MCDR INSPECTION REPORT

1.0 GENERAL

Sl.N	PARTICULARS	DETAILS		
1	File No.	CHG/SRG/BX-07CHG16011		
2	Name & Designation of the	Shri D.Dash		
	inspecting officer	Senior Mining Geologist		
3	Date of Inspection	21.12.2021		
4	Date of Last Inspection & Officer	14.01.2020, Shri Rudra N. Mishra, Senior Mining		
		Geologist		
5	Accompanying mine personnel	1. Shri A.P. Shah AGM(G)/Regional Officer		
		2 Shri Vivek Kumar Yadav, Mines Manager		
6	Name of the Mine	Kesra Bauxite mine		
7	Total Lease Area (Ha) with breakup	20.340 ha. Private. land (Non- forest)		
	of Non-forest and forest land			
8	Mine code	07CHG16011		
9	IBM Registration Number under	IBM/8239/2011		
	rule 45 of MCDR, 1988			
10	Name of the lessee, Address, phone,	M/S Chhattisgarh Mineral Development Corporation Ltd.		
	email and fax number	Sonakhan Bhawan Ring road no. 01, Village -Purena,		
	X711	Post Ravigram Raipur Chhattisgarh, 492006		
	Village	Kesra		
	Taluka/Mandal	Mainpat		
	District	Surguja		
	Pincode	497111		
	State	Chhattisgarh		
1.1	Post office	Kesra		
11	Nearest police station	Kamleshwar		
12	Nearest Railway station	Ambikapur		
13	Date of Grant of Mining Lease	26.07.2006 First Grant for Twenty years up to		
		25/07/2006.		
14	Date of Execution	26.07.2006 (The lease has been renewed up to		
1.5		25.07.2026 for next twenty years)		
15	Date of opening of Mine	09/11/2018		
16	Weekly day of rest	Thursday		
17	Date of first Renewal, if applicable	NA		
10	and its period & expiry			
18	Name of the Nominated Owner with	Shri Jay Prakash Maurya (I.A.S.)		
	Address, phone, email, fax number	Chhattisgarh Mineral Development Corporation Ltd. Sonakhan Bhawan Ring road no. 01, Village -Purena,		
	and date of appointment	Post Ravigram Raipur Chhattisgarh, 492006		
		Email: <u>-cmdcraipur@gmail.com</u> ph no. 0771 4043477		
19	Name of the Mine Agent with	Shri A.P. Shah, Deputy General Manager (Geology)		
	Address, phone, email, fax number	Chhattisgarh Mineral Development Corporation Ltd.		
	and date of appointment	Behind Carmel School, Housing Board Colony		

		Namnakala , Ambikapur District - Surguja (C.G.) 497001
		Email: -cmdcambikapur@gmail.com Mob: - 9425581270
20	Name of the Mines Manager with	Shri Vivek Kumar Yadav
	Address, phone, email, fax number	Chhattisgarh Mineral Development Corporation Ltd.
	and date of appointment in mines	Village Narmadapur Post – Narmadapur District Surguja
		Email: - cmdcmainpat@gmail.com, mobile:
		9589118198, Date of Appointment 09.12.2018
21	Name of the Mining Engineer,	Shri Vivek Kumar Yadav
	Qualification and total experience	BE, Mining
	with Address, phone, email, fax	Chhattisgarh Mineral Development Corporation Ltd.
	number and date of appointment in	Village Narmadapur Post – Narmadapur District Surguja
	mine	(C.G.), Email: - cmdcmainpat@gmail.com
		Mob: - 9589118198, Date of Appointment 09.12.2018
22	Whether Geologist and Mining	Shri A.P. Shah (Geologist)
	Engineer appointed in mines satisfy	Shri Vivek Kumar Yadav (Mining Engineer)
	the rule 42 & carrying out their	
	duties as per rule 43 & 44.	
23	Date of Approval of Mining	SRG/BX/MPNL-1173/2018 Raipur, Dated 27/11/2018
	Plan/Modified Mining Plan with	
	five-year period and specific	
	condition in approval letter, if any.	
24	Date of Approval of Scheme of	SRG/BX/MPLN-925/NGP Date 22/02/2006 & Modified
	Mining/Modified Scheme of Mining	scheme SRG/BX/MPLN-925/NGP Date 20/10/2008
	with five-year period and specific	
	condition in approval letter, if any.	
25	Mineral(s) granted in lease and	Bauxite
	proved for mining	
26	Method of Mining (Opencast,	Opencast
	Underground)	
27	Category (Fully Mechanized, Others	Mechanized
	or Manual)	
28	Captive/Non-Captive	Non-Captive
29	EC for ROM Prod:	20,000TPA Date 07.01.2011
20	Date of Issue:	Do 16 55 700 00/
30	FA amount Rs Valid up to:	Rs. 16,55,700.00/- 31 st March 2021
	vana up to.	31 IVIAIOII 4041

