rule 11(1) of MCDR,2017 was issued
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	No exploration carried out during the year 2020-21
1d	Balance area to be explored to bring Geological axis in 1 or 2	Total 10 boreholes were proposed during plan period 2019- 20 to 2022-23 for G1 axis	No exploration carried out as proposed. G2 area-1.80Ha, G3 area- 0.98Ha, Unexplored area- 5.99Ha	Violation under Rule 11(1) of MCDR,2017 was issued
1e	Balance reserve as on 01/04/20	Reserves in Tonnes Probable (122)-11840 MT Resources in tonnes Pre- Feasibility(2 22): 17200 MT Inferred(333) : 22680 MT The reserve/resou rces position as per ROMP approved 28.02.2020	Reserves in Tonnes Probable (122) - 8850 MT Resources in tonnes Pre-Feasibility(222): 17200 MT Inferred(333): 22680 MT The reserve/resources position as per annual return 2020-21	No additional resources/reserves have been estimated

1f	General remarks	Exploration	No exploration carried	Manganese ore
	of inspecting	proposed were	out. Violation under	deposit along with
	officers on	given as per	Rule 11(1) of MCDR,2017	host rock mica
	geology,	approved ROMP	was issued	schist & meta
	exploration etc			sedimentary beds
				of Dolomit belong
				to Sausar group.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In exisiting Pit-1, Development was proposed in 07 benches (from 450mRL to 307mRL) & Manganese ore from from (319mRL to 305mRL)	Working carried out almost as per the approved proposals	There is single working pit with worked out area of 4.62Ha with 360mRL to 305mRL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Total 07 benches in Overburden/int erburden and 02 benches working for Mn ore proposed	Working almost carried out as per the proposals	There is single working pit with worked out area of 4.62Ha with 360mRL to 305mRL
2c	Stripping ratio or ore to OB ratio	1:11.73 Tonne/CuM	Acheived as 1:14.73 Tonne/CuM	Total OB generated during the year 2020-21 as 26600 CuM
2d	Quantity of topsoil generation in m3	Not Proposed	Nil	Top soil mostly lateritic soil mixed with top overburden material. Working was proposed in almost working pit.
2e	Quantity of overburden generation in m3	26607 CuM during the year 2020-21	Acheived as 26600 CuM during the year	

opencast method of

mining.

2f General remarks Working Working carried out as There is single of inspecting proposals were per the approved working pit of officers on given in proposals following development of dimensions (320m x working Pit-1 pit w.r.t. type 125m x 50-55mRL). of deposit etc Working being carried out in single pit by

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit i.e. Pit-1	Working carried out in Pit-1	There is single working pit of following dimensions (320m x 125m x 50-55mRL)
3b	Quantity of ROM mineral production proposed	2268 Tonne Manganese ore production during the year 2020-21	1800 Tonne Manganese ore production acheived during the year	Production slightly on lower side
3с	Recovery of sailable/usable mineral from ROM production	90% Recovery	Acheived about 90% as proposed	Mn ore above threshold being recovered fully
3d	Quantity of mineral reject generation	Not Proposed	Nil	No mineral rejects generated during the year
3e	Grade of mineral rejects generation and threshold value declared.	Not Proposed	Nil	No mineral rejects generated during the year
3f	Quantity of sub grade mineral generation.	Not Proposed	Nil	No sub-grade ore production proposed during the year
Зg	Grade of sub grade mineral generation	Not Proposed	Nil	No sub-grade ore production proposed during the year

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method by suitable screening proposed	Ore segregation by mechanical/screening method being practised.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	NA	
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting proposed by Jack hammer/Wagon drill of 110mm dia	Drilling blasting carried out as proposed	
3k	Provision of mining machineries in mineral benches	Hydraulic Shovel- 1CuM capacity TATA Dumper model 2515, 24 T capacity Tractor mounted Air Compressor Jack Hammer with Drill rods Mahindra Tractor with Water Tank on trolley Water pump with Diesel engine	Hydraulic Shovel- 1CuM capacity TATA Dumper model 2515, 24 T capacity Tractor mounted Air Compressor Jack Hammer with Drill rods Mahindra Tractor with Water Tank on trolley Water pump with Diesel engine	Machineries proposed as per the category of mine
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	OB bench height of 3mts & bench height of 6m proposed in mineral	Working carried out as per the proposals	

