MCDR INSPECTION REPORT (2018-19)

1.0 GENERAL -

SN	Particulars	Details	
1	Name of inspecting office	Shri Rajesh Kumar Das,	
	,designation and Accompanying	Senior Assistant Controller of Mines, Mr Tembe	
	person	Prasanna Kumar(Agent Mine) and Shri S.K.Paul,QP	
2	Date of inspection	08.04.2019	
3	Name of the Mine	Laindongari Iron Ore Mine	
4	Total Lease Area (Ha) with breakup	14.40 Ha, Protected Forest Land – 9.50 Ha	
	of Non-forest and forest land	Non Forest Land – 4.90 Ha	
5	Mine Code,File No.	30CHG08006,CG/KNK/FE-5/NGP	
6	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4800/2011	
7	Name of the lessee, Address, phone,	M/s Jayaswal Neco Industries Limited.	
	email and fax number	F-8, M.I.D.C, Industrial Area, Hingna Road,	
		Nagpur, District - Nagpur, State-Maharashtra, Pin -	
		440016, Phone- 07104-237276/ 236251/ 237471/	
		237472, FAX- 07104-237583/ 236255, Emailid-	
		contact@necoindia.com	
8	Village Barbaspur		
8	Taluka / Mandal / District	Bhanupratappur, District-Kanker	
10	State	Chhattisgarh	
11	Post office &PIN	Hatkarra (494670)	
12	Nearest police station	Korar	
13	Nearest Railway station	Bhanupratappur	
14	Date of Grant of Mining Lease	08/10/2014	
15	Date of Execution	16/10/2014	
16	Date of opening of Mine	24/12/2014	
17	Date of first Renewal, if applicable and its period & expiry	Not Applicable.	
18	Date of second Renewal, if	Not Applicable.	
	applicable and its period & expiry		
19	Date of submission of renewal	Not Applicable.	
	application if Mining Operations are		
	continuing under deemed extension		
20	Name of the Nominated Owner with	Shri Megh Pal Singh (Nominated Owner)	
	Address, phone, email, fax number	M/s Jayaswal Neco Industries Ltd, Steel Plant	
	and date of appointment	Division, Industrial Growth Centre, Siltara, Raipur	
		(493111), Chhattisgarh Email ID	
		meghpal.singh@necoindia.com, Fax- 07721- 264279/	
		264240 Contact no- 07721- 264241/	
		264263,9109119120,DOA:13.11.2014	

SN	Particulars	Details
21	Name of the Mine Agent with	Mr Tembe Prasanna Kumar (President, Metal Mines
	Address, phone, email, fax	Division), M/s Jayaswal Neco Industries Limited,
	number and date of appointment	Metal Mines Division, Rana Niwas, Village-Chougel,
		Post- Bhanupratappur, District Kanker, Chhattisgarh, Pin-
		494669, District – Kanker,
		Phone - 07850 - 252735,
		Mob no- 9109119092, 9425502376
		FAX- Nil
		Emailid-
		tembe.prasanna@necoindia.combhanu.mines@necoindia.
		com
		Date of appointment—22.03.2017
22	Name of the Mines Manager with	Shri Santosh Kumar Singh,
	Address, phone, email, fax	M/s Jayaswal Neco Industries Limited,
	number and date of appointment	Metal Mines Division, Rana Niwas, Village-Chougel,
	in mines	Post- Bhanupratappur, District Kanker, Chhattisgarh, Pin-
		494669, District – Kanker,
		email-
		tembe.prasanna@necoindia.com"santosh.singh
		HYPERLINK "mailto:email-
		tembe.prasanna@necoindia.com"@necoindia.com
22	Name of the Mining Francisco	date of appointment—02.07.2018
23	Name of the Mining Engineer, Qualification and total experience	Shri Santosh Kumar Singh, M/s Jayaswal Neco Industries Limited,
	with Address, phone, email, fax	Metal Mines Division, Rana Niwas, Village-Chougel,
	number and date of appointment	Post- Bhanupratappur, District Kanker, Chhattisgarh, Pin-
	in mine	494669, District – Kanker,
	III IIIIIC	email- HYPERLINK "mailto:email-
		tembe.prasanna@necoindia.com"santosh.singh
		HYPERLINK "mailto:email-
		tembe.prasanna@necoindia.com"@necoindia.com
		date of appointment—02.07.2018
24	Whether Geologist and Mining	Yes
	Engineer appointed in mines	
	satisfy the rule 55 &carrying out	
	their duties as per rule 56 &57.	
25	Date of Approval of Mining	(1) Mining Plan vide letter no KNK/FE/MPLN-
	Plan/Modified Mining Plan with	1027/NGP dtd 11.06.2009 for proposal period 2014-15 to
	five-year period and specific	2018-19.
	condition in approval letter, if	(2) Modification in Approved Mining Plan vide letter no
	any.	KNK/FE/MPLN-1027/NGP/2015 dtd 06.05.2016 for
		proposal period 2015-16 to 2018-19
26	Data of Agency of a C.C.1	Specific condition - Nil
26	Date of Approval of Scheme of	NIL
	Mining/Modified Scheme of	
	Mining with five-year period and	
	specific condition in approval	
	letter, if any.	