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

1.0 EXPLORATION

SN	ITEM	PROPOSALS (2020-21)	ACTUAL WORK (2020-21)	REMARKS	
1a	Backlog of previous year	06 trial pits during the year 2019-20	Nil	Violation of 11(1) of MCDR, 2017 has been pointed	
1b	Exploration over lease area for Geological axis 1 or 2.	0.7 ha	Not done	out. Violation of 45(5) (c) of MCDR,	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	Nil	2017 is pointed out for furnishing incorrect	
1d	Balance area to be explored to bring Geological axis in 1 or 2	0.7 ha	Nil	information on balance reserves.	
1e	Balance reserves as 01.04. 2021	Under 121: 0.2 Under 122: 0.01 Under 221: 0.01 Under 222: 0.01	15T 17T		
1f	General remarks of inspecting officer on geology, exploration etc.	Under 222: 0.012 T Lateritic Bauxite occur as discontinuous lenticular and tabular bodies. Gibbsite is the main constituent mineral. The mineral is moderately hard and massive in nature. Thickness of bauxite is varying 0 .0 to 5.20m, with grey to pink color having. 32 Bore Hole Drilled at 85m X 85m Interval. No further exploration has been carried out as proposed. Since, Bauxite occurs as lenticular bodies, exploration at close spaced grid needs to be carried out to delineate the pocket ore body accurately. While mining, the lessee encountered very low grade bauxite in proposed mining area, for which a number of quarries have been opened up in search of good grade Bauxite. But, the lessee did not encounter any good grade Bauxite for which mining has become cost prohibitive. The lessee intends to surrender the lease area for which FMCP has been submitted.			

2.0 DEVELOPMENT

SN	ITEM	PROPOSALS	ACTUAL WORK	REMARKS
		(2020-21)	(2020-21)	
2a	Location of development	on north western	Three quarries have	Violation of Rule 11(1) of
	w.r.t. lease area	side(between	been developed on	MCDR, 2017 has been
		2521748N &	south western side(pointed out.
		2521948N)	between 2521148N	1
			& 2521548N)	
2b	Separate benches in	proposed	Maintained	

	topsoil, overburden and					
	mineral (Rule 15)					
2c	Stripping ratio or ore to	1:0.60	1:1.30	No OB generation reported,		
	OB ratio			mineral rejects of 1300		
				tonnes reported.		
2d	Quantity of topsoil	Nil	Nil			
	generation in Tonnes					
2e	Quantity of overburden	6309.60m ³	Nil	OB generation not reported.		
	generation in m ³			Only 1300 tonnes of mineral		
				rejects generation reported		
				during the year.		
2f	General remarks of	Mining operations	s were commenced fr	rom November, 2019. Due to		
	inspecting officer on	low grade nature	of mineral produced,	the production from the mine		
	development of pit w.r.t.	is very low compa	ared to proposed prod	luction. A number of pits have		
	type of deposit etc.	been opened in search of better grade ore. However, there is no				
		market for grade of ore produced from the mine for which, the lessee				
		has submitted Fin	nal Mine Closure Pla	an in which only reclamation		
		and rehabilitation	measures proposed.			

