



सत्यमेव जयते

Government of India
Ministry of Environment, Forest and Climate Change
IA Division
(Non-Coal Mining)



Minutes of AGENDA FOR 28th MEETING OF THE EXPERT APPRAISAL COMMITTEE (NON-COAL MINING SECTOR), SCHEDULED TO BE HELD DURING 14th & 15th MARCH, 2024 THROUGH VIDEO CONFERENCING (VC) meeting of Non-Coal Mining held from 14/03/2024 to 15/03/2024

Date: 22/03/2024

MoM ID: EC/MOM/EAC/446256/3/2024

Agenda ID: EC/AGENDA/EAC/446256/3/2024

Meeting Venue: N/A

Meeting Mode: Virtual

Date & Time:

14/03/2024	10:30 AM	05:30 PM
15/03/2024	10:30 AM	05:30 PM

1. Opening remarks

The 28th meeting of the Re-Constituted Expert Appraisal Committee (EAC) for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment, Forest and Climate Change was held during 14-15th March, 2024 through video conference. The list of participants is annexed herewith. After login of the Committee Members through video conference link provided by NIC discussion on each of the Agenda Items was taken up ad-seriatim.

2. Confirmation of the minutes of previous meeting

The minutes of the 27th Meeting of the EAC (NoN-Coal) held during 20th February, 2024 & 21st February, 2024 were placed before the members of the EAC and confirmed by the Chairman.

3. Details of proposals considered by the committee

Day 1 -14/03/2024

3.1. Agenda Item No 1:

3.1.1. Details of the proposal

Expansion of Sanu-I Limestone Mining Project (ML No. 27/1996, Area-1000 Ha.) with Mine Material handling capacity from 3.3 MTPA to 3.848 MTPA (Less than 20 %) in second phase which includes keeping ROM SMS grade Limestone resource- 3.3 MTPA same (SMS Grade Limestone-1.50 MTPA) & recovery of mineral from Handling of old backfilled limestone size reject dumps (0-30 mm size)- 0.548 MTPA along with Crushing (1X300 TPH, 1X250 TPH, 1X200 TPH, 1X150 TPH), Screening plant (2X300TPH, 2X250TPH, 2X200TPH) by RAJASTHAN STATE MINES & MINERALS LIMITED located at JAISALMER,RAJASTHAN

Proposal For		Fresh EC	
Proposal No	File No	Submission Date	Activity (Schedule Item)
IA/RJ/MIN/458597/2024	J-11015/42/2006-IA. II (M)	09/02/2024	Mining of minerals (1(a))

3.1.2. Project Salient Features

The instant proposal is for expansion of Sanu-I Limestone Mining Project with enhancement in production capacity from 3.3 to 3.848 MTPA (less than 20%) in second phase which includes keeping ROM SMS grade Limestone resource- 3.3 MTPA same (SMS Grade Limestone-1.50 MTPA) & recovery of mineral from Handling of old backfilled limestone size reject dumps (0-30 mm size) - 0.548 MTPA along with Crushing (1X300 TPH, 1X250 TPH, 1X200 TPH, 1X150 TPH), Screening plant (2X300TPH, 2X250TPH, 2X200TPH) In the ML area of 1000 ha (ML No. 27/1996) by M/s Rajasthan State Mines and Minerals Limited located near Village Sanu, Sub Tehsil Ramgarh, Tehsil Sam (Old Tehsil Jaisalmer), District Jaisalmer, Rajasthan.

2. The details of the project as ascertained from the document submitted by the Project Proponent and revealed from the discussions held during the meeting are given as under:

i. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" of the schedule of the EIA Notification, 2006 and appraised at the Central level.

ii. The mine lease area is located between Latitude 27°19'39.37"N to 27°19'40.13"N & 27°16'43.77"N to 27°16'44.53"N and Longitude 70°33'47.35"E to 70°33'49.81"E & 70°34'54.62"E to 70°34'57.11"E. The mine lease area falls under the Survey of India Toposheet No: 40 I/11 and falls in Seismic Zone-III.

iii. Earlier, the Project Proponent obtained following Environmental Clearance as tabulated below:

S.No.	Details of EC obtained in the favour of M/s Rajasthan State Mines & Minerals Ltd. (RSMML)	Letter No. & Date
1.	Environment Clearance over an area of 1000 ha for 1.25 MTPA of Steel Grade Limestone.	Vide letter no. J-11015/42/2006-IA. II (M) dated 03.08.2007
2.	Amendment in EC for enhancement in life of mine from 31.03.2016 at maximum annual production capacity of 12.5 LTPA as in the IBM approved Mining Plan/Scheme of Mines, the balance estimated reserves has been enhanced based on the additional exploration during scheme of mining (SOM) period & resulted the mineral reserves of probable/possible category falling under provided category.	Vide letter no. J-11015/42/2006-IA. II (M) (Pt.) dated 22.03.2017.
3.	Further obtained Amendment in EC for enhancement in the production capacity of SMS Grade Limestone from 1.25 MTPA to 1.50 MTPA along with ROM handling of Limestone from 2.799 MTPA to 3.30 MTPA.	Vide Letter no. F. No. J-11015/42/2006-IA. II (M) dated 23.06.2021.

Grant	From	To	Lease deed execution date	Lease registration date
Initial Grant (30 Years)	01/04/1997	31/03/2027	22/07/2010	30/07/2010

Extension	From	To	Renewal date
1st (Deemed renewal from the initial grant)	01/04/1997	31/03/2047	15/11/2018

v. Land Use/Land Cover of the Mine Lease Area:

Private land	ML Area: 1000 Ha.
Government land	
Forest land	0 Ha.
Total Mining lease area (MLA), ha	1000 Ha.
Private land for crusher, workshop & other infrastructure outside the MLA	NA

Mining Plan including Progressive Mine Closure Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	MCDR-MPC0LST/2/2023-AJM-IBM_RO_AJM
	Date	09/06/2023
	Mineral & (Major/Minor)	Limestone (Steel Grade & Cement Grade) and Major
	Mine Lease Area, Ha	1000 Ha.
	Validity	2026-27

Additional information (if any)	Approval of Earlier Mining Plan & Its Subsequent Review In Chronological Order					
	S. No.	Letter Number	Date	Period		Type of Approved Document
				From	To	
	1	326/108/ZN-28/90-MCCM(NZ)	14/06/1991	01/04/1991	31/03/1996	Mining plan
	2	584(6)(3)(15)/96 RCMAJM	20/08/1997	01/04/1996	31/03/2001	Scheme of Mining
	3	584(6)(3)(94)/2001RCM-AJM	04/02/2002	01/04/2001	31/03/2006	Scheme of Mining
	4	584(6)(3) (94-PMCP/2004-AJM	28/01/2005	01/04/2004	31/03/2006	Scheme of Mining
	5	584(6)(3) MS-259/2006AJM	09/09/2006	01/04/2006	31/03/2012	Scheme of Mining
6	584(6)(3) (391)/201	13/06/20	01/04/20	31/03/20	Scheme	

		1-RCOM-AJM	12	12	17	of Mining
	7	584(6)(3) (1667)/2016-RCM-AJM	16/12/2016	01/04/2017	31/03/2022	Review Of Mining Plan
	8	584(6)(3) (1763)/2018-RCM-AJM	14/12/2018	01/04/2018	31/03/2022	Modification Of Mining Plan
	9	584(4)(3) (1899)/2021-22RCM-AJM	29/03/2022	01/04/2022	31/03/2027	Review Of Mining Plan
Mining Parameters	Quantitative Descriptions					
Method of Mining	Open cast Mechanized					
Drilling/Blasting	Drilling/Blasting					
Geological Reserves	392.47 MT (Million Tonne)					
Mineable Reserves	16.35 MT (Million Tonne)					
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/ Waste, MTPA)	Total Material handling 3.848 Million TPA (ROM SMS grade Limestone resource- 3.3 Million TPA recovery of mineral from Handling of old backfilled limestone size reject dumps (0-30 mm size)- 0.548 Million TPA)					

Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	Mineral Reject generation of Size less than 10 mm & as per market specifications possibility is to explore the same for market use and selling of -10mm mineral sized rejects with the objective to zero waste mining as per National Mineral Policy 2019 to Conserve National Resources as much as possible.		
Total water requirement	55	Fresh water	55
		Treated water	0
Source	Water demand is being met available through IGNP Canal		
Permission for withdrawal/ intersection along with details of grant and its validity	Permission obtained from IGNP dated 06/02/2007 for 120 KLD for Sanu-I and Sanu-II mining project.		
Particulars	Particular's Name	Distance & Directions	
Village	Joga village	~ 5.32 Km towards NNE direction from mining lease area.	
Town	Ramgarh (Nearest Town)	~8.67 Km towards NW direction from mining lease area.	
Highway	NH-68	~ Passing through the mine lease area at about 0.90 Km towards South direction from the Pillar W of the M.L area.	
Interstate Boundary	None in 10 KM Radius	--	
Railway Station/Railway line	Sanu Railway station	~ 7.09 Km towards ESE direction from mining lease area.	
Water Bodies	Sanwra Desar Talab	~1.37 Km towards SE direction from the mine lease area	
Forest	None in 10 KM Radius	--	
Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks	
Forest Land within the mine lease area and (if yes) status of Forest Clearance	No	Letter obtained from office of the Dy. Conservator of Forest, Wildlife, Jaisalmer vide letter no. F)(Misc./DCFWLJ SM/2023-24/3155 dated on 29.08.2023 stating that Mine site is about 45 km away from the boundary of Desert National Park Wildlife Sanctuary and about 1.45 Km away f	
National Park	No		

Wildlife Sanctuary	No	rom the Great Indian Bustard Priority Area and lying within the Great Indian Bustard Potential Area
Elephant/Tiger Reserve	No	
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area (ESA)	No	-----
Coastal Regulation Zone (CRZ)	No	-----
Schedule-I species (No.s and name of schedule-I species with authenticated letter)	No	No Schedule I species were observed during primary survey. Further, the Authenticated List of Flora & Fauna issued vide letter no. F () DCF/Technical/2022-23/4863 by DCF, Jaisalmer dated on 04.09.2023 shows presence of three Schedule I species namely: The Indian Porcupine (Hystrix leucura), Rat snake (Ptyas mucosa), Tawny Eagle (Aquila rapax)
Wildlife Conservation Plan	.....	Under Departmental Process

Proposed area for green belt/plantation and no. of saplings proposed	Year		Un-worked Area		Additional plantation to be carried out (Assuming survival rate to be 70%)	Net plantation to be carried out (Along with replacement of non-surviving Plants)	Backfilled Area		Total	
			Area (Ha)	No. of Trees	No. of Trees	No. of Trees	Area (Ha)	No. of Trees	Area (Ha)	No. of Trees
	Existing	Un-worked Area	41.59	41590	--	--	313.50	46,697	--	45370
		Both sides of NH passing through the mine	3.78	3780	--	--				
		1 st (2023-24)	*2.22	18401	--	18401	Maintenance to be done			18401
		2 nd (2024-25)	--	18401	5520	23921				23921
		3 rd (2025-26)	--	18401	7176	25577				25577
		4 th (2026-27)	--	18402	7673	26074				26074
		5 th	--	--	7822	7822				7822
		6 th	--	--	--	--				--
	End of Life of	--	--	--	--	55	Re-	--	--	

	<table border="1"> <tr> <td>Mine</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>9.2</td> <td>gras</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td>sing</td> <td></td> <td></td> </tr> <tr> <td>Total</td> <td>47.59</td> <td>1,18,975</td> <td>22671</td> <td>96275</td> <td></td> <td>872.72</td> <td>Re-gras sing</td> <td>47.59</td> <td>1,47,165</td> </tr> </table>	Mine						9.2	gras									2	sing			Total	47.59	1,18,975	22671	96275		872.72	Re-gras sing	47.59	1,47,165
Mine						9.2	gras																								
						2	sing																								
Total	47.59	1,18,975	22671	96275		872.72	Re-gras sing	47.59	1,47,165																						
Budget for green plant & plantation till the end of life of mine.	Rs. 5.21 lacs (Recurring Cost)																														
Budget for nursery	--																														
Details of existing plantation and its survival rate	Discussed in the above section																														
No. of tree cuts in the mine lease area and compensatory afforestation																														
Particulars for Green belt/plantation	Area covered (in Ha)																														
7.5 m barrier & non-mineralized zone	43.81 Ha. (Green Belt/Plantation (Undisturbed Area) & 3.78 Ha. (Plantation along both sides of NH passing through the mine).																														
50 m safety zone of nallah, roads, electric lines																															
500 m safety zones of nearest habitation villages																														
Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)																															
Period of baseline data collection	March-May 2023																														
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Summer																														
Predominant Wind direction (From)	SW																														
Ambient Air Quality (no. of locations) and results	8																														
Noise level (no. of locations) and results	7																														

Water Quality (no. of locations) and results	Surface-3, Ground water-2 Nos
Soil Quality (no. of locations) and results	7
Hydro geological study and results	Discussed in the chapter 3 of the EIA/EMP Report.
Traffic study (no. of locations) and results	Mining activity would deploy 25 T/Truck and 144 trips/day, or PCU/day will be 432. Thus, incremental increase in traffic will be 50%. There will be no much impact on local transport of mineral from mine site via road ways and railways. The LOS value for the NH-68 will be "Excellent" after post mining. So, the additional load on the carrying capacity of the concerned roads is not likely to have any significant adverse effect
Advertisement for PH with date (name of major national daily and one regional vernacular daily newspaper)	<p>As per EIA Notification, dated 14th September, 2006 and its subsequent amendments till date the said project falls under Category "A" and accordingly, Environmental Clearance (EC) for mining activity is required under <u>para 7 (ii)a of EIA Notification, 2006</u> (for Expansion or Modernization or Change of product mix in existing projects).</p> <p>Earlier in Phase I enhancement in the production capacity of SMS Grade Limestone from 1.25 MTPA to 1.50 MTPA (20% increase) along with ROM Handling of limestone from 2.799 MTPA to 3.30 MTPA (17.89% increase) at operating Sanu-I Limestone Mine.</p> <p>Further, this EIA/EMP report is being prepared for Phase 2: 2.799 MTPA to 3.848 MTPA (37.47% increase) expansion (<40% i.e., 37.47% in phase 1 and phase 2) in line to MoEF & CC OM vide No. IA3-22/10/2022-IA.III [E 177258] dated 11th April 2022 and subsequent OM vide No. IA3-22/10/2022-IA.III [E 177258] dated 30th May 2022, para 5 Table Scenario III : "Up to 40 percent based on successful compliance of previous environmental safeguard conditions related to expansion of 20 percent" clearly stating that there is requirement of revised EIA/EMP report and Certified EC Compliance report however there is no requirement of fresh public consultation</p>
Date of PH	
Venue	
Chaired by	
Main issues raised during PH	
Budget proposed for addressing issues raised during PH over 3 years	
Additional information (if any)	
Particulars	Details of Letter along with date of grant and validity
Consent to Establish	F(Mines)/Jaisalmer(Jaisalmer)/1958(1)/2016-2017/1150-1154 dated 07/07/2021 valid till 31/07/2024
Consent to Operate	(Mines)/Jaisalmer (Jaisalmer)/1958(1)/2016-2017/1155-1159 dated 07/07/2021 valid till 31/07/2024
Certified Compliance Report and Inspection date	PP submitted the Certified Compliance Report (CCR) dated 24.10.2023. As per the CCR, the inspection was carried out on 19.07.2023.

Certified Production Details from the inception of the mine (in tabular form against the EC capacity)	Certified Production figure along with EC Capacity				

xiv. Rehabilitation & Resettlement (R&R):

R & R details	No R & R study involved as this is an existing mining project also no settlements are present in the mine lease area that requires R & R.
Court Case, No and its present status	No Court Case is pending
Undertaking by Project Proponent w.r.t court case	Undertaking is enclosed along with the EIA/EMP Report.
Affidavit as per Ministry's OM dated 30.05.2018	Project Proponent has submitted an Affidavit along with the EIA/EMP Report.
Undertaking by Project Proponent in EIA/EMP report	Project Proponent has submitted an Undertaking along with the EIA/EMP Report.
Undertaking by Consultant in EIA/EMP report	Undertaking by Consultant has been submitted along with the EIA/EMP Report.
Plagiarism Certificate	Plagiarism Certificate has been submitted along with the EIA/EMP Report.

xvii. Details of the Environmental Management Plan (EMP):

S. No.	Activity	Budget Allocation in Lacs. (Capital)	Budget Allocation in Lacs. (Recurring)	
1	Environmental Monitoring Cost			
		--	0.50	
	b. Air	Air pollution monitoring	-- 20.0	1.00 1.00
		ii Control of fugitive emission during loading and unloading, transportation/water sprinkling measures. iii Air Pollution Control Devices installation at the material transfer points at crusher plant (Fogging System, Bag Filters)	-- --	10.00 5.00

	iii Greenbelt/Plantation	--	5.21		
	c. Noise pollution Monitoring	--	0.40		
2.	Construction of Water conservation and management structure	3.00	0.70		
3.	Drip Irrigation	3.00	1.00		
4.	Blasting related safeguard expenses	--	0.50		
5.	Waste Management (Municipal Waste)	--	0.15		
6.	Fencing around mine pit to prevent loss of wildlife and human movement	78.71	0.20		
7.	OHS/Surveillances	2.00	2.00		
8.	Rehabilitation of mined out backfilled area (re-grassing)	8.72	1.00		
Total		115.43	28.66		
Particulars		(Rs. In Crore)			
Total cost of EMP (Capital Cost of EMP + capital cost of Public hearing)	Sr. No.	Particulars	Capital Expenditure (In Crores)		
	1	Existing project cost	Rs. 12.00 Crores		
	2	Project cost for expansion	Rs. 25.52 Crores		
	3	Environment Management Plan	Existing	Proposed	
			Recurring (Rs Lacs)	Capital (Rs Lacs)	Recurring (Rs Lacs)
			20	115.43	28.66
Total		Rs. 37.52 Crore			
Project Cost	Rs. 37.52 Crore				
Employment (No.s)	112				
Sr. No	Condition as per OM	Compliance of condition			
	The project should have gone through the public hearing process, at least once, for its existing EC capacity on which expansion is being sought, except those category of projects which have been exempted as per para 7 III (i) of EIA Notification 2006 and its amendments.	Public hearing of the project held on 07.07.2005 for an annual production capacity of 12.50 Lakh tonnes (1.25 million tonnes) of steel grade limestone.			

	There should not be change in Category of the project from 'B2' to 'B1' or 'A' due to proposed modernisation or expansion	There is no change in the category of the project.
	There is no additional land acquisition or forest land diversion involved for the proposed expansion or there is no increase in lease area with regard to mining vis-à-vis the area mentioned in the EC, based on which public hearing has been held earlier.	No Change in the Project Area.
	The proposed expansion shall not be more than 50% of production capacity as mentioned in the prior EC, issued on the basis of public hearing held and the same shall be allowed in minimum three phases.	Proposed expansion is not more than 50% of production capacity.
	Predicted environmental quality parameters arising out of proposed expansion/modernization shall be within the prescribed norms and the same shall be maintained as per prescribed norms.	Baseline Monitoring and data have been collected during the Month of month March to May 2023 in summer season.
	The proposed expansion should not result in reduction in the greenbelt area as stipulated in the earlier EC, or if the existing ratio of greenbelt is more than 33%, after expansion it should not reduce below 33%.	PP has proposed additional plantation apart from the 33% of ML area.
	The project proponent should have satisfactorily complied the conditions stipulated in the existing EC(s) and satisfactorily fulfilled all the commitments made during the earlier public hearing/consultation proceedings and also the commitments given while granting previous expansion, as may be applicable. This shall be duly recorded in the certified compliance report issued by the IRO/CPCB/SPCB, which should not be more than one year old at the time of submission of application	PP has submitted the certified compliance report vide dated 24.10.2023. Site inspection date has not been submitted by the PP.
	Public Consultation shall be undertaken [if applicable as per table below] by obtaining response in writing, as per para 7 III (ii) (b) of EIA Notification 2006, except those category of projects which have been exempted as per para 7 III (i) of EIA Notification 2006 and its amendments.	Not applicable.
	Effluent monitoring including air quality monitoring systems as specified in the existing EC, if stipulated, should have been installed.	No data available.

3.1.3. Deliberations by the committee in previous meetings

N/A

3.1.4. Deliberations by the EAC in current meetings

The EAC, after deliberations observed that instant project is for expansion and PP has applied under OM dated 11.04.2022 for enhancement upto 37.87% (Stage-2) capacity expansion under para 7(ii) of EIA Notification, 2006. The EAC observed that the PP has not complied to all of the points of mentioned in the Ministry's OM dated 11.04.2022 issued under para 7(ii)(a) of EIA Notification, 2006, for expansion up to 50%. EAC further noted that the PP is having the permission to mine 1.5 MTPA SMS grade limestone with ROM handling capacity of 3.3 MTPA.

The PP has collected the Baseline data for the period from March to May, 2023 and observed that the Ambient Air Quality, Water Quality, Soil Quality and Noise Level are within the permissible limits.

Further, the Committee observed that the PP has not complied the condition with regard to the plantation of trees within mine lease area, the EAC opined that the existing ratio of greenbelt should be more than 33% of the Mine Lease area. EAC also noted that PP has not installed any Continuous air quality monitoring system within the ML area. The EAC also emphasised that PP should increase the activity-wise budget for EMP, Public Hearing and their recurring cost. Based on aforesaid discussion, the EAC **deferred** the proposal for the submission of following information:

- i. The PP needs to submit the point wise compliance of Ministry's OM dated 11.04.2022 under para 7(ii)(a) of EIA Notification, 2006, for expansion up to 50%, within the existing premises/ mine lease area, without additional land acquisition.
- ii. PP needs to submit a study showing the impact of mine operation upon the existing boundary of Desert National Park /Wildlife Sanctuary and upon the Great Indian Bustard Potential Area which is about 1.45 Km away from the Mine lease boundary.
- iii. The PP needs to submit the authenticated mineable Limestone reserve and total Limestone reserve available within ML area from Director of Mines and Geology.
- iv. The PP needs to submit DMG authenticated past production since the commencement of mining operations.
- v. The PP needs to submit an undertaking for not exceeding the past production w.r.t. the EC capacity.
- vi. The PP needs to create a nursery of native plant species in 5 ha land within the mine lease area (with not less than 1 lakh of sapling capacity). The nursery should be ready within three months.
- vii. The PP needs to submit the status of wildlife conservation plan prepared as per the Wildlife amendment act, 2022.
- viii. The PP needs to submit the detail action plan related to the budget already spent and to be spent with regard to activities covered under EMP and as part of CSR.
- ix. The PP needs to submit the recorded Drone video of the Mine lease area covering Mine pit, OB dump and Plantation area.
- x. The PP needs to undertake a carrying capacity study in order to find out the impact on the National Highway-68.

3.1.5. Recommendation of EAC

Deferred for ADS

3.2. Agenda Item No 2:

3.2.1. Details of the proposal

Gujarda, Dudheri & Dudhala Limestone Mine by Nirma Limited located at BHAVNAGAR,GUJARAT			
Proposal For		Fresh EC	
Proposal No	File No	Submission Date	Activity (Schedule Item)
IA/GJ/MIN/443968/2023	J-11015/153/2016-IA-II(NCM)	13/09/2023	Mining of minerals (1(a))

3.2.2. Project Salient Features

The proposal is for Environmental Clearance for Gujarda, Dudheri & Dudhala Limestone Mine for production capacity of 2.7 MTPA in the mine lease area of 681.62 ha by M/s Nirma Limited located at Villages Gujarda, Dudheri & Dudhala, Tehsil Mahuva, District Bhavnagar (Gujarat).

2. The details of the project as ascertained from the document submitted by the Project Proponent and revealed from the discussions held during the meeting are given as under:

- The mine lease area is located between Latitude 21°01'1.31"N to 21°03' 44.86" N and Longitude 71°41'15.21"E to 71°43'38.54"E. The mine lease area falls under the Survey of India Toposheet No: F42R12 and falls in Seismic Zone-III.
- The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.
- The Project Proponent has obtained the ToR for mining of Limestone in Gujarda, Dudheri & Dudhala Limestone Mine of M/s Nirma Limited vide letter no. J-11015/153/2016-IA.II(M) dated 06.02.2023.
- Details of Mine Lease in chronological manner:

S.no	Prospecting License/ Letter of Intent (LoI)/ Grant of Mine lease and Lr No	Date of the grant	Name of the Mineral & (Major/Minor)	Period of Grant	Granted by	Mine lease area in Ha
1	MCR-102004-1943-CHH	15.02.2008	Limestone	30 years	IMD, Government of Gujarat	1497.4701
2	MCR-102004-1943-CHH	02.02.2011	Limestone	30 years	IMD, Government of Gujarat	1489.4701
3	MCR-102004-1943-CHH	08.01.2017	Limestone	50 years	IMD, Government of Gujarat	681.62
S. No	Details of grant of Mine Lease deed execution	Period of Grant		Name of the Mineral	Mine lease area in Ha	
		From	To			
1	MCR-102004-1943-CHH	11.01.2017	10.01.2067	Limestone	681.62	

Private land	565.9454	
Government land	115.6746	
Forest land	-	
Total Mining lease area (MLA), ha	681.62	
Private land for crusher, workshop & other infrastructure outside the MLA	No facilities outside the ML area. However crusher will be installed at company's Cement Plant.	
Mining Plan including Progressive Mine Closure Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	File No.: 684(4)(1)/MP-348(197)/2021-22 GNR/1121
	Date	04.08.2021
	Mineral & (Major/Minor)	Major
	Mine Lease Area, Ha	681.62
	Validity	31.03.2026
Mining Parameters	Quantitative Description	
Method of Mining	Opencast mechanized	
Drilling/Blasting	Multi-row drilling and V-pattern drill holes for deep hole drilling and blasting. Slurry explosive -cap sensitive and non-cap sensitive.	
Geological Reserves	57.280 Million tonne	
Mineable Reserves	20.574million tonne	
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/ Waste, MTPA)	Top soil- 0.57 mi.cum OB/SB/IB/Mineral Rejects- Nil Waste-Nil	
Life of mine	11 years (Life of mine may be increased subject to conversions of resources under 333 category into category of reserves 111)	
Mine Bench Height & Bench Width	6.0 m, for working bench 12-15 m for closing (conceptual) bench Optimum	
No. of Mine Benches	2	
Existing Depth, m bgl	New mine	

Ultimate Depth of Mining, m bgl	10 m		
Ground Water Table, m bgl	15.5 m (Post monsoon)		
Details of ground water intersection	No ground water will be encountered during planning stage i.e. in working plan in neither pre monsoon nor post monsoon season in any of the pits. Ground water will also not intersect during mining at the end of mine life.		
Individual bench slope	80-85°		
Overall pit slope	~ 45°		
Details of existing/ proposed Crusher	Proposed crusher will be installed at Cement Plant.		
Mineral Beneficiation	-		
RoM output size	-		
Transportation details including capacity of dumper/tipper, mode of transport and distance	<p>Internal haul road from mine face to crusher and by conveyor from crusher to the Cement plant adjacent to the mine lease.</p> <p>For the Soda Ash Plant located at approx.100 km at Kalatalav, Bhavnagar limestone will be transported in dumpers/ trucks through National Highway 51.</p> <p>Internal haul road from mine face to crusher means of dumper/tippers of 25 tonnes capacity.</p>		
Generation of Topsoil/OB & its Management during plan period & conceptual period	<p>Top soil at plan period- 249806 cu.m, temporary stacking at one location</p> <p>Top soil at conceptual period-321394 cu.m, simultaneously backfilling</p>		
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	Nil		
Additional information(if any)	Surface miner as well as ripper/dozer & rock breaker will be used for mining to minimize drilling & blasting.		
Total water requirement	44 KLD	Fresh water	3 KLD
		Treated water	41 KLD
Source	<p>Fresh water source Narmada water pipeline/Water tanker.</p> <p>Water harvested within mine lease during rainy season.</p> <p>Treated water source- Reject water of RO /DM plant & Reject water of RO /DM plant (proposed at Cement plant)</p>		

Permission for withdrawal/ intersection along with details of grant and its validity	Permission for water withdrawal from Narmada water pipeline has been taken vide letter No. GWIL/Bhavnagar/Ind.conn./1257 dated 4.06.2008.	
Additional information (if any)	-	
Particulars	Particular's Name	Distance & Directions
Village	Gujarda, Dudheri, Dudhala Madhiya Padhiarka	0.2-0.5 km 0.5 km, NW 0.5 km, W
Town	Mahuva	4.0km, NE
Highway	NH-51 (Una-Mahuva highway)	Within
Interstate Boundary	Rajasthan	Approx.500 KM,N
Railway Station/Railway line	Amrutvel	2.0km, N
Water Bodies	Arabian Sea Coast	0.5 km, S from the HTL
	Samdiyala Salinity ingress control bund	4.5 km, WSW
	Malan Bandhara	1.5 km E
	Malan River	4.4 KM,E
	Bhambhali River	5.4 Km, W
	Garasawo River	0.9 KM,NE
Forest	RF near Patwa	2.8 KM,SW
	RF near Doliya	7.4 KM,E
	RF near Dudheri	0.6 KM,S
	RF near Gujarda	0.3 KM,S
	RF near Khared	2.1 KM,E
Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks

Forest Land within the mine lease area and (if yes) status of Forest Clearance	No	
National Park	No	
Wildlife Sanctuary	No	
Elephant/Tiger Reserve	No	
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area (ESA)	No	
Coastal Regulation Zone (CRZ)	Yes	ML area outside CRZ- GCZMA letter no.ENV-10-2023-170-T dated 19.07.2023
Schedule-I species (No.s and name of schedule-I species with authenticated letter)	Yes	Peafowl, Chinkara and Asiatic lion & as per Wildlife Protection Amendment Act, 2022, schedule-1 species have been updated in WLCP.
Wildlife Conservation Plan	Yes	On the basis of the fauna study findings & list of fauna authenticated by Forest Department, Wildlife Conservation Plan was prepared and submitted for approval. The said Wildlife Conservation Plan had been approved by the Forest Department on 20.12.2021. Rs. 19.9 lakh has been approved for the conservation of wildlife in the study area. As suggested by EAC & latest Wildlife Protection Amendment Act, 2022, budget allocation for WLCP has been increased from Rs.19.9 Lakh to Rs.65.9 Lakh for all 3 mines.
Proposed area for green belt/plantation and no. of saplings proposed		30.00 Ha.
Budget for green plant & plantation till the end of life of mine.		90.95 Lakhs
Budget for nursery		-
Details of existing plantation and its survival rate		-
No. of tree cuts in the mine lease area and compensatory afforestation		As per actual during mining
Particulars for Green belt/plantation		Area covered (in Ha)

7.5 m barrier & non-mineralized zone	10.0
50 m safety zone of nallah, roads, electric lines	10.0
500 m safety zones of nearest habitation villages	-
Additional information (if any)	10.00 ha(Backfilled area (Govt. wasteland))
Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)	
Period of baseline data collection	01.03.2021 to 02.06.2021
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Summer
Predominant Wind direction (From)	South
Ambient Air Quality (no. of locations) and results	16
Noise level (no. of locations) and results	16
Water Quality (no. of locations) and results	15
Soil Quality (no. of locations) and results	12
Hydro geological study and results	As per planned mining and Report of hydrogeological & hydrological studies of core and buffer zone of Gujarda, Dudheri & Dudhala limestone mine, the ground water table may get intersected in post monsoon during 11th year at conceptual pit bottom level of +1.0 AMSL. However, conceptual pit bottom level will be kept above ground water level i.e. +4.0m AMSL to avoid intersecting ground water level.
Traffic study (no. of locations) and results	01 location & V/C = 31.27
Advertisement for PH with date (name of major or national daily and one regional vernacular daily newspaper)	26.03.2023 in Sandesh Newspaper & Indian Express
Date of PH	28.04.2023
Venue	At the premises of Nirma Cement Plant Area, NH 8E/51, Survey No. 80, Village: Padhiyarkha, Taluka: Mahuva, Dist. Bhavnagar
Chaired by	District Collector & District Magistrate, Bhavnagar

	nagar District & Regional Officer, GPCB Bha vnagar
Main issues raised during PH	Air pollution, salinity ingress ion, wildlife prot ection, acquisition of agriculture land
Budget proposed for addressing issues raised during PH over 3 years	77 Lakhs
Particulars	Details of Letter along with date of grant and validity
Consent to Establish	GPCB CTE granted vide dated 25/01/2021 & valid upt o 24/01/2028.
Consent to Operate	-
Certified Compliance Report and In spection date	-
Certified Production Details from th e inception of the mine (in tabular fo rm against the EC capacity)	Fresh mine
R & R details	The total mine lease area is 681.62 ha, out of which Govt. land is 115.6746 ha and Private land is 565.945 4 ha. Land will be required for quarrying an area of 1 14.24 ha of Private land and Government land includ ing 18 houses/hutments in land of Gujarda (15 nos.), in land of Dudheri (3 Nos.) & Dudhala (0 Nos.) villa ges. There will be total of 656 land losers. There will be direct purchase or leasing of private land, with the willing consent of the private land owners. Approx. t otal compensation will be Rs 18.0 Lakhs. In addition to above, the registration cost of sale of the land and homesteads shall be borne by the Company. Assumin g it to be 6% of the entire costs of sale, the total resett lement budget works out to be Rs. 78.17 lakhs.
Court Case, No and its present status	The Project Proponent has submitted an undertaking vide letter dated 07.10.2023 stating that there is no lit igation on the project either at NGT or any other cour t of law related to environment and pollution matters in which the project proponent is a respondent.
Undertaking by Project Proponent w.r. t court case	
Affidavit as per Ministry's OM dated 30.05.2018	The Project Proponent has submitted an undertaking by way of notarized Affidavit dated 09.10.2023 statin g that the proposal does not involve violation of Mini stry's OM dated 30.05.2018.
Undertaking by Project Proponent in E IA/EMP report	The Project Proponent has submitted an undertaking vide letter dated 14.02.2023 stating that the contents (

		information and data) as given by the Consultant in the EIA/EMP report are factually correct with full knowledge of the undersigned (Shri Ashish Desai).
	Undertaking by Consultant in EIA/EMP report	The Director of the EIA Consultant (M/s Centre for Envotech & Management Consultancy Pvt. Ltd) has informed that the baseline data was generated by MoEF & NABL Accredited Laboratory M/s Min Mec R&D Laboratory, a division of Min Mec Consultancy Pvt. Ltd., New Delhi and the same has been verified and also confirmed that he shall be fully accountable for any misleading information mentioned in this statement.
S. No.	Observation of the EAC in 21 st meeting held during 18-20 th October, 2023	Reply by Project Proponent
1.	The site visit report of the subcommittee.	Site visit has been conducted by subcommittee on 22-25 th December, 2023.
2.	Since the mine site is located within 20 km from seaboard frontier, the Project Proponent shall submit No Objection Certificate from Ministry of Defense for consideration of the instant project.	Project Proponent has submitted a letter for issuance of NoC/Clearance from Ministry of Defence vide application dated 10.11.2023. Project Proponent has submitted a letter to Department of Geology & Mining, Govt. of Gujarat, Bhavnagar for recommendation to issue NOC to Ministry of Defense vide application dated 07.12.2023. As per our understanding, there is no clarity or guideline in respect of process to be followed to obtain NoC of Ministry of Defense (MoD), therefore, our humble request is that issue the EC without condition of obtaining NOC from MoD.
3.	The Project Proponent needs to submit the action for laying common Over Land Belt Conveyor (OLBC) for transportation of mineral from mine lease area to the Cement Plant. The Project Proponent also needs to submit the action plan for expansion of road with a width of 7m and by pass	The mine is captive mine to proposed cement plant at Mahuva and High grade limestone to be used in company's own existing Soda Ash plant located at Kalatalav, Bhavnagar as per permission accorded by the Govt. of Gujarat vide letter dated 17.08.2023. The cement plant is adjoining to the mine lease while the Soda ash plant is located around 100 km away and accessed through National Highway. Establishment of cement plant may take some time as the appeal is pending before Hon'ble Supreme Court while the soda ash plant is already operational. Hence, till the commencement of proposed cement plant, maximum 5% i.e. 450 TPD chemical grade limestone will be transported through dumpers @18 trips per day via existing village road of 7 m (out of which 4 m is black topped) to National Highway and ultimately Soda Ash plant at Bhavnagar. Company is very much keen to establish cement plant as early as possible & will produce & consume required limestone for cement manufacturing

	<p>ing the village road till the commission of the Over Land Belt Conveyor (OLBC).</p>	<p>on its highest rated capacity. We assure your kind authority that we will widen the black top of the existing village road from mines to National Highway prior to commencement of Proposed Cement Plant. Section plan of proposed road black top widening has been submitted to the MoEF&CC. Also, as discussed during the EAC meeting, we will explore the possibility of Over Land Belt Conveyor (OLBC) on either side of the highway based on the technical possibility & feasibility by reputed consultant. We are going to approach M/s. Holtec Consultants for regulatory, commercial & technical feasibility for above stated OLBC.</p>
<p>4.</p>	<p>The Project Proponent needs to explore the possibility of laying over bridge over the Highway and shall submit the permission from the National Highways Authority of India (NHAI).</p>	<p>Since, the National Highway is under construction, we have submitted letter to National Highway Authorities of India(NHAI) regarding grant of permission to provide Underpass near our cement plant entry point or any other option suggested by NHAI for transportation of raw material & finished product. Acknowledgment dated 23.10.2023 has been submitted.</p>
<p>5.</p>	<p>The Project Proponent needs to submit the protection measures to be taken for salt water intrusion and the effectiveness of the salinity ingress control bund.</p>	<p>Samdhiyala Salinity Ingress Control bund (Samdhiyala bund) was constructed by Government of Gujarat in the year 2000 on Motpet Creek to prevent sea water from coming towards landward side. On the landward side, rain water gets accumulated as well. Presently, the accumulated rain water of Samdhiyala bund is being used during post monsoon by adjoining agriculture land owners and in other seasons they are extracting ground water through borewell. For agriculture land which is away from Samdhiyala bund, farmers are extracting ground water through borewell for agriculture due to which salinity & TDS are increasing in ground water. As per company's water management strategy, after commencement of cement plant, company will undertake deepening of 100 ha surrendered land out of our total allotted plant land and also pledged to construct garland drains around the proposed plant area which will improve the overall fresh water storage capacity of Samdhiyala bund on landward side. Regular desiltation of canal will improve water retention capacity of Samdhiyala bund. At the time of mining, bottom level of conceptual pit will be kept above ground water level to avoid intersection. Hydrogeological monitoring network will be established by constructing piezometers in and around the lease. During mining, present hydrological system will keep intact by constructing garland drain around the pits to maintain present hydraulic gradient towards the Samdhiyala Bund. After exhaustion of mineral, voids left will act as natural water harvesting structures. Collected rain water will stand and gradually percolate into the sub surface water & in long term improve the quality of ground water. Positive pressure of fresh water on landward side will be created, which will aid in pushing back the saline front, which may be at a lower elevation.</p>