3m	Total area covered under excavation/pits	4.62 Ha area was proposed in approved Review of Mining Plan period i.e. 2019-20 to 2022-23	4.32 Ha as on 01.04.2021, minor variation due less excavated area due low production during the year 2020-21	Position of excavated pit area as per annual return for 2020-21
3n	Ore to OB ratio for the pit/mine during the year.	1:7.92 Tonne/CuM	Acheived as 1:14.73 Tonne/CuM	Total OB generated during the year 2020-21 as 26600 CuM
30	Total area put in use under different heads at the end of year	As per the previous approved Review of Mining Plan period 2019-20 to 2022-23 Pits-4.62Ha Waste Dumps- 2.72 Ha Mineral Storage-0.50 Ha Infrastructure -0.01Ha Road-0.06Ha	As per the Anuual Return for the year 2020-21 Pits-4.32Ha Reclaimed/Rehabilitated- 0.30 Ha Waste Dumps-2.72 Ha Other purpose-0.68 Ha	Minor variation in excavated area due to production during the year
3р	Production of ROM mineral during the last five year period as applicable	2016-17-: 8883 MT 2017-18-: 7182 MT 2018-19-: Lapsed 2019-20-: 2380 MT 2020-21-: 2268 MT	2016-17-: 3870 MT 2017-18-: 3870.09 MT 2018-19-: 6265.77 MT 2019-20-: 830 MT 2020-21-: 1800 MT	Furnished production details as per online submitted annual returns
3q	General remarks of inspecting officers on method of mining etc.	NA	NA	Mining operations were proposed by mechanised opencast method with excavator/shovel & dumpur combination. Thers is single working pit in lease area.

So.	lic	d Wa	ste	Management	_	Dumping
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Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	OB utilization proposed for concurrent backfilling	Working carried out as per the proposals	Total 26600 CuM overburden generated during the year-2020-21
4b	Location of topsoil, OB and mineral reject dumps	Existing 02 nos of OB dumps	Overburden dumps located twoards north-eastern & western part of ML area	
4c	Number of dumps within lease area and outside of lease area	Existing 02 nos of OB dumps within ML area	Existing 02 nos of OB dumps within ML area	No overburden dumps outside ML area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dump No-1 located in between E0 to E210 & S270 to S0	Dump No-1 located in between E0 to E210 & S270 to S0	Dumps locations duly marked on surface plan Plat No-IV
4e	Number of active and alive dumps.	Existing 02 nos of OB active dumps within ML area	Existing O2 nos of OB active dumps within ML area	
4f	Number of dead dumps.	No dead OB/Waste dumps in ML area	No dead OB/Waste dumps in ML area hhh	No dead OB/Waste dumps in ML area
4g	Number of dumps established.	Not Proposed	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not Proposed	Nil	No proposals as per approved ROMP 2019-20 to 2022-23
4i	Length of Retaining wall or garland drain all along dumps	Not Proposed	Nil	
4 j	Number of settling ponds	Not Proposed	Nil	
4k	Specific comments of inspecting officer on waste dump management	NA	NA	Significant amount of overburden encountered in ML area. None of dump is stabilized as off now. Scope of backfilling/reclai mation very well exists.

Solid Waste M	lanagement -	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.	In southern- eastern part of the ML area ore is exhausted & proposed for backfilling	Backfilling carried carried out as per the proposals	
5b	Area under backfilling of mined out area	Cumulative backfilled area 0.30 Ha	Cumulative backfilled area 0.30 Ha	800 SqM area proposed for backfilling in 2020–21
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No top soil generation proposed in 2020-21	NA	Working proposed in already excavated pit by further advancement of benches
5d	Total area fully reclaimed and rehabilitated	800 SqM area proposed in 2020-21	Total cumulative area backfilled 0.30 Ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	NA	Significant amount of overburden encountered in ML area. Hence, scope of banckfilling very well exists.

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 July of every year	Not submitted for the year 2020-21	Violation under Rule 26(2) of MCDR,2017 was observeded & issued subseqently
6b	Area available for rehabilitation (ha) .	Total 0.30 Ha	Total 0.30 Ha reclaimed area	Reclaimed area not rehabilitated so far
6c	afforestation done (ha).	Not Proposed	Total 160 saplings planted during the year	Plantation with ML area
6d	No. of saplings planted during the year	Not Proposed	Total 160 saplings planted during the year	Survival rate about 80%

6e	Cumulative no .of plants	NA	NA	No information is available
6f	Any other method of rehabilitation	Not Proposed	NA	Nil
бg	Cost incurred on watch and care during the year	No Proposals	NA	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	800 SqM area proposed for backfilling	Backfilling carried out as per the proposals	Total 26600 CuM overburden generated during the year-2020-21 which is backfilled
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	800 SqM area proposed for backfilling	Backfilling carried out as per the proposals	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No Proposals	NA	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposals	Nil	Nil
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposals	NA	Reclamation proposed by backfilling only
бm	Compliance of rehabilitation of waste land within lease (i)afforestation	No Proposals	Nil	

бn	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No Proposals	Nil	On proposals on waste land
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposals	Nil	Nil
бр	Compliance of environmental monitoring (core zone and buffer zone)	Periodical Air, Water, Noise monitoring Proposed	Yes,Compliances of environmental monitoring is being carried out.	
бq	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	NA	<pre>In ML area encountered significant amount of OB , hence scope of backfilling/reclam ation & rehabilitation very well exist and accordingly proposals were given. Periodic monitoring is being carried out by outsourced consultant.</pre>

