

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION
MCDR INSPECTION REPORT
Dehradun regional office**

Mine file No : HP/BLS/LST-9

Mine code : 38HPR01003

I GENERAL

A Inspection Details

1	Name of IO	P068 Pushpendra Gaur	
2	Date of Inspection	15-06-18	
3	Name of Mine	GAGAL LIMESTONE MINE	
4	Status of operations at the mine on the date of inspection	CONTINUING	
	Names and designation of accompanying officials		
	i) MR. PANKAJ NAYAN	MINE MANAGER	
	ii) MR. L.S.K. PRASAD	GEOLOGIST	
5	iii)		
6	Signature(s) of accompanying officials		
7	Assessment Year	2017-18	31-03-18

B Mineral Concession Details

		Basic Mine Management Details	
1	Total Lease Area (Ha)	231.25 HA.	
2	Break up of ML area		
	Non Forest Land(Type of Land and its ownership) (Ha)	128.23 HA. (ACC LIMITED)	
	Forest Land	103.02 HA.	
3	ML Validity	31.03.2030	
4	Any Identification of ML like Survey no. ML No. etc.	ML NO.- 5-205177-Ind (Glg)	
5	Name of the lessee	M/S ACC LIMITED	
	Address with PIN code	CEMENT HOUSE, 121, MAHARHI KARVE ROAD, MUMBAI-400020	
	Phone	022-33024321	
	Email	pankaj.nayan@acclimited.com	
	Fax	022-22004997	
6	Date of Grant of Mining Lease	11/08/1978 & Renewal grant 19/02/2003	
7	Date of Execution of Lease deed	Execution of Renewal of mining lease on dated 26/12/20	
8	Date of first Renewal, if applicable and its period & expiry	19-02-03	
9	Date of second Renewal, if applicable and its period & expiry	Not Applicable	
10	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable	
11	Mineral(s) granted in lease and proved for mining	LIMESTONE & SHALE	
12	Captive/Non Captive	CAPTIVE	

C Basic Mine Management Details

Sr No	Particular	Details
1	Name of the Mine	Gagal Limestone Mine
2	IBM Registration Number under rule 45 of MCDR, 1988	IBM/256/2011
3	Mine code	38HPR01003
4	Mine File no.	
5	Method of Mining (Opencast, Underground)	Open Cast
6	Category (Fully Mechanized, Others or Manual)	Mechanized
7	Date of opening of Mine	Apr-85
8	Location of Mine	
	Village	BARMANA
	Taluka/Mandal/Tehseel	SADAR
	District	BILASPUR
	Pincode	174013
9	State	HIMACHAL PRADESH
10	Post office	BARMANA
11	Nearest police station	BARMANA
12	Nearest Railway station	KIRATPUR
13	Co-ordinate of any two lease pillars	
	i)	Pillar No 15 -31°23'54.6'' N to 76°51'2.8''E
	ii)	Pillar No 16 -31°23'54.2''N to 76°51'0.7''E
14	Co-ordinates of working sites	
	i)	Latitude -31°13'23.10'' to 31°24'57.5''
	ii)	Longitude -76°50'15.5'' to 76°51'8''
15	Address of Mine Office	
	Address with PIN code	M/s ACC Limited, Gagal Cement Works, Barmana, Bilaspur, Himachal Pradesh, 174013
	Phone	91-1978-244031
	Email	pankaj.nayan@acclimited.com
	Fax	91-1978-244067
	Mobile No	9816016842
16	Nominated Owner details	