		In view of the above, due to mining there is no possibility of salt water intrusion in the area & effectiveness of the salinity ingress control bund as well as hydrogeological system of bund will not be disturbed & infact will significantly improve the effectiveness of salinity ingress control bund.
6.	The Project Proponent needs to submit the site specific mitigation measures for backwaters from Arabian Sea coming into the mine lease area.	<p>In this regard, following site specific mitigation measures will be taken:</p> <p>Arabian Sea is situated at distance of more than 0.5 km in the south of the said mine lease and is clearly outside the CRZ area which is certified by GCZMA. Letter dated 19.07.2023 has been issued to M/s Nirma ltd. from GCZMA.</p> <p>There was only one probability of sea water coming to mine lease area which is through Motpet Creek. Samdhiyala Salinity ingress bund has been constructed on Motpet Creek to restrict backwater coming from Arabian sea towards landward side. Therefore, there is no possibility of backwater from Arabian sea to come to mine lease area.</p> <p>Hydrogeological monitoring network will be established by constructing piezometers in and around the lease to monitor the water level & water salinity.</p> <p>Positive pressure of fresh water on landward site will be created due to water storage in mine pits, which will aid in pushing back the saline front as well.</p>
7.	The Project Proponent needs to revisit the plan for backfilling with clearly indicating the voids area and the capacity available/required for backfilling.	<p>The Indian Bureau of Mines, Govt. of India, Gandhinagar has approved the Mining Plan vide its letter dated: 05.08.2021 for the period of 5 years i.e. up to 2025-26.</p> <p>As per approved Mining Plan, Removal of soil and its disposal as below.</p> <p>Year: FY 2021-22 to FY 2025-26 Removal of soil(cum):249806 Means of disposal: *Temporary stacking at one location near Proposed Pit no.1.</p> <p>Then, temporary stacked soil will be shifted for Backfilling of shallow pits of around 4.0 m depth (Proposed Pit No. 6) after five year mine plan period. A map has been submitted.</p> <p>Area covered under stacking (ha): 6.20 Year: FY 2026-27 to FY 2031-32 Removal of soil(cum):321894 Means of disposal: *Temporary stacking at one location till 2026-27 and then, temporary stacked soil will be shifted for Backfilling.</p> <p>Simultaneously Utilized for Back filling of shallow pits of around 4.0 m depth Proposed Pit No. 6. (As demonstrated in map attached in Enclosure-VIII).</p> <p>Then, temporary stacked soil will be shifted for Backfilling of shallow pits of around 4.0 m depth (Proposed Pit No. 6) after five year mine plan period.</p> <p>Area covered under stacking (ha):Nil Total Removal of soil(cum): 571200 Area covered under stacking (ha): nil Looking towards availability of topsoil, backfilling of part area is envisaged.</p> <p>Total voids area envisaged till conceptual period = 114.24 ha Total soil removal envisaged till conceptual period = 0.57 million cum (114.24 Ha *0.5 m avg. soil thickness)</p>

		<p>Total backfilling area envisaged till conceptual period = 15.66 ha Ultimate Dimensions of Pits at the end of conceptual period Pit No.: 1 Pit Area covered (ha):49.56 Pit Top (m AMSL):20 to 14 Pit bottom (m AMSL): 10 Pit Depth in in m: 10 to 4 Pit Area covered by backfilling(ha): No backfilling proposal Pit No.: 2 Pit Area covered (ha):12.78 Pit Top (m AMSL):13 to 11 Pit bottom (m AMSL): 8 Pit Depth in in m: 5 to 3 Pit Area covered by backfilling(ha): No backfilling proposal Pit No.: 3 Pit Area covered (ha):14.40 Pit Top (m AMSL):13 to 11 Pit bottom (m AMSL): 6 Pit Depth in in m: 7 to 5 Pit Area covered by backfilling(ha): No backfilling proposal Pit No.: 4 Pit Area covered (ha):17.51 Pit Top (m AMSL):17 to 12 Pit bottom (m AMSL):11 Pit Depth in in m: 6 to 1 Pit Area covered by backfilling(ha): No backfilling proposal Pit No.: 5 Pit Area covered (ha):4.33 Pit Top (m AMSL):15 to 13 Pit bottom (m AMSL):6 Pit Depth in in m: 9 to 7 Pit Area covered by backfilling(ha): No backfilling proposal Pit No.: 6 Pit Area covered (ha):15.66 Pit Top (m AMSL):10.5 to 4 Pit bottom (m AMSL):4 Pit Depth in in m: 6.5 to 0 Pit Area covered by backfilling(ha): Backfilling of pit area of 15.66 Ha for entire depth – 570000 cu.m Total Pit Area covered (ha): 114.24 Pit Area covered by backfilling(ha): 15.66 Ha (570000cu.m)</p>
8.	<p>The Project Proponent needs to revise the activities proposed under the Wildlife Conservation Plan. The Project Proponent also needs to ensure that the Schedule-I species as per the</p>	<p>Revised wildlife conservation plan incorporating the Schedule-I species as per the latest Wildlife Protection Amendment Act, 2022 has been submitted. 10 species are protected under the Schedule-I of The Wildlife (Protection) Act 1972 are as: Asiatic Lion, Indian Leopard, Striped Hyena, Jungle Cat, Indian Fox, Jackal, Indian Grey Mongoose, Indian Porcupine, Chinkara and Grey Wolf. Further, 2 species (Indian Peafowl and Eurasian Spoonbill) are protected under the Schedule-I of The Wildlife (Protection) Act 1972 amended 2022.</p>

	<p>latest Wildlife Protection Amendment Act, 2022 shall also be included in the Wildlife Conservation Plan for their conservation.</p>	
<p>9.</p>	<p>The EAC was of the view that the compensation rate is very less and asked the Project proponent to revisit and justify the budget proposed for Resettlement & Rehabilitation (R&R). The Project Proponent also needs to submit the action plan for land acquisition and timeline.</p>	<p>Type of land: Private Land rate, Rs. Lakh/ ha: 13.00 Land requirement, ha: 100.22 Total Amount Rs. lakhs: 1302.86 Type of land: Government Land rate, Rs. Lakh/ ha: On mining lease Land requirement, ha: 14.02 Total Amount Rs. lakhs: _ Total Land requirement, ha: 114.24 Total Amount Rs. lakhs: 1302.86 Total amount given considering as per DLC rate. However, land will be procured/get consent for mining purpose on mutual agreed market rates. Total amount given considering as per DLC rate. However, land will be procured/get consent for mining purpose on mutual agreed market rates. Type of homestead: Pucca Rate, Rs. /sq.m.: 10000 Approx. Homestead area**, sq.m.: 360 Total compensation, Rs. lakhs: 36 Type of homestead: Semi pucca Rate, Rs. /sq.m.: 5000 Approx. Homestead area, sq.m.: 360 Total compensation, Rs. lakhs: 36 Type of homestead: Kutcha Rate, Rs. /sq.m.: 2000 Approx. Homestead area**, sq.m.: 360 Total compensation, Rs. lakhs: 36 Total Approx. Homestead area**, sq.m.: 360 Total compensation, Rs. lakhs: 36 ** Company will consider homestead losers falling in proposed mine area on actual basis at the time of starting of mining activity and such homestead losers shall be compensated on mutually agreed commercial terms. Since the land owners as well as homestead owners shall be compensated on commercial terms, therefore, they will have better economic strength to rehabilitate or reinvest the compensation amount. Hence, no separate R & R plan is envisaged. Action plan for land acquisition and timeline is as below: Sr. No: 1 Timeline for land requirement(present) Sr. No.: 1.1 Timeline for land requirement(present): purchased Pvt. Land: 49.49 Govt. land: 0 Total: 49.49</p>

		<p>Sr. No.:1.2 Timeline for land requirement(present): Consented Pvt. Land:25.67 Govt. land:0 Total: 25.67</p> <p>Sr. No.:1.3 Timeline for land requirement(present): Leased Pvt. Land:0 Govt. land:115.67 Total: 115.67</p> <p>Sr. No: 2 Timeline for land requirement(Future)</p> <p>Sr. No.:2.1 Timeline for land requirement(present): 1st to 5th year mining Pvt. Land: 54.21 Govt. land:0.02 Total: 54.23</p> <p>Sr. No.:2.2 Timeline for land requirement(present):6th year to Conceptual stage -11th year Pvt. Land: 102.70 Govt. land:14.04 Total: 116.74</p> <p>Sr. No.:2.3 Timeline for land requirement(present):Minelife (up to lease period) Pvt. Land: 565.94 Govt. land:115.67 Total: 681.62</p> <p>Mining lease deed has already been executed for said mining lease so mining can be started in Govt. lease land. As far as private land is concerned, company has obtained surface rights for mining by purchasing land/consent in some of the land & for remaining land, company is in process to procure ownership or surface right for mining on mutually agreed commercial terms. We hereby assure that company will obtain surface rights of the land before entry in pvt. land for starting mining activity in the mining lease area.</p>
10.	<p>The Project Proponent needs to submit the action plan for year wise exploration program.</p>	<p>The Indian Bureau of Mines, Govt. of India, Gandhinagar has approved the Mining Plan vide its letter dated: 05.08.2021 for the period of 5 years i.e. up to 2025-26.</p> <p>Looking towards the systematic exploration of the entire area, 182 nos. of Core Bore Holes has been proposed in the area in order to bring the ML area within G1 stage in accordance with MEMC Rules 2015 and MCDR 2017 as per approved mining plan.</p> <p>The deposit is sedimentary origin and simple in nature, therefore boreholes are kept at an interval of 200m grid pattern. A total of 182 number of Core Boreholes are proposed up to a level of +1.0 MRL . Initially BH drilling shall be at an interval of 400m. If limestone potentiality proves, then further BH can be done closely at 200m interval. All proposed BH shall be drilled vertically. The exploration shall be carried out in five years of working i.e. year 2021-22 to 2025-26. Exploration shall be carried out as shown in table to bring BH at 200m interval.</p> <p>Program of Future Exploration</p>

		<p>YEAR:2021-22 to 2025-26 No. of BH: PBH-1,3,10,12,14,16,28, 31,33,35,54,56,58,75,77 Grid Interval:400 m Total Meterage: Up to +1.0 MRL YEAR:2021-22 to 2025-26 No. of BH: PBH-37,41,43,61,66,79, 81,83,96,100,115,117,119,121,143,141,139,137, 135,133,167,165,163,169,171,173,179,181 Grid Interval:400 m Total Meterage: _ YEAR:2021-22 to 2025-26 No. of BH: PBH-2,4,5,6,7,8,9,11,13, 15,17,24,25,26 Grid Interval:200 m Total Meterage: _ YEAR:2021-22 to 2025-26 No. of BH: PBH-18,19,20,21,22,23,27,29,30,32,34,36,38,39,40,42,44-55,57,59,60,6 2-65,67,71-74,76,93,94 Grid Interval:200 m Total Meterage: _ YEAR:2021-22 to 2025-26 No. of BH: PBH-68-70,82,84,78,80,85-92,95,97-99,101-116, 118,120,122,123,124-1 27 Grid Interval:200 m Total Meterage: _ YEAR:2021-22 to 2025-26 No. of BH: PBH-128-132,134,136,138, 140,142,144,162,164,166,168,170,172,174-1 78,180,182 Grid Interval:200m or below Total Meterage: _ YEAR:2021-22 to 2025-26 No. of BH: EP-1 & EP-2 size 3m*3m Grid Interval:_ Total Meterage: up to level +1.0mRL The exploration shall be started as soon as mining work is started on gran t of EC and try to accomplish within shorter period if conditions are favor able. The location of Proposed BH is depicted in Surface Geological plan of th e approved mine plan and given in EIA report in figure no. C 2-2 in Chap ter 2 has been submitted.</p>
11.	The Project Prop onent needs to su bmit the copy of t he permission lett er obtained from t he State Govt. for utilization of Che	Permission accorded by the Govt. of Gujarat vide order dated: 17.08.202 3 for utilization of Chemical Grade of Limestone for non-cement purpose s has been submitted.

	<p>mical Grade of Limestone for non-cement purposes.</p>	
12.	<p>The Project Proponent needs to submit a letter from the Department of Geology and Mining, Government of Gujarat clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s. Nirma Limited or not?</p>	<p>The company has not carried out any mining within the lease area much less any illegal mining in the lease area. There are old pits pre-dating the allotment of the lease to the company, which were received in legacy and shown in the present surface geological plan. Request letter in this regard has been submitted to Department of Geology and Mining, Government of Gujarat on 01.11.2023. Acknowledgement of the same has been submitted by the Project Proponent.</p>
<p>Site Visit Recommendation Reply</p>		
1.	<p>PP should submit an action plan and timeline to indicate the purchase of lands across all three mining leases wherein it has proposed mining pits to initiate mining activities since as on date PP has only purchased / obtained surface rights over 101.1967 Ha out of 1351.6489 of Private Agriculture Land.</p>	<p>Action plan and Timeline indicating the purchase /obtain surface rights of land for mining for all three mining leases to initiate mining activities has been submitted by the Project Proponent.</p>
2.	<p>Since PP envisages to handover the land with shallow quarry hav</p>	<p>In said mine, survey has been conducted & one pit i.e. Pit No. 6 (Pit area -15.66 Ha) will have shallow depth pit and will be backfilled for entire depth of pits, looking to availability of soil for backfilling Pit no. 6 -15.66 Ha Pit area of avg. 3.25 m bgl for entire depth. Action plan for backfilling of shallow depth pits of depth up to 4.0 m and han</p>

ing depth upto 4m to land owners for farming and mostly all three mining leases are having agricultural land. PP is requested to conduct a survey to indicate the present status and number of low-lying areas, their respective which may be backfilled with available capacity of top soil/overburden and can be handed over to farmers for agricultural purpose.

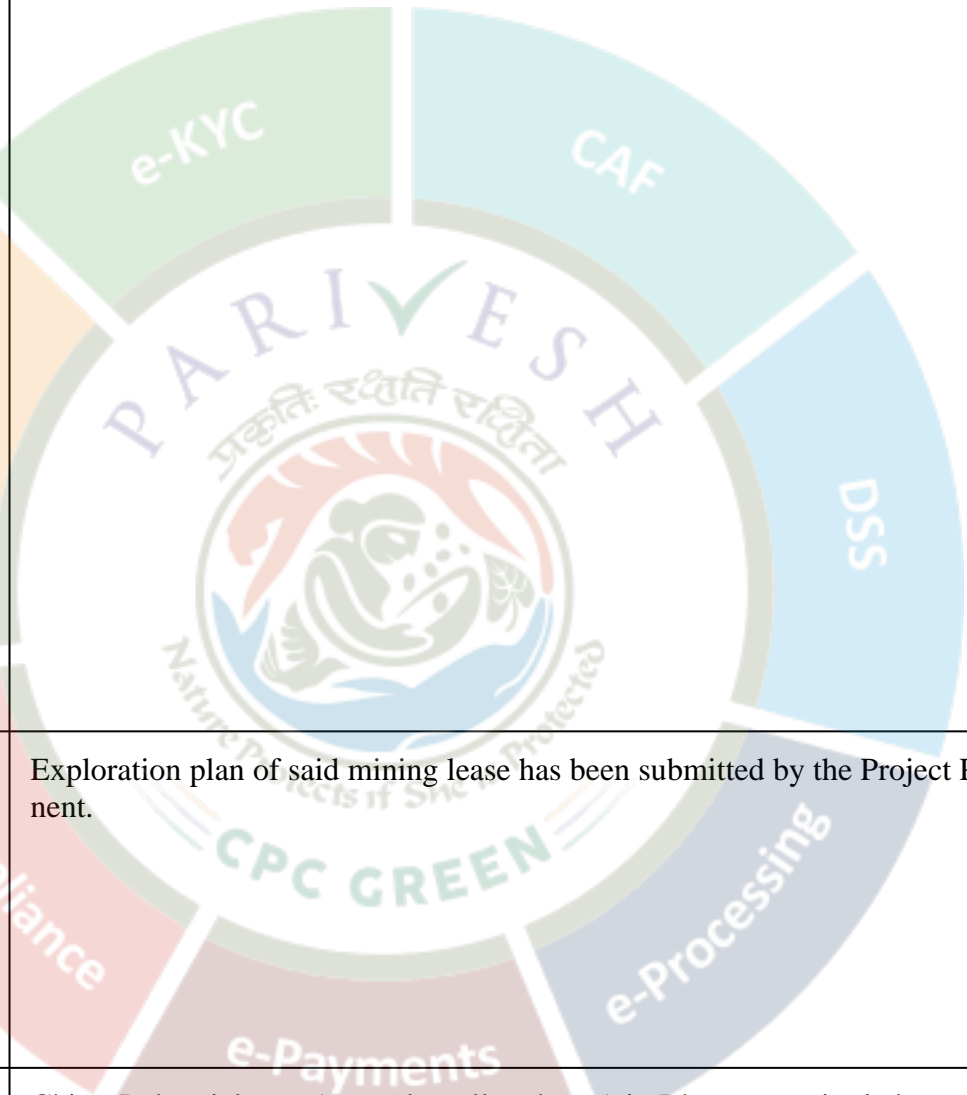
ding over to farmers for agriculture has been submitted by the Project Proponent.

3. Project Proponent needs to provide year wise exploration plan for all the three mining leases.

Exploration plan of said mining lease has been submitted by the Project Proponent.

4. Since, Bhavnagar falls under severely Polluted Area category, PP shall ensure that during initiation phase itself they should include the provision of permanent water sprinkl

Chitra Industrial area (severely polluted area) in Bhavnagar city is located around 100 km away from our said mining lease area. On initial stage, company will engage water tanker with sprinkler arrangement to suppress the dust on haul road and company will make provision of permanent water sprinklers across the haul roads in all three mining leases.



	ers across the haul roads in all three mining leases.	
5.	Since, Bellur and other schools are in close proximity to mine lease area, PPs shall ensure that necessary safety measures are taken as per DGMS norms for all three mining leases.	Company will ensure to maintain required safety measures & distance from Bellur School & other schools as per DGMS norms for all three mining leases during mining.
6.	PP shall ensure to construct bunds near the existing low lying areas that has developed into wetland to prevent the ingress of sea water in Padhiyarka and Doliya Limestone Mine lease area and Gujarada, Dudheri & Dudhala limestone mine lease area.	<p>The low lying area is where the rain water accumulates temporarily during monsoon. These are not notified as wetlands either under Ramsar Convention or by Central Govt. or State Govt. Hence, the identifications and provisions under Wetlands (conservation and Management) Rules, 2017 do not apply in this case as per clause 3 of aforesaid Rules.</p> <p>Moreover, Padhiyarka and Doliya Limestone Mine lease area and Gujarada, Dudheri & Dudhala limestone mine lease area are located at a distance of more than 500 m from High Tide Line of sea & also this area (between sea and low lying area in our mining lease area) have higher altitude, therefore, there is no chance of sea water ingress in mining lease area.</p> <p>However, company will construct bunds as and when required.</p>
7.	The project Proponent needs to submit the integrated management plan describing the strategies and actions for achieving wise use of the wetland and the plan shall include	<p>There is no Ramsar convention/ Central or State Government notified wetland in and nearby our mining lease area. The water bodies such as river channels and human-made water bodies (such as submergence areas of Samdhiyala Bandhara, Malan Bandhara) are excluded from the definition of wetlands as per Wetlands (Conservation and Management) Rules, 2017.</p> <p>There are low lying areas, in which rain water accumulates temporarily during monsoon. Mining activity will contribute towards enlarging & deepening such areas in pit no. 2 & 3 of Padhiyarka & Doliya Mine and pit no. 5 & 6 of Gujarada, Dudheri & Dudhala making a positive contribution to fresh water storage. The company does not intend to have any other use for these low lying areas.</p> <p>As part of the integrated management plan for protection of water logged areas in and around the project, following steps shall be undertaken:</p>

	<p>objectives of the site management, management actions required to achieve the objectives, factors that affect, or may affect, the various site features, monitoring requirements for detecting changes in ecological character and for measuring the effectiveness of management, and resources for management implementation.</p>	<p>1 Company will not do mining below 2 m AMSL in this low lying area so that there is no salinity ingress due to mining activity.</p> <p>1 Piezometer will be installed at designated locations to monitor changes in ground water level.</p> <p>1 Other allied activities such as transportation will be carried out by maintaining safety distance from this low lying area</p> <p>1 In this area of Gujarat, water logging due to rain water is a common phenomenon and resident water birds take advantage of such seasonal water logging to feed. Hence, company has proposed several measures as part of the wildlife conservation plan, with 3-year budget, as follows:</p> <ul style="list-style-type: none"> n Supporting 3 local NGOs for Conservation Awareness activities (Rs. 18 lakhs) n Provision for Rapid Rescue Vehicle for Wildlife (Rs. 10 lakhs) n Assisting Plantation activities to be carried out by Forest Department, Bhavnagar (Rs. 1.5 lakhs) n Nature/Eco-tourism guide & hospitality training 20 persons (Rs. 2.5 lakhs) n Provision of equipments, camera, binoculars for efficient monitoring and eco-tourism promotion (Rs. 7.5 lakhs) n Maintenance of shallow ponds/rainwater harvesting structures (Rs. 3 lakhs) n Van Sahayak 1 nos. on contract basis (Rs. 3.6 lakhs) n Public education and awareness programmes for the following - Avoiding plastic, Recycle and reuse, Reduce usage of pesticide and weedicide, Conservation of Wildlife, Garbage control (Rs. 3 lakhs). <p>Six-monthly third-party WLCP monitoring report preparation (Rs. 1.25 lakhs)</p>
<p>8.</p>	<p>PP needs to engage and impart skill among the villagers and local population mainly the land losers and also submit a plan for their alternate livelihood arrangement since most of them will be losing their fertile lands.</p>	<p>Company will not acquire any agriculture land through land acquisition by Govt. or without willingness of land owner and will purchase / obtain surface rights for mining on market commercial negotiated rates.</p> <p>Land owners may purchase agriculture land in nearby area in the amount which is to be paid to them against their land and can continue their livelihood.</p> <p>Company will give priority to engage land owners who have given land for mining purposes as per requirement of manpower for mines.</p> <p>Also, company will arrange to impart training to build capacity for self-employment [stitching, embroidery, tailoring, pickles, dairy improvement, poultry farming, etc.] to land losers and will facilitate vocational training along with skill development for getting better job opportunities (Budget Rs. 3 lakhs/year).</p>
<p>9.</p>	<p>PP should widen the existing village roads before using it for transportation in all three mining leases, wh</p>	<p>On initial stage, company has proposed to mine out limestone for Soda ash plant in lower capacity and company will use existing village road for transportation of limestone by maintaining the existing village road as number of trips of truck / dumpers will be very less i.e. around 18 numbers of trips/day maximum in this mine.</p> <p>Company will widen the existing village road or make alternate road in all three mining leases on installation of cement plant. Section plan of the road widening has been submitted by the Project Proponent.</p>

	<p>erever widening is not possible, PP shall submit an action plan for making alternate roads.</p>	
10.	<p>PP should engage wildlife experts/ avian experts for conservation of the avian fauna within and near its mine lease.</p>	<p>Company has already engaged wildlife expert / avian expert for conservation of the avian fauna within and near its mine lease.</p>
11.	<p>PP shall plant native fruit bearing plants across all the proposed green patches.</p>	<p>Native fruit bearing plants will be planted across all the proposed green patches.</p>
12.	<p>PP shall put boundary pillars across all mining leases.</p>	<p>Company had erected boundary pillars at the time of lease deed execution and got authentication of all boundary pillars co-ordinates through the DILR / State Govt. and provided in the approved mining plan for all three mining leases. Some pillars have been dislodged/ removed by local people. Company will put such boundary pillars again prior to commencement of mine so that they can be maintained.</p>
13.	<p>The project proponent needs to submit a letter from the Department of Geology & Mining, Govt. of Gujarat, clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s Nirma Limited</p>	<p>The company has not carried out any illegal mining in the lease area and request letter to provide required certificate regarding no mining carried out by company or others has been submitted to the District Geologist, Department of Geology and Mining, Government of Gujarat, Bhavnagar vide letter dated: 01.11.2023. In turn, the District Geologist, Bhavnagar has submitted his report to the Commissioner of Geology & Mining, Govt. of Gujarat, Gandhinagar vide its letter dated: 01.02.2024 to communicate the same to MoEF and copy endorsed to us. As per his report, No case of Illegal mining of limestone mineral has been registered within the mining lease area against the company M/s Nirma Limited or against any other individual or entity. Copy of our submitted letter dated: 01.11.2023 and copy of report of the District, Geologist, Geology & Mining Dep't, Bhavnagar dated 01.02.2024 has been submitted by the Project Proponent.</p>

	ted or not?		
14.	PP needs to submit plan to transport crushed limestone from all the three leases to plant.	<p>The mine is captive mine to proposed cement plant at Padhiarka, Mahuva and High grade limestone to be used in company's own existing Soda Ash plant located as Kalatalav, Bhavnagar.</p> <p>The cement plant is adjoining to the mine lease while the Soda ash plant is located around 100 km away and accessed through National Highway.</p> <p>Establishment of cement plant may take some time while the soda ash plant is already operational.</p> <p>Hence, till the commencement of proposed cement plant, maximum 5% i.e. 450 TPD limestone will be transported to Soda ash plant located near Bhavnagar through dumpers @18 trips per day. The trucks will pass through existing Dudhala - Amrutvel village road of 7 m width (out of which 4 m is black topped) for around 1.0 km and meet National Highway no. 51, from where the truck will move around 100 km.</p>	
15.	PP needs to take some measures to keep the migration bird ponds unharmed and protected by activity of mining in future.	<p>Migratory birds are seen in Malan Bandhara as well as other nearby Bandhara areas, which areas located at distance of 1.5 km and 4.5 km from our mining lease area, respectively.</p> <p>Birds are also seen in low lying area, in which rain water accumulates temporarily during monsoon. However, they are pre-dominantly resident water birds.</p> <p>The company is committed to the measures proposed in the site specific wildlife conservation plan (summarised in point 7 earlier), which include points related to protection of shallow ponds, ecology and birds.</p> <p>The company will mine above 2m AMSL in low lying areas to maintain the fresh water nature of the water in it. The enlarging of the low lying area in pit no. 2 & 3 of Padhiarka & Doliya Mine and pit no. 5 & 6 of Gujarda, Dudheri & Dudhala will provide more area to birds. Also company will ensure that transportation will be carried out by maintaining safety distance from low lying areas.</p>	
16.	PP needs to install water treatment plant to reduce the hardness of water.	<p>Drinking water is provided in every nearby villages through Narmada water pipeline by the State Govt. and drinking water requirements for mines shall also be fulfilled through Narmada water pipe line which is passing through nearby area. Hence, presently there is no proposal to use the hard ground water. However, if any requirement sought in future we will provide treatment plant.</p>	
17.	PP needs to explore possibility of deploying surface miners for mining.	<p>Company has proposed mining with surface miner (50% quantity) in IBM approved mine plan and also in EIA report. Company explored use of Ripper dozer for cement plant use to eliminate drilling & blasting in the remaining 50% and committed the same in point no. 3, Specific Terms of Reference received from MOEF&CC vide Letter no. J-11015/154/2016-IA. II(M) dated November 28, 2022.</p> <p>For soda ash plant, we need sized limestone i.e. 25 mm to 100 mm, so surface miner cannot be deployed for limestone mining for Soda ash plant use. However, company will deploy rock breaker to avoid blasting during mining.</p>	
Activities		Capital cost (Crores)	Recurring cost (Lakhs/annum)

Pollution Control	0.291	10.12
Pollution monitoring	0.016	3.88
Occupational health	0.014	0.95
Environmental Studies, etc.	0.10	–
Green belt	–	5.10
Reclamation	–	10.03
Others (Environmental studies, Rehabilitation, Realignment, Expert advice, fencing etc.	–	5.48
Overheads	–	0.32
Total	0.421	35.87

Particulars	(Rs. In Crore)
Total cost of EMP (Capital Cost of EMP + capital cost of Public hearing)	1.19
Project Cost	25
Employment (No.s)	84

3.2.3. Deliberations by the committee in previous meetings

Date of EAC 1 :19/10/2023

Deliberations of EAC 1 :

The EAC deliberated the instant proposal along with Vangar & Madhiya Limestone Mine and Padhiarka and Doliya Limestone mine. The Project Proponent has informed the EAC that the proposed method of mining is same in all three mines such as Gujarda, Dudheri & Dudhala Limestone Mine, Vangar & Madhiya Limestone Mine, and Padhiarka and Doliya Limestone mine. Arabian Sea Coast is located at a distance of 0.5 km, S from the HTL. The Project Proponent has also informed the EAC that the letter from the Government of Gujarat, Forest and Environment Dept. has been obtained vide letter dated 19.07.2023 stating that the proposed project of mining at Gujarda, Dudheri and Dudhala mine lease (681.62 ha), District Bhavnagar is outside CRZ area. There are 5 mine pits proposed in the mine lease area. The total mine lease area is 681.62 ha, out of which Govt. land is 115.6746 ha and Private land is 565.9454 ha. Project Affected Families will be 656 no.s. A budget of Rs 49.0 Lakhs has been earmarked to address the issues raised during public hearing. The geological conditions, method of mining, environmental sensitivity and implications, impact on socio economic are similar in all these three mines.

After detailed deliberations made by the Project Proponent and the Consultant, the EAC noted that the project is part of three contiguous projects namely Padhiarka and Doliya Limestone mine (332.24 ha), Vangar & Madhiya Limestone Mine (612.336 ha) and Gujarda, Dudheri & Dudhala Limestone Mine (681.62 ha) and together it extends over an area of 1626.196 ha. The mine lease area comprises of partly Private Agriculture land and partly Govt. land. Gujarda, Dudheri, Dudhala Villages are located at a distance of 0.2-0.5 km. NH-51 (Una-Mahuva highway) is passing within mine lease area. The EAC was not convinced with the proposed backfilling plan and the activities proposed under the Wildlife Conservation Plan. The EAC observed that the pits are isolated and the mine lease area is partly Private and Govt. land. The EAC also observed that there will be direct purchase or leasing of private land with the willing consent of the private land owners. The EAC was of the view that what if the land owners are not willing to give their land. There are likely chances that mining will not take place sequentially if the land acquisition does not happen. There will be failure of scientific mining. Large no. of Project Affected Families is involved in all these projects. The EAC opined that the Saltwater intrusion through surface or ground water sources may diminish the availability or quality of source waters for drinking water utilities. Some salt pans i.e., salt manufacturing industries and few wind mills exists in the study area. Old mine pits also existing within the mine lease area. The EAC noted that the Bhavnagar is categorized as a Severely Polluted Areas. The EAC reiterated the Ministry of Defence letter dated 08.05.2023 regarding security considerations for construction activities/other activities in Border areas/other areas wherein it has been mentioned that *"all activities connected with mining within 20kms from all the borders including seaboard frontier should be planned in consultation with Ministry of Defence"*. Accordingly, EAC opined that PP should obtain NOC from Ministry of Defence.

Thus the EAC opined that there is a need to ascertain the ground reality w.r.t natural low lying areas, water logging areas, old mine pits, sequence of mining, feasibility for backfilling, impact on socio economic, agriculture land, transportation route, traffic congestion, salt pans, effectiveness of salinity ingress control bund, proximity of habitations, schools, water bodies, roads etc., The EAC was of the view that a site visit needs to be conducted by a sub-committee comprising of EAC Members and officers from MoEF&CC. The EAC opined that the Ministry may constitute a sub-committee and submit its report to enable the committee to take a decision on the proposal. Therefore, the EAC **deferred** the proposal for want of following additional information: -

- i. The site visit report of the subcommittee.
- ii. Since the mine site is located within 20 km from seaboard frontier the Project Proponent shall submit No Objection Certificate from Ministry of Defence for consideration of the instant project.
- iii. The Project Proponent needs to submit the action for laying common Over Land Belt Conveyor (OLBC) for transportation of mineral from mine lease area to the Cement Plant. The Project Proponent also needs to submit the action plan for expansion of road with a width of 7m and by passing the village road till the commission of the Over Land Belt Conveyor (OLBC).
- iv. The Project Proponent needs to explore the possibility of laying overbridge over the Highway

and shall submit the permission from the National Highways Authority of India (NHAI).

- v. The Project Proponent needs to submit the protection measures to be taken for salt water intrusion and the effectiveness of the salinity ingress control bund.
- vi. The Project Proponent needs to submit the site specific mitigation measures for backwaters from Arabian Sea coming into the mine lease area.
- vii. The Project Proponent needs to revisit the plan for backfilling with clearly indicating the voids area and the capacity available/required for backfilling.
- viii. The Project Proponent needs to revise the activities proposed under the Wildlife Conservation Plan. The Project Proponent also needs to ensure that the Schedule-I species as per the latest Wildlife Protection Amendment Act, 2022 shall also be included in the Wildlife Conservation Plan for their conservation.
- ix. The EAC was of the view that the compensation rate is very less and asked the Project proponent to revisit and justify the budget proposed for Resettlement & Rehabilitation (R&R). The Project Proponent also needs to submit the action plan for land acquisition and timeline.
- x. The Project Proponent needs to submit the action plan for year wise exploration program.
- xi. The Project Proponent needs to submit the copy of the permission letter obtained from the State Govt. for utilization of Chemical Grade of Limestone for non-cement purposes.
- xii. The Project Proponent needs to submit a letter from the Department of Geology and Mining, Government of Gujarat clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s. Nirma Limited or not?

3.2.4. Deliberations by the EAC in current meetings

The EAC deliberated the instant proposal along with Vangar & Madhiya Limestone Mine and Padhiarka and Doliya Limestone mine. The Project Proponent presented its reply to the ADS points raised vide minutes of the 21st EAC as well as the recommendation of the sub-committee. After detailed deliberations, EAC **deferred** the proposal for the want of following information:-

- i. The Proponent shall submit No Objection Certificate from Ministry of Defence for consideration of the instant project.
- ii. PP needs to undertake a study to showcase the probable impact of mining on migratory bird species and their fly-way passage (Central Asian Flyway). Accordingly, PP shall submit the revised conservation plan for the migratory bird species.
- iii. The Project Proponent needs to undertake a study and submit the action for laying common Over Land Belt Conveyor (OLBC) for transportation of mineral from mine lease area to the proposed Cement Plant.
- iv. The project proponent needs to submit a letter from the Commissioner of Geology & Mining, Govt. of Gujarat, clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s Nirma Limited or not?
- v. PP submitted that National Highway is under construction, and they have submitted letter to National

Highway Authorities of India(NHAI) regarding grant of permission to provide Underpass near their proposed cement plant entry. Accordingly, PP needs to submit the permission letter for the underpass.

vi. The Project Proponent needs to carry out study by reputed institute to ascertain hardness of strata for deployment of surface miners for mining.

vii. The Project Proponent needs to submit time line for acquiring land from the villagers.

3.2.5. Recommendation of EAC

Deferred for ADS

3.3. Agenda Item No 3:

3.3.1. Details of the proposal

Padhiarka and Doliya Limestone Mine by Nirma Limited located at BHAVNAGAR,GUJARAT			
Proposal For		Fresh EC	
Proposal No	File No	Submission Date	Activity (Schedule Item)
IA/GJ/MIN/443206/2023	J-11015/154/2016-IA-II(NCM)	13/09/2023	Mining of minerals (1(a))

3.3.2. Project Salient Features

The proposal is for Environmental Clearance for Padhiarka and Doliya Limestone mine for mining of Limestone with production capacity of 1.5 MTPA in the mine lease area of 332.24 ha by M/s Nirma Limited located at Villages Padhiarka & Doliya, Tehsil Mahuva, District Bhavnagar, Gujarat.

2. The details of the project as ascertained from the document submitted by the Project Proponent and as revealed from the discussions held during the meeting are given as under:

- The mine lease area is located between Latitude 21°00'42.8152" N to 21°02' 9.7579" N and Longitude 71°40'10.0006"E to 71°41'9.9043"E. The mine lease area falls under the Survey of India Toposheet No: F42R12 and falls in Seismic Zone-III.
- The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.
- Details of Terms of Reference (ToR):

Date of application	Proposal No/ File No	Consideration by EAC	Details of ToR		Date of accord	
18.11.2022	IA/GJ/MIN/406830/2022	06.12.2022	Letter no. J-11015/153/2016-IA.II (M)		6 th February, 2023	
S.No.	Prospecting License/ Letter of Intent (LoI)/ Grant of Mine lease and Lr No	Date of the grant	Name of the Mineral & (Major/ Minor)	Period of Grant	Granted by	Mine lease area in Ha

1	MCR-102004-1943-CHH	15.02.2008	Limestone	30 years	IMD, Government of Gujarat	1497.4701
2	MCR-102004-1943-CHH	02.02.2011	Limestone	30 years	IMD, Government of Gujarat	1489.4701
3	MCR-102004-1943-CHH	08.01.2017	Limestone	50 years	IMD, Government of Gujarat	681.62
S. No	Details of grant of Mine Lease deed execution	Period of Grant		Name of the Mineral	Mine lease area in Ha	
		From	To			
1	MCR-102004-1943-CHH	11.01.2017	10.01.2067	Limestone	681.62	
Private land		565.9454				
Government land		115.6746				
Forest land		-				
Total Mining lease area (MLA), ha		681.62				
Private land for crusher, workshop & other infrastructure outside the MLA		No any facilities outside the ML area. However crusher will be installed at company's Cement Plant.				
Mining Plan including Progressive Mine Closure Plan (approved by Indian Bureau of Mines/DMG)		Letter No.	File No.: 684(4)(1)/MP-348(197)/2021-22 GNR/1121			
		Date	04.08.2021			
		Mineral & (Major/Minor)	Major			
		Mine Lease Area, Ha	681.62			
		Validity	31.03.2026			
Mining Parameters		Quantitative Description				
Method of Mining		Opencast mechanized				
Drilling/Blasting		Multi-row drilling and V-pattern drill holes for deep hole drilling and blasting. Slurry explosive -cap sensitive and non-cap sensitive.				

