# INSPECTION REPORT OF COMPOSIE LICENSE Chittapur SW Limestone Block of M/s Dalmia Cement (Bharat) Limited

## PART -I

1.0	INTRODUCTION					
1.1	Name of the Inspecting Officer &	Dr. Sudhakar	a T.L.			
1.1	Designation	Senior Mining	Geologi	st		
	Region/Zone/GM& MM Cell	Indian Bureau	of Mines	s, Bengalurı	u	
	Date of Inspection and	21/01/2025				
		Malaya Maruta		, Bishambe	r Singh	& Harshal
	1 0	Natthuji Sawai	<u>i</u>			
	Date of previous Inspection if any	NT:1				
	and Name of Inspecting officer	Nil				
2.0	Details of PL area					
	77:11	Chitthapura. K	. Salahal	li, K. Naga	mva and	<u> </u>
	Village	Bommanahalli		,		
	Tehsil	Chittapur				
	District	Kalaburagi				
	State	Karnataka				
	Area (in Hectare)	438.00 Ha				
	Name of Mineral for which PL granted	Limestone				
	Date of grant with period; first grant/Renewal/re-grant	10.10.2023				
	Date of execution of the PL	10.10.2023				
	Survey of India Toposheet Number	56G/04				
		Boundary Pillar	Lati	tude	Lo	ongitude
		CSW-A	17° 4'3	37.39"N	77°	3'18.00"E
	Coordinates Lat. And Long.	CSW-B	17° 4'1	9.00"N	77°	4'44.81"E
		CSW-C	17° 3'1	.8.04"N	77°	4'15.65"E
		CSW-D	17° 4'	1.23"N	77°	2'56.41"E
3.0	Name and Address of PL Holder					
	Name	Dalmia Cemen	nt (Bhara	t) Limited		
	II NI	11 <sup>th</sup> & 12 <sup>th</sup> floo	r, Hansal	ava Buildir	ng, 15, B	Barakhamba
	House No:	Road		J	<i>O</i> , ,	
	Tehsil	-				
	District	New Delhi				
	State	New Delhi				
	Tel (Off)	011-23465100				
	Tel (Res)	-				
	Mobile:	+91-9500035726 v.karthikeyan@dalmiacement.com				
	Email Id:			1		
	Land Use Details: (Forest, non-	Land Type		Ownershi	p Aı	rea in Ha.
3.1	forest, grazing, agricultural,	Agriculture				
5.1	barren etc. with details of area in	Land/Build-up/Barre				
	hectare.)	n		Private	43	88.00

## **PART-II**

4.0	Status of Compliance of Rules Of MCDR, 2017	Date of submission	Action taken by IBM in case of non-submission
4.1	Scheme of prospecting under rule 4 of MCDR	1 25.11.2022	Submitted within stipulated time.
4.2	Submission Modification in Scheme of prospecting under Rule 5 if any	_	Submitted within stipulated time.
4.3	Intimation about commencement of prospecting operations in Form-A under Rule 7	18.03.2024 (Online on 03.09.2024)	Submitted within stipulated time
4.4	Appointment of Geologist under rule 55 (Please give name and other details)		Geologist appointed as per Rule 55 of MCDR, 2017
4.5	Form- H under Rule 46 regarding certain appointment	02.09.2024	Submitted in MTS online portal.
4.6		IBOTENOIEST 19 U3 7U74	Submitted within stipulated time.
4.7	l	Record of boreholes under rule 48 (Form-J) is maintained.	
4.8	1 IIII(18) IIII(18 39	The drill cores are stored securely in the core storage facility under lock and key.	
4.9	Submission of half-yearly report along with Form B of the Schedule-I under Rule 9(1)	Not submitted	Violation under Rule 9(1) of MCDR, 2017 issued on 07/02/2025.
4.10	Availability of boundary pillars in the PL area (Yes or No)	No	Boundary pillars not yet established due to license is in CL stage and most part of license area is agriculture land and CL holder not yet acquired the land.
4.11	Does the CL area includes forest land	No	
4.12	If yes then whether FC granted for exploration activities from MOEF with details of permission sought	Not Applicable	
4.13	Permission sought	Not Applicable	
4.14	carried out in Govt. lab or	Chemical analysis of 100% samples carried out in NABL accredited lab	Shiva Analyiticals, Bangalore