27	Mineral(s) granted in lease and	Iron Ore.
	proved for mining	
28	Method of Mining(Opencast,	Opencast
	Underground)	
29	Category (Fully Mechanised,	Category – "A"(Fully Mechanised)
	Others or Manual)	
30	Captive/Non Captive	Captive
31	Existing EC Limit and validity	One Lakh Eighty Thousand

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. – 1.0 Exploration -

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	14 Nos. vertical bore	To know
			holes by way of Non	existence of
			core DTH drilling have	ore if any.
			been sunk during 2018-	
			19.	
1b	Exploration over lease area for	Under G1	7.53 Ha	Nil
	Geological axis 1 or 2.	Category: Nil		
		Under G2	NIL	Nil
		category: Nil		
		Under G3	NIL	Nil
		category: Nil		
		Under G4	NIL	Nil
		Category: Nil		
		Non-	Nil	Nil
		Mineralised: Nil		
1c	Exploration Agency	M/s Jayaswal Nec		
	&Expenditure in lakh Rupees		ustrial Area, Hingna Road,	•
	during the year		State-Maharashtra, Pin -44	
			7276/ 236251/ 237471/ 237	472,
		FAX- 07104-2375	·	
		Emailid- contact@necoindia.com Fax - 07104-237583/236255		
		Fax – 0/104-23/583/236255 Expenditure incurred = Rs. 18,43,200/-		
1d	Balance area to be explored to	Nil	10u = 103. 10,43,200 /-	
14	_	1,11		
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nıl		

SN	Item	Proposals	Actual work	Remarks
1e	Balance reserves as	Under(111):	Under(111): NIL	During the mining it has been
	on 01.04.2019 (in	7,11,876 Tonnes	222-16143	observed that reserves reduced
	Tonnes)			drastically because of drastic
				reduction in the area of

		Under(211): 7,655 Tonnes	Under NIL	(211):	mineralisation due to presence of irregularly distributed intercalated waste within insitu ore and float ore zone. Entire insitu ore and float ore has been mined out except at places where minor quantity of low grade material exist. Mining of such materials are not feasible economically.
		Under(222): NIL	Under 16,143 To	(222):	
1f	General remarks of inspecting officer on geology, exploration etc.	ore spreading over The upper elevated lower part is occup	oosit is mai entire sout d area of the pied by sha	nly characthern east ne hill is ales and p	cterized by lateritic soil with float ern and western slopes of the hill. occupied by massive iron ore and ohylite and covered with float ore
		not done.	ine area is	broadry e	exposed but depthwise exploration