Geological Reserves	57.280 Million tonne
Mineable Reserves	20.574million tonne
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/ Waste, MTPA)	Top soil- 0.57 mi.cum OB/SB/IB/Mineral Rejects- Nil Waste-Nil
Life of mine	11 years (Life of mine may be increased subject to conversions of resources under 333 category into category of reserves 111)
Mine Bench Height & Bench Width	6.0 m, for working bench 12-15 m for closing (conceptual) bench Optimum
No. of Mine Benches	2
Existing Depth, m bgl	New mine
Ultimate Depth of Mining, m bgl	10 m
Ground Water Table, m bgl	15.5 m (Post monsoon)
Details of ground water intersection	No ground water will be encountered during planning stage i.e. in working plan in neither pre monsoon nor post monsoon season in any of the pits. Ground water will also not intersect during mining at the end of mine life.
Individual bench slope	80-85°
Overall pit slope	~ 45°
Details of existing/ proposed Crusher	Proposed crusher will be installed at Cement Plant.
Mineral Beneficiation	-
RoM output size	-
Transportation details including capacity of dumper/tipper, mode of transport and distance	Internal haul road from mine face to crusher and by conveyor from crusher to the Cement plant adjacent to the mine lease. For the Soda Ash Plant located at approx.100 km at Kalatalav, Bhavnagar limestone will be transported in dumpers/ trucks through National Highway 51. Internal haul road from mine face to crusher means of dumper/tippers of 25 tonnes capacity.
Generation of Topsoil/OB & its Management during plan period & conceptual period	Top soil at plan period- 249806 cu.m, temporary stacking at one location Top soil at conceptual period-321394 cu.m, simultaneous

	ously backfilling		
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	Nil		
Additional information(if any)	Surface miner as well as ripper/dozer & rock breaker will be used for mining to minimize drilling & blasting.		
Total water requirement	44 KLD	Fresh water	3 KLD
		Treated water	41 KLD
Source	i. Fresh water source Narmada water pipeline/Water tanker. ii. Water harvested within mine lease during rainy season. iii. Treated water source- Reject water of RO /DM plant & Reject water of RO /DM plant (proposed at Cement plant)		
Permission for withdrawal/ intersection along with details of grant and its validity	Permission for water withdrawal from Narmada water pipeline has been taken vide letter No. GWIL/Bhavnagar/Ind.conn./1257 dated 4.06.2008.		
Particulars	Particular's Name		Distance & Directions
Village	Gujarda, Dudheri, Dudhala Madhiya Padhira		0.2-0.5 km 0.5 km, NW 0.5 km, W
Town	Mahuva		4.0km, NE
Highway	NH-51 (Una-Mahuva highway)		Within
Interstate Boundary	Rajasthan		Approx.500 KM,N
Railway Station/Railway line	Amrutvel		2.0km, N
Water Bodies	Arabian Sea Coast		0.5 km, S from the HTL
	Samdiyala Salinity ingress control bund		4.5 km, WSW
	Malan Bandhara		1.5 km E
	Malan River		4.4 KM,E
	Bhambhali River		5.4 Km, W
	Garasawo River		0.9 KM,NE

Forest	RF near Patwa	2.8 KM,SW								
	RF near Doliya	7.4 KM,E								
	RF near Dudheri	0.6 KM,S								
	RF near Gujarda	0.3 KM,S								
	RF near Khared	2.1 KM,E								
Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks								
Forest Land within the mine lease area and (if yes) status of Forest Clearance	No	<p>The Project Proponent has submitted the letter from the Office of the Principal Chief Conservator of Forests vide Lr.No: WLP/32/C826-827/2021-22 dated 13.01.2022 regarding the map showing the location of protected areas within 10 km of the Limestone mining project and the distance of protected areas and proposed Limestone mine.</p> <table border="1"> <thead> <tr> <th>Protected areas</th> <th>Distance between Limestone mines and Protected areas</th> </tr> </thead> <tbody> <tr> <td>Gir National Park</td> <td>79.0 km</td> </tr> <tr> <td>Gir Wildlife Sanctuary</td> <td>47.6 km</td> </tr> <tr> <td>Mitiyala Wildlife Sanctuary</td> <td>46.7 km</td> </tr> </tbody> </table>	Protected areas	Distance between Limestone mines and Protected areas	Gir National Park	79.0 km	Gir Wildlife Sanctuary	47.6 km	Mitiyala Wildlife Sanctuary	46.7 km
Protected areas	Distance between Limestone mines and Protected areas									
Gir National Park	79.0 km									
Gir Wildlife Sanctuary	47.6 km									
Mitiyala Wildlife Sanctuary	46.7 km									
National Park	No									
Wildlife Sanctuary	No									
Elephant/Tiger Reserve	No									
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area (ESA)	No									
		<p>The Project Proponent has submitted the letter from the Office of the Deputy Chief Conservator of Forest, Bhavnagar vide letter no. A/GMN/T11/2075/22-23 dated 27.01.2023 certifying that the nearest turtle rearing/breeding site is located at a distance of about 70km away from the mines.</p>								
Coastal Regulation Zone (CRZ)	No	<p>The Project Proponent has submitted the letter from the Government of Gujarat, Forest and Environment Dept vide Lr no.ENV-10-2023-170-T dated 19.07.2023 stating that the proposed project of mining at Padhiarka & Doliya mine lease (333.24 ha), District Bhavnagar is outside CRZ area.</p>								

<p>Schedule-I species (No.s and name of schedule-I species with authenticated letter)</p>	<p>Yes</p>	<p>The Project Proponent has submitted the authenticated list of flora and fauna from the Office of the Deputy Forest Conservator vide Lr.No: A/Jaman/Te.11/2302/ 17-18 dated 05.02.2018 stating that there are three Schedule-I species such as Peafowl, Chinkara and Asiatic lion in the study area.</p> <p>After the amendment of the Wild Life (Protection) Amendment Act, 2022, No 18 of 2022, a number of additional species have been added into Schedule I such as Leopard, Striped hyaena, Jackal, Bengal fox, Indian porcupine, Jungle cat, Grey wolf, Dog faced water snake, Russell viper, Checkered Keelback, Indian Rat snake, Red sand boa and Naag/cobra.</p> <p>Peafowl, Chinkara and Asiatic lion & as per Wildlife Protection Amendment Act, 2022, schedule-I species have been updated in WLCP.</p>
<p>Wildlife Conservation Plan</p>	<p>Yes</p>	<p>On the basis of the fauna study findings & list of fauna authenticated by Forest Department, Wildlife Conservation Plan was prepared and submitted for approval. The said Wildlife Conservation Plan had been approved by the Forest Department on 20.12.2021. Rs. 19.9 lakh has been approved for the conservation of wildlife in the study area. As suggested by EAC & latest Wildlife Protection Amendment Act, 2022, budget allocation for WLCP has been increased from Rs. 19.9 Lakh to Rs. 65.9 Lakh for all 3 mines.</p> <p>The Wildlife Conservation Plan was approved by the Chief Wildlife Warden vide Lr.No: WLP/32/C670-672 dated 20.12.2021 with a budget of Rs. 19.9 Lakhs for the conservation of wildlife in the study area.</p>
<p>Proposed area for green belt/plantation and no. of saplings proposed</p>	<p>30.00 Ha.</p>	
<p>Budget for green plant & plantation till the end of life of mine.</p>	<p>90.95 Lakhs</p>	
<p>Budget for nursery</p>	<p>-</p>	

Details of existing plantation and its survival rate	-
No. of tree cuts in the mine lease area and compensatory afforestation	As per actual during mining
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	10.0
50 m safety zone of nallah, roads, electric lines	10.0
500 m safety zones of nearest habitation villages	-
Additional information (if any)	10.00 ha(Backfilled area (Govt. wasteland))
Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)	
Period of baseline data collection	01.03.2021 to 02.06.2021
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Summer
Predominant Wind direction (From)	South
Ambient Air Quality (no. of locations) and results	16
Noise level (no. of locations) and results	16
Water Quality (no. of locations) and results	15
Soil Quality (no. of locations) and results	12
Hydro geological study and results	As per planned mining and Report of hydrogeological & hydrological studies of core and buffer zone of Gujarda, Dudheri & Dudhala limestone mine, the ground water table may get intersected in post monsoon during 11th year at conceptual pit bottom level of +1.0 AMSL. However, conceptual pit bottom level will be kept above ground water level i.e. +4.0m AMSL to a void intersecting ground water level.
Traffic study (no. of locations) and results	The traffic volume survey was conducted on Bhavnagar to Una Road (NH8E/51) Near Vangar Village. Total numbers of vehicles were found as 6793 per day and equivalent PCUs is 9382 per day. There will be daily movement of 480 numbers of dumpers (to & fro) per day or 1440 PCU/ day

	on the road. 01 location & V/C = 31.27
Advertisement for PH with date (name of major national daily and one regional vernacular daily newspaper)	26.03.2023 in Sandesh Newspaper & Indian Express
Date of PH	28.04.2023
Venue	At the premises of Nirma Cement Plant Area, NH 8E/51, Survey No. 80, Village: Padhiyarka, Taluka: Mahuva, Dist. Bhavnagar
Chaired by	District Collector & District Magistrate, Bhavnagar District & Regional Officer, GPCB Bhavnagar
Main issues raised during PH	Air pollution, salinity ingress, wildlife protection, acquisition of agriculture land
Budget proposed for addressing issues raised during PH over 3 years	Rs. 77 Lakhs
Particulars	Details of Letter along with date of grant and validity
Consent to Establish	GPCB CTE granted vide dated 25/01/2021 & valid upto 24/01/2028.
Consent to Operate	-
Certified Compliance Report and Inspection date	-
Certified Production Details from the inception of the mine (in tabular form against the EC capacity)	Fresh mine
R & R details	The total mine lease area is 332.24 ha, out of which Govt. land is 133.0154 ha and Private land is 199.2246 ha. Land will be required for quarrying an area of 100.61 ha of Private land and Government land including 08 houses/hutment in Padhiarka village and 27 houses/hutment in Doliya villages. The houses/hutment fall in the conceptual pits of the mine lease. There will be total of 683 project affected land losers. There will be direct purchase or leasing of private land, with the willing consent of the private land owners. Approx. total compensation will be Rs 35.0 Lakhs. In addition to above, the registration cost of sale of the land and homesteads shall be borne by the Company. Assuming it to be 6% of the entire costs of sale, the total re

	settlement budget works out to be Rs. 59.93 lakhs (6% of land value).
Court Case, No and its present status	The Project Proponent has submitted an undertaking vide letter dated 07.10.2023 stating that there is no litigation on the project either at NGT or any other court of law related to environment and pollution matters in which the project proponent is a respondent.
Undertaking by Project Proponent w.r.t court case	
Affidavit as per Ministry's OM dated 30.05.2018	The Project Proponent has submitted an undertaking by way of notarized Affidavit dated 09.10.2023 stating that the proposal does not involve violation of Ministry's OM dated 30.05.2018.
Undertaking by Project Proponent in EIA/EMP report	The Project Proponent has submitted an undertaking vide letter dated 04.01.2023 stating that the contents (information and data) as given by the Consultant in the EIA/EMP report are factually correct with full knowledge of the undersigned (Shri Ashish Desai).
Undertaking by Consultant in EIA/EMP report	The Director of the EIA Consultant (M/s Centre for Envotech & Management Consultancy Pvt. Ltd) has informed that the baseline data was generated by MoEF & NABL Accredited Laboratory M/s Min Mec R&D Laboratory, a division of Min Mec Consultancy Pvt. Ltd., New Delhi and the same has been verified and also confirmed that he shall be fully accountable for any misleading information mentioned in this statement.
Plagiarism Certificate	

xvii. Earlier the Proposal was considered in the 21st EAC meeting held during 18-20th October, 2023 wherein the Committee has deferred the proposal for the submission of requisite information. The Project Proponent has submitted the relevant information on Parivesh are as follows:

S. No	Observation of EAC in the 21st meeting held during 18-20th October, 2023	Reply by Project Proponent
1.	The site visit report of the subcommittee.	Site visit has been conducted by subcommittee on 22nd - 25th December, 2023.
2.	Since the mine site is located within 20	Project Proponent has submitted a letter for issuance of NoC/Clearance from Ministry of Defence vide application dated 10.11.2023.

	<p>km from seaboard frontier, the Project Proponent shall submit No Objection Certificate from Ministry of Defense for consideration of the instant project.</p>	<p>We also have submitted letter to Department of Geology & Mining, Govt. of Gujarat, Bhavnagar for recommendation to issue NOC to Ministry of Defense, Govt. of India vide application dated 07.12.2023.</p> <p>As per our understanding, there is no clarity or guideline in respect of process to be followed to obtain NoC of Ministry of Defense (MoD), therefore, our humble request is that issue the EC without condition of obtaining NOC from MoD.</p>
<p>3.</p>	<p>The Project Proponent needs to submit the action for laying common Over Land Belt Conveyor (OLBC) for transportation of mineral from mine lease area to the Cement Plant. The Project Proponent also needs to submit the action plan for expansion of road with a width of 7m and by passing the village road till the commission of the Over Land Belt Conveyor (OLBC).</p>	<p>The mine is captive mine to proposed cement plant at Mahuva and Highgrade limestone to be used in company's own existing Soda Ash plant located at Katalav, Bhavnagar as per permission accorded by the Govt. of Gujarat vide letter dated: 17.08.2023.</p> <p>The cement plant is adjoining to the mine lease while the Soda ash plant is located around 100 km away and accessed through National Highway.</p> <p>Establishment of cement plant may take some time as the appeal is pending before Hon'ble Supreme Court while the soda ash plant is already operational.</p> <p>Hence, till the commencement of proposed cement plant, maximum 5% i.e. 450 TPD chemical grade limestone will be transported through dumpers @18 trips per day via existing village road of 7 m (out of which 4 m is black topped) to National Highway and ultimately Soda Ash plant at Bhavnagar.</p> <p>Company is very much keen to establish cement plant as early as possible & will produce & consume required limestone for cement manufacturing on its highest rated capacity.</p> <p>We assure your kind authority that we will widen the black top of the existing village road from mines to National Highway prior to commencement of Proposed Cement Plant. Section plan of proposed road black top widening has been submitted to the MoEF&CC.</p> <p>Also, as discussed during the EAC meeting, we will explore the possibility of Over Land Belt Conveyor (OLBC) on either side of the highway based on the technical possibility & feasibility by reputed consultant. We are going to approach M/s. Holtec Consultants for regulatory, commercial & technical feasibility for above stated OLBC.</p>
<p>4.</p>	<p>The Project Proponent needs to explore the possibility of laying over bridge over the Highway and shall submit the per</p>	<p>Since, the National Highway is under construction, we have submitted letter to National Highway Authorities of India (NHAI) regarding grant of permission to provide Underpass near our cement plant entry point or any other option suggested by NHAI for transportation of raw material & finished product. Acknowledgment dated 23.10.2023 has been submitted.</p>

	mission from the National Highways Authority of India (NHAI).	
5.	The Project Proponent needs to submit the protection measures to be taken for salt water intrusion and the effectiveness of the salinity ingress control bund.	<p>Samdhiyala Salinity Ingress Control bund (Samdhiyala bund) was constructed by Government of Gujarat in the year 2000 on Motpet Creek to prevent sea water from coming towards landward side. On the landward side, rain water gets accumulated as well.</p> <p>Presently, the accumulated rain water of Samdhiyala bund is being used during post monsoon by adjoining agriculture land owners and in other seasons they are extracting ground water through borewell. For agriculture land which is away from Samdhiyala bund, farmers are extracting ground water through borewell for agriculture due to which salinity & TDS are increasing in ground water.</p> <p>As per company's water management strategy, after commencement of cement plant, company will undertake deepening of 100 ha surrendered land out of our total allotted plant land and also pledged to construct garland drains around the proposed plant area which will improve the overall fresh water storage capacity of Samdhiyala bund on landward side. Regular desiltation of canal will improve water retention capacity of Samdhiyala bund.</p> <p>At the time of mining, bottom level of conceptual pit will be kept above ground water level to avoid intersection.</p> <p>Hydrogeological monitoring network will be established by constructing piezometers in and around the lease.</p> <p>During mining, present hydrological system will keep intact by constructing garland drain around the pits to maintain present hydraulic gradient towards the Samdhiyala Bund.</p> <p>After exhaustion of mineral, voids left will act as natural water harvesting structures. Collected rain water will stand and gradually percolate into the subsurface water & in long term improve the quality of ground water.</p> <p>Positive pressure of fresh water on landward side will be created, which will aid in pushing back the saline front, which may be at a lower elevation.</p> <p>In view of the above, due to mining there is no possibility of salt water intrusion in the area & effectiveness of the salinity ingress control bund as well as hydrogeological system of bund will not be disturbed & infact will significantly improve the effectiveness of salinity ingress control bund.</p>
6.	The Project Proponent needs to submit the site specific mitigation measures for backwaters fr	<p>In this regard, following site specific mitigation measures will be taken:</p> <p>Arabian Sea is situated at distance of more than 0.5 km in the south of the said mine lease and is clearly outside the CRZ area which is certified by GCZMA. Letter dated 19.07.2023 has been issued to M/s Nirma Ltd. from GCZMA.</p> <p>There was only one probability of sea water coming to mine lease area which is through Motpet Creek. Samdhiyala Salinity ingress bund has been construc</p>

	<p>om Arabian Sea coming into the mine lease area.</p>	<p>ted on Motpet Creek to restrict backwater coming from Arabian sea towards landward side. Therefore, there is no possibility of backwater from Arabian sea to come to mine lease area.</p> <p>Hydrogeological monitoring network will be established by constructing piezometers in and around the lease to monitor the water level & water salinity.</p> <p>Positive pressure of fresh water on landward site will be created due to water storage in mine pits, which will aid in pushing back the saline front as well.</p>
<p>7.</p>	<p>The Project Proponent needs to revisit the plan for backfilling with clearly indicating the voids area and the capacity available/required for backfilling.</p>	<p>The Indian Bureau of Mines, Govt. of India, Gandhinagar has approved the Mining Plan vide its letter dated: 05.08.2021 for the period of 5 years i.e. up to 2025-26.</p> <p>As per approved Mining Plan, Removal of soil and its disposal as below.</p> <p>Year: FY 2021-22 to FY 2025-26</p> <p>Removal of soil(cum):249806</p> <p>Means of disposal: *Temporary stacking at one location near Proposed Pit no. 1.</p> <p>Then, temporary stacked soil will be shifted for Backfilling of shallow pits of around 4.0 m depth (Proposed Pit No. 6) after five year mine plan period. A map has been submitted.</p> <p>Area covered under stacking (ha): 6.20</p> <p>Year: FY 2026-27 to FY 2031-32</p> <p>Removal of soil(cum):321894</p> <p>Means of disposal: *Temporary stacking at one location till 2026-27 and then, temporary stacked soil will be shifted for Backfilling.</p> <p>Simultaneously Utilized for Back filling of shallow pits of around 4.0 m depth Proposed Pit No. 6.</p> <p>Then, temporary stacked soil will be shifted for Backfilling of shallow pits of around 4.0 m depth (Proposed Pit No. 6) after five year mine plan period. A map has been submitted.</p> <p>Area covered under stacking (ha):Nil</p> <p>Total</p> <p>Removal of soil(cum): 571200</p> <p>Area covered under stacking (ha): nil</p> <p>Looking towards availability of topsoil, backfilling of part area is envisaged.</p> <p>Total voids area envisaged till conceptual period = 114.24 ha</p> <p>Total soil removal envisaged till conceptual period = 0.57 million cum (114.24 Ha *0.5 m avg. soil thickness)</p> <p>Total backfilling area envisaged till conceptual period = 15.66 ha</p>

Ultimate Dimensions of Pits at the end of conceptual period

Pit No.: 1

Pit Area covered (ha):49.56

Pit Top (m AMSL):20 to 14

Pit bottom (m AMSL): 10

Pit Depth in in m: 10 to 4

Pit Area covered by backfilling(ha): No backfilling proposal

Pit No.: 2

Pit Area covered (ha):12.78

Pit Top (m AMSL):13 to 11

Pit bottom (m AMSL): 8

Pit Depth in in m: 5 to 3

Pit Area covered by backfilling(ha): No backfilling proposal

Pit No.: 3

Pit Area covered (ha):14.40

Pit Top (m AMSL):13 to 11

Pit bottom (m AMSL): 6

Pit Depth in in m: 7 to 5

Pit Area covered by backfilling(ha): No backfilling proposal

Pit No.: 4

Pit Area covered (ha):17.51

Pit Top (m AMSL):17 to 12

Pit bottom (m AMSL):11

Pit Depth in in m: 6 to 1

Pit Area covered by backfilling(ha): No backfilling proposal

Pit No.: 5

Pit Area covered (ha):4.33

Pit Top (m AMSL):15 to 13

Pit bottom (m AMSL):6

Pit Depth in in m: 9 to 7

Pit Area covered by backfilling(ha): No backfilling proposal

Pit No.: 6

Pit Area covered (ha):15.66

		<p>Pit Top (m AMSL):10.5 to 4</p> <p>Pit bottom (m AMSL):4</p> <p>Pit Depth in in m: 6.5 to 0</p> <p>Pit Area covered by backfilling(ha): Backfilling of pit area of 15.66 Ha for en tire depth – 570000 cu.m</p> <p>Total</p> <p>Pit Area covered (ha): 114.24</p> <p>Pit Area covered by backfilling(ha): 15.66 Ha (570000cu.m)</p>
8.	<p>The Project Proponent needs to revise the activities proposed under the Wildlife Conservation Plan. The Project Proponent also needs to ensure that the Schedule-I species as per the latest Wildlife Protection Amendment Act, 2022 shall also be included in the Wildlife Conservation Plan for their conservation.</p>	<p>As advised, revised wildlife conservation plan incorporating the Schedule-I species as per the latest Wildlife Protection Amendment Act, 2022 has been submitted.</p>
9.	<p>The EAC was of the view that the compensation rate is very less and asked the Project proponent to revisit and justify the budget proposed for Resettlement & Rehabilitation (R&R). The</p>	<p>Type of land: Private</p> <p>Land rate, Rs. Lakh/ ha: 13.00 *</p> <p>Land requirement, ha: 100.22</p> <p>Total Amount Rs. lakhs: 1302.86</p> <p>Type of land:Government</p> <p>Land rate, Rs. Lakh/ ha: On mining lease</p> <p>Land requirement, ha: 14.02</p> <p>Total Amount Rs. lakhs: _</p> <p>Total</p>

Project PropONENT also needs to submit the action plan for land acquisition and timeline.

Land

requirement, ha: 114.24

Total Amount Rs. lakhs:1302.86

Total amount given considering as per DLC rate. However, land will be procured/get consent for mining purpose on mutual agreed market rates.

Total amount given considering as per DLC rate. However, land will be procured/get consent for mining purpose on mutual agreed market rates.

Type of homestead:Pucca

Rate, Rs. /sq.m.: 10000

Approx. Homestead area**, sq.m.:360

Total compensation, Rs. lakhs: 36

Type of homestead:Semi pucca

Rate, Rs. /sq.m.: 5000

Approx. Homestead area**, sq.m.:360

Total compensation, Rs. lakhs: 36

Type of homestead:Kutchha

Rate, Rs. /sq.m.: 2000

Approx. Homestead area**, sq.m.:360

Total compensation, Rs. lakhs: 36

Total

Approx. Homestead area**, sq.m.: 360

Total compensation, Rs. lakhs: 36

Company will consider homestead losers falling in proposed mine area on actual basis at the time of starting of mining activity and such homestead losers shall be compensated on mutually agreed commercial terms.

Since the land owners as well as homestead owners shall be compensated on commercial terms, therefore, they will have better economic strength to rehabilitate or reinvest the compensation amount. Hence, no separate R & R plan is envisaged.

Action plan for land acquisition and timeline is as below:

Sr. No: 1

Timeline for land requirement(present)

Sr. No.:1.1

Timeline for land requirement(present): purchased

Pvt. Land:49.49

Govt. land:0

Total: 49.49

Sr. No.:1.2

Timeline for land requirement(present): Consented

Pvt. Land:25.67

Govt. land:0

Total: 25.67

Sr. No.:1.3

Timeline for land requirement(present): Leased

Pvt. Land:0

Govt. land:115.67

Total: 115.67

Sr. No: 2

Timeline for land requirement(Future)

Sr. No.:2.1

Timeline for land requirement(present): 1st to 5th year mining

Pvt. Land: 54.21

Govt. land:0.02

Total: 54.23

Sr. No.:2.2

Timeline for land requirement(present):6th year to Conceptual stage -11th year

Pvt. Land: 102.70

Govt. land:14.04

Total: 116.74

Sr. No.:2.3

Timeline for land requirement(present):Minelife (up to lease period)

Pvt. Land: 565.94

Govt. land:115.67

Total: 681.62

Mining lease deed has already been executed for said mining lease so mining can be started in Govt. lease land. As far as private land is concerned, company has obtained surface rights for mining by purchasing land/consent in some of the land & for remaining land, company is in process to procure ownership or surface right for mining on mutually agreed commercial terms. We hereby assure that company will obtain surface rights of the land before entry in pvt. land for starting mining activity in the mining lease area.

10

The Project Proponent needs to submit the action plan for year wise exploration program.

The Indian Bureau of Mines, Govt. of India, Gandhinagar has approved the Mining Plan vide its letter dated: 05.08.2021 for the period of 5 years i.e. up to 2025-26.

Looking towards the systematic exploration of the entire area, 182 nos. of Core Bore Holes has been proposed in the area in order to bring the ML area within G1 stage in accordance with MEMC Rules 2015 and MCDR 2017 as per approved mining plan.

The deposit is sedimentary origin and simple in nature, therefore boreholes are kept at an interval of 200m grid pattern. A total of 182 number of Core Bore holes are proposed up to a level of +1.0 MRL. Initially BH drilling shall be at an interval of 400m. If limestone potentiality proves, then further BH can be done closely at 200m interval. All proposed BH shall be drilled vertically. The exploration shall be carried out in five years of working i.e. year 2021-22 to 2025-26. Exploration shall be carried out as shown in table to bring BH at 200m interval.

Program of Future Exploration

YEAR:2021-22 to 2025-26

No. of BH:

PBH-1,3,10,12,14,16,28, 31,33,35,54,56,58,75,77

Grid Interval:400 m

Total Meterage: Up to +1.0 MRL

YEAR:2021-22 to 2025-26

No. of BH:

PBH-37,41,43,61,66,79, 81,83,96,100,115,117,119,121,143,141,139,137,135, 133,167,165,163,169,171,173,179,181

Grid Interval:400 m

Total Meterage: _

YEAR:2021-22 to 2025-26

No. of BH:

PBH-2,4,5,6,7,8,9,11,13, 15,17,24,25,26

Grid Interval:200 m

Total Meterage: _

YEAR:2021-22 to 2025-26

No. of BH:

PBH-18,19,20,21,22,23, 27,29,30,32,34,36,38,39,40,42,44-55,57,59,60,62-65,67,71-74,76,93,94

Grid Interval:200 m

Total Meterage: _

		<p>YEAR:2021-22 to 2025-26</p> <p>No. of BH:</p> <p>PBH-68-70,82,84,78,80, 85-92,95,97-99,101-116, 118,120,122,123,124-127</p> <p>Grid Interval:200 m</p> <p>Total Meterage: _</p> <p>YEAR:2021-22 to 2025-26</p> <p>No. of BH:</p> <p>PBH-128-132,134,136,138, 140,142,144,162,164,166,168,170,172,174-178,180,182</p> <p>Grid Interval:200m or below</p> <p>Total Meterage: _</p> <p>YEAR:2021-22 to 2025-26</p> <p>No. of BH:</p> <p>EP-1 & EP-2 size 3m*3m</p> <p>Grid Interval:_</p> <p>Total Meterage: up to level +1.0mRL</p> <p>The exploration shall be started as soon as mining work is started on grant of EC and try to accomplish within shorter period if conditions are favorable.</p> <p>The location of Proposed BH is depicted in Surface Geological plan of the approved mine plan and given in EIA report in figure no. C 2-2 in Chapter 2.</p>
11	<p>The Project Proponent needs to submit the copy of the permission letter obtained from the State Govt. for utilization of Chemical Grade of Limestone for non-cement purposes.</p>	<p>Permission accorded by the Govt. of Gujarat vide order dated: 17.08.2023 for utilization of Chemical Grade of Limestone for non-cement purposes has been submitted.</p>
12	<p>The Project Proponent needs to submit a letter from the Department of Geology</p>	<p>The company has not carried out any mining within the lease area much less any illegal mining in the lease area. There are old pits pre-dating the allotment of the lease to the company, which were received in legacy and shown in the present surface geological plan. Request letter in this regard has been submitted to Department of Geology and Mining, Government of Gujarat on 03.11.2023. Acknowledgement of the same has been submitted by the Project Propon</p>

	<p>and Mining, Government of Gujarat clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s. Nirma Limited or not?</p>	<p>ent.</p>
<p>Site Visit Recommendation Reply by project proponent</p>		
<p>1</p>	<p>PP should submit an action plan and timeline to indicate the purchase of lands across all three mining leases wherein it has proposed mining pits to initiate mining activities since as on date PP has only purchased / obtained surface rights over 101.1967 Ha out of 1351.6489 of Private Agriculture Land.</p>	<p>Action plan and Timeline indicating the purchase /obtain surface rights of land for mining for all three mining leases to initiate mining activities has been submitted by the Project Proponent.</p>
<p>2</p>	<p>Since PP envisages to hand over the land with shallow quarry having depth upto 4m to landow</p>	<p>In said mine, survey has been conducted & one pit i.e. Pit No. 6 (Pit area -15.66 Ha) will have shallow depth pit and will be backfilled for entire depth of pits, looking to availability of soil for backfilling</p> <ul style="list-style-type: none"> • Pit no. 6 -15.66 Ha Pit area of avg. 3.25 m bgl for entire depth. <p>Action plan for backfilling of shallow depth pits of depth up to 4.0 m and handing over to farmers for agriculture has been submitted by the Project Proponent</p>

	<p>ners for farming and mostly all three mining leases are having agricultural land.</p> <p>PP is requested to conduct a survey to indicate the present status and number of low-lying areas, their respective which may be backfilled with available capacity of top soil/overburden and can be handed over to farmers for agricultural purpose.</p>	ent.
3	<p>Project PropONENT needs to provide year wise exploration plan for all the three mining leases.</p>	<p>Exploration plan of said mining lease has been submitted by the Project PropONENT.</p>
4	<p>Since, Bhavnagar falls under severely Polluted Area category, PP shall ensure that during initiation phase itself they should include the provision of permanent water sprinklers across the haul roads in all three mini</p>	<p>Chitra Industrial area (severely polluted area) in Bhavnagar city is located around 100 km away from our said mining lease area.</p> <p>On initial stage, company will engage water tanker with sprinkler arrangement to suppress the dust on haul road and company will make provision of permanent water sprinklers across the haul roads in all three mining leases.</p>

	ng leases.	
5.	Since, Bellur and other schools are in close proximity to mine lease area, PP shall ensure that necessary safety measures are taken as per DGMS norms for all three mining leases.	Company will ensure to maintain require safety measures & distance from Bellur School & other schools as per DGMS norms for all three mining leases during mining.
6.	PP shall ensure to construct bunds near the existing low lying areas that has developed into wetland to prevent the ingress of sea water in Padhiyarka and Doliya Limestone Mine lease area and Gujarada, Dudheri & Dudhala limestone mine lease area.	<p>The low lying area is where the rain water accumulates temporarily during monsoon. These are not notified as wetlands either under Ramsar Convention or by Central Govt. or State Govt. Hence, the identifications and provisions under Wetlands (conservation and Management) Rules, 2017 do not apply in this case as per clause 3 of aforesaid Rules.</p> <p>Moreover, Padhiyarka and Doliya Limestone Mine lease area and Gujarada, Dudheri & Dudhala limestone mine lease area are located at a distance of more than 500 m from High Tide Line of sea & also this area (between sea and low lying area in our mining lease area) have higher altitude, therefore, there is no chance of sea water ingress in mining lease area.</p> <p>However, company will construct bunds as and when required.</p>
7.	The project Proponent needs to submit the integrated management plan describing the strategies and actions for achieving wise use of the wetland and the plans shall include o	<p>There is no Ramsar convention/ Central or State Government notified wetland in and nearby our mining lease area. The water bodies such as river channels and human-made water bodies (such as submergence areas of Samdhiyala Bandahara, Malan Bandhara) are excluded from the definition of wetlands as per Wetlands (Conservation and Management) Rules, 2017.</p> <p>There are low lying areas, in which rain water accumulates temporarily during monsoon. Mining activity will contribute towards enlarging & deepening such areas in pit no. 2 & 3 of Padhiaryka & Doliya Mine and pit no. 5 & 6 of Gujarda, Dudheri & Dudhala making a positive contribution to fresh water storage. The company does not intend to have any other use for these low lying areas.</p> <p>As part of the integrated management plan for protection of water logged area</p>

	<p>bjectives of the site management, management actions required to achieve the objectives, factors that affect, or may affect, the various site features, monitoring requirements for detecting changes in ecological character and for measuring the effectiveness of management, and resources for management implementation.</p>	<p>s in and around the project, following steps shall be undertaken:</p> <ul style="list-style-type: none"> 1 Company will not do mining below 2 m AMSL in this low lying area so that there is no salinity ingress due to mining activity. 1 Piezometer will be installed at designated locations to monitor changes in ground water level. 1 Other allied activities such as transportation will be carried out by maintaining safety distance from this low lying area 1 In this area of Gujarat, water logging due to rain water is a common phenomenon and resident water birds take advantage of such seasonal water logging to feed. Hence, company has proposed several measures as part of the wildlife conservation plan, with 3-year budget, as follows: <ul style="list-style-type: none"> 1 Supporting 3 local NGOs for Conservation Awareness activities (Rs. 18 lakhs) 1 Provision for Rapid Rescue Vehicle for Wildlife (Rs. 10 lakhs) 1 Assisting Plantation activities to be carried out by Forest Department, Bhavnagar (Rs. 1.5 lakhs) 1 Nature/Eco-tourism guide & hospitality training 20 persons (Rs. 2.5 lakhs) 1 Provision of equipments, camera, binoculars for efficient monitoring and eco-tourism promotion (Rs. 7.5 lakhs) 1 Maintenance of shallow ponds/rainwater harvesting structures (Rs. 3 lakhs) 1 Van Sahayak 1 nos. on contract basis (Rs. 3.6 lakhs) 1 Public education and awareness programmes for the following - Avoiding plastic, Recycle and reuse, Reduce usage of pesticide and weedicide, Conservation of Wildlife, Garbage control (Rs. 3 lakhs) Six-monthly third-party WLCP monitoring report preparation (Rs. 1.25 lakhs)
<p>8.</p>	<p>PP needs to engage and impart skill among the villagers and local population mainly the land losers and also submit a plan for their alternate livelihood arrangement since most of them will be losing their fertile lands.</p>	<p>Company will not acquire any agriculture land through land acquisition by Govt. or without willingness of land owner and will purchase / obtain surface rights for mining on market commercial negotiated rates.</p> <p>Land owners may purchase agriculture land in nearby area in the amount which is to be paid to them against their land and can continue their livelihood.</p> <p>Company will give priority to engage land owners who have given land for mining purposes as per requirement of manpower for mines.</p> <p>Also, company will arrange to impart training to build capacity for self-employment [stitching, embroidery, tailoring, pickles, dairy improvement, poultry farming, etc.] to land losers and will facilitate vocational training along with skill development for getting better job opportunities (Budget Rs. 3 lakhs/year).</p>

9.	PP should widen the existing village roads before using it for transportation in all three mining leases, wherever widening is not possible, PP shall submit an action plan for making alternate roads.	<p>On initial stage, company has proposed to mine out limestone for Soda ash plant in lower capacity and company will use existing village road for transportation of limestone by maintaining the existing village road as number of trips of truck / dumpers will be very less i.e. around 18 numbers of trips/day maximum in this mine.</p> <p>Company will widen the existing village road or make alternate road in all three mining leases on installation of cement plant. Section plan of the road widening has been submitted by the Project Proponent.</p>
10	PP should engage wildlife experts/ avian experts for conservation of the avian fauna within and near its mine lease.	Company has already engaged wildlife expert / avian expert for conservation of the avian fauna within and near its mine lease.
11	PP shall plant native fruit bearing plants across all the proposed green patches.	Native fruit bearing plants will be planted across all the proposed green patches.
12	PP shall put boundary pillars across all mining leases.	Company had erected boundary pillars at the time of lease deed execution and got authentication of all boundary pillars co-ordinates through the DILR / State Govt. and provided in the approved mining plan for all three mining leases. Some pillars have been dislodged/ removed by local people. Company will put such boundary pillars again prior to commencement of mine so that they can be maintained.
13	The project proponent needs to submit a letter from the Department of Geology & Mining, Govt. of Gujarat, clarifying whether any i	The company has not carried out any illegal mining in the lease area and request letter to provide required certificate regarding no mining carried out by company or others has been submitted to the District Geologist, Department of Geology and Mining, Government of Gujarat, Bhavnagar vide letter dated: 01.11.2023. In turn, the District Geologist, Bhavnagar has submitted his report to the Commissioner of Geology & Mining, Govt. of Gujarat, Gandhinagar vide its letter dated: 01.02.2024 to communicate the same to MoEF and copy endorsed to us. As per his report, No case of Illegal mining of limestone mineral has been registered within the mining lease area against the company M/s Nirma Limited or against any other individual or entity.

	<p>Illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s Nirma Limited or not?</p>	<p>Copy of our submitted letter dated: 01.11.2023 and copy of report of the District, Geologist, Geology & Mining Dep't, Bhavnagar dated 01.02.2024 has been submitted by the Project Proponent.</p>
14	<p>PP needs to submit plan to transport crushed limestone from all the three leases to plant.</p>	<p>The mine is captive mine to proposed cement plant at Padhiarka, Mahuva and High grade limestone to be used in company's own existing Soda Ash plant located as Kalatalav, Bhavnagar.</p> <p>The cement plant is adjoining to the mine lease while the Soda ash plant is located around 100 km away and accessed through National Highway.</p> <p>Establishment of cement plant may take some time while the soda ash plant is already operational.</p> <p>Hence, till the commencement of proposed cement plant, maximum 5% i.e. 450 TPD limestone will be transported to Soda ash plant located near Bhavnagar through dumpers @18 trips per day. The trucks will pass through existing Dudhala - Amrutvel village road of 7 m width (out of which 4 m is black topped) for around 1.0 km and meet National Highway no. 51, from where the truck will move around 100 km.</p>
15	<p>PP needs to take some measures to keep the migration bird ponds unharmed and protected by activity of mining in future.</p>	<p>Migratory birds are seen in Malan Bandhara as well as other nearby Bandhara areas, which areas located at distance of 1.5 km and 4.5 km from our mining lease area, respectively.</p> <p>Birds are also seen in low lying area, in which rain water accumulates temporarily during monsoon. However, they are pre-dominantly resident water birds.</p> <p>The company is committed to the measures proposed in the site specific wildlife conservation plan (summarised in point 7 earlier), which include points related to protection of shallow ponds, ecology and birds.</p> <p>The company will mine above 2m AMSL in low lying areas to maintain the fresh water nature of the water in it. The enlarging of the low lying area in pit no. 2 & 3 of Padhiaryka & Doliya Mine and pit no. 5 & 6 of Gujarda, Dudheri & Dudhala will provide more area to birds. Also company will ensure that transportation will be carried out by maintaining safety distance from low lying areas.</p>
16	<p>PP needs to install water treatment plant to reduce the hardness of water.</p>	<p>Drinking water is provided in every nearby villages through Narmada water pipeline by the State Govt. and drinking water requirements for mines shall also be fulfilled through Narmada water pipe line which is passing through nearby area. Hence, presently there is no proposal to use the hard ground water. However, if any requirement sought in future we will provide treatment plant.</p>

17	PP needs to explore possibility of deploying surface miners for mining.	<p>Company has proposed mining with surface miner (50% quantity) in IBM approved mine plan and also in EIA report. Company explored use of Ripper dozer for cement plant use to eliminate drilling & blasting in the remaining 50% and committed the same in point no. 3, Specific Terms of Reference received from MOEF&CC vide Letter no. J-11015/154/2016-IA. II(M) dated November 28, 2022.</p> <p>For soda ash plant, we need sized limestone i.e. 25 mm to 100 mm, so surface miner cannot be deployed for limestone mining for Soda ash plant use. However, company will deploy rock breaker to avoid blasting during mining.</p>	
Activities		Capital cost (Crores)	Recurring cost (Lakhs/annum)
Pollution Control		0.291	10.12
Pollution monitoring		0.016	3.88
Occupational health		0.014	0.95
Environmental Studies, etc.		0.10	–
Green belt		–	5.10
Reclamation		–	10.03
Others (Environmental studies, Rehabilitation, Realignment, Expert advice, fencing etc.		–	5.48
Overheads		–	0.32
Total		0.421	35.87
Particulars		(Rs. In Crore)	
Total cost of EMP (Capital Cost of EMP + capital cost of Public hearing)		1.19	
Project Cost		25	
Employment (No.s)		84	

3.3.3. Deliberations by the committee in previous meetings

Date of EAC 1 :19/10/2023

Deliberations of EAC 1 :

The Project Proponent/Consultant presented the KML file to indicate the site features in the study area of 10 km radius. The Project Proponent has shown the boundary of the mine lease area and informed the EAC that the NH-51 (Una-Mahuva highway) is located at a distance of 0.7 km, N from the mine lease area. Madhiya Village is located at a distance of 0.5 km, N. Arabian Sea Coast is located at a distance of 0.5 km, S from the HTL and Bhambhali River is located at a distance of 3.6 km, W. A man made reservoir is located within 5km radius of the mine lease area on the eastern direction. Samdiyala Salinity ingress control bund is situated on the western side on the mine lease area. Part of the Doliya Village is located within the mine lease area on southern side. No mining activity is proposed in the side of the Doliya Village. Nearest distance of the village from the mine pit is 700m.

The EAC noted that Arabian Sea and there are few water bodies are present in the vicinity of the mine lease area and asked the Project Proponent whether there are any backwaters from Arabian Sea coming into the mine lease area or not. The Project Proponent has informed the EAC that the water within the mine lease area is due to accumulation of rain water that was accumulated during the rainy season and tends to remain during January - February. Water gets dried during summer season. The Project Proponent also shown the historical images of rainwater accumulation for different months over the past years. The mine pit elevation is 4-6m above MSL. Depth of mining proposed is 11 m. Water gets accumulated in the natural low lying areas. The EAC asked about the thickness of the over burden. The Project Proponent has informed the EAC that the average thickness of the over burden is varying between 1-1.5m. The EAC asked the Project Proponent that whether the enough material will be available for backfilling up to a depth of 11m. The Project Proponent has informed the EAC that the entire 11m will not be backfilled and only part of the area will be backfilled. The shallow pit of depth<4m will be backfilled i.e., Pit -2, 3 and 4. Backfilling is proposed after 2026-27/ 2027-28. Backfilled area shall be utilized for agriculture in case of private land and for plantation purpose in case of government land. Existing minerals were assessed through exploration carried out by CGM, GoG. Old mine pits are also existing within the mine lease area. The EAC asked the Project Proponent to submit the action plan for year wise exploration program.