3.0 EXPLOITATION

S.N.	ITEM	PROPOSAL	ACTUAL WORK	REMARK
		(2018-19)	(2018-19)	
3a	Number of pits proposed for production	1	03	
3b	Quantity of Bauxite mineral production proposed	19999.95 Tonne.	999 tonnes	Low production due to lack of market.
3c	Recovery of saleable/usable mineral from Bauxite production	19999.95 Tonne.	999 tonnes	Same as above.
3d	Quantity of mineral reject generation	Nil	1300 tonnes	Due to inadequate scale of exploration and subsequent detailed chemical analysis, this mismatch in planning observed.
3e	Grade of mineral reject generation and threshold value declared	Al2O3 – 30% SiO2 - >= 5%	Al2O3-30%	
3f	Quantity of sub-grade mineral generation	Proposal has not been given	Nil	

3g	Grade of sub-grade mineral generation	Not proposed	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Semi Mechanised method	Semi Mechanised	Bench development by machines and ore segregation manually.
3i	Any analysis or beneficiation study proposed & carried out for subgrade mineral and reject	Not proposed	Not done.	
3j	Provision of drilling & blasting in mineral benches	Yes	Yes	
3k	Provision of mining machineries in mineral benches	Yes	Yes	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	2.808 ha (cumulative till 2020-21)	1.145 ha (cumulative till 2020-21)	Less area degradation due to low scale mining.
3n	Ore to OB ratio for the pit/mine during the year	1:0.60	1:1.30	No OB reported during the year. 1300 tonnes of mineral rejects reported.
30	Total area put in use under different heads at the end of year	Area under mining: 2.808 ha Overburden dump: 0.579 ha Roads: 0.217ha	Area under mining: 1.145 ha Overburden dump: 0.132 ha Roads: 0.3687ha	Over burden/ mineral rejects are stacked on edges of quarries. Violation of Rule 11(1) of MCDR, 2017 pointed out.
3p	Production of Bauxite mineral	2017-18	Nil	Low scale
	during last Three -year period, as applicable	2018-19	Nil	production due to lack
		2019-20 2020-21	3950.00 Tonne	of market for
		2020-21	999.99 tonnes	the grade of ore produced.

3q	General remarks of inspecting	The mining operation is carried out by semi-mechanised	
	officer on method of mining etc.	method i.e. bench development by machines and ore	
		segregation is done manually. Due to limited market	
		demand of grade of ore produced from the mine, the	
		mining operations have been carried out on a very low	
		scale. Due to lack of market for low grade ores from the	
		mine, no production has been reported for the year 2021-	
		22. The lessee intends to surrender the lease area. A Final	
		Mine Closure Plan is submitted for the purpose.	

4.0 SOLID WASTE MANAGEMENT-DUMPING

SN	ITEM	PROPOSALS (2020-21)	ACTUAL WORK (2020-21)	REMARKS
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate waste dump proposed	Waste dumped on edges of pits	
b	Location of topsoil, OB & mineral reject dumps	Waste dumping on north eastern side (between N400& N 800)	Dumped on quarry edges	Against proposal of waste dump development on north eastern side
4c	Number of dumps within lease area and outside lease area	01 within lease area	03	(between N400& N 800), waste have been
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL temporary dump	Within UPL on quarry edges	dumped on quarry edges. Violation of Rule
4e	Number of active & alive dumps	01	03	11(1) of MCDR, 2017 is pointed
4f	Number of dead dumps	Nil	Nil	out.
4g	Number of dumps stabilized	Nil	Nil	-
4h	Whether Retaining wall or garland drain all along dumps are there	Nil	Nil	
4i	Length of Retaining wall or garland drain all along dump	Nil	Nil	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer	Violation of 11(1) deviation in respect of	of MCDR, 2017 point of waste dumping.	ted out for site

5.0 SOLID WASTE MANAGEMENT-BACKFILLING

SN	ITEM	PROPOSALS (2020-21)	ACTUAL WORK (2020-21)	REMARKS
5a	Status on part or full extraction of	0.903 ha	Nil	
	mineral from mined out area			
	before starting backfilling			

5b	Area under backfilling of mined	0.903 ha	Nil	Violation of	
	out area			Rule 11(1) of	
				MCDR,	
				2017 was	
				pointed out.	
5c	Concurrent use of topsoil for	No top soil	No generation of		
	restoration or rehabilitation of	generation proposed.	top soil		
	mined out area (Rule 32)				
5d	Total area fully reclaimed &	Nil	Nil		
	rehabilitated				
5e	General remarks of inspecting	Against proposal of	backfilling, no ar	ea has been	
	officer on backfilling, reclamation	backfilled. Violation of Rule 11(1) of MCDR, 2017 is			
	etc	pointed out.			

