INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION MCDR REPORT

Dehradun regional office

Mine File No. Minecode: 38HPR01003

(i)	Name of the Inspecting Officer	Deepak Sharma
(ii)	Designation	Senior Mining Geologist
(iii)	Accompanying mine official with designation	Shri Kanchan, Shri Dheeraj
(iv)	Date of Inspection	11.03.2024
(V)	Prev. Inspection date	_

PART-I: GENERAL INFORMATION

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1	(a)	Mine Name	Gagal Lst Mine		
	(b)	Registration No.	IBM/256/2011		
	(c)	Category	A-Category		
	(d)	Type of Working	Opencast		
	(e)	Postal Address			
		State	Himachal Pradesh		
		District	Bilaspur		
		Village	Nalag, Bhateh, Uprali, Barmana, Gagal		
		Taluka/Tehsil	Sadar		
		Post Office	Barmana		
		Pin Code	174013		
		FAX No.	NA		
		E-mail	kanchan.kumar@adani.com		
		Phone	-		
	(f)	Police Station	Barmana		
	(g)	First Opening Date	NA		
	(h)	Weekly day of rest	-		
2		Address for Correspondence	M/s ACC Limited		
			121 Mahakali Karve Road		
			Near Chruch Gate		
			Mumbai 400020		
			Maharashtha		
3	(a)	Lease Number	-		
	(b)	Lease Area	231.25		
	(c)	Period of Lease	50 Years		
	(d)	Date of Expiry	31.03.2023		
4		Mineral Worked	Limestone, Shale & Quartzite		

PART-II: OBSERVATION / COMMENST OF INSPECTING OFFICER

1. Exploration:

S.N.	Item	Proposals	Actual Work	Remarks	
1a	Backlog of previous year	No exploration was proposed in	NO exploration carried out in		
		the reporting year 2022-23	the reporting year 2022-23		
1b	Exploration over lease area for Geological axis 1 or 2.	Potential mineralized area is explored up to G1 level	Potential mineralized area is explored upto G1 level		
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	NO proposal	Not available		
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Potential Mineralized area explored upto G1 level i.e. 135.76 hect	Potential Mineralized area already explored upto G1 level i.e. 135.76 hect	95.49 hect declared as non-mineralized 135.76+95.49=231.25 hect (total ML area)	
1e	Balance reserves as on 01.04.2017	111-142205587.50 122-16902500 211-302191800	111-142205587.50 122-16902500 211-302191800	(As per approved mining plan dated 29.03.2023)	
1f	General remarks of Inspecting officer on geology, exploration etc.	Limestone of the ML area belongs to krol formation, limestone of ML area has various colour appearance with grain size, in nature the limestone of the is hard and compact, limestone found with shale in the ML area.			

2. Development:

	relopment:	T			
S.N.	Item	Proposals	Actual Work	Remarks	
2a	Location of Development w.r.t. lease area	It was proposed to work in the	Working was	ML holder was advised to	
	"	pit 1 towards the	proposed	correct the	
		SE-NW direction	location with	irregular	
		forming benches	irregular	benches.	
		of 10-meters in	benches in		
		height and width	some places		
2b	Separate benches in	It was proposed	Bench are		
	topsoil overburden and	to prepare and	maintained in		
	mineral (Rule 15)	maintain benches	OB and		
		in OB and Mineral	Mineral		
			Limestone		
2c	Stripping ratio or ore	1:0.00	1:0.00		
0.1	to OB ratio	27.7	27 1 7	27 0 12	
2d	Quantity of topsoil	Nil	Nil	No Soil	
	generation in m ³			generated in	
				the reporting	
				year	
2e	Quantity of overburden generation in m ³	Nil	Nil		
2f	General remarks of	Some places irred	gular benches	were observed	
	Inspecting officer on	advised to ML holder to correct the irregular			
	development of pit	_			
	w.r.t type of deposit	benches where shal	e and other loo	se rocks broke	
	etc.	down due to exposin	g to the weather	r after mining.	