The EAC asked to brief about the mode of transportation. The mined out material will be transported to the crusher proposed in the cement plant by internal haul road by means of dumper/tippers of 25 tonnes capacity and then from crusher to the Cement plant (adjacent to the mine lease) by conveyor. Village roads will be used for transporting the mined out material from different pits. The EAC asked about the width of the transportation road. The Project Proponent has informed the EAC that the existing width of the road is 4m which will be not adequate to transport the material. Hence, the lands adjacent to this road will be purchased and the width of the road will be increased to 6m. The dividers will be made in between transportation road. The Cement Plant is yet to be constructed and these lands will be purchased for expansion of road only at the time of construction of the cement plant. The EAC asked the Project Proponent till then how the mined out Limestone will be utilized. The Project Proponent has informed the EAC that there are two grades of Limestone such as Chemical Grade Limestone and Cement Grade Limestone available in this project. For utilization of Chemical Grade of Limestone for non-cement purposes, permission has been obtained from the State Govt. The company is having its Soda Ash manufacturing plant located at Bhavnagar at a distance of 100 km from the mine lease area. This manufacturing plant requires Chemical Grade Limestone. Hence, the Chemical Grade of Limestone from this instant mine will be transported to the Soda Ash manufacturing plant located at Bhavnagar through National Highway 51. The EAC asked the Project Proponent to increase the width of the road to 7m. The EAC asked the Project Proponent that when will the Cement Plant will be commissioned. The Project Proponent has informed the EAC that matter regarding Cement Plant is pending before the Hon'ble Supreme Court.

The EAC asked the Project Proponent to show the KML file of other two adjacent mine leases by overlapping with the KML file of the instant project. The Project Proponent has informed the EAC that the Vangar & Madhiya Limestone Mine is proposed on the northern side and Gujarda, Dudheri & Dudhala Limestone Mine is proposed on the eastern side of the mine lease area to this instant mine lease

belonging to M/s Nirma Ltd. The Project Proponent also shown the proposed mine pits in Vangar & Madhiya Limestone Mine and Gujarda, Dudheri & Dudhala Limestone Mine. A Cement Plant is proposed on the western side of the mine lease area. Internal haul roads passing through the mine lease area will be used for transportation. The EAC asked the Project Proponent to bypass the village road for transporting the material. The EAC also asked the Project Proponent that whether any school is present within the mine lease area or not. The Project Proponent has informed the EAC that a primary school is located in the village Vangar. A safety distance of 50m will be maintained. Greenbelt will be developed all along the school. No drilling and blasting will be practiced. Only Surface miner as well as ripper/dozer & rock breaker will be used. The EAC opined that there should be no activity of drilling and blasting near school premise.

The Project Proponent has informed the EAC that the Life of the mine will be 11 years and may increase subject to exploration. Marly Limestone occurs in mine lease area. The limestone is of the high / cement grade quality and is followed by Marly Limestone/ Marl. The Limestone production will be restricted till the commission of the Cement plant. The EAC asked the Project Proponent that how the Limestone will be sized and will be sent to the Soda Ash Plant. The Project Proponent has informed the EAC that by using the rock breaker the limestone will be sized and sent to the Soda Ash Plant. The EAC was of the view that the activities proposed under the Wildlife Conservation Plan is generalized and the Project Proponent needs to revise the activities of the Wildlife Conservation Plan which should be site specific. The EAC also asked the Project Proponent to ensure that the Schedule-I species as per the latest Wildlife Protection Amendment Act, 2022 shall also be included in the Wildlife Conservation Plan for their conservation. Turtle breeding centre is located about 70km from the mine lease area. The total mine lease area is 332.24 ha, out of which Govt. land is 133.0154 ha and Private land is 199.2246 ha. Land will be required for quarrying an area of 100.61 ha of Private land and Government land including 08 houses/hutment in Padhiarka village and 27 houses/hutment in Doliya villages. The houses/hutment fall in the conceptual pits of the mine lease. There will be total of 683 project affected families. There will be direct purchase or leasing of private land, with the willing consent of the private land owners. Approx. total compensation will be Rs 35.0 Lakhs. The EAC was of the view that the compensation rate is very less and asked the Project proponent to revisit and justify the budget proposed for R&R. Budget proposed for addressing issues raised during public hearing is Rs 77.0 Lakhs over 3 years and the cumulative budget will be Rs 160 Lakhs by comprising all three mines.

After detailed deliberations made by the Project Proponent and the Consultant, the EAC noted that the project is part of three contiguous projects namely Padhiarka and Doliya Limestone mine (332.24 ha), Vangar & Madhiya Limestone Mine (612.336 ha) and Gujarda, Dudheri & Dudhala Limestone Mine (681.62 ha) and together it extends over an area of 1626.196 ha. The mine lease area comprises of partly Private Agriculture land and partly Govt. land. Part of the Doliya Village is located within the mine lease area on southern side. Also villages are located close to the proximity of the mine lease area. The EAC was not convinced with the proposed backfilling plan and the activities proposed under the Wildlife Conservation Plan. The EAC observed that the pits are isolated and the mine lease area is partly Private and Govt. land. The EAC also observed that there will be direct purchase or leasing of private land with the willing consent of the private land owners. The EAC was of the view that what if the land owners are not willing to give their land. There are likely chances that mining will not take place sequentially if the land acquisition does not happen. There will be failure of scientific mining. Large no. of Project Affected Families is involved in all these projects. The EAC opined that the Saltwater intrusion through surface or ground water sources may diminish the availability or quality of source waters for drinking water utilities. Some salt pans i.e., salt manufacturing industries and few wind mills exists in the study area. Old mine pits are also existing within the mine lease area. The EAC noted that the Bhavnagar is categorized as a Severely Polluted Areas. The EAC reiterated the Ministry of Defence letter dated 08.05.2023 regarding security considerations for construction activities/other activities in Border areas/other areas wherein it has been mentioned that “*all activities connected with mining within 20kms from all the borders including seaboard frontier should be planned in consultation with Ministry of Defence*”. Accordingly, EAC opined that PP should obtain NOC from Ministry of Defence.

Thus the EAC opined that there is a need to ascertain the ground reality w.r.t natural low lying areas, water logging areas, old mine pits, sequence of mining, feasibility for backfilling, impact on socio economic, agriculture land, transportation route, traffic congestion, salt pans, effectiveness of salinity ingress control bund, proximity of habitations, schools, water bodies, roads etc., The EAC was of the view that a site visit needs to be conducted by a sub-committee comprising of EAC Members and officers from MoEF&CC. The EAC opined that the Ministry may constitute a sub-committee and submit its report to enable the committee to take a decision on the proposal. Therefore, the EAC **deferred** the proposal for want of following additional information: -

- i. The site visit report of the subcommittee.
- ii. Since the mine site is located within 20 km from seaboard frontier, Project Proponent shall submit No Objection Certificate from Ministry of Defence for consideration of the instant project.
- iii. The Project Proponent needs to submit the action for laying common Over Land Belt Conveyor (OLBC) for transportation of mineral from mine lease area to the Cement Plant. The Project Proponent also needs to submit the action plan for expansion of road with a width of 7m and by passing the village road till the commission of the Over Land Belt Conveyor (OLBC).
- iv. The Project Proponent needs to submit the protection measures to be taken for salt water intrusion and the effectiveness of the salinity ingress control bund.
- v. The Project Proponent needs to submit the site specific mitigation measures for backwaters from Arabian Sea coming into the mine lease area.
- vi. The Project Proponent needs to revisit the plan for backfilling with clearly indicating the voids area and the capacity available/required for backfilling.
- vii. The Project Proponent needs to revise the activities proposed under the Wildlife Conservation Plan. The Project Proponent also needs to ensure that the Schedule-I species as per the latest Wildlife Protection Amendment Act, 2022 shall also be included in the Wildlife Conservation Plan for their conservation.
- viii. The EAC was of the view that the compensation rate is very less and asked the Project proponent to revisit and justify the budget proposed for Resettlement & Rehabilitation (R&R). The Project Proponent also needs to submit the action plan for land acquisition and timeline.
- ix. The Project Proponent needs to submit the action plan for year wise exploration program.
- x. The Project Proponent needs to submit the copy of the permission letter obtained from the State Govt. for utilization of Chemical Grade of Limestone for non-cement purposes.
- xi. The Project Proponent needs to submit a letter from the Department of Geology and Mining, Government of Gujarat clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s. Nirma Limited or not?

3.3.4. Deliberations by the EAC in current meetings

The EAC deliberated the instant proposal along with Vangar & Madhiya Limestone Mine and Gujarda, Dudheri & Dudhala Limestone Mine. The Project Proponent presented its reply to the ADS points raised vide minutes of the 21stEAC as well as the recommendation of the sub-committee. After

detailed deliberations , EAC **deferred** the proposal for the want of following information:-I. The Proponent shall submit No Objection Certificate from Ministry of Defence for consideration of the instant project.

II. PP needs to undertake a study to showcase the probable impact of mining on migratory bird species and their fly-way passage (Central Asian Flyway). Accordingly, PP shall submit the revised conservation plan for the migratory bird species.

III. The Project Proponent needs to undertake a study and submit the action for laying common Over Land Belt Conveyor(OLBC) for transportation of mineral from mine lease area to the proposed Cement Plant.

IV. The project proponent needs to submit a letter from the Commissioner of Geology & Mining, Govt. of Gujarat, clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s Nirma Limited or not?

V. PP submitted that National Highway is under construction, and they have submitted letter to National Highway Authorities of India(NHAI) regarding grant of permission to provide Underpass near their proposed cement plant entry. Accordingly, PP needs to submit the permission letter for the underpass.

VI. The Project Proponent needs to carry out study by reputed institute to ascertain hardness of strata for deployment of surface miners for mining.

VII. The Project Proponent needs to submit time line for acquiring land from the villegers.

3.3.5. Recommendation of EAC

Deferred for ADS

3.4. Agenda Item No 4:

3.4.1. Details of the proposal

Vangar & Madhiya Limestone Mine by Nirma Limited located at BHAVNAGAR,GUJARAT			
Proposal For		Fresh EC	
Proposal No	File No	Submission Date	Activity (Schedule Item)
IA/GJ/MIN/443498/2023	J-11015/152/2016-IA-II(NCM)	13/09/2023	Mining of minerals (1(a))

3.4.2. Project Salient Features

The proposal is for Environmental Clearance for mining of Limestone in Vangar & Madhiya Limestone Mine of M/s Limited for mining of Limestone with production capacity of 1.6 MTPA in the mine lease area of 612.1336 ha, located at Villages Vangar &Madhiya, Tehsil Mahuva, District Bhavnagar (Gujarat).

2. The details of the project as ascertained from the document submitted by the Project Proponent and revealed from the discussions held during the meeting are given as under:

i. The mine lease area is located between Latitude 21°01'44.54" to 21° 03' 40.04" N and Longitude 71°39'18.3"E to 71°41'05"E. The mine lease area falls under the Survey of India Toposheet No:

41 O/12 (restricted) and falls in Seismic Zone-III.

ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.

iii. Details of Terms of Reference (ToR):

Date of application	Proposal No/ File No	Consideration by EAC	Details of ToR	Date of accord
18.11.2022	IA/GJ/MIN/40 3568/2022	06.12.2022	Letter no. J-11015/152/2016-I A.II (M)	23 rd December, 2022

iv. Details of Mine Lease in chronological manner:

S.no	Prospecting License/ Letter of Intent (LoI)/ Grant of Mine lease and Lr No	Date of the grant	Name of the Mineral & (Major/ Minor)	Period of Grant	Granted by	Mine lease area in Ha
1	MCR-102004-1 827-CHH	15.02.2008	Limestone	30 years	IMD, Government of Gujarat	1225.8553
2	MCR-102004-1 827-CHH	08.01.2017	Limestone	50 years	IMD, Government of Gujarat	612.1336

S. No	Details of grant of Mine Lease deed execution	Period of Grant		Name of the Mineral	Mine lease area in Ha
		From	To		
1	MCR-102004-1827-CHH	11.01.2017	10.01.2067	Limestone	612.1336

v. Land Use/Land Cover of the Mine Lease Area:

Private land	586.4789
Government land	25.6547
Forest land	-
Total Mining lease area (MLA), ha	612.1336
Private land for crusher, workshop & other infrastructure outside the MLA	No any facilities outside the ML area. However crusher will be installed at company's Cement Plant.
Additional information (if any)	

vi. Mining plan details:

Mining Plan including Progressive Mine Closure Plan (approved)	Letter No.	File No.: 684(4)(1)/MP-347(196)/2021-22 GNR/1125
	Date	05.08.2021

ed by Indian Bureau of Mines/DMG)	Mineral & (Major/Minor)	Major
	Mine Lease Area, Ha	612.1336
	Validity	31.03.2026
Mining Parameters	Quantitative Description	
Method of Mining	Opencast mechanized	
Drilling/Blasting	Multi-row drilling and V-pattern drill holes for deep hole drilling and blasting. Slurry explosive- cap sensitive and non-cap sensitive.	
Geological Reserves	35.539 Million tonne	
Mineable Reserves	14.913 million tonnes	
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/ Waste, MTPA)	Top soil- 0.99 million cum OB/SB/IB/Mineral Rejects- Nil Waste- Nil	
Life of mine	13 years (Life of mine may be increased subject to conversions of resources under 333 category into category of reserves 111)	
Mine Bench Height & Bench Width	6.0 m, for working bench 12-15 m for closing (conceptual) bench Optimum	
No. of Mine Benches	2	
Existing Depth, m bgl	New mine	
Ultimate Depth of Mining, m bgl	10 m	
Ground Water Table, m bgl	15 m (Post monsoon)	
Details of ground water interse	No ground water will be encountered during planning stage i.e. in 5 years of working plan in neither pre monsoon nor post monsoon season in any of the pits. Grou	

ction	nd water will also not intersect during mining at the end of mine life. However, the ground water table may get touched in post monsoon in pit no. 4 & 5 when the proposed conceptual pit bottom level of +1.0 m AMSL is achieved. To avoid any accidental intersection of ground water table, the Company has now decided to restrict mining depth to +2.0 m AMSL in pit no. 4 & 5.
Individual bench slope	80-85°
Overall pit slope	~ 45°
Details of existing/ proposed Crusher	Proposed crusher will be installed at Cement Plant.
Mineral Beneficiation	-
RoM output size	-
Transportation details including capacity of dumper/tipper, mode of transport and distance	Internal haul road from mine face to crusher and by conveyor from crusher to the Cement plant adjacent to the mine lease. For the Soda Ash Plant located at approx. 100 km at Kalatalav, Bhavnagar limestone will be transported in dumpers/ trucks through National Highway 51. Internal haul road from mine face to crusher means of dumper/tippers of 25 tonnes capacity.
Generation of Topsoil/OB & its Management during plan period & conceptual period	Top soil at 1 st plan period- 150000 cu.m, temporary stacking at one location Top soil at 2 nd plan period- 840000 cu.m, temporary stacking at one location Top soil at conceptual period-380000 cu.m, simultaneously backfilling
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	Nil
Additional information(if any)	Surface miner as well as ripper/dozer & rock breaker will be used for mining to minimize drilling & blasting.

vii. Water requirement:

Total water requirement	42 KLD	Fresh water	3 KLD
		Treated water	39 KLD

Source	i. Fresh water source Narmada water pipeline/Water tanker. ii. Water harvested within mine lease during rainy season. iii. Treated water source- Reject water of RO /DM plant &Reject water of RO /DM plant (proposed at Cement plant)
Permission for withdrawal/ intersection along with details of grant and its validity	Permission for water withdrawal from Narmada water pipeline has been taken vide letter No. GWIL/Bhavnagar/Ind.conn./1257 dated 4.06.2008.

viii. Nearest village/town/ highway/interstate boundary/railway station/water bodies/monument/ forest

Particulars	Particular's Name	Distance & Directions
Village	Vangar Madhiya	0.25 km, NW 0.25 km, SE
Town	Mahuva	6.2km, ENE
Highway	NH-51 (Una-Mahuva highway)	Within
Interstate Boundary	Rajasthan	Approx.500 KM,N
Railway Station/Railway line	Amrutvel	2.0 km, N
Water Bodies	Arabian Sea Coast	3.4 km S to the HTL
	Samdiyala Salinity ingress control bund	2.3 km, SSW
	Bhambhali River	0.9 Km, W
	Malan River	7.4 KM,E
	Malan Bandhara	5.4 KM,SE
	Garasawo River	2.5 Km,NE
Forest	RF near Patwa	2.1 KM,S
	RF near Doliya	3.3 KM,SSE
	RF near Dudheri	3.9 KM,SE
	RF near Gujarda	4.3 KM,SE
	RF near Khared	6.3 KM,SE

ix. Presence of Environmentally Sensitive areas in the study area

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks
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Forest Land within the mine lease area and (if yes) status of Forest Clearance	No	<p>The Project Proponent has submitted the letter from the Office of the Principal Chief Conservator of Forests vide Lr.No: WLP/32/C826-827/2021-22 dated 13.01.2022 regarding the map showing the location of protected areas within 10km of the Limestone mining project and the and distance of protected areas and proposed Limestone mine.</p> <table border="1"> <thead> <tr> <th>Protected areas</th> <th>Distance between Limestone mines and Protected areas</th> </tr> </thead> <tbody> <tr> <td>Gir National Park</td> <td>76.0 km</td> </tr> <tr> <td>Gir Wildlife Sanctuary</td> <td>44.2 km</td> </tr> <tr> <td>Mitiyala Wildlife Sanctuary</td> <td>43.5 km</td> </tr> </tbody> </table>	Protected areas	Distance between Limestone mines and Protected areas	Gir National Park	76.0 km	Gir Wildlife Sanctuary	44.2 km	Mitiyala Wildlife Sanctuary	43.5 km
Protected areas	Distance between Limestone mines and Protected areas									
Gir National Park	76.0 km									
Gir Wildlife Sanctuary	44.2 km									
Mitiyala Wildlife Sanctuary	43.5 km									
National Park	No									
Wildlife Sanctuary	No									
Elephant/Tiger Reserve	No									
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area (ESA)	No	<p>The Project Proponent has submitted the letter from the Office of the Deputy Chief Conservator of Forest, Bhavnagar vide letter no. A/GMN/T11/2075/22-23 dated 27.01.2023 certifying that the nearest turtle rearing/breeding site is located at a distance of about 70km away from the mines.</p>								
Coastal Regulation Zone (CRZ)	Yes	<p>Arabian Sea Coast: 3.4 km S to the HTL The proposed project lies beyond distance of 0.5 km from High Tide Line of Arabian Sea Coast. The CRZ map has been prepared by Institute of Remote Sensing, Anna University, Chennai.</p> <p>ML area outside CRZ- GCZMA letter no.E NV-10-2023-170-T dated 19.07.2023</p>								
Schedule-I species (Nos. and name of schedule-I species with authenticated letter)	Yes	<p>As per WLCP approved on 20.12.2021 (3 nos.) : Peafowl, Chinkara and Asiatic lion Additional as per WPA amendment of 2022 (9 nos.): Indian Leopard, Striped Hyena, Jungle Cat, Indian Fox, Jackal, Indian Grey Mongoose, Indian Porcupine, Indian Grey Wolf, and Eurasian Spoonbill</p> <p>The above have been updated in WLCP.</p>								
Wildlife Conservation Plan	Yes	<p>On the basis of the fauna study findings & list of fauna authenticated by Forest Department, Wildlife Conservation Plan (WLCP) was prepared and submitted for approval. The said Wildlife Conservation Plan had been approved by the Forest Department on 20.12.2021. Rs. 19.9 lakh had been approved for the conservation of wildlife in the study area.</p> <p>The WLCP has been updated w.r.t. Schedu</p>								

		le-I species as per WPA amendment of 2022 and budget allocation has been increased to Rs.65.9 Lakh for all 3 mines.
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x. Green belt/plantation details:

Proposed area for green belt/plantation and no. of saplings proposed	26.50 Ha.
Budget for green plant & plantation till the end of life of mine.	80.35 Lakhs
Budget for nursery	-
Details of existing plantation and its survival rate	-
No. of tree cuts in the mine lease area and compensatory afforestation	As per actual during mining
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	16.50
50 m safety zone of nallah, roads, electric lines	10.00
500 m safety zones of nearest habitation villages	-

xi. Baseline detail:

Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)	
Period of baseline data collection	01.03.2021 to 02.06.2021
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Summer
Predominant Wind direction (From)	South
Ambient Air Quality (no. of locations) and results	16 Core zone (1 no.) - PM10 from 40.8 to 68.8 $\mu\text{g}/\text{m}^3$, PM2.5 from 21.7 to 37.4 $\mu\text{g}/\text{m}^3$, SO ₂ from 4.8 to 7.7 $\mu\text{g}/\text{m}^3$ and NO ₂ from 4.9 to 10.5 $\mu\text{g}/\text{m}^3$. Buffer zone (15 nos.) : PM10 from 27.6 to 71.7 $\mu\text{g}/\text{m}^3$, PM2.5 from 11.2 to 40.0 $\mu\text{g}/\text{m}^3$, SO ₂ from 2.7 to 10.2 $\mu\text{g}/\text{m}^3$ and NO ₂ from 3.6 to 14.5 $\mu\text{g}/\text{m}^3$.
Noise level (no. of locations) and results	16 Buffer zone : Between 47.57 dB(A) to 52.46 dB(A) during day time and 39.42 dB(A) to 42.89 dB(A) during night time.

Water Quality (no. of locations) and results	15 (12 ground water and 3 surface) water sampling stations were monitored within the study area. All the parameters of ground water were well within the permissible limits as per IS 10500: 2012. The surface water quality in all samples was found B to below E class. The result indicates that the maximum and minimum values of DO ranges between 5.8 to 6.3 mg/l, hardness ranged between 360 - 8300 mg/l in surface water.
Soil Quality (no. of locations) and results	12 pH ranges between 7.7 - 8.2, Potassium ranges from 157.0 - 845.0 kg/ha and Nitrogen ranges from 0.01 - 12.57 mg/kg
Hydro geological study and results	As per planned mining and Report of hydrogeological & hydrological studies of core and buffer zone of Vangar & Madhiya limestone mine, the groundwater table may get touched in post - monsoon in pit no. 4 & 5 when the proposed conceptual pit bottom level of +1.0 m AMSL is achieved. To avoid any accidental intersection of ground water table, the Company has now decided to restrict mining depth to +2.0 m AMSL in pit no. 4 & 5.
Traffic study (no. of locations) and results	The traffic volume survey was conducted on Bhavnagar to Una Road (NH8E/51) Near Vangar Village. Total numbers of vehicles were found as 6793 per day and equivalent PCUs is 9382 per day. There will be daily movement of 512 numbers of dumpers (to & fro) per day or 1536 PCU/ day on the road. 01 location & V/C = 31.27

xii. Public Hearing (PH) Details:

Advertisement for PH with date (name of major national daily and one regional vernacular daily newspaper)	26.03.2023 in Sandesh Newspaper & Indian Express
Date of PH	28.04.2023
Venue	At the premises of Nirma Cement Plant Area, NH 8E/51, Survey No. 80, Village: Padhiyarka, Taluka: Mahuva, Dist. Bhavnagar
Chaired by	District Collector & District Magistrate, Bhavnagar District & Regional Officer, GPCB Bhavnagar
Main issues raised during PH	Air pollution, salinity ingress, wildlife protect

	ion, acquisition of agriculture land
Budget proposed for addressing issues raised during PH over 3 years	34 Lakhs
Additional information (if any)	-

xiii. Details of CTE/CTO, Certified Compliance Report, Certified Production Details from the inception of the mine:

Particulars	Details of Letter along with date of grant and validity
Consent to Establish	GPCB CTE granted vide dated 25/01/2021 & valid upto 24/01/2028.
Consent to Operate	-
Certified Compliance Report and Inspection date	-
Certified Production Details from the inception of the mine (in tabular form against the EC capacity)	Fresh mine

xiv. Rehabilitation & Resettlement (R&R):

R & R details	For private land, company has obtained surface rights for mining by purchasing land/consent in some of the land & for remaining land, company is in process to procure ownership or surface right for mining on mutually agreed commercial terms. Rs. 2466.88 lakhs cost envisaged for 1 and (189.76 ha) and Rs. 48 lakhs approx. for homestead.
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xv. Court case details:

Court Case, No and its present status	The Project Proponent has submitted an undertaking vide letter dated 07.10.2023 stating that there is no litigation on the project either at NGT or any other court of law related to environment and pollution matters in which the project proponent is a respondent.
Undertaking by Project Proponent w.r.t court case	

xvi. Affidavit/Undertaking details:

Affidavit as per Ministry's OM dated 30.05.2018	The Project Proponent has submitted an undertaking by way of notarized Affidavit dated 09.10.2023 stating that the proposal does not involve violation of Ministry's OM dated 30.05.2018.
Undertaking by Project Proponent in EIA/EMP report	The Project Proponent has submitted an undertaking vide letter dated 04.01.2023 stating that the contents (information and data) as given by the Consultant in the EIA/EMP report are factually correct with full knowledge of the undersigned (Shri Ashish Desai)
Undertaking by Consultant in EIA/EMP	The Director of the EIA Consultant (M/s Centre for Env

report	otech & Management Consultancy Pvt. Ltd) has informed that the baseline data was generated by MoEF &NABL Accredited Laboratory M/s Min Mec R&D Laboratory, a division of Min Mec Consultancy Pvt. Ltd., New Delhi and the same has been verified and also confirmed that he shall be fully accountable for any misleading information mentioned in this statement.
Plagiarism Certificate	

xvii. Earlier the Proposal was considered in the 21st EAC meeting held during 18-20th October, 2024 wherein the Committee has deferred the proposal for the submission of requisite information. The Project Proponent has submitted the relevant information on Parivesh are as follows:

S. No	Observation of EAC in the 21 st meeting held during 18-20 th October, 2023	Reply by Project Proponent
1.	The site visit report of the subcommittee.	Site visit has been conducted by subcommittee on 22nd - 25th December, 2023.
2.	Since the mine site is located within 20 km from seaboard frontier, the Project Proponent shall submit No Objection Certificate from Ministry of Defense for consideration of the instant project.	<ul style="list-style-type: none"> ◆ We have submitted letter via registered post to Ministry of Defense, New Delhi, Govt. of India for issuance of NOC in this regard. Copy of the same is attached on Parivesh Portal. ◆ We also have submitted letter to Department of Geology & Mining, Govt. of Gujarat, Bhavnagar for recommendation to issue NOC to Ministry of Defense, Govt. of India. Copy of the same is attached on Parivesh Portal. ◆ As per our understanding, there is no clarity or guideline in respect of process to be followed to obtain NoC of Ministry of Defense (MoD), therefore, our humble request is that issue the EC without condition of obtaining NOC from MoD.
3.	The Project Proponent needs to submit the action for laying common Over Land Belt Conveyor (OLBC) for transportation of mineral from mine lease area to the Cement Plant. The Project Proponent also needs to submit the action plan for expansion of road with a width of 7m and by passing the village road till the commission of the Over Land Belt Conveyor (OLBC).	<ul style="list-style-type: none"> ◆ The mine is captive mine to proposed cement plant at Mahuva and Highgrade limestone to be used in company's own existing Soda Ash plant located at Kalatalav, Bhavnagar as per permission accorded by the Govt. of Gujarat vide letter dated: 17.08.2023. (Copy attached on Parivesh Portal). ◆ The cement plant is adjoining to the mine lease while the Soda ash plant is located around 100 km away and accessed through National Highway ◆ Establishment of cement plant may take some time as the appeal is pending before Hon'ble Supreme Court while the soda ash plant is already operational. ◆ Hence, till the commencement of proposed cement plant, maximum 5% i.e. 265 TPD chemical grade limestone will be transported through dumpers @ 11 trips per day via existing village road of 7 m (out of which 4 m is black topped) to National Highway and ultimately Soda Ash plant at Bhavnagar.

		<p>Company is very much keen to establish cement plant as early as possible & will produce & consume required limestone for cement manufacturing on its highest rated capacity.</p> <p>We assure your kind authority that we will widen the black top of the existing village road from mines to National Highway prior to commencement of Proposed Cement Plant. Section plan of proposed road black top widening is attached on Parivesh Portal.</p> <p>Also, as discussed during the EAC meeting, we will explore the possibility of Over Land Belt Conveyor (OLBC) on either side of the highway based on the technical possibility & feasibility by reputed consultant. We are going to approach M/s. Holtec Consultants for regulatory, commercial & technical feasibility for above stated OLBC.</p>
4.	The Project Proponent needs to explore the possibility of laying over bridge over the Highway and shall submit the permission from the National Highways Authority of India (NHAI).	
5.	The Project Proponent needs to submit the protection measures to be taken for salt water intrusion and the effectiveness of the salinity ingress control bund.	<p>Samdhiyala Salinity Ingress Control bund (Samdhiyala bund) was constructed by Government of Gujarat in the year 2000 on Motpet Creek to prevent sea water from coming towards landward side. On the landward side, rain water gets accumulated as well.</p> <p>Presently, the accumulated rain water of Samdhiyala bund is being used during post monsoon by adjoining agriculture land owners and in other seasons they are extracting ground water through borewell. For agriculture land which is away from Samdhiyala bund, farmers are extracting ground water through borewell for agriculture due to which salinity & TDS are increasing in ground water.</p> <p>As per company's water management strategy, after commencement of cement plant, company will undertake deepening of 100 ha surrendered land out of our total allotted plant land and also pledged to construct garland drains around the proposed plant area which will improve the overall fresh water storage capacity of Samdhiyala bund on landward side. Regular desiltation of canal will improve water retention capacity of Samdhiyala bund.</p> <p>At the time of mining, bottom level of conceptual pit will be kept above ground water level to avoid intersection.</p> <p>Hydrogeological monitoring network will be established by constructing piezometers in and around the lease.</p> <p>During mining, present hydrological system will keep intact by constructing garland drain around the pits to ma</p>

		<p>intain present hydraulic gradient towards the Samdhiyala Bund.</p> <ul style="list-style-type: none"> After exhaustion of mineral, voids left will act as natural water harvesting structures. Collected rain water will stand and gradually percolate into the sub surface water & in long term improve the quality of ground water. Positive pressure of fresh water on landward side will be created, which will aid in pushing back the saline front, which may be at a lower elevation. In view of the above, due to mining there is no possibility of salt water intrusion in the area & effectiveness of the salinity ingress control bund as well as hydrogeological system of bund will not be disturbed & infact will significantly improve the effectiveness of salinity ingress control bund. 												
6.	The Project Proponent needs to submit the site specific mitigation measures for backwaters from Arabian Sea coming into the mine lease area.	<p>In this regard, following site specific mitigation measures will be taken:</p> <ul style="list-style-type: none"> Arabian sea is situated at a distance of 3.8 km in the south of the said mine lease & it is outside of CRZ area. There was only one probability of sea water coming to mine lease area which is through Motpet Creek. Samdhiyala Salinity ingress bund has been constructed on Motpet Creek to restrict backwater coming from Arabian sea towards landward side. Therefore, there is no possibility of backwater from Arabian sea to come to mine lease area. Hydrogeological monitoring network will be established by constructing piezometers in and around the lease to monitor the water level & water salinity. Positive pressure of fresh water on landward site will be created due to water storage in mine pits, which will aid in pushing back the saline front as well. 												
7.	The Project Proponent needs to revisit the plan for backfilling with clearly indicating the voids area and the capacity available/required for backfilling.													
	<p>The Indian Bureau of Mines, Govt. of India, Gandhinagar has approved the Mining Plan vide its letter dated: 05.08.2021 for the period of 5 years i.e. up to 2025-26. As per approved Mining Plan, Removal of soil and its disposal as below.</p> <table border="1"> <thead> <tr> <th>Mine plan period</th> <th>Removal of soil (mio. cum)</th> <th>Means of disposal</th> <th>Area covered under stacking (ha)</th> </tr> </thead> <tbody> <tr> <td>FY 2021-22 to FY 2025-26</td> <td>0.15</td> <td>Temporary stacking at one location near Proposed Pit no.1. Then, temporary stacked soil will be shifted for Backfilling of shallow pits of around 4.0 m depth (Proposed Pit No. 4 & 5) after five year mine plan period. (As demonstrated in map attached on Parivesh Portal).</td> <td>4.63</td> </tr> <tr> <td>FY 2026-27 to</td> <td>0.84</td> <td>No stacking proposal is envisaged as simult</td> <td>nil</td> </tr> </tbody> </table>		Mine plan period	Removal of soil (mio. cum)	Means of disposal	Area covered under stacking (ha)	FY 2021-22 to FY 2025-26	0.15	Temporary stacking at one location near Proposed Pit no.1. Then, temporary stacked soil will be shifted for Backfilling of shallow pits of around 4.0 m depth (Proposed Pit No. 4 & 5) after five year mine plan period. (As demonstrated in map attached on Parivesh Portal).	4.63	FY 2026-27 to	0.84	No stacking proposal is envisaged as simult	nil
Mine plan period	Removal of soil (mio. cum)	Means of disposal	Area covered under stacking (ha)											
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FY 2026-27 to	0.84	No stacking proposal is envisaged as simult	nil											

FY 2030-31		aneously backfilled material will be utilized for shallow pits of around 4.0 m depth Proposed Pit No. 4 & 5) (As demonstrated in map attached on Parivesh Portal).	
FY 2031-32 to FY 2033-34 (conceptual stage)	0.38		nil
Total	1.37		-	nil

Looking towards availability of topsoil, backfilling of part area is envisaged. conceptual period = 197.00ha

• Total soil removal envisaged till conceptual period = 1.37 million cum (197 Ha *0.7m avg. soil thickness)

• Total backfilling area envisaged till conceptual period = 36.36 ha

Ultimate Dimensions of Pits at the end of mine life

1	92.57	20 to 15	10	10 to 5	No backfilling proposal
2	40.84	15 to 13	7	8 to 6	No backfilling proposal
3	14.47	18 to 16	10	8 to 6	No backfilling proposal
4	12.76	11 to 7	2	8 to 4	No backfilling proposal
	16.84	7 to 6	3 to 2	4	Backfilling of Pit area of 16.84 Ha for entire depth. (618480 cu.m)
5	19.52	9.5 to 7.5	2	7.5 to 5.5	Backfilling of Pit of 19.52 Ha for 4.0 m depth (751520 cu.m)
Total	197 Ha				36.36 Ha (1370000 cu.m)

8. The Project Proponent needs to revise the activities proposed under the Wildlife Conservation Plan. The Project Proponent also needs to ensure that the Schedule-I species as per the latest Wildlife Protection Amendment Act, 2022 shall also be included in the Wildlife Conservation Plan for their conservation.
- As advised, revised wildlife conservation plan incorporating the Schedule-I species as per the latest Wildlife Protection Amendment Act, 2022 is attached on Parivesh Portal.

9. The EAC was of the view that the compensation rate is very less and asked the Project proponent to revisit and justify the budget proposed for Resettlement & Rehabilitation (R&R). The Project Proponent also needs to submit the action plan for land acquisition and timeline.

	Land rate, Rs.	Land	Total Amount
Private	13.00 *	189.76	2466.88
Government	On mining lease	7.24	-
Total		197.0	2466.88

*: Total amount given considering as per DLC rate. However, land will be procured/get consent for mining purpose on mutual agreed commercial rates.

Type of	Rate, Rs. /	Approx. Homestead	Total compensation,
Pucca	10000	480	48
Semi pucca	5000		
Kutchha	2000		
Total		480	48

** Company will consider homestead losers falling in proposed mine area on actual basis at the time of starting of mining activity and such homestead losers shall be compensated on mutual

ually agreed commercial terms.

Since the land owners as well as homestead owners shall be compensated on commercial terms, therefore, they will have better economic strength to rehabilitate or reinvest the compensation amount. Hence, no separate R & R plan is envisaged.

Action plan for land acquisition and timeline is as below:

Sr. No.	Timeline for land requirement	Pvt. Land, Ha	Govt. Land, Ha	Total, Ha
1	Present			
1.1	Purchased	0	0	0
1.2	Consented	25.14	0	25.14
1.3	Leased	0	25.65	25.65
2	Future			
2.1	1 st to 5 th year mining	42.94	0	42.94
2.2	6 th year to Conceptual stage -13 th year	194.36	7.24	201.60
2.3	Mine life (up to lease period)	586.48	25.65	612.13

Mining lease deed has already been executed for said mining lease so mining can be started in Govt. lease land. As far as private land is concerned, company has obtained surface rights for mining by purchasing land/consent in some of the land & for remaining land, company is in process to procure ownership or surface right for mining on mutually agreed commercial terms. We hereby assure that company will obtain surface rights of the land before entry in private land for starting mining activity in the mining lease area.

10. The Project Proponent needs to submit the action plan for year wise exploration program

The Indian Bureau of Mines, Govt. of India, Gandhinagar has approved the Mining Plan vide its letter dated: 05.08.2021 for the period of 5 years i.e. up to 2025-26.

Looking towards the systematic exploration of the entire area, 183 nos. of Core Bore Holes has been proposed in the area in order to bring the ML area within G1 stage in accordance with MEMC Rules 2015 and MCDR 2017 as per approved mining plan.

The deposit is sedimentary origin and simple in nature, therefore boreholes are kept at an interval of 200m grid pattern. A total of 183 number of Core Boreholes are proposed up to a level of +1.0 MRL. Initially BH drilling shall be at an interval of 400m. If limestone potentiality proves, then further BH can be done closely at 200m interval. All proposed BH shall be drilled vertically. The exploration shall be carried out in five years of working i.e. year 2021-22 to 2025-26. Exploration shall be carried out as shown in table to bring BH at 200m interval

Program of Future Exploration

YEAR	No. of BH	Grid Interval	Total Meterage
2021-22 to 2025-26	PBH-1 to PBH-119	400 m & 200 m	Up to +1.0 MRL
	PBH-120 to PBH -183	200 m	Up to +1.0 MRL

The exploration shall be started as soon as mining work is started on grant of EC and try to accomplish within shorter period if conditions are favorable.

The location of Proposed BH is depicted in Surface Geolo

		gical plan of the approved mine plan and given in EIA report in figure no. C 2-2 in Chapter 2. (Copy given on Parivesh Portal).
11.	The Project Proponent needs to submit the copy of the permission letter obtained from the State Govt. for utilization of Chemical Grade of Limestone for non-cement purposes.	Permission accorded by the Govt. of Gujarat vide order dated: 17.08.2023 for utilization of Chemical Grade of Limestone for non-cement purposes is attached on Parivesh portal.
12	The Project Proponent needs to submit a letter from the Department of Geology and Mining, Government of Gujarat clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s. Nirma Limited or not?	The company has not carried out any mining within the lease area much less any illegal mining in the lease area. There are old pits pre-dating the allotment of the lease to the company, which were received in legacy and shown in the present surface geological plan (Copy given on Parivesh portal). Request letter in this regard has been submitted to Department of Geology and Mining, Government of Gujarat on 03.11.2023. Acknowledgement of the same is attached on Parivesh portal.

xviii. Compliance of Sub-Committee Site Visit Recommendation given in 25th EAC meeting MoM held on 9th – 10th January, 2024.