	Name of the Nominated Owner	Mr. Neeraj Akhoury
	Date of appointment	26.06.2016
	Address with PIN code	M/s ACC Limited, Cement House, 121, Maharshi Karve Road, Mumbai- 400010
	Phone	022-33024321
	Email	pankaj.nayan@acclimited.com
	Fax	022-22004997
17	Agent details	
	Name of the Agent	Mr. Rajat Prusty
	Date of appointment in mines	12.10.2013
	Address with PIN code	M/s ACC Limited, Gagaj Cement Works, Barmana, Bilaspur, Himachal Pradesh, 174013
	Phone	91-1978-244031
	Email	rajatkumar.prusty@acclimited.com
	Fax	91-1978-244067
	Mobile no.	
18	Mine Manager details	
	Name of the Manager	Mr. Pankaj Nayan
	Date of appointment in mines	12.10.2013
	Address with PIN code	M/s ACC Limited, Gagaj Cement Works, Barmana, Bilaspur, Himachal Pradesh, 174013
	Phone	91-1978-244031
	Email	pankaj.nayan@acclimited.com
	Fax	91-1978-244067
	Mobile no.	9816016842
19	Mining Engineer Details	
	Qualification	Mr. Rizwan Jamil
	Total Experience	B.E. (MINING)
	Date of appointment in mines	11 YEARS
20	Geologist Details	
	Qualification	Mr. LSK Prasad
	Total Experience	Msc Geology
	Date of appointment in mines	
21	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42	Yes
	Geologist and Mining Engineer carrying out their duties as per rule 43 & 44.	Yes
22	Mining Plan/Modified Mining Plan approval details	Mining Plan Approved during Renewal of mining lease
	DATE and No. of Approval Letter.	Vide letter No- 614(2)MP.A-100/99-DDN DATED-13/08/1999 614(2)/MS-A-138/2003-DDN dt. 09.02.2018
	Mine Plan execution/Excavation plan period	1999-2019
	specific condition in approval letter, if any.	nil
23	Scheme of Mining/Modified Scheme of Mining approval details	Scheme of Mining approval details
	DATE and No. of Approval Letter.	Vide letter No- 614(2)/MS-A-138/2003-DDN Dated-10/09/2013 New-614(2)/MS-A-138/2003-DDN dt. 09.02.2018
	Mine Plan execution/Excavation plan period	01.04.2013 to 31.03.2018, 01.04.2018 TO 31.03.2018
	specific condition in approval letter, if any.	nil
24	FMCP approval details, if any, specially in case of part surrender	Not applicable
	DATE and No. of Approval Letter.	Not applicable
	FMCP execution period, if any.	Not applicable
	specific condition in approval letter, if any.	Not applicable

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

III GEOLOGY

A Reserve And Resource Details

a)	As mentioned in the latest approved MP/MMP/SOM/MSOM etc., as	31.03.2013		
	Particular	UNFC Code	Qty in Million tonnes	
			Limestone	Shale
1	Reserves	111	144.68	10.09
		121		
		122	59.94	0
2	Resources	211		
		221		
		222		
		331		
		332		
		333	253.11	45.3
		334		

b) Year wise Depletion of reserves during the intervening period

	PROPOSED	ACTUAL
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2013-14	4473488	3808500	LS- 3320450, SH-
2014-15	4482868	4132600	LS-3595750, SH- 536850
2015-16	4492550	4081087	LS-3548682, SH- 532405
2016-17	4490700	3812889	LS-3334284, SH- 478605
2017-18	4498150	4202014	LS-3670813, SH- 531202

c) As on date 31/03/2018

Particular	UNFC Code	Qty in Million tonnes	
		Limestone	Shale
1 Reserves	111 121	118.25	9.97
2 Resources	122 211 221 222 331 332 333 334	57.8 8.24	3.52 0.81
		299.25	33.98

B Exploration Proposals And Achievements

Sr No	Item	Proposal 2017-18	Actual 2017-18	Remarks
1	Exploration carried out for proving mineral existence at Geological axis 1 or 2.	2 no of bore holes	2 no of bore holes	
2	Name of Exploration Agency	Synergy Geotech pvt.	Synergy Geotech pvt.ltd	
3	Expenditure incurred in lakh Rupees during the year		6690000	
4	backlog of previous year 2016-17	Not applicable	Not applicable	
5	Exploration status of the ML area G1/G2/G3 axis as on date of inspection		G1-96.2 ha, G2-19.46ha, G3-20.18ha	
6	Balance area to be explored to bring Geological axis to G1 or G2	G2-19.46ha, G3-20.18ha Total-39.64 ha		
7	General remarks of inspecting officer on geology, exploration etc.			