6.0 PROGRESSIVE MINE CLOSURE PLAN

SN	ITEM	PROPOSALS	ACTUAL	REMARKS
		(2020-21)	WORK	
			(2020-21)	
6a	Whether Annual report on PMCP submitted	yes	Not	Violation of
	on time and correctly - Rule 23E (2). Details		submitted	Rule 26(2)
	should be given in the format as given in			of MCDR,
	Annexure-20.			2017 is
				pointed out.
6b	Management of worked/mined out benches	(i). Total	(i) Total	
	i) Area available for rehabilitation (ha)	2.808 ha	1.145 ha area	
	ii) Afforestation done (ha)	(ii)	have	
	iii) No. of saplings planted during the year	Plantation	degraded due	
	iv) Cumulative no. of plants	of 1021	to quarry	
	v) Any other specific method of rehabilitation	saplings	development	
	vi) Cost incurred on watch & care during the	proposed	(ii)	
	year	(iii) 2042	Plantation of	
		saplings	2000	
		(iv) Nil	saplings	
		proposed	reported.	
		(v) Rs	(iv) No other	
		102100	method	
			adopted.	
			(v) Not	
			furnished	

6c	Compliance on reclamation and rehabilitation	0.903 ha	Nil	Violation of
	by backfilling	area		Rule 11(1)
	i) Voids available for backfilling (L X B X D)	proposed		of MCDR,
	ii) Void filled by waste/tailings	for		2017 pointed
	iii) Afforestation on the backfilled area	backfilling		out.
	iv) Rehabilitation by making water reservoir			
	v) Any other specific means			
6d	Compliance of Rehabilitation of waste land	No	Nil	
	within lease	Proposal		
	i) Afforestation			
	ii) Area rehabilitated (ha)			
	iii) Method of rehabilitation			
6e	Compliance of Environmental monitoring	Yes	Yes	
	(core zone & buffer zone)			
6f	General remarks of inspecting officer on	Violation of Ru	le 26(2) of MCI	OR, 2017 is
	PMCP compliance & progressive	pointed out for n	on submission o	of Annual
		report on PMCP		

7.0 MINERAL CONSERVATION

SN	ITEM	PROPOSALS	ACTUAL WORK	REMARKS
		(2020-21)	(2020-21)	
7a	ROM Mineral dispatch or grade-wise	Yes	Yes	Manual Hand
	sorting within lease area			sorting within
7b	Method of grade-wise mineral sorting	Manual sorting	Manual sorting	lease area
	i.e. manual or mechanical			
7c	Different grade of mineral sorted out at	40-45% Al2O3	40-45% Al2O3	
	mines			
7d	Any beneficiation process at mines	Proposal not	NA	
		given		
7e	General remarks of inspecting officer	Medium grade	of Bauxite of Al2	2O3 40-45% are
	on Mineral conservation &	produced from	the mine after sepa	ration of Laterite
	beneficiation issues	from Bauxite b	by manual sorting.	However, due to
		limited occurren	ce of 40-45% Al2O	3 in ROM, due to
		pocket nature of	of ore deposit, the	lessee intends to
		surrender the lea	se.	

SN	ITEM	PROPOSALS	ACTUAL WORK	REMARKS
		(2020-21)	(2020-21)	
8a	Separate removal and utilization of	Nil	Nil	Violation of
	topsoil (Rule 32)			Rule 11(1) of
8b	Concurrent use or storage of topsoil	Nil	Nil	MCDR, 2017
8c	Separate dumps for overburden, waste	Only waste	Waste dumping	is pointed out
	rock, rejects and fines (Rule 33)	dump proposed	done	for site
8d	Use of overburden, waste rock, rejects	Proposed	Nil	deviation of
	and fines dumps for restoring the land			waste dumps
	to its original use			and for not
8e	Phased restoration, reclamation and	Proposed	Nil	carrying out
	rehabilitation of lands affected by			backfilling as
	mining operations (Pits, dumps etc)			proposed.
8f	Baseline information on existence of	1021 saplings	Plantation of 2000	
	plantation & additional plantation done		saplings reported in	
	(Rule 41)		Annual Return.	
8g	Survival rate	1021 Plants	2000 saplings with	
		with 60%	60% survival rate	
		survival rate		
8h	Water sprinkling on roads to control	Yes	Yes	
	airborne dust			
8i	General remarks of inspecting officer on	Violation of 11(1) of MCDR, 2017 is pointed out for not carrying out backfilling as proposed.		ted out for not
	aesthetic beauty in and around mines are			