Sr. No.	Recommendation of Sub-Committee	Reply by Project Proponent
1	PP should submit an action plan and timeline to indicate the purchase of lands across all three mining leases wherein it has proposed mining pits to initiate mining activities since as on date PP has only purchased / obtained surface rights over 101.1967 Ha out of 1351.6489 of Private Agriculture Land.	Action plan and Timeline indicating the purchase /obtain surface rights of land for mining for all three mining leases to initiate mining activities is attached on Parivesh Portal.
2.	Since PP envisages to handover the land with shallow quarry having depth upto 4 m to landowners for farming and mostly all three mining leases are having agricultural land. PP is requested to conduct a survey to indicate the present status and number of low-lying areas, their respective which may be backfilled with available capacity of top soil/overburden and can be handed over to farmers for agricultural purpose.	In said mine, survey has been conducted & 2 nos. of pits i.e. Pit No. 4 & 5 (total Pit area -49.12 Ha) will have shallow depth pit in Pit area -36.36 Ha, will be backfilled for entire depth / partial depth, looking to availability of Soil for backfilling. <ul style="list-style-type: none"> • Pit no. 4 -16.84 Ha Pit area of 4.0 m bgl for entire depth out of total pit area of 29.6 Ha. • Pit No. 5 – 19.52 Ha Pit area of 4.0 m bgl for entire pit area in partial depth. Action plan for backfilling of shallow depth pits of depth up to 4.0 m and handing over to farmers for agriculture is attached on Parivesh Portal..
3.	Project Proponent needs to provide year	Exploration plan of said mining lease is a

	wise exploration plan for all the three mining leases.	ttached on Parivesh Portal..
4.	Since, Bhavnagar falls under severely Polluted Area category, PP shall ensure that during initiation phase itself they should include the provision of permanent water sprinklers across the haul roads in all three mining leases.	Chitra Industrial area (severely polluted area) in Bhavnagar city is located around 100 km away from our said mining lease area. On initial stage, company will engage water tanker with sprinkler arrangement to suppress the dust on haul road and company will make provision of permanent water sprinklers across the haul roads in all three mining leases.
5.	Since, Bellur and other schools are in close proximity to mine lease area, PP shall ensure that necessary safety measures are taken as per DGMS norms for all three mining leases.	Company will ensure to maintain require safety measures & distance from Bellur School & other schools as per DGMS norms for all three mining leases during mining.
6.	PP shall ensure to construct bunds near the existing low lying areas that has developed into wetland to prevent the ingress of sea water in Padhiyarka and Doliya Limestone Mine lease area and Gujarada, Dudheri & Dudhala limestone mine lease area.	Not applicable
7.	The project Proponent needs to submit the integrated management plan describing the strategies and actions for achieving wise use of the wetland and the plan shall include objectives of the site management, management actions required to achieve the objectives, factors that affects, or may affect, the various site features, monitoring requirements for detecting changes in ecological character and for measuring the effectiveness of management, and resources for management implementation.	Not applicable
8.	PP needs to engage and impart skill among the villagers and local population mainly the land losers and also submit a plan for their alternate livelihood arrangement since most of them will be losing their fertile lands.	Company will not acquire any agricultural land through land acquisition by Govt. or without willingness of land owner and will purchase / obtain surface rights for mining on market commercial negotiated rates. Land owners may purchase agriculture land in nearby area in the amount which is to be paid to them against their land and can continue their livelihood. Company will give priority to engage lan

		<p>d owners who have given land for mining purposes as per requirement of manpower for mines.</p> <p>Also, company will arrange to impart training to build capacity for self-employment [stitching, embroidery, tailoring, pickles, dairy improvement, poultry farming, etc.] to land losers and will facilitate vocational training along with skill development for getting better job opportunities (Budget Rs. 3 lakhs/year).</p>
9.	<p>PP should widen the existing village roads before using it for transportation in all three mining leases, wherever widening is not possible, PP shall submit an action plan for making alternate roads.</p>	<p>On initial stage, company has proposed to mine out limestone for Soda ash plant in lower capacity and company will use existing village road for transportation of limestone by maintaining the existing village road as number of trips of truck / dumpers will be very less i.e. around 11 numbers of trips/day maximum in this mine.</p> <p>Company will widen the existing village road or make alternate road in all three mining leases on installation of cement plant. Section plan of the road widening is attached on Parivesh Portal..</p>
10.	<p>PP should engage wildlife experts/ avian experts for conservation of the avian fauna within and near its mine lease.</p>	<p>Company has already engaged wildlife expert / avian expert for conservation of the avian fauna within and near its mine lease.</p>
11.	<p>PP shall plant native fruit bearing plants across all the proposed green patches.</p>	<p>Native fruit bearing plants will be planted across all the proposed green patches.</p>
12.	<p>PP shall put boundary pillars across all mining leases.</p>	<p>Company had erected boundary pillars at the time of lease deed execution and got authentication of all boundary pillars coordinates through the DILR / State Govt. and provided in the approved mining plan for all three mining leases. Some pillars have been dislodged/ removed by local people. Company will put such boundary pillars again prior to commencement of mine so that they can be maintained.</p>
13.	<p>The project proponent needs to submit a letter from the Department of Geology & Mining, Govt. of Gujarat, clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by</p>	<p>The company has not carried out any illegal mining in the lease area and request letter to provide required certificate regarding no mining carried out by company or others has been submitted to the District Geologist, Department of Geology and</p>

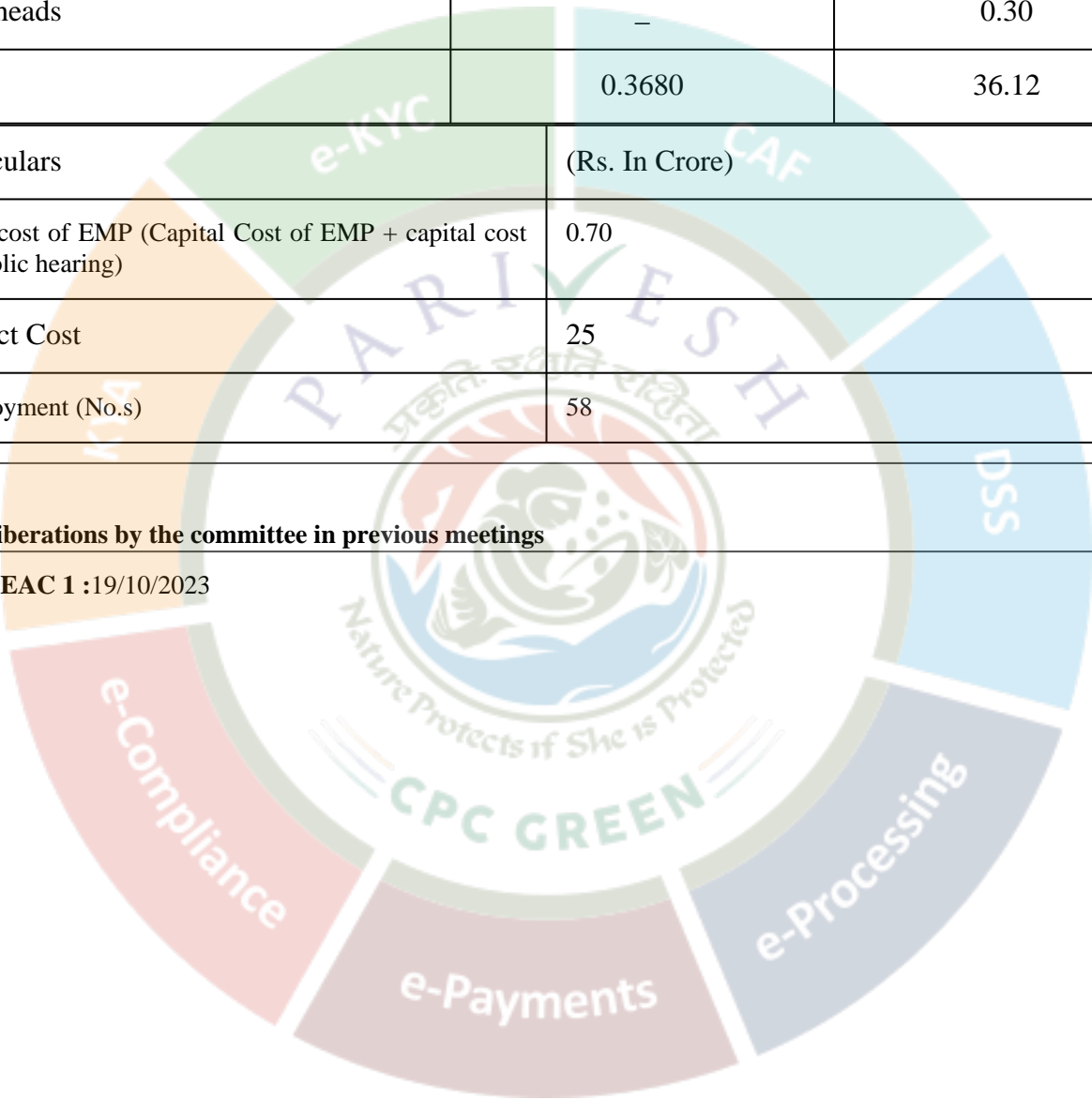
	M/s Nirma Limited or not?	<p>Mining, Government of Gujarat, Bhavnagar vide letter dated: 01.11.2023. In turn, the District Geologist, Bhavnagar has submitted his report to the Commissioner of Geology & Mining, Govt. of Gujarat, Gandhinagar vide its letter dated: 01.02.2024 to communicate the same to MoEF and copy endorsed to us. As per his report, No case of Illegal mining of limestone mineral has been registered within the mining lease area against the company M/s Nirma Limited or against any other individual or entity.</p> <p>Copy of our submitted letter dated: 01.11.2023 and copy of report of the District, Geologist, Geology & Mining Dep't, Bhavnagar dated 01.02.2024 is annexed on Parivesh Portal..</p>
14.	PP needs to submit plan to transport crushed limestone from all the three leases to plant.	<p>The mine is captive mine to proposed cement plant at Padhiarka, Mahuva and High grade limestone to be used in company's own existing Soda Ash plant located as Kalatalav, Bhavnagar.</p> <p>The cement plant is adjoining to the mine lease while the Soda ash plant is located around 100 km away and accessed through National Highway.</p> <p>Establishment of cement plant may take some time while the soda ash plant is already operational.</p> <p>Hence, till the commencement of proposed cement plant, maximum 5% i.e. 265 TPD limestone will be transported to Soda ash plant located near Bhavnagar through dumpers @11 trips per day. The trucks will pass through existing Madhiya - Amrutvel village road of 7 m width (out of which 4 m is black topped) for around 1.0 km and meet National Highway no. 51, from where the truck will move around 100 km.</p>
15.	PP needs to take some measures to keep the migration bird ponds unharmed and protected by activity of mining in future.	<p>Migratory birds are seen in Malan Bandhara as well as other nearby Bandhara areas, which areas located at distance of 5.4 km and 2.3 km from our mining lease areas, respectively.</p> <p>Birds are also seen in low lying area, in which rain water accumulates temporarily during monsoon. However, they are predominantly resident water birds.</p> <p>The company is committed to the measur</p>

		<p>es proposed in the site specific wildlife c onservation plan (summarised in point 7 earlier), which include points related to p rotection of shallow ponds, ecology and birds.</p> <p>The company will mine above 2m AMS L in low lying areas to maintain the fresh water nature of the water in it. The enlarg ening of the low lying area in pit no. 2 & 3 of Padhiaryka & Doliya Mine and pit n o. 5 & 6 of Gujarda, Dudheri & Dudhala will provide more area to birds. Also co mpany will ensure that transportation wil l be carried out by maintaining safety dist ance from low lying areas.</p>	
16.	PP needs to install water treatment plant to reduce the hardness of water.	<p>Drinking water is provided in every near by villages through Narmada water pipeli ne by the State Govt. and drinking water requirements for mines shall also be fulfil led through Narmada water pipe line wh ich is passing through nearby area. Henc e, presently there is no proposal to use th e hard ground water. However, if any req uirement sought in future we will provide treatment plant.</p>	
17.	PP needs to explore possibility of deploying surface miners for mining.	<p>Company has proposed mining with surf ace miner (50% quantity) in IBM approv ed mine plan and also in EIA report. Co mpany explored use of Ripper dozer for c ement plant use to eliminate drilling & bl asting in the remaining 50% and committ ed the same in point no. 3, Specific Term s of Reference received from MOEF&C C vide Letter no. J-11015/154/2016-IA. I I(M) dated November 28, 2022.</p> <p>For soda ash plant, we need sized limesto ne i.e. 25 mm to 100 mm, so surface min er cannot be deployed for limestone mini ng for Soda ash plant use. However, com pany will deploy rock breaker to avoid bl asting during mining.</p>	
Activities		Capital cost (Crores)	Recurring cost (Lakhs/annum)
Pollution Control		0.241	9.54
Pollution monitoring		0.016	3.88
Occupational health		0.011	0.64

Environmental Studies, etc.	0.10	–
Green belt	–	5.10
Reclamation	–	11.39
Others (Environmental studies, Rehabilitation, Realignment, Expert advice, fencing etc.	–	5.28
Overheads	–	0.30
Total	0.3680	36.12
Particulars	(Rs. In Crore)	
Total cost of EMP (Capital Cost of EMP + capital cost of Public hearing)	0.70	
Project Cost	25	
Employment (No.s)	58	

3.4.3. Deliberations by the committee in previous meetings

Date of EAC 1 :19/10/2023



Deliberations of EAC 1 :

The EAC deliberated the instant proposal along with Gujarda, Dudheri & Dudhala Limestone Mine and Padhiarka & Doliya Limestone mine. The Project Proponent has informed the EAC that the proposed method of mining is same in all three mines such as Vangar & Madhiya Limestone Mine, Gujarda, Dudheri & Dudhala Limestone Mine and Padhiarka and Doliya Limestone mine. NH-51 (Una-Mahuva highway) is passing within the mine lease area. A safety distance of 45m will be maintained. The underpass road has been proposed below Highway by NHAI for the safe passage of the villagers. The EAC asked the Project Proponent to explore the possibility of laying overbridge over the Highway. In the proposed 3rd pit, displacement will be taking place. Discrete houses are located within the mine lease area. The total mine lease area is 612.1336 ha, out of which Govt. land is 25.6547 ha and Private land is 586.4789 ha. In this project, Pvt land is more than the previous project. There are 5 mine pits are proposed. Project Affected Families will be 494 no.s. In this project, a budget of Rs 34.0 Lakhs has been earmarked to address the concerns of the public hearing. The geological conditions, method of mining, environmental sensitivity and implications, impact on socio economic are similar in all these three mines.

After detailed deliberations made by the Project Proponent and the Consultant, the EAC noted that the project is part of three contiguous projects namely Padhiarka and Doliya Limestone mine (332.24 ha), Vangar & Madhiya Limestone Mine (612.336 ha) and Gujarda, Dudheri & Dudhala Limestone Mine (681.62 ha) and together it extends over an area of 1626.196 ha. The mine lease area comprises of partly Private Agriculture land and partly Govt. land. NH-51 (Una-Mahuva highway) is passing within the mine lease area. Also, Vangar (0.25 km, NW) and Madhiya villages (0.25 km, SE) are located close to the proximity of the mine lease area. The EAC was not convinced with the proposed backfilling plan and the activities proposed under the Wildlife Conservation Plan. The EAC observed that the pits are isolated and the mine lease area is partly Private and Govt. land. The EAC also observed that there will be direct purchase or leasing of private land with the willing consent of the private land owners. The EAC was of the view that what if the land owners are not willing to give their land. There are likely chances that mining will not take place sequentially if the land acquisition does not happen. There will be failure of scientific mining. Large no. of Project Affected Families is involved in all these projects. The EAC opined that the Saltwater intrusion through surface or ground water sources may diminish the availability or quality of source waters for drinking water utilities. Some salt pans i.e., salt manufacturing industries and few wind mills exists in the study area. Old mine pits also exist within the mine lease area. The EAC noted that the Bhavnagar is categorized as a Severely Polluted Areas. The EAC reiterated the Ministry of Defence letter dated 08.05.2023 regarding security considerations for construction activities/other activities in Border areas/other areas wherein it has been mentioned that *“all activities connected with mining within 20kms from all the borders including seaboard frontier should be planned in consultation with Ministry of Defence”*. Accordingly, EAC opined that PP should obtain NOC from Ministry of Defence.

Thus the EAC opined that there is a need to ascertain the ground reality w.r.t natural low lying areas, water logging areas, old mine pits, sequence of mining, feasibility for backfilling, impact on socio economic, agriculture land, transportation route, traffic congestion, salt pans, effectiveness of salinity ingress control bund, proximity of habitations, schools, water bodies, roads etc., The EAC was of the view that a site visit needs to be conducted by a sub-committee comprising of EAC Members and officers from MoEF&CC. The EAC opined that the Ministry may constitute a sub-committee and submit its report to enable the committee to take a decision on the proposal. Therefore, the EAC **deferred** the proposal for want of following additional information: -

- i. The site visit report of the subcommittee.
- ii. Since the mine site is located within 20 km from seaboard frontier, the Project Proponent shall submit No Objection Certificate from Ministry of Defence for consideration of the instant project.
- iii. The Project Proponent needs to submit the action for laying common Over Land Belt Conveyor (OLBC) for transportation of mineral from mine lease area to the Cement Plant. The Project Proponent also needs to submit the action plan for expansion of road with a width of 7m and by passing the village road till the commission of the Over Land Belt Conveyor (OLBC).
- iv. The Project Proponent needs to explore the possibility of laying overbridge over the Highway

and shall submit the permission from the National Highways Authority of India (NHAI).

- v. The Project Proponent needs to submit the protection measures to be taken for salt water intrusion and the effectiveness of the salinity ingress control bund.
- vi. The Project Proponent needs to submit the site specific mitigation measures for backwaters from Arabian Sea coming into the mine lease area.
- vii. The Project Proponent needs to revisit the plan for backfilling with clearly indicating the voids area and the capacity available/required for backfilling.
- viii. The Project Proponent needs to revise the activities proposed under the Wildlife Conservation Plan. The Project Proponent also needs to ensure that the Schedule-I species as per the latest Wildlife Protection Amendment Act, 2022 shall also be included in the Wildlife Conservation Plan for their conservation.
- ix. The EAC was of the view that the compensation rate is very less and asked the Project proponent to revisit and justify the budget proposed for Resettlement & Rehabilitation (R&R). The Project Proponent also needs to submit the action plan for land acquisition and timeline.
- x. The Project Proponent needs to submit the action plan for year wise exploration program.
- xi. The Project Proponent needs to submit the copy of the permission letter obtained from the State Govt. for utilization of Chemical Grade of Limestone for non-cement purposes.
- xii. The Project Proponent needs to submit a letter from the Department of Geology and Mining, Government of Gujarat clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s. Nirma Limited or not?

3.4.4. Deliberations by the EAC in current meetings

The EAC deliberated the instant proposal along with Padhiarka & Doliya Limestone Mine and Gujarda, Dudheri & Dudhala Limestone Mine. The Project Proponent presented its reply to the ADS points raised vide minutes of the 21st EAC as well as the recommendation of the sub-committee. After detailed deliberations, EAC **deferred** the proposal for the want of following information:-

I. The Proponent shall submit No Objection Certificate from Ministry of Defence for consideration of the instant project.

II. PP needs to undertake a study to showcase the probable impact of mining on migratory bird species and their fly-way passage (Central Asian Flyway). Accordingly, PP shall submit the revised conservation plan for the migratory bird species.

III. The Project Proponent needs to undertake a study and submit the action for laying common Over Land Belt Conveyor(OLBC) for transportation of mineral from mine lease area to the proposed Cement Plant.

IV. The project proponent needs to submit a letter from the Commissioner of Geology & Mining, Govt. of Gujarat, clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s Nirma Limited or not?

V. PP submitted that National Highway is under construction, and they have submitted letter to National

Highway Authorities of India(NHAI) regarding grant of permission to provide Underpass near their proposed cement plant entry. Accordingly, PP needs to submit the permission letter for the underpass.

VI. The Project Proponent needs to carry out study by reputed institute to ascertain hardness of strata for deployment of surface miners for mining.

VII. The Project Proponent needs to submit time line for acquiring land from the villegers.

3.4.5. Recommendation of EAC

Deferred for ADS

Day 2 -15/03/2024

3.1. Agenda Item No 1:

3.1.1. Details of the proposal

Gandhamardan Block B Iron Ore Mining Project by ODISHA MINING CORPORATION LIMITED located at KENDUJHAR,ODISHA			
Proposal For		Amendment in EC	
Proposal No	File No	Submission Date	Activity (Schedule Item)
IA/OR/MIN/451209/2023	J-11015/1084/2007-IA.II(M)	04/11/2023	Mining of minerals (1(a))

3.1.2. Project Salient Features

The proposal is for amendment in EC dated 03.02.2009 w.r.t specific condition no. xx of Gandhamardan Block B Iron Ore Mining Project of M/s Odisha Mining Corporation Limited for production capacity of 9.12 MTPA in the mine lease area of 1590.8673 ha, located at Village: Upper Jagar, Urumunda, UparKainsari, Nitigotha, Ambadahara, Salarapentha, Daonla & Gandhamardan Protected Reserve Forest, Tehsil Banspal, Dist. Keonjhar, Odisha.

2. The details of the project as ascertained from the documents submitted by the Project Proponent and revealed from the discussions held during the meeting are given as under:

- i. Initially, the Project Proponent obtained Environmental Clearance vide EC letter dated 03.02.2009 for an annual production capacity of 91,20,000 tonnes (9.12 million tonnes) of Iron Ore over an area of 1590.8673 ha. One of the specific condition no: xx states that “Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral within the mine lease. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral within the mine lease shall not be overloaded. No transportation of ore outside the mine lease area shall be carried out after the sunset”.
- ii. Now, the Project Proponent has requested for amendment in EC dated 03.02.2009 to allow the transportation of ore outside the mine lease area after the sunset in respect of Gandhamardan Block B Iron ore mines of OMC.
- iii. Justification for amendment in EC:
 - a. The Project Proponent has submitted that the total mine lease area is 1590.8673 ha, out of which 1409.6489 ha is a forest land and 181.2184 ha is a non-forest land.
 - b. Stage-II Forest Clearance was granted in two phases. (i) MoE&F vide letter dated 17.08.2007 granted forest clearance under Section-2 of the Forest (Conservation) Act, 1980 for diversion

of 232.438 ha of forest land and (ii) MoEF&CC vide letter dated 09.10.2018 granted forest clearance under Section-2 of the Forest (Conservation) Act, 1980 for diversion of balance forest land of 1177.211 ha including 25.1070 ha for safety zone in addition to 232.438 of forest land already diverted within total mining lease area of 1590.8673 ha.

c. Since the date of grant of forest clearance for the total area within mine lease, OMC has never been able to achieve the target production and dispatched Iron ore of 9.12MTPA (approved production quantity as per EC). It is not possible to transport all the materials during the day time with the existing road infrastructure and due to Specific Condition No.(xx) of EC dated 03.02.2009.

iv. The Project Proponent has submitted that the supplementary mine lease deed executed on 07.06.2019 and the mine lease is valid up to 10.07.2040. Modification of Review of Mining Plan along with Progressive Mine Closure Plan was approved by Indian Bureau of Mines vide letter dated 02.08.2021 over an area of 1590.8673 ha for the period 2021-22 to 2024-25.

v. The Project Proponent has submitted the past production details from the year 1993-94 to 2023-24 (August, 2023) wherein, excess production has been observed from the year 2001-2002 to 2008-2009. Afterwards the production capacity is within their prescribed EC capacity.

vi. The Project Proponent has submitted the certified compliance report issued by the Regional Office (RO), Bhubaneswar. Site visit was conducted by RO on 09.10.2023.

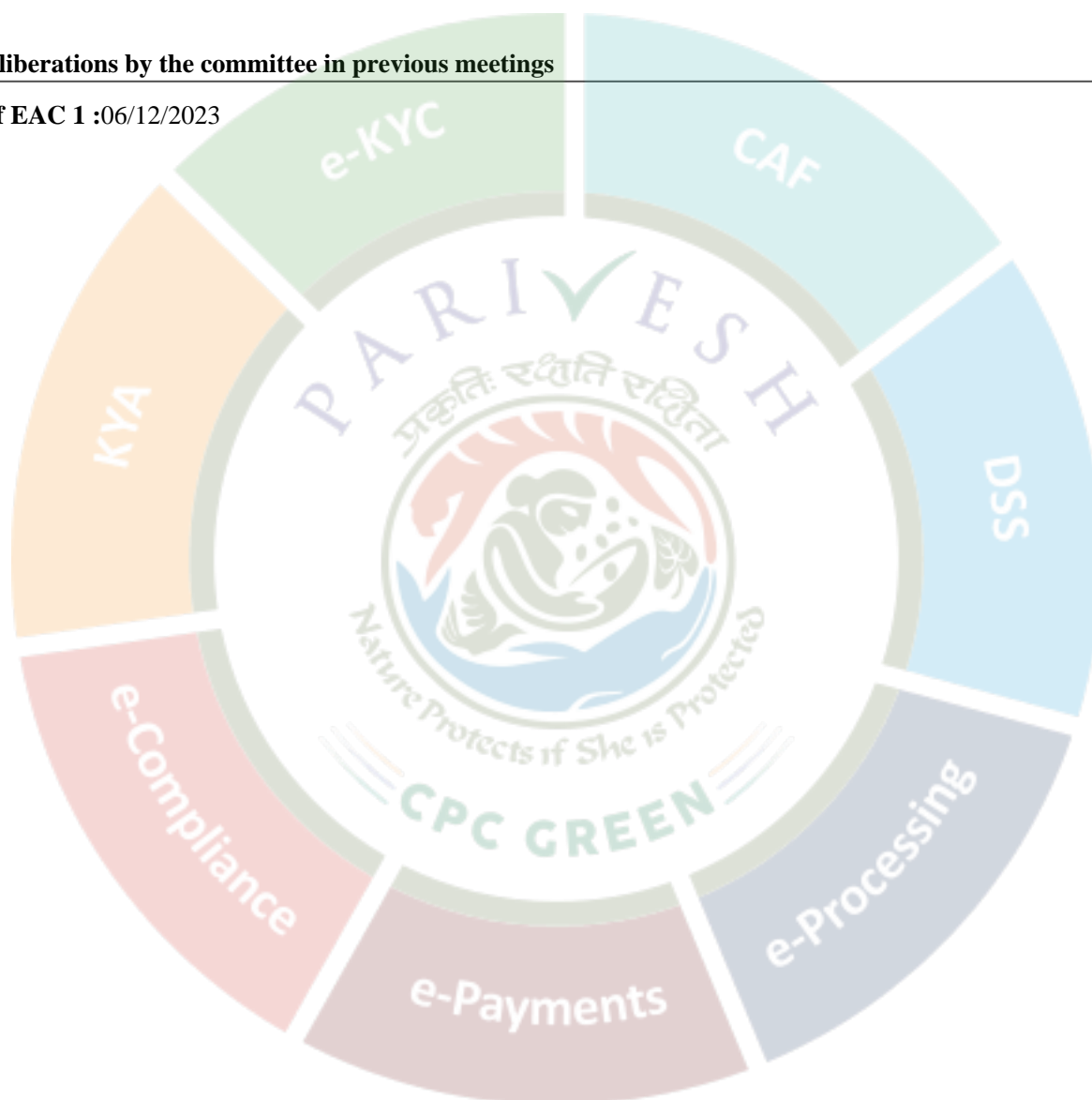
vii. Earlier, the Proposal was considered in the 23rd EAC meeting held during 5-7th December, 2023 wherein the Committee has deferred the proposal for the submission of requisite information. The Project Proponent has submitted the relevant information on Parivesh as follows:

S.No.	Observation in 23 rd EAC meeting held during 5-7 th December, 2023	Reply by Project Proponent
1.	The Project Proponent needs to carry out the scientific study by the reputed institute regarding the carrying capacity of the road indicating the exact quantity to be transported during night time along with details of trips to and fro, capacity of the dumper, design of the road, additional traffic on the road, timeframe required for night transportation depending on the infrastructure availability and also adverse impacts on the environment and wildlife due to night transportation.	The scientific study on the carrying capacity of the road indicating the exact quantity to be transported during night time along with details of trips to and capacity of the dumper, design of the road, additional traffic on the road, timeframe required for night transportation etc has been carried out by CSIR-Centre for Road Research Institute (CRRRI). The Report has been submitted on Parivesh.
2.	The Project Proponent needs to submit the specific mitigation measures w.r.t Wildlife during night transportation.	Divisional Forest Officer (DFO), Keonjhar vide letter dated 17.02.2024 submitted the information related to the mitigation measures w.r.t wildlife during night transportation.
3.	The Project Proponent needs to submit the letter from the State Forest Dept., regarding the movement of animals in the transportation route during night.	Divisional Forest Officer (DFO), Keonjhar vide letter dated 17.02.2024 submitted the information w.r.t. movement of animals in the transportation route during night.
4.	The Project Proponent needs to submit the re verification report done by the Regional Office for the non-compliances.	Project Proponent has submitted comments of regional office, Bhubaneswar for the non-compliances.
5.	The Project Proponent needs to submit the copy of the demand notice issued from the O	The copies of the demand notice issued from the Office of the Deputy Director of Mine

	Office of the Deputy Director of Mines and proof of payment made against the demand notice.	and proofs of payment made against the demand notices has been submitted vide letter dated 04.09.2017.
6.	The Project Proponent needs to submit the copy of the certified past production details issued from the Office of the Deputy Director of Mines dated 18.09.2023 from the year 1993-94 to 2023-24 (Aug, 2023).	The copy of the certified past production details issued from the Office of Deputy Director of Mines dated 18.09.2023 from the year 1993-94 to 2023-24 (August, 2023).

3.1.3. Deliberations by the committee in previous meetings

Date of EAC 1 :06/12/2023



Deliberations of EAC 1 :

The Project Proponent informed the EAC that initially Environmental Clearance (EC) was obtained on 03.02.2009 for an annual production capacity of 91,20,000 tonnes (9.12 million tonnes) of Iron Ore over an area of 1590.8673 ha. The EAC asked the Project Proponent to show the certified past production details issued from the Office of the Deputy Director of Mines dated 18.09.2023 from the year 1993-94 to 2023-24 (Aug, 2023). The Project Proponent informed the EAC that there was no excess production was done after the grant of EC dated 03.02.2009. A Demand notice was issued from the Office of the Deputy Director of Mines in pursuant to the Hon'ble Supreme Court order dated 02.08.2017 and accordingly demand of about Rs 320 Cr was paid. The EAC asked the Project Proponent to submit the copies of the same to the Ministry.

The Project Proponent informed the EAC that one of the specific condition no: xx states that *“Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral within the mine lease. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral within the mine lease shall not be overloaded. No transportation of ore outside the mine lease area shall be carried out after the sunset”*. The restriction in mineral transportation beyond sunset leads to shortfall in supply of mineral to the potential buyers. The Project Proponent presented the data about Odisha's contribution to the India's Steel production and Iron Ore production. The Project Proponent informed the EAC that Odisha's contribution increased from 49.32% (FY 21) to 56.30% (FY 23). The EAC asked the Project Proponent about the State Govt. efforts to augment the road transportation. The Project Proponent informed the EAC that the Govt. of Odisha allotted the work to M/s Odisha Mining Corporation Ltd for infrastructure and logistics development. OMC on behalf of the Govt. of Odisha has engaged the KPMG to prepare the feasibility report and KPMG submitted the draft report to the Govt. of Odisha. Now, based on the draft feasibility report, OMC has engaged Grant Thornton Bharat to prepare detailed feasibility report with actionable points in which all the District Administrations are involved and is under process. The EAC was of the view that when the Govt. of Odisha was so serious to improve the road and infrastructure network why there is a need for night transportation. The Project Proponent informed the EAC it will take much time and that's why night transportation is mandatory.

The Project Proponent showed the ore transportation route and proposed mechanical evacuation system. The Project Proponent also showed the photographs of the road within the mine lease area. Further, the Project Proponent informed the EAC that fluorescent road signs provided at every turning point for guidance of drivers. Traffic supervisor will be deployed for night checking. Adequate numbers of single armed illumination pole will be installed with proper light shielding arrangement. The EAC asked the Project Proponent to present the certified compliance report. The EAC noted that there are certain non-compliances w.r.t improper collection arrangement of runoff water, details of sump capacity, water sprinkling, quality of discharge water etc., The Project Proponent informed the EAC that the action taken report for the non-compliances has been submitted to the Regional Office. The EAC noted that the Project Proponent has revised and updated the details of the non-compliances after the site visit by the Regional Office on 09.10.2023.

After detailed deliberations made by the Project Proponent and the Consultant, the EAC noted that the Project Proponent did not carried out any specific study w.r.t impact during night transportation. The EAC asked the Project Proponent to submit the specific mitigation measures w.r.t Wildlife during night transportation. The EAC also asked the Project Proponent to submit the letter from the State Forest Dept., regarding the movement of animals in the transportation route during night. Further, the EAC asked the Project Proponent to carry out the scientific study by the reputed institute regarding the carrying capacity of the road indicating the exact quantity to be transported during night time along with details of trips to and fro and the capacity of the dumper, design of the road, additional traffic on the road, timeframe required for night transportation depending on the infrastructure availability and also adverse impacts on the environment and wildlife due to night transportation. The EAC opined that the Project Proponent needs to submit the re verification report done by the Regional Office for the non-compliances. Based on the discussions held, the EAC **deferred** the proposal for want of following additional information:-

- i. The Project Proponent needs to carry out the scientific study by the reputed institute regarding the carrying capacity of the road indicating the exact quantity to be transported during night time along with details of trips to and fro, capacity of the dumper, design of the road, additional traffic on the road, timeframe required for night transportation depending on the infrastructure availability and also adverse impacts on the environment and wildlife due to night transportation.
- ii. The Project Proponent needs to submit the specific mitigation measures w.r.t Wildlife during night transportation.
- iii. The Project Proponent needs to submit the letter from the State Forest Dept., regarding the movement of animals in the transportation route during night.
- iv. The Project Proponent needs to submit the re verification report done by the Regional Office for the non-compliances.

v. The Project Proponent needs to submit the copy of the demand notice issued from the Office of the Deputy Director of Mines and proof of payment made against the demand notice.

vi. The Project Proponent needs to submit the copy of the certified past production details issued from the Office of the Deputy Director of Mines dated 18.09.2023 from the year 1993-94 to 2023-24 (Aug, 2023).

3.1.4. Deliberations by the EAC in current meetings

The Project Proponent informed the EAC that initially Environmental Clearance (EC) was obtained on 03.02.2009 for an annual production capacity of 91,20,000 tonnes (9.12 million tonnes) of Iron Ore over an area of 1590.8673 ha.

The Project Proponent further informed the EAC that one of the specific condition no: xx states that “Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral within the mine lease. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral within the mine lease shall not be overloaded. No transportation of ore outside the mine lease area shall be carried out after the sunset”

The EAC noted that the ML area is surrounded by the forest area and movement of wild-animal species have been frequently observed. Committee asked the PP to increase the truck size from 40 to 45 tonnes (Payload) in order to meet the transportation demand.

The EAC requested the PP to engage any reputed wildlife institute to carry out a study for recording the movement of elephant and other wild-animals . The study should also reflect existing Human-Wildlife conflict if any prevalent within the vicinity of the mine lease area. EAC also opined that PP needs to carry out a drone survey of the entire mine lease area and the transportation route. Based on above discussion, the EAC **deferred** the proposal for the want of following information :-

i. The PP needs to submit the implementable plan for increased truck size from 40 to 45 tonnes (Payload) in order to meet the transportation demand in day time.

ii. The PP needs to submit the clarification from DFO with regard to presence of Elephant and other wild-life movement within the mine lease area and in its vicinity.

iii. The PP needs to carryout a study to record the movement of elephants and other wild-animals within and near the mine lease area. The study should also reflect existing Human-Wildlife conflict if any prevalent within the vicinity of the mine lease area.

iv. The PP needs to submit the recorded drone video of the complete ML area and transportation route.

v. PP needs to submit the Data related to the movement of commercial vehicle at night and projected number of total commercial vehicle to be seperately mentioned after considering the truck size of 40-45 tonnes (Payload).

3.1.5. Recommendation of EAC

Deferred for ADS

3.2. Agenda Item No 2:

3.2.1. Details of the proposal

Revalidation of EC under MoEF&CC Notification S.O 1530(E) dated 06th April, 2018 for Lakheri Limestone Mi

ne (ML Area 1516.88 ha) with production capacity of 1.5 MTPA and waste/ topsoil 11.25 Lakhs CuM per annum (Maximum) with existing Wobbler and screening plant of 400 TPH at villages Gendoli Kala, GendoliKhurdh, Pholai, Gutha, Mahuwa, Dangaheri, Budel, Kankra, Chamavali, Uttarana, Lkaheri, Sakhoda, Nayagaon & Papadi, Tehsil: Indergarh&Kesoraipatan, District: Bundi, Rajasthan of M/s ACC Limited. by SANDEEP KUMAR located at BUNDI,RAJASTHAN

Proposal For		Application for Corrigendum	
Proposal No	File No	Submission Date	Activity (Schedule Item)
IA/RJ/MIN/462722/2024	J-11015/167/2018-IA.II(M)	15/02/2024	Mining of minerals (1(a))

3.2.2. Project Salient Features

The proposal is for Corrigendum in EC letter dated 29.12.2023 w.r.t. Specific Condition no. 3.2 w.r.t correction in area of diverted forest land as 208 ha in place of 201.88 ha for Lakheri Limestone Mine for Limestone production with capacity of 1.5 MTPA and waste/topsoil 11.25 Lakhs CuM per annum (Maximum) with existing Wobbler and screening plant of 400 TPH in the ML area of 1516.88 ha by M/s ACC Limited located at villages Gendoli Kala, GendoliKhurdh, Pholai, Gutha, Mahuwa, Dangaheri, Budel, Kankra, Chamavali, Uttarana, Lkaheri, Sakhoda, Nayagaon & Papadi, Tehsil Indergarh & Kesoraipatan, District Bundi, Rajasthan.

2. The Project Proponent has submitted the following information with regard to the corrigendum sought:

Ref of EC	Particular	Required Corrigendum	Remark
Specific Condition No 3.2	Mining activity is restricted to the Forest Land (201.88 ha) for which the Stage II FC is available as per Ministry's letter dated 27.12.2017 plus the non-forest land (1107 ha)"	Mining activity is restricted to the Forest Land (<u>208 ha</u>) for which the Stage II FC is available as per Ministry's letter dated 27.12.2017 plus the non-forest land (1107 ha)"	MOEF&CC (Forest Conservation Division) has rectified the same vide corrigendum dated 09.02.2024 and mentioned in Para no 3 of the said letters it is mentioned that " <u>Therefore instead of 201.88 ha as mentioned in Ministry letter no. 8-26/2003-FC dated 27.12.2017 it should be read as 208 ha and the remaining content of the letter no. 8-26/2003-FC dated 27.12.2017 remains the same</u> "

3.2.3. Deliberations by the committee in previous meetings

N/A

3.2.4. Deliberations by the EAC in current meetings

The PP/Consultant informed the EAC, that the instant proposal is for corrigendum in Specific Condition no 3.2 of Environmental Clearance (EC) dated 29.12.2023 w.r.t correction in diverted forest area of 208 ha in place of 201.88 ha.

The EAC noted that the Project Proponent has obtained the permission for the complete forest area of 409.88 ha on 27.12.2017 wherein it was mentioned that out of 409.88 ha of forest land in the lease, the

Forest Clearance under section 2 (ii) was granted for 201.88 ha in 2012. However, the Project Proponent has Forest Clearance under section 2 (ii) for 208 ha. The Forest Conservation Division in the Ministry vide letter dated 09.02.2024 has clearly mentioned that “instead of 201.88 ha as mentioned in Ministry letter no. 8-26/2003-FC vide dated 27.12.2017 should be read as 208 ha”.

In view of the above, the EAC **recommended** for corrigendum in Specific Condition no 3.2 of Environmental Clearance (EC) dated 29.12.2023 w.r.t correction in diverted forest area of 208 ha in place of 201.88 ha and the specific condition no. 3.2 shall be read as “Mining activity is restricted to the Forest Land (208 ha) for which the Stage II FC is available as per Ministry’s letter dated 27.12.2017 and 09.02.2024 plus the non-forest land (1107 ha)”.