C Litho units encountered on faces

Alluvium /top soil, upper high Magnesia l.st, grey shale, purple limestone, lower high Mg Limestone, shale, quartzite

IV MINING

A Development

Sr No	Item	Proposal 2017-18	Actual 2017-18	Remarks
1	No. of pits proposed for development	1	1	
2	Location of development w.r.t. lease area	NA	NA	
3	Separate benches in topsoil, overburden and mineral (Rule 15)	NA	NA	
4	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.			

B Exploitation

Sr No	Item	Proposal 2017-18	Actual 2017-18	Remarks
1	Mine pit details			
	Number of pits	1 no. of pits	1 no. of pit	
	Location of pits w.r.t. ML area	Gagal hill	Gagal hill	
	Shape of pits			
	Central block			
	Approximate size of the pits	660*800m	660*800m	less production
	Number of benches in waste	NA	NA	due to low demand
	Number of benches in mineral/ore	14	14	of
	Bench Height in mineral	10m	10m	capative cement
	Bench height in OB/Top soil etc	NA	NA	plant
	Pit Slope	<45°	<45°	
	Approach to faces/benches	yes	yes	
2	Quantity of ROM mineral production proposed (last 5 years) (In Tonnes)			
	Proposed	TOTAL	Actual	TOTAL

2013-14	LS-3942488	4473488	LS-3320450 SH-	3808500
2014-15	LS-3944568	4482868	LS-3595750 SH-	4132600
2015-16	LS-3933000	4492550	LS-3548682 SH-	4081087
2016-17	LS-3948375	4490700	LS-3334284 SH-	3812889
2017-18	LS-3964500	4498150	LS-3670813 SH-	4202014
	Quantity of interburden (Overburden HR)	NA	NA	
	Ore to OB ratio for the mine during the	NA	NA	
3	Recovery of salable/usable mineral from ROM production	NA	NA	
4	Quantity of mineral reject generation	NA	NA	
5	Grade of mineral reject generation and threshold value declared	NA	NA	
6	Quantity of sub-grade mineral generation	NA	NA	
7	Grade of sub-grade mineral generation	NA	NA	
8	Manual / Mechanized method adopted for segregating from ROM	NA	NA	
9	Any analysis or beneficiation study proposed & carried out for sub-grade	NA	NA	
10	Provision of drilling & blasting in mineral benches		Adopting conventional method of drilling by 150mm & 110 mm dia drill M/C & blasting is done by using latest technology of Down the hole initiation system (NONEL)	
	Provision of drilling & blasting in benches other than mineral as the case may be	Adopting conventional method of drilling by 150mm dia drill M/C & blasting is done by using latest technology of Down the hole initiation system (NONEL)	NA	
11	Provision of mining machineries in mineral benches	yes(Raising and hauling of minerals by shovel, dumper combination)	yes(Raising and hauling of minerals by shovel, dumper combination)	
	Provision of mining machineries in benches other than minerals as the case may be	NA	NA	
12	Provision of hauling/transportation from mine to dump/stack yard	NA	NA	
13	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	NA	NA	
15	Updation of Plans & sections as per rule 27, 28,29	yes	yes	
	Date of Survey on Plan	11.04.2018	11.04.2018	
16	Manpower engaged			
	Managerial	7	7	
	Supervisory	8	8	
	Others	NIL	NIL	
	Ministerial	NIL	NIL	
	Workers	63	63	
14	General remarks of inspecting officer on method of mining etc			