2.0 Development -

SN	Item	Proposals	Actual work	Remarks
2a	Location of	Mining will be done from	Mining has been with	Nil
	development w.r.t.	top of the hill between	in the proposed area.	
	lease area (Range in	longitude -		
	UTM/Local	E 81° 12'59.22" to		
	Coordinate/Plot	E 81° 13'14.77" and		
	No./Location)	latitude		
		N 20° 16'11.65"to		
		N 20° 16'24.12"		
2b	Separate benches in	NIL	NIL	Nil
	topsoil, overburden and			
	mineral (Rule 13)			
2c	Stripping ratio or ore to	1:1.10	1:0.05	Nil
	OB ratio			
2d	Quantity of topsoil	Nil	Nil	Nil
	generation in m3			
2e	Quantity of overburden	There is no overburden	Nil as no waste	Nil
	generation in m3	available as such. However,	generated.	
		waste as SB will be		

		generated during	
		development of mine and	
		haul road. Waste generated	
		during mining will be kept	
		separately within the lease	
		area.	
2f	General remarks of	The development has been do	one broadly as per proposal and float ore
	inspecting officer on	removed upto depth of 0.5 m	ntr and waste generated. Entire float ore
	development of pit	is sent for screening.	
	w.r.t. type of deposit		
	etc.		

3.0 Exploitation -

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	1	Nil
3b	Quantity of ROM mineral production proposed	1,80,000 Tonnes	9,568Tonnes	Non availability of expected mineralized ROM due to presence of intercalated waste within insitu ore and float ore zone.
3c	Recovery of salable mineral from ROM production	1,62,000 Tonnes	Production of processed lump &fines during 2018-19-14,499.430 Tonnes	Processing done from available ROM stacks of previous year 37,148.090 Tonnes + ROM produced 9,568 Tonnes during 2018-19, Total ROM being 46,716.090 Tonnes. During 2018-19, ROM processed 45,815.570 Tonnes and balance ROM available in the mine 900.520 Tonnes.
3d	Quantity of mineral reject generation	Nil	Nil	Nil
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil	Nil
3f	Quantity of sub-grade	18,000 Tonnes	31,316.140 Tonnes	During processing Sub

	mineral generation			grade fines of below 55
				% Fe generated during
				2018-19.
3g	Grade of sub-grade	Below 55 % Fe	Below 55 % Fe	Nil
	mineral generation			
3h	Manual / Mechanised	Mechanised	Mechanised method	Nil
	method adopted for	method		
	segregating from			
	ROM			
3i	Any analysis or	No.	The sub grade material	Nil
	beneficiation study		after beneficiation	
	proposed &carried out		dispatched to plant	
	for sub-grade mineral			
	and reject			
3j	Provision of drilling	Drilling and	Drilling and blasting	Nil
	&blasting in mineral	blasting has been	has not been done as	
	benches	proposed subject	there doed not exist	
		to the availability	any hard material.	
		of hard material.		

SN	Item	Proposals	Actual work	Remarks
3k	Provision of mining	As per Approved	At present machineries	Jack hammer
	machineries in	Modified Mining Plan	deployed at mine's site-	and compressor
	mineral benches	for proposal period	Excavator 1 no,	not required
		2015-16 to 2018-19	Dumper 5 nos, Water	since no
		machineries to be	Tanker 1 no, Pay	drilling and
		deployed –	Loader 1 no, Crushing	blasting is
		Jackhammer- 3 nos, Air	and screening unit-1	involved
		Compressor- 1 no,	Sett.	
		Excavator 4 nos,		
		Dumper 6 nos, Water		
		Tanker 1 no, Pay		
		Loader 1 no, Dozer 1		
		no, Crushing and		
		screening unit-1 set		
31	Whether height of	Bench height- 3 to 6 mtr	Maintained as per	Nil
	benches in overburden		proposal.	
	and mineral suitable			
	for method of mining			
	proposed in MP/SOM			
3m	Total area covered	6.370 ha	6.370 ha	Nil
	under excavation/ pits			
3n	Ore to OB ratio for	1:1.10	1: 0	Nil
				l

	the pit/mine during			
	the year			
30	Total area put in use	8.866 Ha	8.866 Ha	Nil
	under different heads			
	at the end of year			