9.0 COMPLIANCE OF RULE 45

S.	Item	Comments	Remarks
N.			
9a	Status of submission of monthly	M.R. Submitted up to November, 2021.	
	and Annual returns		Violation of
		A.R. submitted for the year 2020-21	45(5) (c) of
9b	Scrutiny of Annual return for	Information on Mining Engineer &	MCDR, 2017 is
	information on Mining Engineer,	Geologist not furnished.	pointed out for
	Geologist and Manager	_	furnishing
9c	Scrutiny of Annual return on land	No information on land sue pattern is	incorrect/ nil
	use pattern for area under pits,	furnished.	information on(i)
	reclaimed area, dumps etc.		Surface area
9d	Scrutiny of Annual return on	2000 nos saplings planted during the	utilization.
	afforestation	year	(ii) Mineral
9e	Scrutiny of Annual return on	1300 tonnes of mineral rejects of 30%	reserves
	mineral reject generation (Grade &	Al2O3 reported. Appears to be correct.	(iii) Ex-mine
	Quantity) Quantity)		price & cost of
9f	Scrutiny of Annual return on ROM	Nil stock. Appears to be correct since	production (iv) nil
	stock and/or grade ore	no mineral stock observed during the	Production
		visit.	Troduction

9g	Scrutiny of Annual return on sale	Ex mine price, sale value and cost of	proposal
	value, Ex. Mine price &	operation- Rs 885. The information	(v) It was advised
	production costs	appears to be incorrect.	to furnish
9i	Scrutiny of Annual return on Fixed	Fixed assets is reported as nil. Appears	information on
	assets	to be correct.	Mining Engineer
9k	Scrutiny of Annual return on	BACK HOE 0.900 CUM 1 Non Electrical	& Geologist
	mining Machineries	WATER TANKER 20000.000 LITRE 1	during the
	_	Non Electrical Opencast	inspection.
		AIR COMPRESSOR 400.000 CUM/MN 1	
		Non Electrical. Information appears to be	
		correct.	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: -Details of the Violations Pointed-out during Inspections:

नियम	उल्लंघन के प्रकार का ब्यौरा
11(1)	Following violations are observed against proposals in approved Review of Mining Plan for the period from 2018-19 to 2021 approved vide letter no. Surguja/Bx/MPNL-1173/2018/Raipur dated 27.11.2018 (i) Against proposal to carry out 06 nos of trial pitting, no work has been carried out. (ii) Three quarries have been developed on south western side(between 2521148N & 2521548N) and one quarry on north western side(between 2521748N & 2521948N) against proposal of single quarry development on southern side.(between 2521148N & 2521548N) (iii) Against proposal of waste dump development on north eastern side (between N400& N 800), waste have been dumped on quarry edges. (iv) Mining operations have been carried out in 7.5 m safety barrier zone in southern side at two places between boundary pillar BP1 and BP 29 and at one place between boundary pillar BP1 and BP3. (v) Against backfilling proposal of 0.903 ha no backfilling has been carried out.
26 (2)	A yearly report as per the format specified by Indian Bureau of Mines, before 1st day of July every year setting forth the extent of protective and rehabilitate works carried out has not been submitted for the year 2020-21.
45(5) (c)	Following information are furnished incorrectly in submitted Annual Return for the year 2020-2021: (i) Surface area utilization. (ii) Mineral reserves (iii) Ex-mine price and cost of production is cited as same price of Rs 885 (iv) Production proposal during the year 2020-21 is not furnished.

Violation Rule 11(1) of MCDR, 2017 pointed out for not carrying out plantation during 2018-19 against which plantation 2000 saplings carried out during the year 2020-21. Violation of Rule 26(2) of MCDR, 2017 is not complied. Violation of Rule 26(2) is pointed out during the current

inspection. Violation of Rule 45(5) (c) is complied since, the lessee has submitted Annual return
for the year 2018-19.

Date:

(D.Dash)