C Solid Waste Management-Dumping

Sr No	Item	Proposal 2017-18	Actual 2017-18	Remarks
1	Spread of dumps within lease area and outside lease area	NA	NA	
	Active Dumps	NA	NA	
	Inactive dumps	NA	NA	
2	Dumping of topsoil, OB & mineral reject	NA	NA	
a)	Topsoil	NA	NA	
	Selection of site is as per rules (Rule 32)	NA	NA	
	Usage of top soil (Rule 32)	NA	NA	
b)	Mineral reject (Rule 16 & 33)	NA	NA	
c)	Selection of site and measures for Overburden and/or Interburden dumping (Rule 16 & 33)	NA	NA	
3	Location of dumps w.r.t. ultimate pit limit (Rule 16) & Number of active & alive dumps	NA	NA	
4	Number of dead dumps	NA	NA	
5	Number of dumps stabilized	NA	NA	

6	Length of Retaining wall or garland drain all along dump (In Meters)	NA	NA
7	Number of settling ponds	NA	NA
8	Specific comments of inspecting officer on waste dump management	NA	NA

D Solid Waste Management-Backfilling

Sr No	Item	Proposal 2017-18	Actual 2017-18	Remarks
1	Status on part or full extraction of mineral from mined out area before starting backfilling (In Ha.)	NA	NA	
2	Area under backfilling of mined out area (In Ha.)	NA	NA	
3	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32) M ³	NA	NA	
4	Total area fully reclaimed & rehabilitated (In Ha.)	NA	NA	
5	General remarks of inspecting officer on backfilling, reclamation etc			

V ENVIRONMENT & PROGRESSIVE MINE CLOSURE PLAN

A Progressive Mine Closure Plan

Sr No	Item	Proposal 2017-18	Actual 2017-18	Cumulative so far	Remarks
1	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.	Submitted on 15.06.2018	Submitted on 15.06.2018		
2	Reclamation of dumps				
i)	area afforested	NA	NA		
ii)	No of saplings planted	NA	NA		
iii)	Cumulative no. of plants	NA	NA		
iv)	Cost incurred on watch & care during the year	NA	NA		
3	Management of worked/mined out benches	NA	NA		
i)	Area available for rehabilitation (Ha)	NA	NA		
ii)	Afforestation done (Ha)	NA	NA		
iii)	No. of saplings planted during the year	NA	NA		
iv)	Cumulative no. of plants	NA	NA		
v)	Any other specific method of rehabilitation	NA	NA		
vi)	Cost incurred on post care and maintenance of plantation (Rs.)	NA	NA		
4	Compliance on reclamation and	NA	NA		
i)	Voids available for backfilling (L X B X	NA	NA		
ii)	Void filled by waste/tailings (Ha.)	NA	NA		
iii)	Afforestation on the backfilled area	NA	NA		
iv)	Rehabilitation by making water reservoir	NA	NA		
v)	Any Other specific means	NA	NA		
5	Compliance of Rehabilitation of waste				
i)	Afforestation	1ha	1ha		
ii)	Area rehabilitated (ha)	NA	NA		
iii)	Method of of rehabilitation	NA	NA		
6	Total area covered under (Land use pattern)/Land put to use under various heads	Proposal in latest approved doc	Actual 2017-18		Remarks
i)	Excavation/pits (Ha.)	62.17	58.31		
ii)	Top soil storage (Ha.)	0.00	0		
iii)	Waste/Ob/IB dumps (Ha.)	0.00	0		
iv)	Mineral rejects (Ha.)	0.00	0		
v)	Sub grade mineral stacks (Ha.)	5	3.2		
vi)	Mineral stacks (Ha.)	0	0		
vii)	Plants, buildings, Infrastructure etc. (Ha.)	10	13.37		
viii)	Others (green belt 5ha,) Road-8ha	8	4.63		
ix)	Total area put in use under different heads at the end of year For which FA given (Ha.)	85.17	79.51		
x)	Whether Land put to use is within area for which FA given, if NO then the excess area put to use.(Ha.)	0.00	0		
7	General remarks of inspecting officer on PMCP compliance & progressive closure operations				