SN	Item		Proposals	Actual work	Remarks
3p	Production o	f Year	Production	Production	
	ROM minera	1	(Tonnes)	(Tonnes)	
	during las	t 2014-15	60,000 Tonnes	59,700 Tonnes	Only collection of
	five-year				float ore.
	period, as applicable (in	2015-16	1,62,000 Tonnes	59,663.850 Tonnes	(1)Proposed
	Metric	-			production could not
	Tonnes)				be achieved because
	,				of delay in receipt of
					EC and CTO on dt
					20.12.2016 and 23.01.2017
					respectively.
					(2) Non availability
					of expected
					mineralized ROM
					due to presence of
					intercalated waste
					within insitu ore and
					float ore zone.
		2016-17	1,80,000 Tonnes	93,650.000 Tonnes	Non availability of
					expected mineralized
					ROM due to presence
					of intercalated waste
					within insitu ore and
					float ore zone.
		2017-18	1,80,000 Tonnes	1,13,280.000	- do -
				Tonnes	
		2018-19	1,80,000 Tonnes	9,568.000 Tonnes	- do -
3q	General	The method of mining is by opencast method using Shovel Dumper			
	remarks of		ion as proposed.	-	-
	inspecting		_ .		
	officer on				
	method of				

mining etc.	

4.0 Solid Waste Management-Dumping -

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB &mineral reject (Rule 36, 37)	(1) No top soil is available in the area. If some top soil is encountered during development, same will be transported to 7.5 mtr nonmining zone at a specified site for future plantation.	No top soil generated so far.	Nil
		(2) Site for dumping waste has been selected near north western side inside lease area.	As per proposal	Nil
		(3) Site for dumping sub grade ore selected near north western side inside the lease area.	As per	Nil
4b	Location of topsoil, OB &mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	The site for dumping waste and sub grade fines have been selected towards north west side in the lease area.	proposal Waste dump - Lat- N 20° 16'20.02" to N 20° 16'22.84" and Long- E 81° 13'0.16" to E 81° 13'03.20" Subgrade Fines - Lat- N 20° 16'18.50" to N 20° 16'20.30" and Long- E 81° 13'0.70" to E 81° 13'2.68"	Nil Nil

4c	Number of dumps within lease area and outside lease area	1 no waste dump and 1 no sub grade fines dump have been proposed within lease area.	As per proposal	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	The site for dumping waste and subgrade fines have been selected beyond ultimate pit limit towards north west side in the lease area.	The location of the dumps have been given under Sr. No 4b.	Nil
4e	Number of active &alive dumps	1	1	Nil
4f	Number of dead dumps	NIL	Nil	Nil
4g	Number of dumps stabilised	NIL	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there	Garland drains will be provided around waste dump to arrest rain wash.	Garland drain with settling ponds are there in the mine as per proposal.	Nil

4i	Length of Retaining wall or garland drain all along dump	Garland drains will be provided around waste dump to arrest rain wash.	(D) has been errected side
4j	Number of settling ponds	Not proposed	3 nos settling ponds covering 0.100 ha area have been erected.
4k	Specific comments of inspecting officer on waste dump management	The dumping has been done broadly as per proposal and major dump and partially waste will be used for backfilling.	