3. Exploitation:

S.N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed	Single Pit	Working was	
	for production	Mining were	done in pit 1	
		proposed in	as per proposal	
		Pit-1 named	named Gagal pit	
		Gagal		
3b	Quantity of ROM mineral	5012000	2763650	
	production proposed	0012000	2,00000	
3c	Recovery of	90-95%%	90-95%	
	Salable/usable mineral			
	from ROM production			
3d	Quantity of mineral	Not Proposed	Nil	
	reject generation	_		
3e	Grade of mineral reject	Not Proposed	Nil	
	generation and threshold	_		
	value declared			
3f	Quantity of sub-grade	Not Proposed	Nil	
	mineral generation			
3g	Grade of sub-grade	Not Proposed	Nil	
	mineral generation			
3h	Manual/Mechanized method	Mechanized	Mechanical	
	adopted for segregation	method	method adopted	
	from ROM			
3i	Any analysis or	Not proposed	Nil	
	beneficiation study			
	proposed & carried out			
	for sub-grade mineral and			
	reject			
3ј	Provision of drilling &	Proposed	As per approved	
	blasting in mineral		mining plan	
	benches			
3k	Provision of mining	HEMM is proposed	HEMM is being	
	machineries in mineral	to be used in	used in the	
	benches	the mineral	mineral benches	
		benches		
31	Whether height of benches	Proposed	Bench height	
	in overburden and mineral		and width are	
	suitable for method of		as per mining	
	mining proposed in MP/SOM		i.e. 10 meter	
3m	Total area covered under	59.32 hect	58.31 hect	
	excavation /pits			
3n	Ore to OB ratio for the	1:0.00	1:0.00	
2	pit/mine during the year	000 00 1	100 51 1	
30	Total area put in use	202.29 hect	193.51 hect	
	under different heads at			
2	the end of year	2022 22 5010000	2022 22 2762652	
3р	Production of ROM mineral	2022-23=5012000	2022-23=2763650	
	during last five-years	2021-22=4983000	2021-22=3882200	
	period, as Applicable	2020-21=5002400	2020-21=3084550	
		2019-20=4906450	2019-20=3734350	
		2018-19=4981675	2018-19=3728492	
			2017-18=3670813	
2 ==	Company	Danah hadala	adaph and make the	
3q	General remarks of			ed as per proposal,
	inspecting officer on	TOCALION OF WORKI	ng was as per pro	pusal.
	method of mining etc.			

4. Solid Waste Management-Dumping:

S.N.	Item	Proposals	Actual Work	Remarks	
4a	Separate dumping of topsoil, OB & mineral reject (Rule	Proposed	Separate benches are prepared in	No OB present in	
	32,33)		mineral	the ML	
4b	Location of topsoil, OB &	Proposed	Within lease		
	mineral reject dumps		area		
4c	Number of Dumps within lease	Within	2		
	area and outside lease area	lease area			
4d	Location of Dumps w.r.t.	Outside	Outside the UPL		
	ultimate pit limit (Rule 16)	the UPL			
4e	Number of Active & Alive dumps	2	2	Mineral	
				reject has	
				been removed	
				from the	
				dumps and	
				being used	
				to reduce	
				the quantity	
				as per	
				advised.	
4 f	Number of deed dumps	Not	Nil		
		Available			
4g	Number of dumps established	Not	Nil		
		Proposed			
4h	Whether Retaining wall or	Proposed	Garland drain		
	garland drain all along dumps		and retaining		
	are there		wall prepared		
4i	Length of Retaining wall or	500 meters	650 meters		
	garland drain all along dump				
4 ј	Number of settling ponds	Not	1		
		Proposed			
4 k	Specific commends of	-		and material	
	inspecting officer on waste	e available in the dumps are being used in			
	dump management	cement plan	to reduce the quar	ntity and from	
		the mineral	conversation poin	t of view.	
N					