## PART – III

5	<b>i.0</b>	GEOLOGY	
5	5.1	Previous work	Geological Survey of India (GSI) has explored the block
			under G4 level (Reconnaissance Survey) as per Minerals

			seas estir	son year mation ha GSI. The	2017-18. Howns been done in	vever, no dri Chittapur SW ned on the b	2015 during field lling & Resource V Limestone Block asis of exploration blocks.
	5.2	Physiography	und	ulating te		est contour ir	of flat to gently n the area is 448m n.
	5.3	idea of the broad geological, structural frame work and pattern of mineralization.	Pura for occu sma wes And the with et al	ana sedimits potentiupies partul portion tern partulhra Prade EW direct a cumul., 1975).	nentary basins o ial for limestone t of Gulbarga, I of the eastern p of Mahabubnag esh thus extendiction over an a	f Peninsular I e resources. T Raichur and I part of the bas ar and Ranga ng over a dist rea of about of 150-200 r	sin extends into the Reddy districts of ance of 200 kms in 5,000 sq. km and n (Janardhana Rao
			50	Eon/Epoch		Formation	Member
				Cretaceous	Deccan Trap	Tormation	Member
				to Eocene		Harwal (45m) Katamdevarahalli (40m)	
				Neo Proterozoic	Bhima Group (297m)	Hulkal (30m) Shahabad (115m)	Mulkod Limestone (10m) Gudur Limestone (20m) Sedam Limestone (60m) Wadi Limestone (15m) Ravoor Limestone (10m)
						Rabanpalli (67m)	Korla Shale (50m)  Kundarapalle Sandstone (15m) Muddebihal Conglomerate (2m)
١				Archaean	A	ngular Unconform	ity
					Basement Rocks	Younger granitoid Eastern Block Gree Peninsular Gneisse	enstone Belts

The sedimentary rocks of the Bhima Group were deposited over an irregular floor of pink granites with a regional unconformity. They are bound in the south and east by pink granites and in the north and west by the Deccan Traps obscuring the original extent of the Basin. The rocks are flat unmetamorphosed, non-fossiliferous bedded, undisturbed except for some local changes due to minor folding and faulting. Bhima Group comprises Rabanpalli Clastic Formation (<70m) and Shahabad Limestone Formation (<75m). Rabanpalli Clastic Formation comprises arkosic, gritty sandstone, alternate sequence of sandstone and shale; and Shahabad limestone Formation includes cherty/argillaceous limestone, bluish grey, blocky micritic limestone, variegated, siliceous and cherty limestone; darkbluish to grey, massive limestone and grey argillaceous micritic limestone.

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	5.4	strike, structural features lithology/rock types, controls of mineralization observed in the PL area, outcrops of mineralisation, surface	The limestone of Chittapur SW Limestone Block belongs to Shahabad Limestone Formation having horizontal beds with general strike ESE-WNW to E-W dipping towards NNE to N with a maximum dip up to 5°. In Chittapur SW Limestone Block no exposures noticed during detailed mapping as the entire block area is covered by top soil, However, five main rock types were identified during exploratory drilling, which are Grey Limestone, Greenish Grey Limestone (Sedam Member), Dark Grey Limestone, Stylolitic Limestone (Wadi Member/Gudur Member) and Flaggy Limestone (Ravoor limestone Member). All these litho-units are part of the Shahabad Limestone Formation. This sequence is underlined by Korla shale which forms part of the Rabanpalli Formation of the Bhima Group.
	5.5	workings (Brief description of dimension of exploratory pits/ old workings/	The entire area is covered with top soil and no outcrop of limestone found in Block area. Mostpart of the lease area is agriculture land and some part covered with crops. The entire are is devoid of any old working. During inspection found evidence of drilling at the bore hole
	5.6	Whether the proposals in the scheme are adequate to delineate the ore body in a way that mineral resources can be estimated partly under G1 and G2 categories of UNFC so as to enable the PL holder for preparing a systematic and scientific mining plan	Yes. From the Geological plan and section, it is observed that about 115Ha. area has been explored under G1 & remaining 323Ha. has been explored under G2. The estimated resources under said categories are sufficient for preparing a systematic and scientific mining plan. However, at the ML stage, the lease holder has to explore the entire lease area (mineralized area) under G1 level.
	5.7	If not, then further measures	At the ML stage, the lease holder has to explore the entire lease area (mineralized area) under G1 level.