5.0 Solid Waste Management-Backfilling -

SN	Item	Proposals	Actual work	Remarks
5a	Status on part or full	No such	Nil	Nil
	extraction of mineral from	proposal.		
	mined out area before starting			
	backfilling			

5b	Area under backfilling of mined out area	Not proposed	Not done	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	No top soil is available in the area.	NIL	Nil
5d	Total area fully reclaimed & rehabilitated	After full extraction of mineral, the area will be rehabilitated by plantation.	Out of 14.40 ha area, 0.216 ha area is occupied by garland drain and settling tank, 3.47 ha area has already been planted where 1,500 plants are survived, rest 10.714 ha area yet to be planted. Thus total plantation area will be 14.184 ha	Nil
5e	General remarks of inspecting officer on backfilling,	The mining area not matured for backfilling in 2018-19 but during inspection of FMCP it was observed that backfilling		
	reclamation etc	- 1	started.	

6.0 Progressive Mine Closure Plan-

SN	Item	Proposals	Actual work	Remarks	
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23. Details should be given in the format as given in Annexure-20.	As per approved document rehabilitation is proposed after complete exhaustion of mineral i.e. in 2019-20	PMCP is being submitted	Nil	
6b	Management of worked/mined out benches				
	i) Area available for rehabilitation (ha)	Nil	6.37 ha	Nil	
	ii) Afforestation done (ha)	NIL	0.14 ha	Nil	
	iii) No. of saplings planted during the year	NIL	110	Nil	
	iv) Cumulative no. of plants	NIL	110	Nil	
	v) Any other specific method of	NIL	NIL	Nil	

rehabilitation			
i) Cost incurred on watch &care during the year	NIL	NIL	Nil

6c	Compliance on reclamation and	rehabilitation by	backfilling -	
	i) Voids available for backfilling (Area X D)	Not proposed	0.163 Ha x 5 m	Nil
	ii) Void filled by waste/tailings	Not proposed	To be filled by waste during 2019-20.	Nil
	iii) Afforestation on the backfilled area	Not proposed	To be done during 2019-20.	Nil
	iv) Rehabilitation by making water reservoir	Nil	Nil	Nil
	v) Any other specific means	Nil	Nil	Nil
6d	Compliance of Rehabilitation of waste land within lease	After full extraction of mineral, the area will be rehabilitated by plantation.	About 6.704 ha undisturbed waste land including safety zone is available within the lease area of which 3.25 ha has already been rehabilitated by plantation. Balance 3.454 ha will be rehabilitated by plantation during 2019-20.	Nil
	i) Afforestation	Nil	Nil	Nil
	ii) Area rehabilitated (ha)	Nil	3.25 ha	Nil
	iii) Method of rehabilitation	Plantation	Plantation	Nil
6e	Compliance of Environmental monitoring (core zone &buffer zone)	Environmental monitoring will be done monthly.	Yes being done.	Nil
6f	General remarks of inspecting officer on PMCP compliance &progressive	Br	oadly done as per proposal.	

7.0 Mineral Conservation -

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Entire ROM will be processed in the crushing and screening unit within the lease area.	Being done as proposed.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanically	Being done Mechanically	Nil
7e	Different grade of mineral sorted out at mines	Entire ROM will be sorted out mechanically.	Grades of mineral generated for the year 2018-19-Lumps Fe-60 to 62% Fines- below 55% Fines 55 to 58% Fines 58 to 60% Fines 60 to 62%	Nil
7d	Any beneficiation process at	No beneficiation	NA	Nil
	mines	Proposed at mines site.		
7e	General remarks of inspecting officer on Mineral conservation &beneficiation issues	No beneficiation done wit and screening.	hin lease area exco	ept crushing

8.0 Environment -

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and	No top soil is available in	utilised for plantation along	Nil
	utilization of topsoil	the area. If some top soil is	the safety zone.	
	(Rule 36)	encountered during		
		development, same will be		
		transported to 7.5 mtr non-		
		mining zone at a specified		
		site for future plantation.		
8b	Concurrent use or	No top soil is available in	- do -	Nil
	storage of topsoil	the area.		