Mineral Conservation:					
Sl.No.	Item	Propasals	Actual work	Remarks	

1803.28 MT dispatched as 7a ROM Mineral 2268 MT Grade wise sorting below 25%Mn, 25% to dispatch or proposed as being carried out below 35% Mn & 35% to grade-wise total ROM for aforementioned sorting within production for below 46% Mn grades of Mn ore lease area despatch. Grade wise sorting proposed within lease area for grade wise separation of Mn ore 7b Method of grade- Manual & Manual & mechanical Grade wise sorting wise mineral mechanical being carried out sorting i.e. for below 25%Mn, manual or 25% to below 35% Mn & 35% to below mechanical. 46% Mn below 25%Mn, 25% to Grade wise sorting 7c Different grade below 25%Mn, of mineral 25% to below below 35% Mn & 35% to being carried out 35% Mn & 35% below 46% Mn for below 25%Mn, sorted out at to below 46% 25% to below 35% mines. Mn & 35% to below Mn 46% Mn 7d Any No Proposals Nil No benificiation at mine, only beneficiation screening of ore process at mines noticed during inspection 7e General remarks NA NA Ore is being of inspecting conserved by grade officer on wise sorting in Mineral the lease area. conservation and Manganese ore beneficiation below 25%Mn, 25% issues to below 35% Mn & 35% to below 46% Mn proposed to be sorted for selling purpose. Grade wise stacking is done on earmarked locations.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks

8a Separate removal Not Proposed Nil No top soil and utilization generation of topsoil (Rule proposed during the year 32) No top soil 8b Concurrent use No Proposals Nil or storage of generation topsoil proposed during the year Concurrent use Working carried out as 8c Separate dumps for overburden, of overburden per the proposals waste rock, for rejects and reclaimation fines (Rule 33) proposed 8d Use of No Proposals Nil Use of overburden overburden, for reclamation waste rock, purpose proposed rejects and fines dumps for restoring the land to its original use 8e Phased Reclamation carried out 800 SqM restoration, excavated area as proposed reclamation and proposed for rehabilitation reclamation of lands affected by mining operations (Pits, dumps etc) 8f Baseline No Proposals 160 Saplings planted information on within ML area existence of plantation and additional plantation done (Rule 41) Survival rate No Proposals About 80% survival 8g acheived 8h Water sprinkling Water Regular water sprinkling Water tanker of on roads to sprinkling is is done by water tanker 2KL capacity is control airborne proposed by provided for the dust water tanker purpose

8i

General remarks NA of inspecting officer on aesthetic beauty in and around mines area Aesthetic beauty in and around mine area is not much satisfactory as plantation not done up to that extent. Hence, it was instructed to propose at least 200 sapling/year & accordingly proposals were given in ROMP for the year 2019-20 to 2022-23

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. submitted upto- July- 2021 A.R. submitted upto- 2020-21	Annual Return for the year 2020-21 and monthly returns submitted within time limit	Annual return & monthly returns copies were produced during mine inspection.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Mr. Ghanshyam Kawale as Mining Eng. and Mr. Ankush Sarangi, appointed as Geologist	
9с	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Pits-4.32Ha Reclaimed/Rehabilitated- 0.30 Ha Waste Dumps-2.72 Ha Other purpose-0.68 Ha	
9d	Scrutiny of Annual return on afforestation	Given	160 saplings planted within the mining lease area during the year 2020-21	Plantation were observed during the inspection
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not Given	Nil	No mineral rejects generation reported during the year 2020-21

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NA

9f Scrutiny of Given Below 25% Mn Grade: Annual return on ROM stock and/or O/S-74.130 MT graded ore Despatch-727.240 MT C/S-314.890 MT 25% to below 35% Mn grade: O/S-22.170 MT Despatch-114.010 MT C/S-3.160 MT 35% to below 46% Mn O/S-24.474MT Despatch-962.030 MT C/S-316.444MT 9g Scrutiny of Given Ex-mine price: Annual return on Below 25% Mn -: Rs 2952.60/MT sale value, Ex. 25% to below 35% Mn- Rs Mine price and 6052.36/MT production cost 35% to below 46% Mn-: Rs 13386.00/MT Scrutiny of Given 9h Value of Fixed Assets Annual return on Rs- 22356889 fixed assets 9k Scrutiny of Given Nil Nil Annual return on mining machineries

Details of violations observed during current inspection and compliance position of violation pointed out				
Violatior	observed	Show couse position		
Rule NO.	Issued on Compliance on	Rule NO. I	ssued on Compliance on	
MCDR17 Rule 11(1)	27-AUG-21			
MCDR17 Rule 26(2)	27-AUG-21			
MCDR17 Rule 47(a)	27-AUG-21			

Date :

(SANJAY M. GIRHE)

Indian Bureau of Mines