MCDR INSPECTION REPORT

1.0 **GENERAL**

SN	Particulars	Details
1	Name of the Mine	Zinzerka Limestone Mine, Survey No-22/P (Captive)
1(b)	Name of Inspecting Officer & Designation	Sanjay M. Girhe, Sr. Mining Geologist
1(c)	Accompanying Mines Representatives	Sh. C.M. Devidi, Agent (Mines)
1(d)	Type of Inspection	Modified Mining Plan/MCDR
1(e)	Date of Inspection	31.01.2019
2	Total Lease Area (Ha) with breakup of Non-	14.27 Hectare (Non-Forest),
	forest and forest land	Forest-Nil
3	Mine Code	38GUJ08145
4	IBM Registration Number under rule 45 of	IBM/437/2011
	MCDR, 1988	
5	Name of the lessee, Address, phone, email	Tata Chemicals Limited
	and fax number	Ranavav Quarries, Ranavav, Dist- Porbandar
		Gujarat – 360550, Phone-+912801230381
		cdwivedi@tatachemicals.com
6	Village	Zinzerka
7	Taluka/Mandal	Porbandar
8	District	Porbandar
9	Pincode	360545
10	State	Gujarat
11	Post office	Boricha
12	Nearest police station	Adityana
13	Nearest Railway station	Ranavav
14	Date of Grant of Mining Lease	20.01.1971
15	Date of Execution	19.06.1971 (As per section 8A(5) of MMDR
		Act,2015 lease period deemed to be extended up to
		31.03.2030 (Captive Mining Lease)
16	Date of opening of Mine	Mining operation discontinued since 1999-2000 due
		to non-availability of Environment Clearance
17	Date of first Renewal, if applicable and its	13.06.1990 for 20 yrs from 19.06.1971 to 18.06.1991
	period & expiry	
18	Date of second Renewal, if applicable and its	17.06.2000 for 20 years
19	period & expiry Date of submission of renewal application if	03.04.2018
19	Mining Operations are continuing under	03.04.2018
	deemed extension	
20	Name of the Nominated Owner with	R. Mukundan, Resolution passed on 26.11.2008
20	Address, phone, email, fax number and date	Tata Chemicals Limited
	of appointment	Bombay House, 24 Homy Modi Street,
	or appointment	Mumbai – 400001, Maharashtra, Phone: 022-
		6657411, Email:rmukundan@tatachemical.com
21	Name of the Mine Agent with Address,	C M Dwivedi
	phone, email, fax number and date of	Tata Chemicals Limited
	appointment	Ranavav Quarries, Ranavav - 360550
		Porbandar, Gujarat,
		Email:cdwivedi@tatachemicals.com
		M-09227194002
22	Name of the Mines Manager with Address,	Mining operation stopped since 1999-2000 to till
	phone, email, fax number and date of	date due to pending of Env. Clearance & also ML
	appointment in mines	area falls within Barda Wildlife Sanctuary. Due to
		this reason Mines Manager not appointed
23	Name of the Mining Engineer, Qualification	Mining operation stopped since 1999-2000 to till
	and total experience with Address, phone,	date due to pending of Env. Clearance & also ML

amail fax number and data of annointment	area falls with Barda Wildlife Sanctuary. Due to this
	•
	reason Mining Engineer was not appointed.
	do
carrying out their duties as per rule 43 & 44.	
Date of Approval of Mining Plan/Modified	Mining Plan was approved vide letter No-682 (23)
Mining Plan with five-year period and	(706) / 97-MCCM(N) UDP dt-28.09.1997
1	Scheme of Mining approved vide letter No-682(23)
	MS-187/2003 UDP , Dt- 17.06.2003
	PMCP approved vide letter No-682(23) CLP-
• •	60/2005-UDP, Dt-01.04.2005
approvarienci, ir arry.	Scheme of Mining approved vide letter No-682(23)
	(474)/2006-MCCM(N), Dt-28.11.2006
	Scheme of Mining approved vide letter No-682(23)
	(404)/2006-MCCM(N), Dt-01.04.2013
	Review of mining plan with PMCP approved vide
	letter no-684(4)(1)/MP-81/2017-MDRD(N) / GNR
	,Dt-26.12.2017
Mineral(s) granted in lease and proved for	Limestone
mining	
Method of Mining (Opencast, Underground)	Opencast
Category (Fully Mechanised, Others or	Mechanised.
Manual)	
Captive/Non Captive	Captive
	mining Method of Mining (Opencast, Underground) Category (Fully Mechanised, Others or