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Separate Area has been marked	Maintained	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Waste generated during mining will be utilised for backfilling of excavated quarry as per requirement.	Backfilling started in small pit and most of the area mining is done as float ore mining upto depth of 0.5m.	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	Not Required.	Nil
8f	Baseline information on existence of plantation &additional plantation done (Rule 44)	Plantation will be done @ 500 saplings over 0.5 ha per year as per guidance of Forest Department.	As per guidance of Forest Department. about 3500 nos plants have been planted over 3.47 ha within lease area till 2018-19. Out of which only 1500 plants are survived. Around 350 saplings distributed to the villagers residing adjacent.	Nil

SN	Item	Proposals	Actual work	Remarks
8g	Survival rate	80%	50%	Nil
8h	Water sprinkling on roads to control airborne dust	Arrangement for Water spraying has been proposed to avoid generation of dust.	Being done on regular basis	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	small and preventive measure for dust suppression is followed		

9.0 Compliance of Rule 45 -

S.N.	Item	COMMENTS	Remarks
9a	Status of submission	M.R. Submitted on 09.04.2019 for March 2019.	
	of Monthly and	A.R. submitted up to- 2017-18 on 29.06.2018	
	Annual returns	AR for 2018-19 yet to be submitted.	

S.N	Item	Details GIVEN in	Observation of I/Officer	Remarks
		A.R.		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes given	Shri Santosh Kumar Singh,Mining Engineer & Manager,Shri Naresh Kumar Nirmalkar,Geologist	Scrutiny of AR for 2017-18
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes given	(i) Already exploited & abandoned by opencast (O/C) mining - Nil (ii) Covered under current (O/C) Workings – 4.46 ha (iii) Reclaimed/Rehabilitated – 3.47 ha (iv) Used for waste disposal – 0.051 ha (v) Occupied by plant, buildings, residential, welfare buildings & roads – 0.86 ha (vi) Other Purpose (Mineral storage, subgrade storage, internal road, mineral separation plant, garland drain) 1.462 ha	
9d	Scrutiny of Annual return on afforestation	Yes given	About 3500 nos plants have been planted	Survival rate is very less
9e	Scrutiny of Annual return on mineral reject generation (Grade &quantity)	Nil		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes given	Closing balance ROM 37148 Tons, Graded ore lumps 60-62%-1480 Tons, Fines below 55% grade-43150 Tons,55-58%-402.46 Tons,58-60%-2662.21 Tons,60-62%-784.98 Tons	

S.N	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
•				
9g	Scrutiny of Annual	Yes given	the ex-mine price for -	
	return on sale		Lumps Fe-60 to 62-	
	value, Ex. Mine		Rs1580/-	
	price &production		Fines- below 55 –Rs1950/-	
	cost		Fine 55 to 58 -Rs1459/-	
			Fines 58 to 60-Rs1450/-	
			Fines 60 to 62 -Rs1900/-	
9i	Scrutiny of Annual	Yes given	the value of fixed assets is	
	return on fixed		-Rs 3,52,67,659/-	
	assets			
9k	Scrutiny of Annual	Loader- 1 no, Excavator –		
	return on mining	1 no, Dumper- 5 nos,		
	machineries	Water tanker – 1 no,		
		Crushing and Screening		
		unit – 1 set.		

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:- The mines was presently inspected for Final Mine Closure Plan and no serious violation found.

In last inspection carried out by Shri J.S Hadda, Asstt Mining Geologist on 13.09.2017 violation under Rule26(2) of MCDR,2017 for non-submission of Annual report of the protective and rehabilitation work carried out for the year 2016-17 has been pointed out was complied.

The violation pointed out based on office record under Rule 11 of MCDR,2017 for non-submission of Review of Mining Plan 180 days before expire of approved document is complied as lessee submitted FMCP and it is approved.

(RAJESH KUMAR DAS, SENIOR ASSISTANT CONTROLLER OF MINES)