B Environment

1	Topography and landscape of the ML area	Max. and min, RL 860 m to 700-m, Hilly terrain	Max. and min, RL 860 m to 700-m, Hilly terrain
2	Public building, places of worship, monuments, protected historical place, place of tourist within ML area, details	NIL	NIL
3	Water regime	NIL	NIL
	Surface	NIL	NIL
	Ground	NIL	NIL
	Stored water in excavated pits	NIL	NIL
4	Human settlement in ML area	NIL	NIL
	How far the human settlement from active mine area	NIL	NIL
5	Environmental monitoring Last monitoring dates		
i)	Air	Quarterly	Quarterly
ii)	Water	Quarterly	Quarterly
iii)	Noise	Quarterly	Quarterly
iv)	Ground Vibration	each blast monitored	each blast monitored
v)	Soil	NA	NA
vi)	Surface subsidence	NA	NA
vii)	Acid Mine Drainage	NA	NA
6	Key result of such Environmental monitoring		
i)	Air	(In $\mu\text{g}/\text{m}^3$) SO ₂ , NOX, and CO to be within prescribed limits	(In $\mu\text{g}/\text{m}^3$)SO ₂ , NOX, and CO are within in prescribed limits
ii)	Water	BoD, CoD, pH, and SS (in mg/ltr.) to be within prescribed limits.	BoD, CoD, pH, and SS (in mg/ltr.) are within prescribed limits.
iii)	Noise	dB(A) in day time and night time - to be within prescribed limits	dB(A) in day time and night time - are within prescribed limits
iv)	Ground Vibration	PPV and PVS to be within prescribed limits	PPV and PVS are within prescribed limits
v)	Soil	NA	NA
vi)	Surface subsidence	NA	NA
vii)	Acid Mine Drainage	NA	NA
7	Precaution against Air pollution (rule 37)	Water sprinkling on haul roads, wet drilling, water sprinkling on loading faces, dense plantation, PPE to workers	Water sprinkling on haul roads, wet drilling, water sprinkling on loading faces, dense plantation, PPE to workers is being carried out.
8	Precaution against Ground Vibration (rule 35)	All blasting operations to be carried out within safe limits.	all blasting operations being carried out within safe limits using controlled blasting.
9	General remarks of inspecting officer on aesthetic beauty in and around mines		

VI MINERAL CONSERVATION

Sr No	Item	Proposal	Actual Work	Remarks
1	ROM Mineral dispatch or grade-wise sorting within lease area	NA	NA	
2	Method of grade-wise mineral sorting i.e. manual or mechanical	NA	NA	
3	Different grade of mineral sorted out at mines	NA	NA	
4	Any beneficiation process at mines	NA	NA	
5	General remarks of inspecting officer on Mineral conservation & beneficiation			

VII COMPLIANCE OF RULE 45

Sr No	Item	Comments
1	Status of submission of Monthly and Annual returns	M.R. Submitted upto May-2018 A.R. submitted upto 2017-18
	S.N. Item	Details GIVEN in A.R Observation of I/Officer
2	Name of mine	Gagal
3	Address of mine	M/S ACC Limited, Gagal cement works, P.O- Barmana, 174013, Tehsil- Sadar, Dist- Bilaspur, Himachal Pradesh.
4	On consumption of diesel and explosives in particular	2017-18, Diesel- 1751854 lts, Explosives-Slurry explosive-21600kgs,
5	Mineral reserve wrt approved SOM if diff (in case of routine depletion then the reason)	
6	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	yes
7	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	
8	Scrutiny of Annual return on afforestation	nil
9	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	nil
10	Scrutiny of Annual return on ROM stock and/or graded ore	nil
11	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	nil
12	Scrutiny of Annual return on fixed assets 9k Scrutiny of Annual return on mining machineries	nil

VIII MCDR COMPLIANCE PAST AND PRESENT

1	Previous date of inspection	01.12.18
2	Violations pointed out in previous inspection	YES
3	Check Compliance status of complied violations	
4	Pending violations	NO
5	Status of compliance of MCDR, 2017, including therewith the rectification of outstanding violation of rules	
6	Violation Detected And Pointed Out During This Inspection	11(1), 45(5) (b), 45(5) (c), 45(6) (b) and 48

Date :

Pushpender Gaur

Indian Bureau of Mines