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

SN	Item	Proposals (2017-18)	Actual work	Remarks
1a	Backlog of previous year	No backlog of previous year 2016-17	NA	
1b	Exploration over lease area for Geological axis 1 or 2.	No Proposals for exploration on for G1 or G2 axis	Entire mining lease area of 14.27 Ha explored in G1 axis	During 1995-96 entire area was explored by 20 drilled borehole on grid 100m x 100m
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not Proposed	NA	Previously exploration carried out by M/s. GIEM (India) Consortium
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Proposed	Entire mining lease area of 14.27 Ha explored in G1 axis	
1e	Balance reserves as on 01.04.2018	Reserves: (Million Tons) Proved (111)-2.89 Resources: (Million Tons) Feasibility(211):0.55 Pre-feasibility(331):1.15	Reserves: (Million Tons) Proved (111)-2.89 Resources: (Million Tons) Feasibility(211):0.55 Pre-feasibility(331):1.15	No change in reserves as mining operation stopped since 1999-2000
1f	General remarks of inspecting officer on geology, exploration etc.	Entire lase area had been explored as per UNFC Guidelines. During the year 1995-96 total 20 boreholes at 100m x 100x grid pattern were drilled. Hence, no further exploration proposed in plan period.		

2.0 Development

SN	Item	Proposals(2016-17)	Actual work	Remarks
2a	Location of development w.r.t.	No Proposals	NA	Mining operation
	lease area			stopped since
2b	Separate benches in topsoil,	No Proposals	NA	1999-2000 to till
	overburden and mineral (Rule 15)			date due to pending
2c	Stripping ratio or ore to OB ratio	Not Proposed	NA	of Env. Clearance
2d	Quantity of topsoil generation in m3	Not Proposed	NA, (thin layer of top soil encountered)	& also ML area was falling under Barda Wildlife
2e	Quantity of overburden generation in m3	Not Proposed	NA	Sanctuary.
				No Approved MP/ROMP for RY
2f	General remarks of inspecting	Mining activity were carried out previously by opencast method &		
	officer on development of pit	2 working pits were observed of different dimension with		
	w.r.t. type of deposit etc.	maximum depth of working of about 8 to 9.0m		

3.0 Exploitation

SN	Item	Proposals (2017-18)	Actual work	Remarks
3a	Number of pits proposed for production	No Proposals	NA	
3b	Quantity of ROM mineral production proposed	No Proposals	NA	Mining operation were stopped since 1999-
3c	Recovery of salable/usable mineral from ROM production	No Proposals	NA	2000 to till date due to pending of Env.
3d	Quantity of mineral reject generation	No Proposals	NA	Clearance. Mining lease area was falling
3e	Grade of mineral reject generation and threshold value declared	No Proposals	NA	within Eco-sensitive Zone of Barda
3f	Quantity of sub-grade mineral generation	No Proposals	NA	Wildlife Sanctuary
3g	Grade of sub-grade mineral generation	No Proposals	NA	No Approved document MP/ROMP
3h	Manual / Mechanised method adopted for segregating from ROM	No Proposals	NA	for RY. Hence, no proposals.
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposals	NA	
3j	Provision of drilling & blasting in mineral benches	No Proposals	NA	
3k	Provision of mining machineries in mineral benches	No Proposals	NA	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No Proposals	NA	
3m	Total area covered under excavation/pits	8.4966	8.4966	
3n	Ore to OB ratio for the pit/mine during the year	NA	NA	
30	Total area put in use under different heads at the end of year	Pit- 8.4966 Waste/reject Others- 5.7734	Pit- NA Waste/reject Others- NA	

3p	Production of ROM mineral during	Yr- 2013-14	0	
	last five-year period, as applicable	Yr- 2014-15	0	
		Yr- 2015-16	0	
		Yr- 2016-17	0	
		Yr- 2017-18	0	
3q	General remarks of inspecting	Open cast mining i	s proposed with comb	oination of rock breaker,
	officer on method of mining etc.	shovel & dumper, modified mining p		asting also proposed in

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2017-18)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	NA, No mines waste, concurrent use of top soil for plantation.	NA, No mines waste, concurrent use of top soil for plantation	Mining operation stopped since 1999-2000 to till date due to pending of Env.
4b	Location of topsoil, OB & mineral reject dumps	No Proposals	NA	Clearance. Mining lease area was falling
4c	Number of dumps within lease area and outside lease area	None	None	within Eco-sensitive Zone of Barda Wildlife Sanctuary
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposals	NA	No Approved
4e	Number of active & alive dumps	None	None	document MP/ROMP found for RY. Hence,
4f	Number of dead dumps	None	None	no proposals.
4g	Number of dumps stabilished	No proposals	NA	
4h	Whether Retaining wall or garland drain all along dumps are there	No Proposals	NA	
4i	Length of Retaining wall or garland drain all along dump	No Proposals	NA	
4j	Number of settling ponds	None	None	
4k	Specific comments of inspecting officer	Nil		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2017-18)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No Proposals	NA	Mining operation stopped since 1999- 2000 to till date due
5b	Area under backfilling of mined out area	No Proposals	NA	to pending of Env. Clearance. Mining
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Proposals	NA	lease area was falling within Eco-sensitive Zone of Barda
5d	Total area fully reclaimed & rehabilitated	No Proposals	NA	Wildlife Sanctuary
5e	General remarks of inspecting officer on backfilling, reclamation etc	Neither any working pit such proposals given in		l exhausted nor were any mining plans.