3.2.5. Recommendation of EAC

Recommended

4. Any Other Item(s)

4.1.1. Details of the proposal

River Sand (Bajri) Mining Project with production capacity of 16,56,120 TPA located at Villages Bhawgarh, Balunda, Jarela, Mundiya, Nand Ganwadi, Pagara, Singola, Mahtabpura, Piplda Khurd, Boreda, Piplda Kalan, Arjunpura, Bislai, Gorela, Takariya Dhani, Gopalpura, Pali Tehsil Mangrol & Kishanganj, District Baran, Rajasthan in the Mining lease area of 329.90 ha of M/s Pramod Meena Baran – Reconsideration of Environmental Clearance. [File No. J-11015/166/2014-IA. II(M), Proposal No. IA/RJ/MIN/25563/2014] EIA Consultant: M/s Overseas Min-Tech Consultants located at Bhawgarh, Balunda, Jarela, Mundiya, Nand Ganwadi, Pagara, Singola, Mahtabpura, Piplda Khurd, Boreda, Piplda Kalan, Arjunpura, Bislai, Gorela, Takariya Dhani, Gopalpura, Pali, Baran, Rajasthan

Proposal For	Reconsideration of Environmental Clearance	
Proposal No	File No	
Proposal No. IA/RJ/MIN/25563/2014	File No. J-11015/166/2014-IA. II(M)	

4.1.2. Project Salient Features

The proposal is for Environmental Clearance for River Sand (Bajri) Mining Project with production capacity of 16,56,120 TPA in the Mine lease area of 329.90 ha by M/s Pramod Meena Baran located at Villages Bhawgarh, Balunda, Jarela, Mundiya, Nand Ganwadi, Pagara, Singola, Mahtabpura, Piplda Khurd, Boreda, Piplda Kalan, Arjunpura, Bislai, Gorela, Takariya Dhani, Gopalpura, Pali Tehsil Mangrol & Kishanganj, District Baran, Rajasthan.

4.1.3. Deliberations by the EAC in current meetings

The EAC noted that the Project Proponent’s letter dated 15.03.2024 regarding the change in scope of the proposal. Accordingly, the EAC **recommended** to return the proposal in present form.

4.1.4. Recommendation of EAC

Returned in present form

4.2.1. Details of the proposal

Mining of Sand (Minor Mineral) with production capacity of 0.42 MTPA in the mine lease area 360.97 ha, located at Revenue Villages of Baran TehsilUlthi, Majrawta, KalyanpurGhata, Ghisri, Hanotiya, Koyla, Shahgarh, Revenue Villages of Kishanganj TehsilKaglaBamori,Mehrawata, Rani Badod District Baran, Rajasthan by M/s Shri Mukesh Sharma- Reconsideration of Environmental Clearance (EC) [File No. J11015/408/2015-IA. II(M); Proposal No. IA/RJ/MIN/32677/2015] EIA Consultant: Enkay Enviro Services Pvt. Ltd. located at Baran TehsilUlthi, Majrawta, KalyanpurGhata, Ghisri, Hanotiya, Koyla, Shahgarh, Revenue Villages of Kishanganj TehsilKaglaBamori,Mehrawata, Rani Badod ,Baran,Rajasthan

Proposal For		Reconsideration of Environmental Clearance (EC)
Proposal No	File No	
Proposal No. IA/RJ/MIN/32677/2015	File No. J11015/408/2015-IA. II(M)	

4.2.2. Project Salient Features

The proposal is for Environmental Clearance for River Sand (Bajri) Mining Project with production capacity of 0.42 MTPA in the Mine lease area of 360.97 ha by M/s Shri Mukesh Sharma located at Revenue Villages of Baran TehsilUlthi, Majrawta, KalyanpurGhata, Ghisri, Hanotiya, Koyla, Shahgarh, Revenue Villages of Kishanganj Tehsil Kagla Bamori, Mehrawata, Rani Badod District Baran, Rajasthan. River area spreads in 10 Villages of Tehsil – Baran & Kishanganj.

4.2.3. Deliberations by the EAC in current meetings

The EAC noted that the Project Proponent's letter dated 23.11.2023 regarding the change in scope of the proposal. Accordingly, the EAC **recommended** to return the proposal in present form.

4.2.4. Recommendation of EAC

Returned in present form

4.3.1. Details of the proposal

Mining of Bajri(Minor Mineral) with proposed production capacity of 2.8 MTPA (ROM) in the mine lease area 905.206 ha, located at near revenue villages of Tehsil Pidawa, District Jhalawar, Rajasthan by M/s Shri Mukesh Sharma – Reconsideration of Environmental Clearance reg. [File No. J11015/113/2016-IA-II (M); Proposal No. IA/RJ/MIN/25369/2014] EIA Consultant: M/s Enkay Enviro Services Pvt. Ltd. located at villages of Tehsil Pidawa,Jhalawar,Rajasthan

Proposal For		Reconsideration of Environmental Clearance
Proposal No	File No	
Proposal No. IA/RJ/MIN/25369/2014	File No. J11015/113/2016-IA-II (M)	

4.3.2. Project Salient Features

The proposal is for Environmental Clearance for River Sand (Bajri) Mining Project with production capacity of 2.8 MTPA in the Mine lease area of 905.206 ha by M/s Shri Mukesh Sharmalocated at near revenue villages of Tehsil Pidawa, District Jhalawar, Rajasthan.

4.3.3. Deliberations by the EAC in current meetings

The EAC noted that the Project Proponent's letter dated 23.11.2023 regarding the change in scope of the proposal. Accordingly, the EAC **recommended** to return the proposal in present form.

4.3.4. Recommendation of EAC

Returned in present form

4.4.1. Details of the proposal

Bajri (Minor Mineral with capacity of 1.008 million TPA) Mining by M/s Chandak Associates located at near village Sureli (Khasra No. 1 and 1402) Tehsil Uniyara, District Tonk, Rajasthan (177.64ha)– For Environmental Clearance reg. [F.No. J-11015/179/2013-IA.II (M); Proposal No. IA/RJ/MIN/26462/2013] located at Sureli (Khasra No. 1 and 1402) Tehsil Uniyara, Tonk, Rajasthan

Proposal For

Environmental Clearance reg.

Proposal No

File No

Proposal No. IA/RJ/MIN/26462/2013

F.No. J-11015/179/2013-IA.II (M)

4.4.2. Project Salient Features

The Proposal is for Environmental Clearance for River Sand (Bajri) Mining Project with production capacity of 1.008 MTPA in the Mine lease area of 177.64ha by M/s Chandak Associates located at near village Sureli (Khasra No. 1 and 1402) Tehsil Uniyara, District Tonk, Rajasthan.

2. The Project Proponent has submitted the following information on the Parivesh portal:

- i. The Latitudes and Longitudes of the Mine Lease area are 26°06'04.29"N to 26°07'59.76'N and 76°01'05.66"E to 76°01'400.57"E respectively on Survey of India toposheet numbers 45 N/16 & 54 B/4. The Project is located in Seismic zone-II.
- ii. As per EIA Notification dated 14th September, 2006 as amended from time to time, the project falls under Category A or Activity 1(a) as the mining lease area is greater than 100 ha.
- iii. The proposal of TOR was considered by the Expert Appraisal Committee in its 9th Meeting held during 22nd - 24th July, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEF&CC vide letter No. J-11015/179/2013-IA.II (M), dated 13th September, 2013.

4.4.3. Deliberations by the EAC in current meetings

The EAC noted that the Project Proponent did not attend the EAC meeting at the scheduled time. Hence, EAC **deferred** the proposal.

4.4.4. Recommendation of EAC

Deferred for ADS

4.5.1. Details of the proposal

River Bed Mining (Bajri) with production capacity of 1.31 million TPA by M/s Shri Chandra Pal Singh s/o Shri Ganga Singh, located at Tehsil-Digod & Pipalda, District-Kota and Tehsil- Anta, District-Baran, Rajasthan (252.48ha) – For Environmental Clearance reg. [File No. J-11015/233/2014-IA.II(M); Proposal no. IA/RJ/MIN/25549/2014] located at Tehsil-Digod & Pipalda, District-Kota and Tehsil- Anta, District-Baran,Kota and Baran,Rajasthan	
Proposal For	For Environmental Clearance reg.
Proposal No	File No
Proposal no. IA/RJ/MIN/25549/2014	File No. J-11015/233/2014-IA.II(M)

4.5.2. Project Salient Features

The proposal is for Environmental Clearance for River Sand (Bajri) Mining Project with production capacity of 1.31 MTPA in the Mine lease area of 252.48ha by M/s Shri Chandra Pal Singh s/o Shri Ganga Singh located at Tehsil-Digod & Pipalda, District-Kota and Tehsil- Anta, District-Baran, Rajasthan.

2. The Project proponent vide letter dated 07.03.2024 submitted that their proposal was considered during the 32nd Meeting of EAC held during May 30-31st, 2018. The committee observed that the Terms of Reference (T.O.R) validity for aforesaid project was expired at the time of submission of the final report, and subsequently the project was deferred. Subsequently, ADS was generated on 15.02.2023, since the validity of T.O.R dated 29.10.2014 expired, the committee directed to apply fresh T.O.R at SEIAA as per the provision of EIA, 2006 notification and its subsequent amendments.

In compliance to the directions of EAC, and as per Gazette Notification S.O.1886 (E), dated 20th April, 2022, the Project proponent has applied for fresh TOR in SEIAA- Rajasthan with Proposal No. SIA/RJ/MIN/419277/2023 on 26.12.2023.

4.5.3. Deliberations by the EAC in current meetings

The EAC after deliberations noted and accepted the withdrawn request of proposal and hence, **recommended** to withdraw the same.

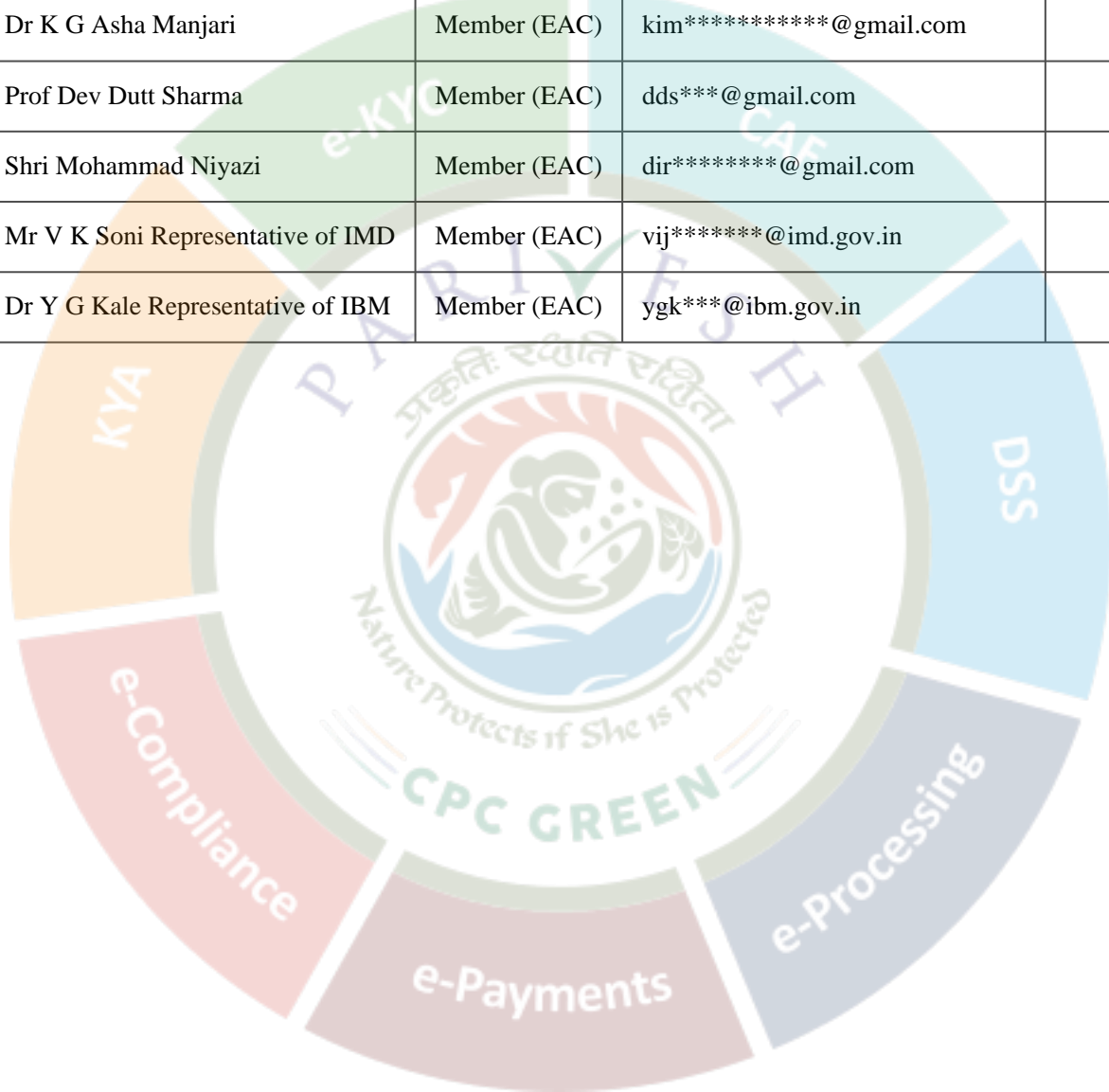
4.5.4. Recommendation of EAC

Returned in present form

5. List of Attendees

Sr. No.	Name	Designation	Email ID	Remarks
1	Mr Pankaj Verma	Scientist E	pan*****@nic.in	
2	Dr Dinesh Misra	IFS (Retired)	dmi*****@gmail.com	
3	Sh Niranjana Kumar Vasu	Member (EAC)	vas*****@gmail.com	

4	Dr Asha Rajvanshi	Member (EAC)	ash*****@gmail.com	
5	Shri Avijit Gosh	Member (EAC)	avi*****@gmail.com	
6	Shri Bandi Ramchandra Reddy	Member (EAC)	red*****@gmail.com	
7	Prof Pramod Kumar	Member (EAC)	nit*****@yahoo.com	
8	Prof Devesh Walia	Member (EAC)	dev*****@gmail.com	
9	Dr Suresh Tiwari	Member (EAC)	smb*****@gmail.com	
10	Dr K G Asha Manjari	Member (EAC)	kim*****@gmail.com	
11	Prof Dev Dutt Sharma	Member (EAC)	dds***@gmail.com	
12	Shri Mohammad Niyazi	Member (EAC)	dir*****@gmail.com	
13	Mr V K Soni Representative of IMD	Member (EAC)	vij*****@imd.gov.in	
14	Dr Y G Kale Representative of IBM	Member (EAC)	ygk***@ibm.gov.in	



**GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
(IMPACT ASSESSMENT DIVISION)
NON-COAL MINING SECTOR**

SUMMARY RECORD OF 28th MEETING OF THE COMMITTEE OF THE RE-CONSTITUTED EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF NON-COAL MINING PROJECTS CONSTITUTED UNDER THE EIA NOTIFICATION, 2006.

The 28th meeting of the Re-Constituted Expert Appraisal Committee (EAC) for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment, Forest and Climate Change was held during 14-15th March, 2024 through video conference. The list of participants is annexed herewith. After login of the Committee Members through video conference link provided by NIC discussion on each of the Agenda Items was taken up ad-seriatim.

(1.0) Deliberation & Circulation on the Minutes of 27th EAC (Non-Coal Mining) meeting held during 20th February, 2024 & 21st February, 2024.

The minutes of the 27th Meeting of the EAC (NoN-Coal) held during 20th February, 2024 & 21st February, 2024 were placed before the members of the EAC and confirmed by the Chairman.

Day 1: 14th March, 2024 (Thursday)

1.1 Chettichavadi Jaghir Magnesite and Dunite Mine with total excavation of 1.4 MTPA which includes 0.06 million tons of Magnesite, 0.12 million tons of Dunite and others (waste, O.B, Inter Burden, Top Soil etc.) in the mine lease area of 449.364 ha of M/s. Dalmia Bharat Sugar and Industries Limited located at Chettichavadi Village, Salem Taluk, Salem District, Tamil Nadu - For Reconsideration of Environmental Clearance reg [Online proposal no. IA/TN/MIN/241375/2018; File No. 23-227/2018-IA.III(V)][Consultant: Aadhi Boomi Mining & Enviro Tech (P) Ltd] - Environmental Clearance (Violation)]

The instant proposal is for grant of Environmental Clearance (under violation category) for Chettichavadi Jaghir Magnesite and Dunite Mine with total excavation of 1.4 MTPA which includes 0.06 million tons of Magnesite, 0.12 million tons of Dunite and others (waste, O.B, Inter Burden, Top Soil etc.) in the mine lease area of 449.364 ha of M/s. Dalmia Bharat Sugar and Industries Limited located at Chettichavadi Village, Salem Taluk, Salem District, Tamil Nadu.

2. The details of the project as ascertained from the document submitted by the Project Proponent and as revealed from the discussions held during the meeting are given as under:

- i. The mine lease area is located between Latitude: 11°43'09.71"N to 11°44'36.233"N and Longitude: 78°07'23.268"E to 78°09'13.068" E. The mine lease area falls under the Survey of India Toposheet No: 58 I/2 and falls in Seismic Zone-III.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mine lease area is greater than 250 ha and appraised at the Central level.
- iii. The Project Proponent obtained Terms of Reference (ToR) vide ToR Lr.No: 23-227/2018-IA.III(V) dated 05.02.2021 for mining of Magnesite and Dunite in Chettichavadi Jaghir Magnesite and Dunite Mine for Total Excavation of 1.4 million Tonne per annum (MTPA)/[including 0.06 million tons of Magnesite, 0.12 million tons of Dunite, Waste, O.B, Inter Burden, Top Soil etc.] in the mine lease area of 449.364 ha under Ministry's Notification dated S.O 804(E) dated 14.03.2017.
- iv. The proposal was earlier considered in the 43rd EAC (Non-Coal Mining) meeting held during 14 -16 December, 2021 wherein the EAC deferred the proposal for want of requisite information. The Project Proponent submitted the information on 11.03.2022 in Parivesh. However, the Project Proponent did not comply to the observation of EAC and in view of the above additional details were sought by the Ministry on 27.04.2022, 22.08.2022, 12.09.2022, 04.10.2022 and 22.11.2022 to provide the valid mine lease document. The Project Proponent submitted the desired information on 21.12.2022 in Parivesh. The proposal was again reconsidered in the 9thEAC (Non-Coal Mining) meeting held during 17-18 January, 2023 wherein the EAC deferred the proposal for want of requisite information, accordingly, PP submitted the information on 01.09.2023 in Parivesh Portal. The proposal was then reconsidered in the 20th EAC (Non Coal Mining) meeting held during 21-22nd September, 2023 wherein the Committee asked the Project Proponent to submit the proof of payment of Rs. 18.69 crore as per Dept. of Geology and Mining, Guindy letter dated 09.12.2022 for further consideration of the instant proposal before the EAC. The Project Proponent submitted the information vide its letter dated 19.02.2024 on Parivesh Portal. Accordingly, the proposal was again reconsidered in the 28th EAC meeting held during 14-15th March, 2024.
- v. Based on observation of EAC in its EAC meeting held during 21-22September, 2023, the PP provided the following information:-

S. No.	Observation of EAC in its meeting held during 21-22 September, 2023	Reply by Project Proponent
1.	The EAC asked the Project Proponent to submit the proof of payment of Rs. 18.69 crore as per Dept. of	The said demands were being contested by the company before Hon'ble High Court of Madras In W.A.834 of 2020 (w.r.t to Rs.11.44

	<p>Geology and Mining, Guindy letter dated 09.12.2022 for further consideration of the instant proposal before the EAC.</p>	<p>Crore demand) and W.P.32057 of 2023 (w.r.t to Rs.7.24 Crore demand).</p> <p>In this context, we are herewith submitting order of the Honorable Madras High Court dated 15.02.2024 In respect of W.A.834 of 2020 (w.r.t to Rs.11.44 Crore demand) and W.P.32057 of 2023 (w.r.t to Rs.7.24 Crore demand) heard along with W.A.671 and batch.</p> <p>The operative portion of the said Order reads as under</p> <p><i>“(i) The impugned order passed by the learned Single Judge at the Principal Seat is quashed and set aside;</i></p> <p><i>(ii) The Impugned orders/memos imposing 100% penalty/cost upon the appellants/petitioners shall be construed as show-cause notices;</i></p> <p><i>(iii) The appellants/petitioners shall file reply to the said show-cause notices, along with all the relevant documents on which they rely, within a period of four weeks from today; and</i></p> <p><i>(iv) The authority shall consider the reply filed by the appellants/petitioners individually and pass fresh orders with regard to imposing of penalty/cost or otherwise.”</i></p>
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vi. SEIAA/SEAC has approved the DSR for the Mineral Dunite and details has been mentioned below:

Date of application	Proposal No/ File No	Consideration by SEAA/SEAC	Details of EC	Date of accord
31 st Jan 2023/ 23 rd Feb 2023	-	597 th Meeting of SEIAA dated 27 th Feb 2023	-	-
	File No. C.No. 6013/2023	361 st SEAC meeting dated 10 th March 2023	-	
		379 th SEAC meeting dated 12 th May 2023		

		380 th SEAC meeting dated 17 th May 2023		
	C: No 6011/ 2013	627 th SEIAA meeting dated 6 th June 2023	Approved the DSR for Dunite	6 th June 2023

vii. **Details of Mine Lease in chronological manner:**

S. No	Details of grant of Mine Lease deed execution	Period of Grant		Name of the Mineral	Mine lease area in Ha
		From	To		
1	G.O.Ms.No.903 dt.25.02.1966.	1966	1986	Magnesite	574.46 Ha
2	G. O.Ms.No.801 dt. 26.06.1976.	1976	1986	Dunite	574.46 Ha
3	G.O.Ms.No.74 dt. 11.03.1997.	1986	2006	Magnesite & Dunite	531.98 Ha
4	Application No: SL: GO:55200(1) 11-07-2005.	-	-	Magnesite & Dunite	449.364 Ha.
5	Letter from Dept of Geology and Mining vide Lr.No.TN RC No: 1355/MM9/2006 dated 09.12.2022 for validity of lease (till 31.03.2030), as per Sec 8(A)(5) of MMDR(Amendment) Act-2015.	-	31.03.2030	Magnesite & Dunite	449.364 Ha.

viii. **Land Use/Land Cover of the Mine Lease Area:**

Private land	-
Government land	449.364 Ha Unassessed Dry Waste Land Belonging to Government.
Forest land	-
Total Mining lease area (MLA), ha	449.364 Ha
Private land for crusher, workshop & other infrastructure outside the MLA	Nil

ix. **Mining plan details:**

Mining Plan including Progressive Mine Closure Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	TN/SLM/ MG& DU/ ROMP-1646-MDS.
	Date	30.03.2021
	Mineral & (Major/Minor)	Major – Magnesite Minor - Dunite

	Mine Lease Area	449.364 Ha.
	Mining Plan Validity	2021-2022 to 2025-2026.
Additional information (if any)		
Mining Parameters		Quantitative Description
Method of Mining		Open Cast Semi Mechanized Mining
Drilling/Blasting		Deep Hole Drilling 100-104 mm Dia & Small Dia 25 mm Dia Holes.
Geological Reserves		Magnesite-11.015979 Million Tonnes, Dunite – 32.165161 Million Tonnes.
Mineable Reserves		Magnesite-11.015979 Million Tonnes, Dunite – 32.165161 Million Tonnes.
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/ Waste, MTPA)		Magnesite : 61913 T/yr (0.06 MTPA) Dunite : 141436 T/yr (0.14 MTPA) Waste : 1211009 T/yr (1.2 MTPA) Total ROM/Excavation: 1414358 T/yr (1.4 MTPA)
Life of mine		100 Years
Mine Bench Height & Bench Width		7.5 Mtr Height, 15- 20Mtr Width
No. of Mine Benches		4-5 Average.
Existing Depth, m bgl		20m
Ultimate Depth of Mining, m bgl		320m RL above MSL
Ground Water Table, m bgl		325m & 335mRLaboveMSL.
Details of ground water intersection		Not applicable
Individual bench slope		60° from Horizontal.
Overall pit slope		45°
Details of existing/ proposed Crusher		Nil
Mineral Beneficiation		Not in Mine lease area, but done in Factory.
RoM output size		14,00,000Tonnes.
Transportation details including capacity of dumper/tipper, mode of transport and distance		ROM by Dumpers& Mineral by 10 Tonners.
Generation of Topsoil/OB & its Management during plan period & conceptual period		No Top Soil Generation. OB is stored in spoil dumps for future use.
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period		Mineral rejects are stacked separately and sold as per market demand.

x. Water requirement:

Total water requirement	70 KLD	Fresh water	70 KLD
		Treated water	
Source	BORE WELL		
Permission for withdrawal/ intersection along with details of grant and its validity	OT8/AG-2/33/2023/Renewal-NOC/SLM/2023 dated 20.02.2023 valid upto 17-Nov-2025.		

xi. Nearest village/town/ highway/interstate boundary/railway station/water bodies/monument/ forest

Particulars	Particular's Name	Distance & Directions		
Village	Chettichavadi	850m (E)		
Town	Salem	10 Km		
Highway	NH 7 - Salem – Bengaluru. SH 188 – Salem – Yercaud. Muthanaickanpatti Road (Salem)	5.0 km – SW. 3.12km – SE MDR 696. 6.0km - SW.		
Interstate Boundary	N/A.	N/A.		
Railway Station/Railway line	Salem Junction Railway Station	6 km (S)		
Water Bodies	S.No	Water Body	Direction	Distance
	1	Kannankurichi Lake	SE	4.7
	2	KannankurichiPuthueri	SE	4.64
	3	Thathampatti lake	SE	7.97
	4	Mariamman temple	SE	8.75
	5	Selathampattiyeri	SW	7.05
	6	Lake near	SW	1.12
	7	Lake near NH 7	SW	2.9
	8	Lake near Indiranagar	SW	3.14
	9	Pallapatti Lake	S	6.50
	10	Arisipalayam lake	S	7.07
	11	Kumaragiri lake	S	8.5
	12	Lake near	W	10
	13	Lake near Anaigoundampatty	W	7.7
	14	Samuthiram Lake	W	4.40
	15	Lake near Pagalpatti	W	6.21
	16	Lake near	NW	8.1
	17	Lake near	NW	7.64
	18	Lake near	NW	7.72
19	Lake near Vattakkadu	N	4.40	

Forest	Nagarmalai RF	Nagarmalai RF
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xii. Presence of Environmentally Sensitive areas in the study area:

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks																														
Forest Land within the mine lease area and (if yes) status of Forest Clearance	NO																															
National Park	NO																															
Wildlife Sanctuary	NO																															
Elephant/Tiger Reserve	NO																															
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area (ESA)	NO																															
Coastal Regulation Zone (CRZ)	NO																															
Schedule-I species (Nos and name of schedule-I species with authenticated letter)	Yes	<p>Revised letter from the Forest Range Officer, TN Forest Department was obtained mentioning the type of Schedule I Species in the study area of 10 Km Radius vide Letter no. C.No.228/2021 dated 13th Feb 2023.</p> <p>As per the list 18 nos. of Schedule-1 Sp. are reported:</p> <table border="1"> <thead> <tr> <th>Sn</th> <th>Common Name</th> <th>Zoological Name</th> </tr> </thead> <tbody> <tr> <td></td> <td>Mammals</td> <td></td> </tr> <tr> <td>1.</td> <td>Gaur</td> <td><i>Bos Gaurus.</i></td> </tr> <tr> <td>2.</td> <td>Jungle Cat</td> <td><i>Felis Chaus</i></td> </tr> <tr> <td>3.</td> <td>Mouse Deer</td> <td><i>Tragulus Meminna.</i></td> </tr> <tr> <td>4.</td> <td>Spotted Deer</td> <td><i>Axis Axis.</i></td> </tr> <tr> <td>5.</td> <td>Jackal</td> <td><i>Canis Aureus</i></td> </tr> <tr> <td>6.</td> <td>Bonnet-Monkey</td> <td><i>Macaca Radiada</i></td> </tr> <tr> <td>7.</td> <td>Devangloris</td> <td><i>Slender Loris (Loris Lydekkerianus)</i></td> </tr> <tr> <td>8.</td> <td>Pangolin</td> <td><i>Manis crassicaudata</i></td> </tr> </tbody> </table>	Sn	Common Name	Zoological Name		Mammals		1.	Gaur	<i>Bos Gaurus.</i>	2.	Jungle Cat	<i>Felis Chaus</i>	3.	Mouse Deer	<i>Tragulus Meminna.</i>	4.	Spotted Deer	<i>Axis Axis.</i>	5.	Jackal	<i>Canis Aureus</i>	6.	Bonnet-Monkey	<i>Macaca Radiada</i>	7.	Devangloris	<i>Slender Loris (Loris Lydekkerianus)</i>	8.	Pangolin	<i>Manis crassicaudata</i>
Sn	Common Name	Zoological Name																														
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7.	Devangloris	<i>Slender Loris (Loris Lydekkerianus)</i>																														
8.	Pangolin	<i>Manis crassicaudata</i>																														

		9.	Palmcivet	<i>Paradoxurus hermaphrodites</i>
		10.	Porcupine	<i>Hyxtrix Indica</i>
			Birds	
		11.	Common Peafowl	<i>Pavo Cristatus</i>
		12.	Crested Serpent Eagle	<i>Spilansis Cheela</i>
		13.	Laggar Falcon	<i>Falco Biarmicusjuggerr</i>
		14.	Harriers Circus	<i>Circus Aerunginosus</i>
		15.	White Scavenger Vulture	<i>Neophron Percnopterus</i>
		16.	White Eyed Buzzard	<i>Butastur Teesa</i>
			Reptiles	
		17.	Python	<i>Python Molurus.</i>
		18.	Russel Viper	<i>Vipera (Daboia) russelli</i>
Wildlife Conservation Plan	Yes	Wildlife Conservation Plan along with the budgetary Provisions with timeline for implementation has been prepared and submitted to DFO, TN, Forest Department, Salem vide our Letter SL:MM:26150.A dated 9 th March 2023 and obtained acknowledgement.		

xiii. Green belt/plantation details:

Proposed area for green belt/plantation and no. of saplings proposed	13.2 Ha/ 19800 saplings
Budget for green plant & plantation till the end of life of mine.	Rs.13,50,000/-
Budget for nursery	Rs.2,00,000 per Annum
Details of existing plantation and its survival rate	67674 with Survival rate of 60-70% as on February 2024.
No. of tree cuts in the mine lease area and compensatory afforestation	N.A.

Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	15 Ha
50 m safety zone of nallah, roads, electric lines	1.5 Ha
500 m safety zones of nearest habitation villages	5 Ha

xiv. Baseline detail:

Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)	
Period of baseline data collection	December 1 st , 2020 to February 28 th 2021
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Winter Season
Predominant Wind direction (From)	From SW, S and SE
Ambient Air Quality (no. of locations) and results	6 locations PM10 – 39µg/m ³ to 60µg/m ³ PM2.5 – 19µg/m ³ to 33 µg/m ³ SOx – 4µg/m ³ to 13µg/m ³ NOx – 8µg/m ³ to 19µg/m ³
Noise level (no. of locations) and results	5 locations 40.8 to 46.2 dBA for the day time and 34.1 to 41.8 dBA for the Night time
Water Quality (no. of locations) and results	6 locations pH: 7.43-9.48, TDS – 334 mg/l to 906 mg/l Total Hardness: 190 mg/l to 280 mg/l Chlorides: 22 mg/l to 58 mg/l Heavy metals – Fe - 0 To 0.12 mg/l
Soil Quality (no. of locations) and results	6 locations pH – 7.46 to 8.64 moisture – 5.46% to 6.56% bulk density – 1.21g/cc to 1.47mg/l organic matter – 0.31% to 0.76% Water holding capacity – 47% to 56%
Hydro geological study and results	The detailed Hydro geological study is given in Page No 130(i) to 130(xxxviii) of Final EIA report (Volume I)
Traffic study (no. of locations) and results	<ul style="list-style-type: none"> Traffic study has been conducted at Single lane village hard road which passes into the lease area. Transportation of raw material, fuel &

<p>finished product will be done 80% by road.</p> <ul style="list-style-type: none"> Existing PCU is 68 PCU/day on Single lane village hard road and existing level of service (LOS) is: 				
Road	V (Volume In PCU/day)	C (Capacity In PCU/day.)	Existing V/C Ratio	LOS
Single lane village hard road	68	2500	0.0272	2.72
<ul style="list-style-type: none"> PCU load after proposed project will be 68 (Existing) + 45(Additional) = 113 PCU/hr and level of service (LOS) will be: 				
Road	V (Volume In PCU/Day)	C (Capacity In PCU/day)	Proposed V/C Ratio	LOS
Single lane village hard road	113	2500	0.0452	4.52
<p><i>*Note: Capacity as per IRC 73:1980 Guideline for Capacity for roads.</i></p> <p>Conclusion: The level of service will be 4.52 after including additional traffic due to proposed project.</p>				

xv. Public Hearing (PH) Details:

Advertisement for PH with date (name of major national daily and one regional vernacular daily newspaper)	01.08.2021
Date of PH	03.09.2021
Venue	Dalmia Old Colony Canteen Building. Opp. Wiegh Bridge. Chettichavadi Village, Salem West Taluk, Salem District, TAMIL NADU-636012.

Chaired by	Dist. Collector & District Environmental Engineer, TNPCBD.
Main issues raised during PH	Employment for the local villages.
Budget proposed for addressing issues raised during PH over 3 years	Rs.39.14 Lakhs.
Additional information (if any)	

xvi. Details of CTE/CTO, Certified Compliance Report, Certified Production Details from the inception of the mine:

Particulars	Details of Letter along with date of grant and validity
Consent to Establish	-
Consent to Operate	-
Certified Compliance Report and Inspection date	-
Certified Production Details from the inception of the mine (in tabular form against the EC capacity)	The Duly Authenticated Production Details from 1979-80 to 2018-19 as per the Certificate issued by Dept of Geology and Mining Salem vide letter ROC.45/2018/Mines-A dated 11.12.2018 is submitted in Final EIA/EMP Report, Table format of certified production against EC has been submitted as per standard format.

xvii. Rehabilitation & Resettlement (R&R):

R & R details	NA
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xvii. Court case details:

Court Case, No and its present status	<p>Detail of total 9 court cases are mentioned below:</p> <ol style="list-style-type: none"> 1. W.P.25518/2006 Madras HC 2. Writ Petition No.29275 of 2016 Madras HC 3. Writ Petition (Civil) No. 114 of 2014 of Supreme Court 4. District Collector, Salem has also raised another demand vide order dated 8th July, 2020 directing project proponent to pay sum of INR 7.24 Crore on the quantity of Magnesite mined without EC for the period 1st April, 2000 to 31st August, 2018. 5. District Collector"s demand of surface compensation of Rs.79,88,39,062 from 20.08.1966 till 31.10.2017.
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	<p>6. Show cause vide Proceeding Letter No.SLM0006/DEE/TNPBC/S LM/RL/2014, dated 03.06.2014 by Tamil Nadu State Pollution Control Board U/s 19 of Environment Protection Act.</p> <p>7. Show Cause vide Proceeding Letter No.FEF/TNPBC/SLM/F/006 /20 by Tamil Nadu State Pollution Control Board U/s 19 of Environment Protection Act dated 4th May, 2020.</p> <p>8. Show cause Notice dated 5thFebruary, 2013 under Water Act. Show cause Notice dated 5thFebruary, 2013 under Air Act.</p> <p>9. Environmental Activist Mr.S.Sakthivel filed a petition before the Hon^{ble} NGT (SZ) raising certain Environmental issues against 6 respondents.</p>
Undertaking by Project Proponent w.r.t court case.	Affidavit Sworn on 22.04.2023 in a non-judicial stamp of Rs 100 bearing No. CZ – 744433 dated 21.04.2023.

xviii. Affidavit/Undertaking details:

Affidavit as per Ministry's OM dated 30.05.2018.	Affidavit Sworn on 22.04.2023 in a non-judicial stamp of Rs 100 bearing No. CZ – 744433 dated 21.04.2023.
Undertaking by Project Proponent in EIA/EMP report	The Project Proponent has submitted an undertaking vide Ministry's OM dated 05.10.2021.
Undertaking by Consultant in EIA/EMP report	Undertaking by the Environment consultant has been submitted as per Ministry's OM dated 04.08.2009.
Plagiarism Certificate	

xix. Details of the Environmental Management Plan (EMP):

S.no.	Activities	Capital cost (INR)	Recurring cost (Lakhs/annum)
1	Safety kits for 320 persons @ Rs 1000 per head	Rs. 3,20,000	Rs.2,00,000
2	Water Sprinkling & Spraying	Rs.15,00,000	Rs.8,00,000
3	Afforestation for @ 75 per tree	Rs. 3,00,000	Rs.3,00,000
4	Noise & Vibration	--	Rs.2,50,000
5	Air Quality Monitoring and Water Testing	-	Rs.1,50,000
6	Drainage- Parapet -Retention Wall	Rs. 5,00,000	Rs.3,00,000

	Total	Rs 26.2 Lakhs	Rs.20.0 Lakhs
Summary of cost allocated for Remediation plan, NRAP, CRAP			
Sn	Description	Estimated cost (Rs.in Lakhs)	
1	Remediation Plan	Rs.162.50/-	
2	Natural Resources Augmentation Plan	Rs.236.00/-	
3	Community Resources Augmentation Plan	Rs.208.44/-	
	Sub-Total	Rs.606.94	
4	Budgetary provisions to implement the commitment based on Public Hearing	Rs.39.14/-	
	Total	Rs. 646.08/-	

xx. Details of project cost and employment:

Particulars	(Rs. In Crore)
Total cost of EMP (Capital Cost of EMP + capital cost of Public hearing)	0.653 crore (0.262 + 0.3914)
Project Cost	19.57 crore
Employment (No.s)	350 Persons.
	As per the Chapter 13 of Vol I of EIA Report.

3. Observation and Recommendation of the Committee:

The instant proposal is for Environmental Clearance under violation category. The proposal was earlier considered in the EAC meeting wherein the Committee asked the Project Proponent to submit the proof of payment of Rs. 18.69 crore as per Department of Geology and Mining, Guindy letter dated 09.12.2022. The Project Proponent informed the EAC that they have contested against the demand raised by Department of Geology and Mining before Hon'ble High Court of Madras in W.A. Nos. 834 of 2020 (w.r.t to Rs. 11.44 Crore demand) and W.P. Nos. 32057 of 2023 (w.r.t to Rs. 7.24 Crore demand). PP also informed the EAC that Hon'ble Madras High Court vide order dated 15.02.2024 had construed the impugned orders/memos imposing 100% penalty/cost upon the appellants/petitioners as show-cause notices. The Hon'ble Court further directed the Project Proponent to file its reply on the above said show-cause notices within a period of four weeks.

In view the above submissions made by the PP, the EAC **deferred** the proposal and asked the Project Proponent to submit the following additional details

- i. PP needs to submit the copy of the reply of the show cause notice that it submitted to Department of Mines and Geology.
- ii. PP needs to submit the present status report in the matter from DMG, Tamil Nadu.

- iii. PP needs to submit the chronology of existing court cases along with the replies filed by it and the state authorities.

1.2 Expansion of Sanu-I Limestone Mining Project with enhancement in production capacity from 3.3 to 3.848 MTPA (less than 20%) in second phase which includes keeping ROM SMS grade Limestone resource- 3.3 MTPA same (SMS Grade Limestone-1.50 MTPA) & recovery of mineral from Handling of old backfilled limestone size reject dumps (0-30 mm size) - 0.548 MTPA along with Crushing (1X300 TPH, 1X250 TPH, 1X200 TPH, 1X150 TPH), Screening plant (2X300TPH, 2X250TPH, 2X200TPH) In the ML area of 1000 ha (ML No. 27/1996) by M/s Rajasthan State Mines and Minerals Limited located near Village Sanu, Sub Tehsil Ramgarh, Tehsil Sam (Old Tehsil Jaisalmer), District Jaisalmer, Rajasthan – For Environmental Clearance under OM dated 11.04.2022 (Stage-II expansion) reg [Online Proposal No. IA/RJ/MIN/458597/2024, File No. J-11015/42/2006-IA. II (M)]EIA Consultant: Fulgro Environmental & Engineering Services India Pvt. Ltd.