5. Solid Waste Management-Backfilling:

S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full	Not	Full	
	extraction of mineral from	Proposed	extraction	
	mined out area before		of mineral	
	starting backfilling		is not done	
			yet,	
			mineral	
			continuity	
			still	
			exists	
5b	Area under backfilling of	Not	No area	
	mined out area	Proposed	fully	
			mature for	
			backfilling	
5c	Concurrent use of topsoil for	No top	Nil	
	restoration or rehabilitation	soil		
	of mined out area (Rule 32)	generated		
		during the		
		reporting		
		year		

5d	Total area fully reclaimed &	Not	No area	
	rehabilitated	Proposed	fully	
			mature	
			enough for	
			reclamation	
			program	
5e	General remarks of inspecting	Mineral is still continued in the pits, pit		
	officer on backfilling,	are not fully extracted yet, reclamation and		
	reclamation etc	rehabilitation program not started yet.		

6. Progressive Mine Closer Plan:

S.N	Item	Proposals	Actual Work	Remarks
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	Proposed	Submitted	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	Proposed	Plantation	
	ii) Afforestation done (ha)	1.2	1.2	
	iii) No. of saplings planted during the year	3000	2550	
	iv) Cumulative no. of plants	18500	19000	
	v) Any other specific method of rehabilitation	Not Proposed	Nil	
	vi) Cost incurred on watch & care during the year	Not Proposed	Nil	
6с	Compliance on reclamation and rehabilitation by backfilling			
	i) Voids available for backfilling (L*B*D)	Not Proposed	Nil	
	ii)Void filled by waste/tailings	Not Proposed	Nil	
	<pre>iii) Afforestation on the backfilling</pre>	Not Proposed	Nil	
	iv)Rehabilitation by making water reservoir	Not Proposed	Nil	
	v) Any other specific means	Not Proposed	Nil	
6d	Compliance of Rehabilitation of waste land within lease			
	i) Afforestation	Proposed	2550 numbers of plats were plated in the reporting year	
	ii) Area rehabilitation	Not Proposed	Nil	
	iii) Method of rehabilitation	Not Proposed	Nil	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Proposed	As per approved mining plan	

6f	General	remarks	of	inspect	ing	ly plantation wor	rk was	being	done	in	the
	officer	on PMCP	CO	mpliance	&	ase area in the re	eporting	g year.			
	progressi	ive closer	oper	ations							

7. Mineral Conservation:

S.N.	Item	Proposals	Actual	Remarks
			Work	
7a	ROM mineral dispatch or grade	ROM	ROM is	
	wise sorting within lease area	dispatch	being	
		is	dispatched	
		proposed	to cement	
			plant	
7b	Method of grade-wise mineral	Mechanical	Screener	
	sorting i.e. manual or	method	were used	
	mechanical			
7c	Different grade of mineral	Not	Nil	
	sort out at mine	Proposed		
7d	Any beneficiation process at	Not	Nil	
	mines	Proposed		
7e	General remarks of inspecting	ROM is bei	ng dispatch	to captive cement
	officer on Mineral	plant		
	conservation & beneficiation			
	issues			

8. Environment:

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Proposed	NIL	During the reporting year no soil generated as the working was done depth wise
8b	Concurrent use or storage of topsoil	Proposed	Nil	During the reporting year no soil generated
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Proposed	Nil	No OB or waste generated during the reporting year
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed	As and when generated	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	No area mature enough for the process	

8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Proposed	As per approved mining plan	
8g	Survival rate	90%	85%	Due to extreme
				weather conditions
8h	Water sprinkling on roads to control airborne dust	Proposed	By using water tanker and sprinklers	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area		n work was do al 2550 nos	one in the reporting s of saplings were

9. Compliance of Rule 45:

S.N.	Item	Comments Remarks	
9a	Status of submission of monthly and Annual returns	AR and MR submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer Dheeraj, Manager- Pankaj Nayan	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Furnished	
9d	Scrutiny of Annual return on afforestation	Furnished	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Furnished	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Furnished	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Furnished	
9i	Scrutiny of Annual return on Fixed assets	Furnished	
9k	Scrutiny of Annual return on mining Machineries	Furnished	