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2017-18)	Actual work	Remarks
6a	Whether Annual report on	No. Due to mine	No. Due to mine	
	PMCP submitted on time and	discontinued.	discontinued	
	correctly - Rule 23E(2). Details			
	should be given in the format as			
<u></u>	given in Annexure-20.	N - D 1-	NT'I	
6b	Management of worked/mined out benches	No Proposals	Nil	
	i) Area available for			
	rehabilitation (ha)			
	ii) Afforestation done (ha)			Mine is
	iii) No. of saplings planted			discontinued
	during the year			Since long back
	iv) Cumulative no. of plants			due reason stated
	v) Any other specific method of			as above
	rehabilitation			45 400 10
	vi) Cost incurred on watch &			
	care during the year			
6c	Compliance on reclamation and	No Proposals	Nil	-
	rehabilitation by backfilling	1		
	i) Voids available for			
	backfilling (L X B X D)			
	ii) Void filled by waste/tailings			
	iii) Afforestation on the			
	backfilled area			
	iv) Rehabilitation by making			
	water reservoir			
	v) Any other specific means			
6d	Compliance of Rehabilitation of	No Proposals	Nil	
	waste land within lease			
	i) Afforestation			
	ii) Area rehabilitated (ha)			
	iii) Methof of rehabilitation			
6e	Compliance of Environmental	No Proposals	Nil	
	monitoring (core zone & buffer			
	zone)			
6f	General remarks of inspecting	Mine is discontinued sir		_
	officer on PMCP compliance &	· ·		
	progressive	proposals were given.		

7.0 Mineral Conservation

SN	Item	Proposals (2017-18)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No Proposals	Nil	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines	No Proposals	Chemical grade Lst: >92% CaCO3, SiO2< 4.0% Cement Grade: 44-52% CaO, MgO- 3.5(Max)	
7d	Any beneficiation process at mines	No Proposals	NA	

7e	General remarks of inspecting	As per the proposals given in MP/ROMP, Mineral proposed to be		
	officer on Mineral	conserved very systematically as entire ROM is consumed in soda		
	conservation & beneficiation	ash plant having chemical grade Lst>92% CaCO3 & in cement		
	issues	plant having cement grade limestone of < 92% CaCO3.		

8.0 Environment

SN	Item	Proposals (2017-18)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposals	Concurrent use for plantation	
8b	Concurrent use or storage of topsoil	No Proposals	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposals	NA	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposals	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposals	NA	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	No Proposals	Mine is discontinued since 1999-2000	
8g	Survival rate	No Proposals	NA	
8h	Water sprinkling on roads to control airborne dust	No Proposals	NA	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Mine is discontinued since 1999-2000 due to pending for Env. Clearance & Barda Eco-sensitive Zone. Hence, no such Env. monitoring proposals were given.		

9.0 Compliance of Rule 45

S.N.	Item	COMMENTS	Remarks
	Status of submission of	M.R. Submitted up to till date -10.01.2019	NIL
	Online Monthly and	A.R. submitted up to till date- 30.6.2018	
	Annual returns		

S.N.	Item	Details GIVEN	Observation of I/Officer	Remarks
		in A.R.(2017-	/Actual reported in	
		18)	Returns	
9b	Scrutiny of Annual return for	Given	Appointment of Sh. C.M.	Mining operation
	information on Mining		Dwivedi as Geologist	temporarily
	Engineer, Geologist and		given. He was present	discontinued/stopped
	Manager		during inspection	since 1999-2000 to
9c	Scrutiny of Annual return on	Given	Pit area-8.659Ha	till inspection date
	land use pattern for area		Infrastructure-0.135Ha	due to pending of
	under pits, reclaimed area,			Env. Clearance and
	dumps etc.			also mining lease

9d	Scrutiny of Annual return on afforestation	Not Given	NA	area was falling within Eco-sensitive
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Not Given	NA	Zone of Barda Wildlife Sanctuary
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM opening & closing stock given as "Nil"	Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-mine price & production cost furnished as "Nil"	Nil	
9i	Scrutiny of Annual return on fixed assets	Not Given	Nil	
9k	Scrutiny of Annual return on mining machineries	Not Given	Nil	

Remarks: The above mining lease has been discontinued since 1999-2000 for pending Environmental Clearance. Further, this ML was also falls within Eco Sensitive Zone of Barda Wildlife Sanctuary as per MoEF draft Notification No-S.O.2991(E) dtd 02.11.2015. But, recently MoEF & CC have notified the final ESZ notification dtd 28.04.2017 wherein this mining lease has been kept outside the Eco-Sensitive Zone boundary. In view of these developments party submitted the draft Modified Mining Plan & accordingly inspection of this mine was carried out.

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:- The last inspection of mine was carried out on dtd 10.11.2017 and no violations pointed out. Present inspection was carried out in connection with evaluation of Star Ratings Templates/MCDR during inspection but significant violations observed as the mine was temporarily discontinued since 1999-2000.