## $\boldsymbol{PART-IV}$

6	.0	REVIEW OF PROSPECTING SCHEME					
6	Name of Exploration Agency (whether empaneled with IBM): M/s Synergy Geotech Pvt. Ltd. (Yes, empaneled with IBM)						
6	.2	Work carried out v/s	proposed in sch	neme of prospectin	ng		
		Activities		Proposed	Achieved	Remarks	
	i.	Geological Mapping	Scale & area	1:2000	1:2000		
	1.	(scale)	covered	438Ha.	438Ha.		
	ii.	Pitting	Nos	Nil	Nil		
	iii.	Trenching	Nos	Nil	Nil		
	iv.(a)	Drilling	Nos of holes	56	56		

	iv.(b)	Type of drilling	Core/RC/DTH/ any other	Core	Core	
	iv.(c)	Drilling	meter	4600	4585	Little deviation in drilled depth and samples due to the
	v.	Samples for chemical with check sample criteria (10%) /mineralogical analysis	Nos	4600	4566	proposed depth is tentative. Depth of drilling changes according to the mineralization.
	vi.	Any other (please specify)			Bulk Density analysis of Limestone, Shale & Soil.	
			Geological Mapping & Topographical Survey & DGPS	Rs. 3 Lakh	Rs. 2.3 Lakh	
			Core Drilling	Rs. 78 Lakh	Rs. 83.26 Lakh	
			Sample preparation	Rs. 10 Lakh	9.34 Lakh	Achieved figures as
	vii	Expenditure incurred in exploration activities	Geochemical analysis of Core Samples	e Rs. 26 Lakh	Rs. 24.96 Lakh	per the information submitted by representative of the
		exploration activities	Technical Manpower Cost Project Manager Geologist/ Mining Engineer	Rs. 100 Lakh	Rs. 50 Lakh	CL holder during inspection.
			Local Manpower Cost Rs. 10 Lakh	Rs. 10 Lakh	Rs. 3 Lakh	
			Miscellaneous	Rs. 10 Lakh	Rs. 5 Lakh	
			Total	Rs. 237 Lakh	Rs. 177.86 Lakh	
6.	and data and maintenance of data/		nance of data/ to a view to a acy of work g scheme of p	o establish the con as vertically. CL h generated from bo bowdered samples	ntinuity of lith older maintair reholes, duplic s, core log, san	cate & triplicate uple analysis reports
6.	4	Review of the status not	[1		vered by drill	exploration under G1/
		covered by prospecti	ng.	G2 level.		
6.	6.5 Environment		dor Non	Non forest I and	/20Ll <sub>2</sub>	
	forest land and forest land		Non-forest Land – Forest Land - Nil	430fid,		
6.	6.7 Environmental Details		t f S F t	owards South- So urther north. All t South- South west Rivers/Nallas flow ributary of Bhima he block is about	uthwest with these joining these joining the There are no ving across the priver flows in 11 KM (Aeria	streams which flows he drainage divide ne Dodda nalla further perennial block. Kagini River, the northern side of l distance) in northern water bodies in the

		block area or in the vicinity of it.
6.8	Environmental Protection measures adopted and their efficiency	Exploration has been carried out using wet Core drilling only. No pitting, trenching and DTH boreholes are done. The exploration activity didn't affect the environment.
6.9	Socioeconomic Concern	Most part of the CL area is agricultural land. At ML stage, lease holder has to take all the rehabilitation measures.
6.10	Expenditure incurred in community development through employment /education/village development/housing in the vicinity area.	

## **PART-V**

7.0	OBSERVATIONS OF INSPEC	CTING OFFICER
7.1	Conclusion	CL holder has carried out the exploration in the lease area
		as per Scheme of Prospecting. CL area has been explored
		under G1 & G2 level, which is sufficient to estimate the
		Reserve/resources and systematic & Scientific Mining
		Plan.
7.2	Recommendations	At the stage of ML, G2 area need to be explored under
		G1.
		CL holder has to submit the half year progress report as
		per Rule 9(1) of MCDR, 2017.
7.3	Suggestions for further	At the stage of ML, G2 area need to be explored under
	exploration work if any based-	G1.
	on field inspection and follow	
	l up	

Date: Place:

(Dr. Sudhakara T.L.) Senior Mining Geologist