The instant proposal is for expansion of Sanu-I Limestone Mining Project with enhancement in production capacity from 3.3 to 3.848 MTPA (less than 20%) in second phase which includes keeping ROM SMS grade Limestone resource- 3.3 MTPA same (SMS Grade Limestone-1.50 MTPA) & recovery of mineral from Handling of old backfilled limestone size reject dumps (0-30 mm size) - 0.548 MTPA along with Crushing (1X300 TPH, 1X250 TPH, 1X200 TPH, 1X150 TPH), Screening plant (2X300TPH, 2X250TPH, 2X200TPH) In the ML area of 1000 ha (ML No. 27/1996) by M/s Rajasthan State Mines and Minerals Limited located near Village Sanu, Sub Tehsil Ramgarh, Tehsil Sam (Old Tehsil Jaisalmer), District Jaisalmer, Rajasthan.

2. The details of the project as ascertained from the document submitted by the Project Proponent and revealed from the discussions held during the meeting are given as under:

- i. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category “A” of the schedule of the EIA Notification, 2006 and appraised at the Central level.
- ii. The mine lease area is located between Latitude 27°19'39.37"N to 27°19'40.13"N & 27°16'43.77"N to 27°16'44.53"N and Longitude 70°33'47.35"E to 70°33'49.81"E & 70°34'54.62"E to 70°34'57.11"E. The mine lease area falls under the Survey of India Toposheet No: 40 I/11 and falls in Seismic Zone-III.
- iii. Earlier, the Project Proponent obtained following Environmental Clearance as tabulated below:

S.No.	Details of EC obtained in the favour of M/s Rajasthan State Mines & Minerals Ltd. (RSMML)	Letter No. & Date
1.	Environment Clearance over an area of 1000 ha for 1.25 MTPA of Steel Grade Limestone.	Vide letter no. J-11015/42/2006-IA. II

		(M) dated 03.08.2007
2.	Amendment in EC for enhancement in life of mine from 31.03.2016 at maximum annual production capacity of 12.5 LTPA as in the IBM approved Mining Plan/Scheme of Mines, the balance estimated reserves has been enhanced based on the additional exploration during scheme of mining (SOM) period & resulted the mineral reserves of probable/possible category falling under proved category.	Vide letter no. J-11015/42/2006-IA. II (M) (Pt.) dated 22.03.2017.
3.	Further obtained Amendment in EC for enhancement in the production capacity of SMS Grade Limestone from 1.25 MTPA to 1.50 MTPA along with ROM handling of Limestone from 2.799 MTPA to 3.30 MTPA.	Vide Letter no. F. No. J-11015/42/2006-IA. II (M) dated 23.06.2021.

iv. Details of Mine Lease in chronological manner:

Grant	From	To	Lease deed execution date	Lease registration date
Initial Grant (30 Years)	01/04/1997	31/03/2027	22/07/2010	30/07/2010
Extension	From	To	Renewal date	
1st (Deemed renewal from the initial grant)	01/04/1997	31/03/2047	15/11/2018	

v. Land Use/Land Cover of the Mine Lease Area:

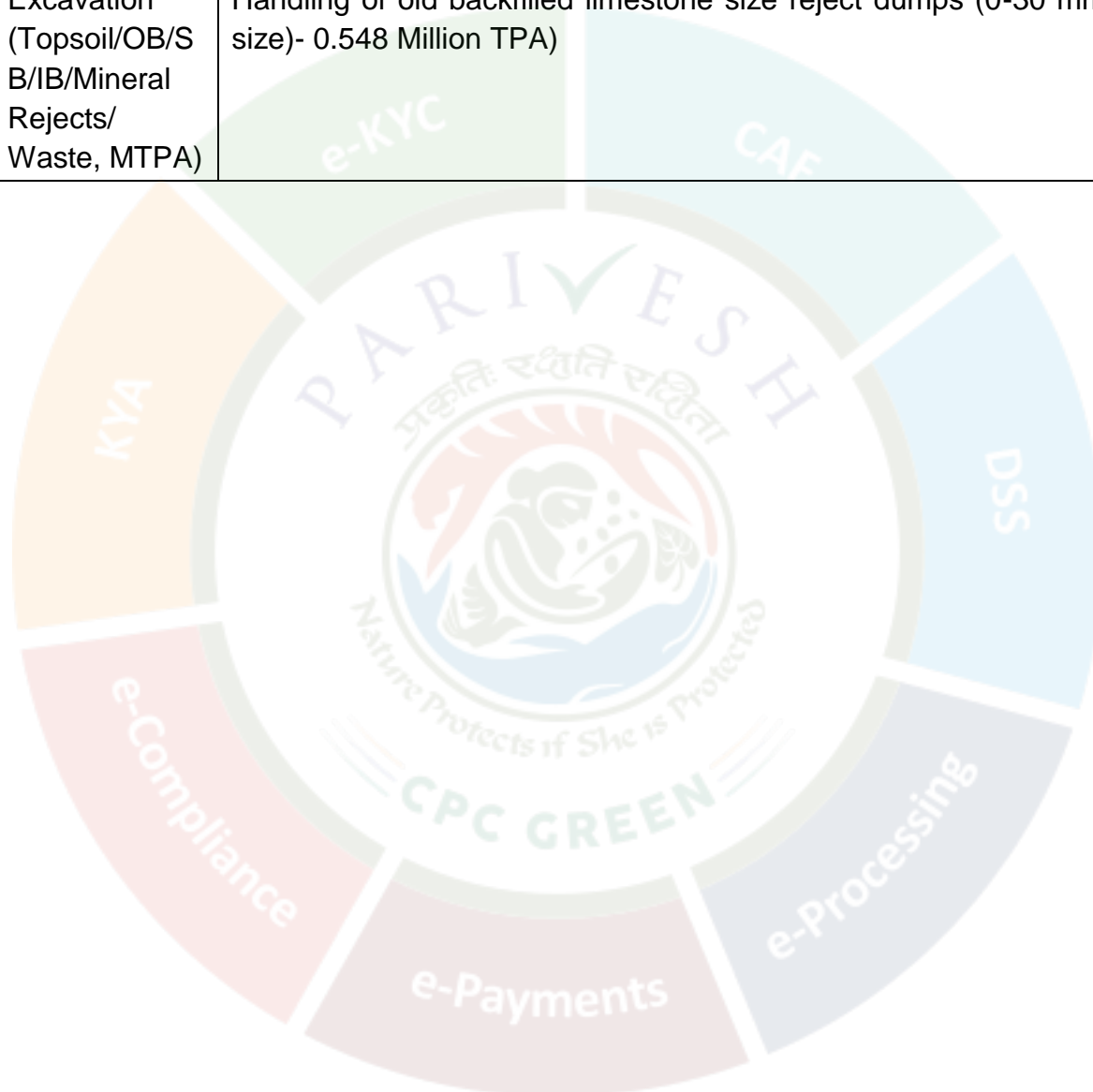
Private land	ML Area: 1000 Ha.
Government land	
Forest land	0 Ha.
Total Mining lease area (MLA), ha	1000 Ha.
Private land for crusher, workshop & other infrastructure outside the MLA	NA

vi. Mining plan details

Mining Plan including Progressive Mine Closure Plan (approved by	Letter No.	MCDR-MPCOLST/2/2023-AJM-IBM_RO_AJM
	Date	09/06/2023
	Mineral & (Major/Minor)	Limestone (Steel Grade & Cement Grade) and Major
	Mine Lease Area, Ha	1000 Ha.

Indian Bureau of Mines/DMG)	Validity	2026-27				
Additional information (if any)	Approval of Earlier Mining Plan & Its Subsequent Review In Chronological Order					
	S. No.	Letter Number	Date	Period		Type of Approved Document
				From	To	
	1	326/108/ZN-28/90-MCCM(NZ)	14/06/1991	01/04/1991	31/03/1996	Mining plan
	2	584(6)(3)(15)/96 RCMAJM	20/08/1997	01/04/1996	31/03/2001	Scheme of Mining
	3	584(6)(3)(94)/2001RCM-AJM	04/02/2002	01/04/2001	31/03/2006	Scheme of Mining
	4	584(6)(3) (94-PMCP/2004-AJM	28/01/2005	01/04/2004	31/03/2006	Scheme of Mining
	5	584(6)(3) MS-259/2006AJM	09/09/2006	01/04/2006	31/03/2012	Scheme of Mining
	6	584(6)(3) (391)/2011-RCOM-AJM	13/06/2012	01/04/2012	31/03/2017	Scheme of Mining
	7	584(6)(3) (1667)/2016-RCM-AJM	16/12/2016	01/04/2017	31/03/2022	Review Of Mining Plan
8	584(6)(3) (1763)/2018-RCM-AJM	14/12/2018	01/04/2018	31/03/2022	Modification Of Mining Plan	
9	584(4)(3) (1899)/2021-22RCM-AJM	29/03/2022	01/04/2022	31/03/2027	Review Of Mining Plan	
Mining Parameters	Quantitative Description					
Method of Mining	Open cast Mechanized					

Drilling/Blasting	Drilling/Blasting
Geological Reserves	392.47 MT (Million Tonne)
Mineable Reserves	16.35 MT (Million Tonne)
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/Waste, MTPA)	Total Material handling 3.848 Million TPA (ROM SMS grade Limestone resource- 3.3 Million TPA recovery of mineral from Handling of old backfilled limestone size reject dumps (0-30 mm size)- 0.548 Million TPA)



S. No.		Product	Capacity mentioned in the EC dated 3rd Aug 2007 & 23rd June 2021	Existing Capacity as per EC (MILLION TPA) dated 3rd Aug 2007 & 23rd June 2021	Proposed Capacity (MILLION TPA)	Remark/End use
1		SMS Grade Limestone (30 to 80 mm particle size) as per EC granted by MoEF & CC vide letter no. J-11015/42/2006-IA.II (M) dated 3rd August 2007	1.25	1.50	1.50	End use: Steel industries
2	2a	Mineral Size Reject (10 mm-30 mm)	1.559	1.8	1.8	End use: cement, power & other industries

	2b	Screen Reject Limestone less than 10 mm particle size)				End use: Market is yet to be established.
	3 (1+2)	ROM (Limestone Resources)	2.799	3.30	3.3	
Note: As per amended EC granted by MoEF & CC vide F. No. J-11015/42/2006-IA. II (M) dated 23rd June 2021						
4	4.1	Size mineral rejects (10-30 mm size)	0	0	0.3288	End use: cement, steel, power plants & other industries
	4.2	Reject (0-10 mm Size)	0	0	0.2192	End use: backfilled or dispatch subject to Market demand
	4.0(4.1+4.2)	Handling of old backfilled limestone size reject dumps (0-30 mm size)	0	0	0.548	End use: cement, steel, power plants & other industries
	5(3+4)	Total Material Handling (MILLION TPA)	2.799	3.30	3.848	In first phase Expansion in ROM- 17.89 % In Second Phase Proposed

						Expansion is 37.47 % from First phase initial EC grant as per EIA notification, 2006
CRUSHING AND SCREENING PLANT						
			Existing	Proposed	Total	
6	Crushing unit		1X300,1X250,1X200,1X150	NIL	1X300,1X250,1X200,1X150	
7	Screening unit		1X250 TPH, 1X250 TPH, 1X200 TPH, 1X200 TPH	1X300 TPH, 1X300 TPH, 1X300 TPH, 1X300 TPH	1X250 TPH, 1X250 TPH, 1X200 TPH, 1X200 TPH, 1X300 TPH, 1X300 TPH	
Life of mine	6 Years					
Mine Bench Height & Bench Width	Bench Height: 5 m Bench Width: 80-120 m					
No. of Mine Benches	7					
Existing Depth, m bgl	Pit No.	Pit ID	Pit Status	Area Covered by Pit (Ha)	Depth	
	1	North	Active	123.98	4.50 m	
	2	South	Active	501.72	5.00 m	
Ultimate Depth of Mining, m bgl	5 m bgl					
Ground Water Table, m bgl	70 m bgl					
Details of ground water intersection	Ground water table will not be intersected					
Individual bench slope	70°					
Overall pit slope	45°					
Details of existing/ proposed Crusher	Existing Primary and Secondary Jaw Crushers having capacity 1X300,1X250,1X200,1X150 TPH					

Mineral Beneficiation	No
RoM output size	Mine Material handling capacity from 3.3 million TPA to 3.848 million TPA (Less than 20 %) in second phase which includes keeping ROM SMS grade Limestone resource- 3.3 million TPA same (SMS Grade Limestone-1.50 MTPA) & recovery of mineral from Handling of old backfilled limestone size reject dumps (0-30 mm size)- 0.548 Million TPA
Transportation details including capacity of dumper/tipper, mode of transport and distance	Via roads/railways and Capacity of dumpers/Tippers-25 Tones
Generation of Topsoil/OB & its Management during plan period & conceptual period	There is no top soil generation/OB generation envisaged from the proposed mines
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	Mineral Reject generation of Size less than 10 mm & as per market specifications possibility is to explore the same for market use and selling of -10mm mineral sized rejects with the objective to zero waste mining as per National Mineral Policy 2019 to Conserve National Resources as much as possible.

vii. Water requirement:

Total water requirement	55	Fresh water	55
		Treated water	0
Source	Water demand is being met available through IGNP Canal		
Permission for withdrawal/ intersection along with details of grant and its validity	Permission obtained from IGNP dated 06/02/2007 for 120 KLD for Sanu-I and Sanu-II mining project.		

viii. Nearest village/town/ highway/interstate boundary/railway station/water bodies/monument/ forest

Particulars	Particular's Name	Distance & Directions
Village	Joga village	~ 5.32 Km towards NNE direction from mining lease area.
Town	Ramgarh (Nearest Town)	~8.67 Km towards NW direction from mining lease area.
Highway	NH-68	~ Passing through the mine lease area at about 0.90 Km towards South direction from the Pillar W of the M.L area.
Interstate Boundary	None in 10 KM Radius	--
Railway Station/Railway line	Sanu Railway station	~ 7.09 Km towards ESE direction from mining lease area.
Water Bodies	Sanwra Desar Talab	~1.37 Km towards SE direction from the mine lease area
Forest	None in 10 KM Radius	--

ix. Presence of Environmentally Sensitive areas in the study area:

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks
Forest Land within the mine lease area and (if yes) status of Forest Clearance	No	Letter obtained from office of the Dy. Conservator of Forest, Wildlife, Jaisalmer vide letter no. F()Misc./DCFWLJSM/2023-24/3155 dated on 29.08.2023 stating that Mine site is about 45 km away from the boundary of Desert National Park Wildlife Sanctuary and about 1.45 Km away from the Great Indian Bustard Priority Area and lying within the Great Indian Bustard Potential Area
National Park	No	
Wildlife Sanctuary	No	
Elephant/Tiger Reserve	No	
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area (ESA)	No	-----
Coastal Regulation Zone (CRZ)	No	-----
Schedule-I species (No.s and name of schedule-I species)	No	No Schedule I species were observed during primary survey. Further, the Authenticated List of Flora & Fauna issued vide letter no. F () DCF/Technical/2022-23/4863 by DCF,

with authenticated letter)		Jaisalmer dated on 04.09.2023 shows presence of three Schedule I species namely: The Indian Porcupine (<i>Hystrix leucura</i>), Rat snake (<i>Ptyas mucosa</i>), Tawny Eagle (<i>Aquila rapax</i>)
Wildlife Conservation Plan	.....	Under Departmental Process

x. Green belt/plantation details:

Proposed area for green belt/plantation and no. of saplings proposed	Year		Un-worked Area		Additional plantation to be carried out (Assuming survival rate to be 70%)		Net plantation to be carried out (Along with replacement of non-surviving Plants)		Backfilled Area		Total	
	Existing	Un-worked Area	Area (Ha)	No. of Trees	No. of Trees	No. of Trees	Area (Ha)	No. of Trees	Area (Ha)	No. of Trees		
		Both sides of NH passing through the mine	3.78	3780	--	--						
		1 st (2023-24)	*2.22	18401	--	18401						18401

	2 nd (2024-25)	--	18401	5520	23921	Maintenance to be done			23921
	3 rd (2025-26)	--	18401	7176	25577				25577
	4 th (2026-27)	--	18402	7673	26074				26074
	5 th	--	--	7822	7822			--	7822
	6 th	--	--	--	--			--	--
	End of Life of Mine	--	--	--	--	559.22	Re-grassing	--	--
	Total	47.59	1,18,975	22671	96275	872.72	Re-grassing	47.59	1,47,165
Budget for green plant & plantation till the end of life of mine.	Rs. 5.21 lacs (Recurring Cost)								
Budget for nursery	--								
Details of existing plantation and its survival rate	Discussed in the above section								
No. of tree cuts in the mine lease area and compensatory afforestation	.....							
Particulars for	Area covered (in Ha)								

Green belt/plantation	
7.5 m barrier & non-mineralized zone	43.81 Ha. (Green Belt/Plantation (Undisturbed Area) & 3.78 Ha. (Plantation along both sides of NH passing through the mine).
50 m safety zone of nallah, roads, electric lines	
500 m safety zones of nearest habitation villages	.....

xi. Baseline detail:

Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)	
Period of baseline data collection	March-May 2023
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Summer
Predominant Wind direction (From)	SW
Ambient Air Quality (no. of locations) and results	8
Noise level (no. of locations) and results	7
Water Quality (no. of locations) and results	Surface-3, Ground water-2 Nos
Soil Quality (no. of locations) and results	7
Hydro geological study and results	Discussed in the chapter 3 of the EIA/EMP Report.
Traffic study (no. of locations) and results	Mining activity would deploy 25 T/Truck and 144 trips/day, or PCU/day will be 432. Thus, incremental increase in traffic will be 50%. There will be no much impact on local transport of mineral from mine site via roadways and railways.

	The LOS value for the NH-68 will be “Excellent” after post mining. So, the additional load on the carrying capacity of the concerned roads is not likely to have any significant adverse effect
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xii. Public Hearing (PH) Details:

Advertisement for PH with date (name of major national daily and one regional vernacular daily newspaper)	As per EIA Notification, dated 14 th September, 2006 and its subsequent amendments till date the said project falls under Category “A” and accordingly, Environmental Clearance (EC) for mining activity is required under <u>para 7 (ii)a of EIA Notification, 2006</u> (for Expansion or Modernization or Change of product mix in existing projects). Earlier in Phase I enhancement in the production capacity of SMS Grade Limestone from 1.25 MTPA to 1.50 MTPA (20 %increase) along with ROM Handling of limestone from 2.799 MTPA to 3.30 MTPA (17.89% increase) at operating Sanu-I Limestone Mine. Further, this EIA/EMP report is being prepared for Phase 2: 2.799 MTPA to 3.848 MTPA (37.47 % increase) expansion(<40% i.e., 37.47 % in phase 1 and phase 2) in line to MoEF & CC OM vide No. IA3-22/10/2022-IA.III [E 177258] dated 11 th April 2022 and subsequent OM vide No. IA3-22/10/2022-IA.III [E 177258] dated 30 th May 2022, para 5 Table Scenario III : “Up to 40 percent based on successful compliance of previous environmental safeguard conditions related to expansion of 20 percent” clearly stating that there is requirement of revised EIA/EMP report and Certified EC Compliance report however there is no requirement of fresh public consultation
Date of PH	
Venue	
Chaired by	
Main issues raised during PH	
Budget proposed for addressing issues raised during PH over 3 years	
Additional information (if any)	

xiii. Details of CTE/CTO, Certified Compliance Report, and Certified Production Details from the inception of the mine:

Particulars	Details of Letter along with date of grant and validity
Consent to	F(Mines)/Jaisalmer(Jaisalmer)/1958(1)/2016-2017/1150-1154 dated 07/07/2021 valid till 31/07/2024

Establishment					
Consent to Operate	(Mines)/Jaisalmer (Jaisalmer)/1958(1)/2016-2017/1155-1159 dated 07/07/2021 valid till 31/07/2024				
Certified Compliance Report and Inspection date	PP submitted the Certified Compliance Report (CCR) dated 24.10.2023. As per the CCR, the inspection was carried out on 19.07.2023.				
Certified Production Details from the inception of the mine (in tabular form against the EC capacity)	Certified Production figure along with EC Capacity				
	Year	Production in Tonnes			Description
		ROM Production	30 mm – 80 mm Size	10 mm – 30 mm size	
		A+B	A	B	
	1987-88	60067.400	60067.400	--	Issued via ME, Mines and Geology Department Jaisalmer vide letter no. ME/Jaisal/Sankhya/2015/1206 dated on 19.01.2015 <i>*Note: Addition of A & B, however not given in the certificate.</i>
	1988-89	200146.500	200146.500	--	
	1989-90	242104.100	242104.100	--	
	1990-91	465238.400	465238.400	--	
	1991-92	592140.500	592140.500	--	
	1992-93	599784.500	599784.500	--	
	1993-94	441619.400	441619.400	--	
	1994-95	333412.600	333412.600	--	
	1995-96	529663.800	529663.800	--	
	1996-97	658961.300	596235.100	62726.200	
1997-98	1452000.000	574674.16	877325.84	Issued via ME, Mines and Geology Department Jaisalmer vide letter no.	
1998-99	1282000.000	511977.52	770022.48		

1999 -00	1121000.0 0	448558.70	672441.30	ME/Jaisal/Sankhya/20 15 /782 dated on 14.03.2016
2000 -01	1473000.0 0	589564.25	883435.75	
2001 -02	1492000.0 0	597430.35	894569.65	
2002 -03	1269000.0 0	580514.93	688485.07	
2003 -04	1863000.0 0	592468.00	1270532.0 0	
2004 -05	1797242.0 0	598637.00	1198605.0 0	
2005 -06	1549313.0 0	589994.00	959319.00	
2006 -07	1798470.0 0	868352.87	930117.13	
2007 -08	1625515.0 0	778920.76	846594.24	
2008 -09	1979170.0 0	881299.61	1097870.3 9	
2009 -10	1754319.00	813005.48	941313.52	
2010 -11	1669513.00	746978.04	922534.96	
2011 -12	2636900.00	1210126.4 0	1426773.6 0	
2012 -13	2027344.00	926496.33	1100847.6 7	
2013 -14	1881815.00	868927.82	1012887.1 8	
2014 -15	2137593.00	972054.37	1165538.6 3	
2015 -16	1936097.00	903958.03	1032138.9 7	
2016 -17	2084683.00	969311.10	323493.75	Issued via ME, Mines and Geology Department Jaisalmer vide letter no. ME/Jaisal/Sankhya/20 19 /994 dated on 15.03.2019

Year	ROM Production	>30 mm – 80 mm Size Gitty	<30 mm size Gitty	Backfilled mined out pit	Description
2017-18	2685196	1230412.60	401480.67	1053302.73	Issued via ME, Mines and Geology Department Jaisalmer vide letter no. ME/Jaisal/Sankhya/2023/1285 dated on 18.07.2023
2018-19	2725921	1249981.20	291951.70	1183988.1	
2019-20	2631526	1189789.30	279181.98	1162554.72	
2020-21	2099686	0949911.76	219908.71	929865.53	
2021-22	3109865	1425595.51	407491.76	1276777.73	
2022-23	3026902	1389528.49	552355.35	1085018.16	

xiv. Rehabilitation & Resettlement (R&R):

R & R details	No R & R study involved as this is an existing mining project also no settlements are present in the mine lease area that requires R & R.
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xv. Court case details:

Court Case, No and its present status	No Court Case is pending
Undertaking by Project Proponent w.r.t court case	Undertaking is enclosed along with the EIA/EMP Report.

xvi. Affidavit/Undertaking details:

Affidavit as per Ministry's OM dated 30.05.2018	Project Proponent has submitted an Affidavit along with the EIA/EMP Report.
Undertaking by Project Proponent in EIA/EMP report	Project Proponent has submitted an Undertaking along with the EIA/EMP Report.
Undertaking by Consultant in EIA/EMP report	Undertaking by Consultant has been submitted along with the EIA/EMP Report.
Plagiarism Certificate	Plagiarism Certificate has been submitted along with the EIA/EMP Report.

xvii. Details of the Environmental Management Plan (EMP):

S. No.	Activity	Budget Allocation in Lacs. (Capital)	Budget Allocation in Lacs. (Recurring)
1	Environmental Monitoring Cost		
	a. Water Quality analysis	--	0.50
b. Air	Air pollution monitoring	--	1.00
	❖ Installation of online continuous Ambient Air Quality Monitoring Stations for monitoring of air pollution attributes PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ & CO	20.0	1.00
	ii Control of fugitive emission during loading and unloading, transportation/water sprinkling measures.	--	10.00
	iii Air Pollution Control Devices installation at the material transfer points at crusher plant (Fogging System, Bag Filters)	--	5.00
	iii Greenbelt/Plantation	--	5.21
	c. Noise pollution Monitoring	--	0.40
2.	Construction of Water conservation and management structure	3.00	0.70
3.	Drip Irrigation	3.00	1.00
4.	Blasting related safeguard expenses	--	0.50
5.	Waste Management (Municipal Waste)	--	0.15
6.	Fencing around mine pit to prevent loss of wildlife and human movement	78.71	0.20
7.	OHS/Surveillances	2.00	2.00
8.	Rehabilitation of mined out backfilled area (re-grassing)	8.72	1.00
	Total	115.43	28.66

xvii. Details of project cost and employment:

Particulars	(Rs. In Crore)		
Total cost of EMP (Capital Cost of EMP + capital cost of Public hearing)	Sr. No.	Particulars	Capital Expenditure (In Crores)
	1	Existing project cost	Rs. 12.00 Crores

	2	Project cost for expansion	Rs. 25.52 Crores		
	3	Environment Management Plan	Existing	Proposed	
			Recurring (Rs Lacs)	Capital (Rs Lacs)	Recurring (Rs Lacs)
			20	115.43	28.66
	Total		Rs. 37.52 Crore		
Project Cost		Rs. 37.52 Crore			
Employment (No.s)		112			

xviii. The point-wise compliance in the following table as per the Ministry's OM dated 11.04.2022 under para 7(ii)(a) of EIA Notification, 2006, for expansion up to 50%, within the existing premises/ mine lease area, without additional land acquisition. The OM is applicable subject to fulfilment of following criteria:

Sr. No	Condition as per OM	Compliance of condition
1.	The project should have gone through the public hearing process, at least once, for its existing EC capacity on which expansion is being sought, except those category of projects which have been exempted as per para 7 III (i) of EIA Notification 2006 and its amendments.	Public hearing of the project held on 07.07.2005 for an annual production capacity of 12.50 Lakh tonnes (1.25 million tonnes) of steel grade limestone.
2.	There should not be change in Category of the project from 'B2' to 'B1' or 'A' due to proposed modernisation or expansion	There is no change in the category of the project.
3.	There is no additional land acquisition or forest land diversion involved for the proposed expansion or there is no increase in lease area with regard to mining vis-à-vis the area mentioned in the EC, based on which public hearing has been held earlier.	No Change in the Project Area.
4.	The proposed expansion shall not be more than 50% of production capacity as mentioned in the prior EC, issued on the basis of public hearing held and the same shall be allowed in minimum three phases.	Proposed expansion is not more than 50% of production capacity.
5.	Predicted environmental quality parameters arising out of proposed expansion/modernization shall be within the prescribed norms and the	Baseline Monitoring and data have been collected during the Month of month

	same shall be maintained as per prescribed norms.	March to May 2023 in summer season.
6.	The proposed expansion should not result in reduction in the greenbelt area as stipulated in the earlier EC, or if the existing ratio of greenbelt is more than 33%, after expansion it should not reduce below 33%.	PP has proposed additional plantation apart from the 33% of ML area.
7.	The project proponent should have satisfactorily complied the conditions stipulated in the existing EC(s) and satisfactorily fulfilled all the commitments made during the earlier public hearing/consultation proceedings and also the commitments given while granting previous expansion, as may be applicable. This shall be duly recorded in the certified compliance report issued by the IRO/CPCB/SPCB, which should not be more than one year old at the time of submission of application	PP has submitted the certified compliance report vide dated 24.10.2023. Site inspection date has not been submitted by the PP.
8.	Public Consultation shall be undertaken [if applicable as per table below] by obtaining response in writing, as per para 7 III (ii) (b) of EIA Notification 2006, except those category of projects which have been exempted as per para 7 III (i) of EIA Notification 2006 and its amendments.	Not applicable.
9.	Effluent monitoring including air quality monitoring systems as specified in the existing EC, if stipulated, should have been installed.	No data available.

3. Observation and Recommendation of EAC:

The EAC, after deliberations observed that instant project is for expansion and PP has applied under OM dated 11.04.2022 for enhancement upto 37.87% (Stage-2) capacity expansion under para 7(ii) of EIA Notification, 2006. The EAC observed that the PP has not complied to all of the points of mentioned in the Ministry's OM dated 11.04.2022 issued under para 7(ii)(a) of EIA Notification, 2006, for expansion up to 50%. EAC further noted that the PP is having the permission to mine 1.5 MTPA SMS grade limestone with ROM handling capacity of 3.3 MTPA.

The PP has collected the Baseline data for the period from March to May, 2023 and observed that the Ambient Air Quality, Water Quality, Soil Quality and Noise Level are within the permissible limits.

Further, the Committee observed that the PP has not complied the condition with regard to the plantation of trees within mine lease area, the EAC opined that the existing ratio of greenbelt should be more than 33% of the Mine Lease area. EAC also noted that PP has not installed any Continuous air quality monitoring system within the ML area. The EAC also emphasised that PP should increase the activity-wise budget for EMP, Public Hearing and their recurring cost. Based on aforesaid discussion, the EAC **deferred** the proposal for the submission of following information:

- i. The PP needs to submit the point wise compliance of Ministry's OM dated 11.04.2022 under para 7(ii)(a) of EIA Notification, 2006, for expansion up to 50%, within the existing premises/ mine lease area, without additional land acquisition.
- ii. PP needs to submit a study showing the impact of mine operation upon the existing boundary of Desert National Park /Wildlife Sanctuary and upon the Great Indian Bustard Potential Area which is about 1.45 Km away from the Mine lease boundary.
- iii. The PP needs to submit the authenticated mineable Limestone reserve and total Limestone reserve available within ML area from Director of Mines and Geology.
- iv. The PP needs to submit DMG authenticated past production since the commencement of mining operations.
- v. The PP needs to submit an undertaking for not exceeding the past production w.r.t. the EC capacity.
- vi. The PP needs to create a nursery of native plant species in 5 ha land within the mine lease area (with not less than 1 lakh of sapling capacity). The nursery should be ready within three months.
- vii. The PP needs to submit the status of wildlife conservation plan prepared as per the Wildlife amendment act, 2022.
- viii. The PP needs to submit the detail action plan related to the budget already spent and to be spent with regard to activities covered under EMP and as part of CSR.
- ix. The PP needs to submit the recorded Drone video of the Mine lease area covering Mine pit, OB dump and Plantation area.
- x. The PP needs to undertake a carrying capacity study in order to findout the impact on the National Highway-68.

1.3 Gujarda, Dudheri & Dudhala Limestone Mine for production capacity of 2.7 MTPA in the mine lease area of 681.62 ha by M/s Nirma Limited located at Villages Gujarda, Dudheri & Dudhala, Tehsil Mahuva, District Bhavnagar (Gujarat) - Reconsideration for Environmental Clearance (EC) reg[Online Proposal No. IA/GJ/MIN/443968/2023, F. No. J-11015/153/2016-IA.II(M)][EIA Consultant - M/s Centre for Envotech and Management Consultancy Pvt. Ltd]

The proposal is for Environmental Clearance for Gujarda, Dudheri & Dudhala Limestone Mine for production capacity of 2.7 MTPA in the mine lease area of 681.62 ha by M/s Nirma Limited located at Villages Gujarda, Dudheri & Dudhala, Tehsil Mahuva, District Bhavnagar (Gujarat).

2. The details of the project as ascertained from the document submitted by the Project Proponent and revealed from the discussions held during the meeting are given as under:

- i. The mine lease area is located between Latitude 21°01'1.31"N to 21°03' 44.86" N and Longitude 71°41'15.21"E to 71°43'38.54"E. The mine lease area falls under the Survey of India Toposheet No: F42R12 and falls in Seismic Zone-III.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.
- iii. The Project Proponent has obtained the ToR for mining of Limestone in Gujarda, Dudheri & Dudhala Limestone Mine of M/s Nirma Limited vide letter no. J-11015/153/2016-IA.II(M) dated 06.02.2023.
- iv. Details of Mine Lease in chronological manner:

S.no	Prospecting License/ Letter of Intent (Lol)/ Grant of Mine lease and Lr No	Date of the grant	Name of the Mineral & (Major/ Minor)	Period of Grant	Granted by	Mine lease area in Ha
1	MCR-102004-1943-CHH	15.02.2008	Limestone	30 years	IMD, Government of Gujarat	1497.4701
2	MCR-102004-1943-CHH	02.02.2011	Limestone	30 years	IMD, Government of Gujarat	1489.4701
3	MCR-102004-1943-CHH	08.01.2017	Limestone	50 years	IMD, Government of Gujarat	681.62

S. No	Details of grant of Mine Lease deed execution	Period of Grant		Name of the Mineral	Mine lease area in Ha
		From	To		
1	MCR-102004-1943-CHH	11.01.2017	10.01.2067	Limestone	681.62

v. Land Use/Land Cover of the Mine Lease Area:

Private land	565.9454
Government land	115.6746
Forest land	-
Total Mining lease area (MLA), ha	681.62
Private land for crusher, workshop & other infrastructure outside the MLA	No facilities outside the ML area. However crusher will be installed at company's Cement Plant.

vi. Mining plan details:

Mining Plan including Progressive Mine Closure Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	File No.: 684(4)(1)/MP-348(197)/2021-22 GNR/1121
	Date	04.08.2021
	Mineral & (Major/Minor)	Major
	Mine Lease Area, Ha	681.62
	Validity	31.03.2026
Mining Parameters	Quantitative Description	
Method of Mining	Opencast mechanized	
Drilling/Blasting	Multi-row drilling and V-pattern drill holes for deep hole drilling and blasting. Slurry explosive -cap sensitive and non-cap sensitive.	
Geological Reserves	57.280 Million tonne	
Mineable Reserves	20.574million tonne	
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/Waste, MTPA)	Top soil- 0.57 mi.cum OB/SB/IB/Mineral Rejects- Nil Waste- Nil	
Life of mine	11 years (Life of mine may be increased subject to conversions of resources under 333 category into category of reserves 111)	
Mine Bench Height & Bench Width	6.0 m, for working bench 12-15 m for closing (conceptual) bench Optimum	
No. of Mine Benches	2	
Existing Depth, m bgl	New mine	
Ultimate Depth of Mining, m bgl	10 m	
Ground Water Table, m bgl	15.5 m (Post monsoon)	
Details of ground water intersection	No ground water will be encountered during planning stage i.e. in working plan in neither pre monsoon nor post monsoon season in any of the pits. Ground water will also not intersect during mining at the end of mine life.	

Individual bench slope	80-85°
Overall pit slope	~ 45°
Details of existing/ proposed Crusher	Proposed crusher will be installed at Cement Plant.
Mineral Beneficiation	-
RoM output size	-
Transportation details including capacity of dumper/tipper, mode of transport and distance	Internal haul road from mine face to crusher and by conveyor from crusher to the Cement plant adjacent to the mine lease. For the Soda Ash Plant located at approx.100 km at Kalatalav, Bhavnagar limestone will be transported in dumpers/ trucks through National Highway 51. Internal haul road from mine face to crusher means of dumper/tippers of 25 tonnes capacity.
Generation of Topsoil/OB & its Management during plan period & conceptual period	Top soil at plan period- 249806 cu.m, temporary stacking at one location Top soil at conceptual period-321394 cu.m, simultaneously backfilling
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	Nil
Additional information(if any)	Surface miner as well as ripper/dozer & rock breaker will be used for mining to minimize drilling & blasting.

vii. Water requirement:

Total water requirement	44 KLD	Fresh water	3 KLD
		Treated water	41 KLD
Source	Fresh water source Narmada water pipeline/Water tanker. Water harvested within mine lease during rainy season. Treated water source- Reject water of RO /DM plant &Reject water of RO /DM plant (proposed at Cement plant)		
Permission for withdrawal/ intersection along with details of grant and its validity	Permission for water withdrawal from Narmada water pipeline has been taken vide letter No. GWIL/Bhavnagar/Ind.conn./1257 dated 4.06.2008.		
Additional information (if any)	-		

viii. Nearest village/town/ highway/interstate boundary/railway station/water bodies/monument/ forest

Particulars	Particular's Name	Distance & Directions
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Village	Gujarda, Dudheri, Dudhala Madhiya Padhiarka	0.2-0.5 km 0.5 km, NW 0.5 km, W
Town	Mahuva	4.0km, NE
Highway	NH-51 (Una-Mahuva highway)	Within
Interstate Boundary	Rajasthan	Approx.500 KM,N
Railway Station/Railway line	Amrutvel	2.0km, N
Water Bodies	Arabian Sea Coast	0.5 km, S from the HTL
	Samdiyala Salinity ingress control bund	4.5 km, WSW
	Malan Bandhara	1.5 km E
	Malan River	4.4 KM,E
	Bhambhali River	5.4 Km, W
	Garasawo River	0.9 KM,NE
Forest	RF near Patwa	2.8 KM,SW
	RF near Doliya	7.4 KM,E
	RF near Dudheri	0.6 KM,S
	RF near Gujarda	0.3 KM,S
	RF near Khared	2.1 KM,E

ix. Presence of Environmentally Sensitive areas in the study area

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks
Forest Land within the mine lease area and (if yes) status of Forest Clearance	No	
National Park	No	
Wildlife Sanctuary	No	
Elephant/Tiger Reserve	No	
Eco-Sensitive Zone(ESZ) /Eco- Sensitive Area (ESA)	No	
Coastal Regulation Zone (CRZ)	Yes	ML area outside CRZ- GCZMA letter no.ENV-10-2023-170-T dated 19.07.2023
Schedule-I species (No.s and name of schedule-I species with authenticated letter)	Yes	Peafowl, Chinkara and Asiatic lion & as per Wildlife Protection Amendment Act, 2022, schedule-1 species have been updated in WLCP.

Wildlife Conservation Plan	Yes	On the basis of the fauna study findings & list of fauna authenticated by Forest Department, Wildlife Conservation Plan was prepared and submitted for approval. The said Wildlife Conservation Plan had been approved by the Forest Department on 20.12.2021. Rs. 19.9 lakh has been approved for the conservation of wildlife in the study area. As suggested by EAC & latest Wildlife Protection Amendment Act, 2022, budget allocation for WLCP has been increased from Rs.19.9 Lakh to Rs.65.9 Lakh for all 3 mines.
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x. Green belt/plantation details:

Proposed area for green belt/plantation and no. of saplings proposed	30.00 Ha.
Budget for green plant & plantation till the end of life of mine.	90.95 Lakhs
Budget for nursery	-
Details of existing plantation and its survival rate	-
No. of tree cuts in the mine lease area and compensatory afforestation	As per actual during mining
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	10.0
50 m safety zone of nallah, roads, electric lines	10.0
500 m safety zones of nearest habitation villages	-
Additional information (if any)	10.00 ha (Backfilled area (Govt. wasteland))

xi. Baseline detail:

Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)	
Period of baseline data collection	01.03.2021 to 02.06.2021
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Summer
Predominant Wind direction (From)	South
Ambient Air Quality (no. of locations) and results	16
Noise level (no. of locations) and results	16
Water Quality (no. of locations) and results	15

Soil Quality (no. of locations) and results	12
Hydro geological study and results	As per planned mining and Report of hydrogeological & hydrological studies of core and buffer zone of Gujarda, Dudheri & Dudhala limestone mine, the ground water table may get Intersected in post monsoon during 11th year at conceptual pit bottom level of +1.0 AMSL. However, conceptual pit bottom level will be kept above ground water level i.e. +4.0m AMSL to avoid intersecting ground water level.
Traffic study (no. of locations) and results	01 location & V/C = 31.27

xii. Public Hearing (PH) Details:

Advertisement for PH with date (name of major national daily and one regional vernacular daily newspaper)	26.03.2023 in Sandesh Newspaper & Indian Express
Date of PH	28.04.2023
Venue	At the premises of Nirma Cement Plant Area, NH 8E/51, Survey No. 80, Village: Padhiyarka, Taluka: Mahuva, Dist. Bhavnagar
Chaired by	District Collector & District Magistrate, Bhavnagar District & Regional Officer, GPCB Bhavnagar
Main issues raised during PH	Air pollution, salinity ingression, wildlife protection, acquisition of agriculture land
Budget proposed for addressing issues raised during PH over 3 years	77 Lakhs

xiii. Details of CTE/CTO, Certified Compliance Report, Certified Production Details from the inception of the mine:

Particulars	Details of Letter along with date of grant and validity
Consent to Establish	GPCB CTE granted vide dated 25/01/2021 & valid upto 24/01/2028.
Consent to Operate	-
Certified Compliance Report and Inspection date	-
Certified Production Details from the inception of the mine (in tabular form against the EC capacity)	Fresh mine

xiv. Rehabilitation & Resettlement (R&R):

R & R details	The total mine lease area is 681.62 ha, out of which Govt. land is 115.6746 ha and Private land is 565.9454 ha. Land will be required for quarrying an area of 114.24 ha of Private land and Government land including 18 houses/hutments in land of Gujarda (15 nos.), in land of Dudheri (3 Nos.) & Dudhala (0 Nos.) villages. There will be total of 656 land losers. There will be direct purchase or leasing of private land, with the willing consent of the private land owners. Approx. total compensation will be Rs 18.0 Lakhs. In addition to above, the registration cost of sale of the land and homesteads shall be borne by the Company. Assuming it to be 6% of the entire costs of sale, the total resettlement budget works out to be Rs. 78.17 lakhs.
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xv. Court case details:

Court Case, No and its present status	The Project Proponent has submitted an undertaking vide letter dated 07.10.2023 stating that there is no litigation on the project either at NGT or any other court of law related to environment and pollution matters in which the project proponent is a respondent.
Undertaking by Project Proponent w.r.t court case	

xvi. Affidavit/Undertaking details:

Affidavit as per Ministry's OM dated 30.05.2018	The Project Proponent has submitted an undertaking by way of notarized Affidavit dated 09.10.2023 stating that the proposal does not involve violation of Ministry's OM dated 30.05.2018.
Undertaking by Project Proponent in EIA/EMP report	The Project Proponent has submitted an undertaking vide letter dated 14.02.2023 stating that the contents (information and data) as given by the Consultant in the EIA/EMP report are factually correct with full knowledge of the undersigned (Shri Ashish Desai).
Undertaking by Consultant in EIA/EMP report	The Director of the EIA Consultant (M/s Centre for Envotech & Management Consultancy Pvt. Ltd) has informed that the baseline data was generated

	by MoEF &NABL Accredited Laboratory M/s Min Mec R&D Laboratory, a division of Min Mec Consultancy Pvt. Ltd., New Delhi and the same has been verified and also confirmed that he shall be fully accountable for any misleading information mentioned in this statement.
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- xvii. Earlier the Proposal was considered in the 21st EAC meeting held during 18-20th October, 2023 wherein the Committee has deferred the proposal for the submission of requisite information. The Project Proponent ha submitted the relevant information on Parivesh are as follows:

S.N	Observation of the EAC in 21 st meeting held during 18-20 th October, 2023	Reply by Project Proponent
1.	The site visit report of the subcommittee.	Site visit has been conducted by subcommittee on 22-25 th December, 2023.
2.	Since the mine site is located within 20 km from seaboard frontier, the Project Proponent shall submit No Objection Certificate from Ministry of Defense for consideration of the instant project.	Project Proponent has submitted a letter for issuance of NoC/Clearance from Ministry of Defence vide application dated 10.11.2023. Project Proponent has submitted a letter to Department of Geology & Mining, Govt. of Gujarat, Bhavnagar for recommendation to issue NOC to Ministry of Defense vide application dated 07.12.2023. As per our understanding, there is no clarity or guideline in respect of process to be followed to obtain NoC of Ministry of Defense (MoD), therefore, our humble request is that issue the EC without condition of obtaining NOC from MoD.
3.	The Project Proponent	The mine is captive mine to proposed cement plant at Mahuva and Highgrade limestone to be used in company's own existing

	<p>needs to submit the action for laying common Over Land Belt Conveyor (OLBC) for transportation of mineral from mine lease area to the Cement Plant. The Project Proponent also needs to submit the action plan for expansion of road with a width of 7m and by passing the village road till the commission of the Over Land Belt Conveyor (OLBC).</p>	<p>Soda Ash plant located at Kalatalav, Bhavnagar as per permission accorded by the Govt. of Gujarat vide letter dated 17.08.2023.</p> <p>The cement plant is adjoining to the mine lease while the Soda ash plant is located around 100 km away and accessed through National Highway.</p> <p>Establishment of cement plant may take some time as the appeal is pending before Hon'ble Supreme Court while the soda ash plant is already operational.</p> <p>Hence, till the commencement of proposed cement plant, maximum 5% i.e. 450 TPD chemical grade limestone will be transported through dumpers @18 trips per day via existing village road of 7 m (out of which 4 m is black topped) to National Highway and ultimately Soda Ash plant at Bhavnagar.</p> <p>Company is very much keen to establish cement plant as early as possible & will produce & consume required limestone for cement manufacturing on its highest rated capacity.</p> <p>We assure your kind authority that we will widen the black top of the existing village road from mines to National Highway prior to commencement of Proposed Cement Plant. Section plan of proposed road black top widening has been submitted to the MoEF&CC.</p> <p>Also, as discussed during the EAC meeting, we will explore the possibility of Over Land Belt Conveyor (OLBC) on either side of the highway based on the technical possibility & feasibility by reputed consultant. We are going to approach M/s. Holtec Consultants for regulatory, commercial & technical feasibility for above stated OLBC.</p>
4.	<p>The Project Proponent needs to explore the possibility of laying over bridge over the Highway and shall</p>	<p>Since, the National Highway is under construction, we have submitted letter to National Highway Authorities of India(NHAI) regarding grant of permission to provide Underpass near our cement plant entry point or any other option suggested by NHAI for transportation of raw material & finished product. Acknowledgment dated 23.10.2023 has been submitted.</p>

	submit the permission from the National Highways Authority of India (NHAI).	
5.	The Project Proponent needs to submit the protection measures to be taken for salt water intrusion and the effectiveness of the salinity ingress control bund.	<p>Samdhiyala Salinity Ingress Control bund (Samdhiyala bund) was constructed by Government of Gujarat in the year 2000 on Motpet Creek to prevent sea water from coming towards landward side. On the landward side, rain water gets accumulated as well.</p> <p>Presently, the accumulated rain water of Samdhiyala bund is being used during post monsoon by adjoining agriculture land owners and in other seasons they are extracting ground water through borewell. For agriculture land which is away from Samdhiyala bund, farmers are extracting ground water through borewell for agriculture due to which salinity & TDS are increasing in ground water.</p> <p>As per company's water management strategy, after commencement of cement plant, company will undertake deepening of 100 ha surrendered land out of our total allotted plant land and also pledged to construct garland drains around the proposed plant area which will improve the overall fresh water storage capacity of Samdhiyala bund on landward side. Regular desiltation of canal will improve water retention capacity of Samdhiyala bund.</p> <p>At the time of mining, bottom level of conceptual pit will be kept above ground water level to avoid intersection.</p> <p>Hydrogeological monitoring network will be established by constructing piezometers in and around the lease.</p> <p>During mining, present hydrological system will keep intact by constructing garland drain around the pits to maintain present hydraulic gradient towards the Samdhiyala Bund.</p> <p>After exhaustion of mineral, voids left will act as natural water harvesting structures. Collected rain water will stand and gradually percolate into the sub surface water & in long term improve the quality of ground water.</p>

		<p>Positive pressure of fresh water on landward side will be created, which will aid in pushing back the saline front, which may be at a lower elevation.</p> <p>In view of the above, due to mining there is no possibility of salt water intrusion in the area & effectiveness of the salinity ingress control bund as well as hydrogeological system of bund will not be disturbed & infact will significantly improve the effectiveness of salinity ingress control bund.</p>
6.	<p>The Project Proponent needs to submit the site specific mitigation measures for backwaters from Arabian Sea coming into the mine lease area.</p>	<p>In this regard, following site specific mitigation measures will be taken:</p> <p>Arabian Sea is situated at distance of more than 0.5 km in the south of the said mine lease and is clearly outside the CRZ area which is certified by GCZMA. Letter dated 19.07.2023 has been issued to M/s Nirma Ltd. from GCZMA.</p> <p>There was only one probability of sea water coming to mine lease area which is through Motpet Creek. Samdhiyala Salinity ingress bund has been constructed on Motpet Creek to restrict backwater coming from Arabian sea towards landward side. Therefore, there is no possibility of backwater from Arabian sea to come to mine lease area.</p> <p>Hydrogeological monitoring network will be established by constructing piezometers in and around the lease to monitor the water level & water salinity.</p> <p>Positive pressure of fresh water on landward site will be created due to water storage in mine pits, which will aid in pushing back the saline front as well.</p>
7.	<p>The Project Proponent needs to revisit the plan for backfilling with clearly indicating the voids area and the capacity available/req</p>	<p>The Indian Bureau of Mines, Govt. of India, Gandhinagar has approved the Mining Plan vide its letter dated: 05.08.2021 for the period of 5 years i.e. up to 2025-26.</p> <p>As per approved Mining Plan, Removal of soil and its disposal as below.</p> <p>Year: FY 2021-22 to FY 2025-26 Removal of soil(cum):249806 Means of disposal: *Temporary stacking at one location near Proposed Pit no.1.</p>

	<p>uired for backfilling.</p>	<p>Then, temporary stacked soil will be shifted for Backfilling of shallow pits of around 4.0 m depth (Proposed Pit No. 6) after five year mine plan period. A map has been submitted.</p> <p>Area covered under stacking (ha): 6.20</p> <p>Year: FY 2026-27 to FY 2031-32 Removal of soil(cum):321894 Means of disposal: *Temporary stacking at one location till 2026-27 and then, temporary stacked soil will be shifted for Backfilling.</p> <p>Simultaneously Utilized for Back filling of shallow pits of around 4.0 m depth Proposed Pit No. 6. (As demonstrated in map attached in Enclosure-VIII).</p> <p>Then, temporary stacked soil will be shifted for Backfilling of shallow pits of around 4.0 m depth (Proposed Pit No. 6) after five year mine plan period.</p> <p>Area covered under stacking (ha):Nil</p> <p>Total Removal of soil(cum): 571200 Area covered under stacking (ha): nil</p> <p>Looking towards availability of topsoil, backfilling of part area is envisaged.</p> <p>Total voids area envisaged till conceptual period = 114.24 ha</p> <p>Total soil removal envisaged till conceptual period = 0.57 million cum (114.24 Ha *0.5 m avg. soil thickness)</p> <p>Total backfilling area envisaged till conceptual period = 15.66 ha</p> <p>Ultimate Dimensions of Pits at the end of conceptual period</p> <p>Pit No.: 1 Pit Area covered (ha):49.56 Pit Top (m AMSL):20 to 14 Pit bottom (m AMSL): 10 Pit Depth in in m: 10 to 4</p>
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		<p>Pit Area covered by backfilling(ha): No backfilling proposal</p> <p>Pit No.: 2 Pit Area covered (ha):12.78 Pit Top (m AMSL):13 to 11 Pit bottom (m AMSL): 8 Pit Depth in in m: 5 to 3 Pit Area covered by backfilling(ha): No backfilling proposal</p> <p>Pit No.: 3 Pit Area covered (ha):14.40 Pit Top (m AMSL):13 to 11 Pit bottom (m AMSL): 6 Pit Depth in in m: 7 to 5 Pit Area covered by backfilling(ha): No backfilling proposal</p> <p>Pit No.: 4 Pit Area covered (ha):17.51 Pit Top (m AMSL):17 to 12 Pit bottom (m AMSL):11 Pit Depth in in m: 6 to 1 Pit Area covered by backfilling(ha): No backfilling proposal</p> <p>Pit No.: 5 Pit Area covered (ha):4.33 Pit Top (m AMSL):15 to 13 Pit bottom (m AMSL):6 Pit Depth in in m: 9 to 7 Pit Area covered by backfilling(ha): No backfilling proposal</p> <p>Pit No.: 6 Pit Area covered (ha):15.66 Pit Top (m AMSL):10.5 to 4 Pit bottom (m AMSL):4 Pit Depth in in m: 6.5 to 0 Pit Area covered by backfilling(ha): Backfilling of pit area of 15.66 Ha for entire depth – 570000 cu.m</p> <p>Total Pit Area covered (ha): 114.24 Pit Area covered by backfilling(ha): 15.66 Ha (570000cu.m)</p>
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8.	<p>The Project Proponent needs to revise the activities proposed under the Wildlife Conservation Plan. The Project Proponent also needs to ensure that the Schedule-I species as per the latest Wildlife Protection Amendment Act, 2022 shall also be included in the Wildlife Conservation Plan for their conservation.</p>	<p>Revised wildlife conservation plan incorporating the Schedule-I species as per the latest Wildlife Protection Amendment Act, 2022 has been submitted.</p> <p>10 species are protected under the Schedule-I of The Wildlife (Protection) Act 1972 are as: Asiatic Lion, Indian Leopard, Striped Hyena, Jungle Cat, Indian Fox, Jackal, Indian Grey Mongoose, Indian Porcupine, Chinkara and Grey Wolf.</p> <p>Further, 2 species (Indian Peafowl and Eurasian Spoonbill) are protected under the Schedule-I of The Wildlife (Protection) Act 1972 amended 2022.</p>
9.	<p>The EAC was of the view that the compensation rate is very less and asked the Project proponent to revisit and justify the budget proposed for</p>	<p>Type of land: Private Land rate, Rs. Lakh/ ha: 13.00 Land requirement, ha: 100.22 Total Amount Rs. lakhs: 1302.86</p> <p>Type of land: Government Land rate, Rs. Lakh/ ha: On mining lease Land requirement, ha: 14.02 Total Amount Rs. lakhs: _</p> <p>Total Landrequirement, ha: 114.24 Total Amount Rs. lakhs:1302.86</p>

	<p>Resettlement & Rehabilitation (R&R). The Project Proponent also needs to submit the action plan for land acquisition and timeline.</p>	<p>Total amount given considering as per DLC rate. However, land will be procured/get consent for mining purpose on mutual agreed market rates.</p> <p>Total amount given considering as per DLC rate. However, land will be procured/get consent for mining purpose on mutual agreed market rates.</p> <p>Type of homestead:Pucca Rate, Rs. /sq.m.: 10000 Approx. Homestead area**, sq.m.:360 Total compensation, Rs. lakhs: 36</p> <p>Type of homestead:Semi pucca Rate, Rs. /sq.m.: 5000 Approx. Homestead area, sq.m.:360 Total compensation, Rs. lakhs: 36</p> <p>Type of homestead:Kutchcha Rate, Rs. /sq.m.: 2000 Approx. Homestead area**, sq.m.:360 Total compensation, Rs. lakhs: 36</p> <p>Total Approx. Homestead area**, sq.m.: 360 Total compensation, Rs. lakhs: 36</p> <p>** Company will consider homestead losers falling in proposed mine area on actual basis at the time of starting of mining activity and such homestead losers shall be compensated on mutually agreed commercial terms.</p> <p>Since the land owners as well as homestead owners shall be compensated on commercial terms, therefore, they will have better economic strength to rehabilitate or reinvest the compensation amount. Hence, no separate R & R plan is envisaged.</p> <p>Action plan for land acquisition and timeline is as below:</p> <p>Sr. No: 1 Timeline for land requirement(present)</p> <p>Sr. No.:1.1</p>
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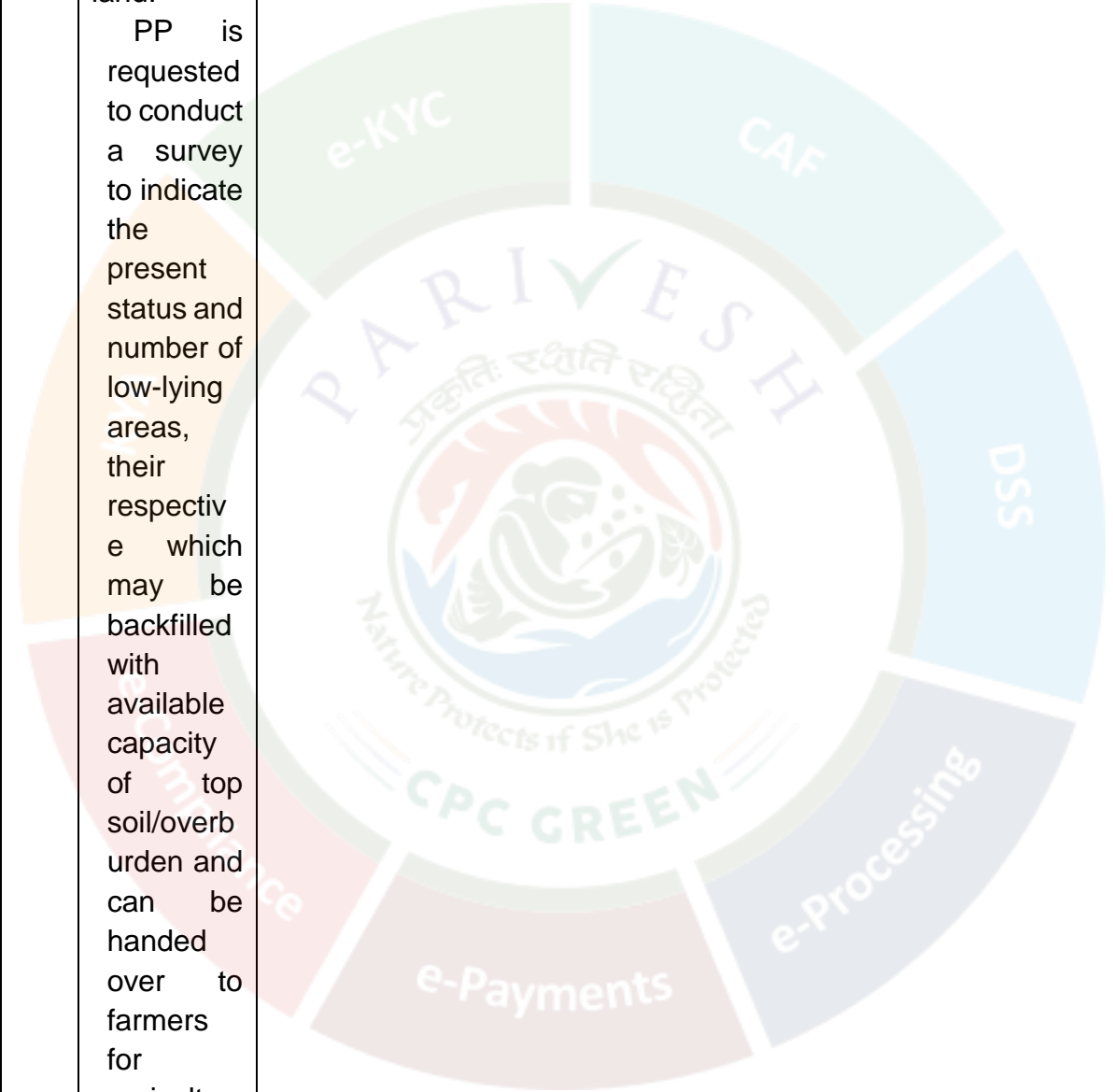
		<p>Timeline for land requirement(present): purchased Pvt. Land:49.49 Govt. land:0 Total: 49.49</p> <p>Sr. No.:1.2 Timeline for land requirement(present): Consented Pvt. Land:25.67 Govt. land:0 Total: 25.67</p> <p>Sr. No.:1.3 Timeline for land requirement(present): Leased Pvt. Land:0 Govt. land:115.67 Total: 115.67</p> <p>Sr. No: 2 Timeline for land requirement(Future)</p> <p>Sr. No.:2.1 Timeline for land requirement(present): 1st to 5th year mining Pvt. Land: 54.21 Govt. land:0.02 Total: 54.23</p> <p>Sr. No.:2.2 Timeline for land requirement(present):6th year to Conceptual stage -11th year Pvt. Land: 102.70 Govt. land:14.04 Total: 116.74</p> <p>Sr. No.:2.3 Timeline for land requirement(present):Minelife (up to lease period) Pvt. Land: 565.94 Govt. land:115.67 Total: 681.62</p> <p>Mining lease deed has already been executed for said mining lease so mining can be started in Govt. lease land. As far as private land is concerned, company has obtained surface rights</p>
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		for mining by purchasing land/consent in some of the land & for remaining land, company is in process to procure ownership or surface right for mining on mutually agreed commercial terms. We hereby assure that company will obtain surface rights of the land before entry in pvt. land for starting mining activity in the mining lease area.
10.	The Project Proponent needs to submit the action plan for year wise exploration program.	<p>The Indian Bureau of Mines, Govt. of India, Gandhinagar has approved the Mining Plan vide its letter dated: 05.08.2021 for the period of 5 years i.e. up to 2025-26.</p> <p>Looking towards the systematic exploration of the entire area, 182 nos. of Core Bore Holes has been proposed in the area in order to bring the ML area within G1 stage in accordance with MEMC Rules 2015 and MCDR 2017 as per approved mining plan.</p> <p>The deposit is sedimentary origin and simple in nature, therefore boreholes are kept at an interval of 200m grid pattern. A total of 182 number of Core Boreholes are proposed up to a level of +1.0 MRL . Initially BH drilling shall be at an interval of 400m. If limestone potentiality proves, then further BH can be done closely at 200m interval. All proposed BH shall be drilled vertically. The exploration shall be carried out in five years of working i.e. year 2021-22 to 2025-26. Exploration shall be carried out as shown in table to bring BH at 200m interval.</p> <p>Program of Future Exploration</p> <p>YEAR:2021-22 to 2025-26 No. of BH: PBH-1,3,10,12,14,16,28, 31,33,35,54,56,58,75,77 Grid Interval:400 m Total Meterage: Up to +1.0 MRL</p> <p>YEAR:2021-22 to 2025-26 No. of BH: PBH-37,41,43,61,66,79, 81,83,96,100,115,117,119,121,143,141,139,137,135,133,167, 165,163,169,171,173,179,181 Grid Interval:400 m Total Meterage: _</p> <p>YEAR:2021-22 to 2025-26 No. of BH:</p>

		<p>PBH-2,4,5,6,7,8,9,11,13, 15,17,24,25,26 Grid Interval:200 m Total Meterage: _</p> <p>YEAR:2021-22 to 2025-26 No. of BH: PBH-18,19,20,21,22,23,27,29,30,32,34,36,38,39,40,42,44-55,57,59,60,62-65,67,71-74,76,93,94 Grid Interval:200 m Total Meterage: _</p> <p>YEAR:2021-22 to 2025-26 No. of BH: PBH-68-70,82,84,78,80,85-92,95,97-99,101-116,118,120,122,123,124-127 Grid Interval:200 m Total Meterage: _</p> <p>YEAR:2021-22 to 2025-26 No. of BH: PBH-128-132,134,136,138,140,142,144,162,164,166,168,170,172,174-178,180,182 Grid Interval:200m or below Total Meterage: _</p> <p>YEAR:2021-22 to 2025-26 No. of BH: EP-1 & EP-2 size 3m*3m Grid Interval:_ Total Meterage: up to level +1.0mRL</p> <p>The exploration shall be started as soon as mining work is started on grant of EC and try to accomplish within shorter period if conditions are favorable.</p> <p>The location of Proposed BH is depicted in Surface Geological plan of the approved mine plan and given in EIA report in figure no. C 2-2 in Chapter 2 has been submitted.</p>
11.	The Project Proponent needs to submit the copy of the permission	Permission accorded by the Govt. of Gujarat vide order dated: 17.08.2023 for utilization of Chemical Grade of Limestone for non-cement purposes has been submitted.

	<p>letter obtained from the State Govt. for utilization of Chemical Grade of Limestone for non-cement purposes.</p>	
<p>12.</p>	<p>The Project Proponent needs to submit a letter from the Department of Geology and Mining, Government of Gujarat clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s. Nirma Limited or not?</p>	<p>The company has not carried out any mining within the lease area much less any illegal mining in the lease area. There are old pits pre-dating the allotment of the lease to the company, which were received in legacy and shown in the present surface geological plan. Request letter in this regard has been submitted to Department of Geology and Mining, Government of Gujarat on 01.11.2023. Acknowledgement of the same has been submitted by the Project Proponent.</p>
<p>Site Visit Recommendation Reply</p>		

1.	<p>PP should submit an action plan and timeline to indicate the purchase of lands across all three mining leases wherein it has proposed mining pits to initiate mining activities since as on date PP has only purchased / obtained surface rights over 101.1967 Ha out of 1351.6489 of Private Agriculture Land.</p>	<p>Action plan and Timeline indicating the purchase /obtain surface rights of land for mining for all three mining leases to initiate mining activities has been submitted by the Project Proponent.</p>
2.	<p>Since PP envisages to handover the land with shallow quarry having depth upto 4m to landowner</p>	<p>In said mine, survey has been conducted & one pit i.e. Pit No. 6 (Pit area -15.66 Ha) will have shallow depth pit and will be backfilled for entire depth of pits, looking to availability of soil for backfilling</p> <ul style="list-style-type: none"> • Pit no. 6 -15.66 Ha Pit area of avg. 3.25 m bgl for entire depth. <p>Action plan for backfilling of shallow depth pits of depth up to 4.0 m and handing over to farmers for agriculture has been submitted by the Project Proponent.</p>

	<p>s for farming and mostly all three mining leases are having agricultural land.</p> <p>PP is requested to conduct a survey to indicate the present status and number of low-lying areas, their respective which may be backfilled with available capacity of top soil/overburden and can be handed over to farmers for agricultural purpose.</p>	
3.	Project Proponent needs to provide year wise	Exploration plan of said mining lease has been submitted by the Project Proponent.

	exploration plan for all the three mining leases.	
4.	Since, Bhavnagar falls under severely Polluted Area category, PP shall ensure that during initiation phase itself they should include the provision of permanent water sprinklers across the haul roads in all three mining leases.	Chitra Industrial area (severely polluted area) in Bhavnagar city is located around 100 km away from our said mining lease area. On initial stage, company will engage water tanker with sprinkler arrangement to suppress the dust on haul road and company will make provision of permanent water sprinklers across the haul roads in all three mining leases.
5.	Since, Bellur and other schools are in close proximity to mine lease area, PP shall ensure that necessary safety measures are taken as per	Company will ensure to maintain require safety measures & distance from Bellur School & other schools as per DGMS norms for all three mining leases during mining.

	DGMS norms for all three mining leases.	
6.	PP shall ensure to construct bunds near the existing low lying areas that has developed into wetland to prevent the ingress of sea water in Padhiyarka and Doliya Limestone Mine lease area and Gujarada, Dudheri & Dudhala limestone mine lease area.	<p>The low lying area is where the rain water accumulates temporarily during monsoon. These are not notified as wetlands either under Ramsar Convention or by Central Govt. or State Govt. Hence, the identifications and provisions under Wetlands (conservation and Management) Rules, 2017 do not apply in this case as per clause 3 of aforesaid Rules.</p> <p>Moreover, Padhiyarka and Doliya Limestone Mine lease area and Gujarada, Dudheri & Dudhala limestone mine lease area are located at a distance of more than 500 m from High Tide Line of sea & also this area (between sea and low lying area in our mining lease area) have higher altitude, therefore, there is no chance of sea water ingress in mining lease area. However, company will construct bunds as and when required.</p>
7.	The project Proponent needs to submit the integrated management plan describing the strategies and actions for achieving	<p>There is no Ramsar convention/ Central or State Government notified wetland in and nearby our mining lease area. The water bodies such as river channels and human-made water bodies (such as submergence areas of Samdhiyala Bandahara, Malan Bandhara) are excluded from the definition of wetlands as per Wetlands (Conservation and Management) Rules, 2017.</p> <p>There are low lying areas, in which rain water accumulates temporarily during monsoon. Mining activity will contribute towards enlarging & deepening such areas in pit no. 2 & 3 of Padhiyarka & Doliya Mine and pit no. 5 & 6 of Gujarada, Dudheri & Dudhala making a positive contribution to fresh water storage.</p>

	<p>wise use of the wetland and the plan shall include objectives of the site management, management actions required to achieve the objectives, factors that affects, or may affect, the various site features, monitoring requirements for detecting changes in ecological character and for measuring the effectiveness of management, and resources for management implementation.</p>	<p>The company does not intend to have any other use for these low lying areas.</p> <p>As part of the integrated management plan for protection of water logged areas in and around the project, following steps shall be undertaken:</p> <ul style="list-style-type: none"> ● Company will not do mining below 2 m AMSL in this low lying area so that there is no salinity ingress due to mining activity. ● Piezometer will be installed at designated locations to monitor changes in ground water level. ● Other allied activities such as transportation will be carried out by maintaining safety distance from this low lying area ● In this area of Gujarat, water logging due to rain water is a common phenomenon and resident water birds take advantage of such seasonal water logging to feed. Hence, company has proposed several measures as part of the wildlife conservation plan, with 3-year budget, as follows: <ul style="list-style-type: none"> ■ Supporting 3 local NGOs for Conservation Awareness activities (Rs. 18 lakhs) ■ Provision for Rapid Rescue Vehicle for Wildlife (Rs. 10 lakhs) ■ Assisting Plantation activities to be carried out by Forest Department, Bhavnagar (Rs. 1.5 lakhs) ■ Nature/Eco-tourism guide & hospitality training 20 persons (Rs. 2.5 lakhs) ■ Provision of equipments, camera, binoculars for efficient monitoring and eco-tourism promotion (Rs. 7.5 lakhs) ■ Maintenance of shallow ponds/rainwater harvesting structures (Rs. 3 lakhs) ■ Van Sahayak 1 nos. on contract basis (Rs. 3.6 lakhs) ■ Public education and awareness programmes for the following - Avoiding plastic, Recycle and reuse, Reduce usage of pesticide and weedicide, Conservation of Wildlife, Garbage control (Rs. 3 lakhs). <p>Six-monthly third-party WLCP monitoring report preparation (Rs. 1.25 lakhs)</p>
8.	PP needs to engage and impart skill among	Company will not acquire any agriculture land through land acquisition by Govt. or without willingness of land owner and will purchase / obtain surface rights for mining on market commercial negotiated rates.

	<p>the villagers and local population mainly the land losers and also submit a plan for their alternate livelihood arrangement since most of them will be losing their fertile lands.</p>	<p>Land owners may purchase agriculture land in nearby area in the amount which is to be paid to them against their land and can continue their livelihood.</p> <p>Company will give priority to engage land owners who have given land for mining purposes as per requirement of manpower for mines.</p> <p>Also, company will arrange to impart training to build capacity for self-employment [stitching, embroidery, tailoring, pickles, dairy improvement, poultry farming, etc.] to land losers and will facilitate vocational training along with skill development for getting better job opportunities (Budget Rs. 3 lakhs/year).</p>
9.	<p>PP should widen the existing village roads before using it for transportation in all three mining leases, wherever widening is not possible, PP shall submit an action plan for making alternate roads.</p>	<p>On initial stage, company has proposed to mine out limestone for Soda ash plant in lower capacity and company will use existing village road for transportation of limestone by maintaining the existing village road as number of trips of truck / dumpers will be very less i.e. around 18 numbers of trips/day maximum in this mine.</p> <p>Company will widen the existing village road or make alternate road in all three mining leases on installation of cement plant. Section plan of the road widening has been submitted by the Project Proponent.</p>
10.	<p>PP should engage wildlife</p>	<p>Company has already engaged wildlife expert / avian expert for conservation of the avian fauna within and near its mine lease.</p>

	experts/ avian experts for conservati on of the avian fauna within and near its mine lease.	
11.	PP shall plant native fruit bearing plants across all the proposed green patches.	Native fruit bearing plants will be planted across all the proposed green patches.
12.	PP shall put boundary pillars across all mining leases.	Company had erected boundary pillars at the time of lease deed execution and got authentication of all boundary pillars co-ordinates through the DILR / State Govt. and provided in the approved mining plan for all three mining leases. Some pillars have been dislodged/ removed by local people. Company will put such boundary pillars again prior to commencement of mine so that they can be maintained.
13.	The project proponent needs to submit a letter from the Departmen t of Geology & Mining, Govt. of Gujarat, clarifying whether any illegal mining within the	The company has not carried out any illegal mining in the lease area and request letter to provide required certificate regarding no mining carried out by company or others has been submitted to the District Geologist, Department of Geology and Mining, Government of Gujarat, Bhavnagar vide letter dated: 01.11.2023. In turn, the District Geologist, Bhavnagar has submitted his report to the Commissioner of Geology & Mining, Govt. of Gujarat, Gandhinagar vide its letter dated: 01.02.2024 to communicate the same to MoEF and copy endorsed to us. As per his report, No case of Illegal mining of limestone mineral has been registered within the mining lease area against the company M/s Nirma Limited or against any other individual or entity. Copy of our submitted letter dated: 01.11.2023 and copy of report of the District, Geologist, Geology & Mining Dep't,

	mine lease area has been carried out or not and whether the same has been carried out by M/s Nirma Limited or not?	Bhavnagar dated 01.02.2024 has been submitted by the Project Proponent.
14.	PP needs to submit plan to transport crushed limestone from all the three leases to plant.	<p>The mine is captive mine to proposed cement plant at Padhiarka, Mahuva and High grade limestone to be used in company's own existing Soda Ash plant located as Kalatalav, Bhavnagar.</p> <p>The cement plant is adjoining to the mine lease while the Soda ash plant is located around 100 km away and accessed through National Highway.</p> <p>Establishment of cement plant may take some time while the soda ash plant is already operational.</p> <p>Hence, till the commencement of proposed cement plant, maximum 5% i.e. 450 TPD limestone will be transported to Soda ash plant located near Bhavnagar through dumpers @18 trips per day. The trucks will pass through existing Dudhala - Amrutvel village road of 7 m width (out of which 4 m is black topped) for around 1.0 km and meet National Highway no. 51, from where the truck will move around 100 km.</p>
15.	PP needs to take some measures to keep the migration bird ponds un harmed and protected by activity of mining in future.	<p>Migratory birds are seen in Malan Bandhara as well as other nearby Bandhara areas, which areas located at distance of 1.5 km and 4.5 km from our mining lease area, respectively.</p> <p>Birds are also seen in low lying area, in which rain water accumulates temporarily during monsoon. However, they are pre-dominantly resident water birds.</p> <p>The company is committed to the measures proposed in the site specific wildlife conservation plan (summarised in point 7 earlier), which include points related to protection of shallow ponds, ecology and birds.</p>

		The company will mine above 2m AMSL in low lying areas to maintain the fresh water nature of the water in it. The enlarging of the low lying area in pit no. 2 & 3 of Padhiaryka & Doliya Mine and pit no. 5 & 6 of Gujarda, Dudheri & Dudhala will provide more area to birds. Also company will ensure that transportation will be carried out by maintaining safety distance from low lying areas.
16.	PP needs to install water treatment plant to reduce the hardness of water.	Drinking water is provided in every nearby villages through Narmada water pipeline by the State Govt. and drinking water requirements for mines shall also be fulfilled through Narmada water pipe line which is passing through nearby area. Hence, presently there is no proposal to use the hard ground water. However, if any requirement sought in future we will provide treatment plant.
17.	PP needs to explore possibility of deploying surface miners for mining.	<p>Company has proposed mining with surface miner (50% quantity) in IBM approved mine plan and also in EIA report. Company explored use of Ripper dozer for cement plant use to eliminate drilling & blasting in the remaining 50% and committed the same in point no. 3, Specific Terms of Reference received from MOEF&CC vide Letter no. J-11015/154/2016-IA. II(M) dated November 28, 2022.</p> <p>For soda ash plant, we need sized limestone i.e. 25 mm to 100 mm, so surface miner cannot be deployed for limestone mining for Soda ash plant use. However, company will deploy rock breaker to avoid blasting during mining.</p>

xviii. Details of the Environmental Management Plan (EMP):

Activities	Capital cost (Crores)	Recurring cost (Lakhs/annum)
Pollution Control	0.291	10.12
Pollution monitoring	0.016	3.88
Occupational health	0.014	0.95
Environmental Studies, etc.	0.10	–
Green belt	–	5.10
Reclamation	–	10.03
Others (Environmental studies, Rehabilitation, Realignment, Expert advice, fencing etc.)	–	5.48
Overheads	–	0.32
Total	0.421	35.87

xix. Details of project cost and employment:

Particulars	(Rs. In Crore)
Total cost of EMP (Capital Cost of EMP + capital cost of Public hearing)	1.19
Project Cost	25
Employment (No.s)	84

3. Observation and Recommendation of EAC:

The EAC deliberated the instant proposal along with Vangar & Madhiya Limestone Mine and Padhiarka and Doliya Limestone mine. The Project Proponent presented its reply to the ADS points raised vide minutes of the 21st EAC as well as the recommendation of the sub-committee. After detailed deliberations, EAC **deferred** the proposal for the want of following information:-

- i. The Proponent shall submit No Objection Certificate from Ministry of Defence for consideration of the instant project.
- ii. PP needs to undertake a study to showcase the probable impact of mining on migratory bird species and their fly-way passage (Central Asian Flyway). Accordingly, PP shall submit the revised conservation plan for the migratory bird species.
- iii. The Project Proponent needs to undertake a study and submit the action for laying common Over Land Belt Conveyor(OLBC) for transportation of mineral from mine lease area to the proposed Cement Plant.
- iv. The project proponent needs to submit a letter from the Commissioner of Geology & Mining, Govt. of Gujarat, clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s Nirma Limited or not?
- v. PP submitted that National Highway is under construction, and they have submitted letter to National Highway Authorities of India(NHAI) regarding grant of permission to provide Underpass near their proposed cement plant entry. Accordingly, PP needs to submit the permission letter for the underpass.
- vi. The Project Proponent needs to carry out study by reputed institute to ascertain hardness of strata for deployment of surface miners for mining.
- vii. The Project Proponent needs to submit time line for acquiring land from the villegers.

1.4 Padhiarka and Doliya Limestone mine for mining of Limestone with production capacity of 1.5 MTPA in the mine lease area of 332.24 ha by M/s Nirma Limited located at Villages Padhiarka & Doliya, Tehsil Mahuva, District Bhavnagar, Gujarat – Reconsideration for Environmental Clearance reg[Online Proposal No. IA/GJ/MIN/443206/2023, F.No. J-11015/154/2016-IA.II(M)][EIA Consultant: M/s Centre for Envotech and Management Consultancy Pvt. Ltd]

The proposal is for Environmental Clearance for Padhiarka and Doliya Limestone mine for mining of Limestone with production capacity of 1.5 MTPA in the

mine lease area of 332.24 ha by M/s Nirma Limited located at Villages Padhiarka & Doliya, Tehsil Mahuva, District Bhavnagar, Gujarat.

2. The details of the project as ascertained from the document submitted by the Project Proponent and as revealed from the discussions held during the meeting are given as under:

- i. The mine lease area is located between Latitude 21°00'42.8152" N to 21°02' 9.7579" N and Longitude 71°40'10.0006"E to 71°41'9.9043"E. The mine lease area falls under the Survey of India Toposheet No: F42R12 and falls in Seismic Zone-III.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.
- iii. Details of Terms of Reference (ToR):

Date of application	Proposal No/ File No	Consideration by EAC	Details of ToR	Date of accord
18.11.2022	IA/GJ/MIN/406830/2022	06.12.2022	Letter no. J-11015/153/2016-IA.II (M)	6 th February, 2023

iv. Details of Mine Lease: -

S.No.	Prospecting License/ Letter of Intent (LoI)/ Grant of Mine lease and Lr No	Date of the grant	Name of the Mineral & (Major/ Minor)	Period of Grant	Granted by	Mine lease area in Ha
1	MCR-102004-1943-CHH	15.02.2008	Limestone	30 years	IMD, Government of Gujarat	1497.4701
2	MCR-102004-1943-CHH	02.02.2011	Limestone	30 years	IMD, Government of Gujarat	1489.4701
3	MCR-102004-1943-CHH	08.01.2017	Limestone	50 years	IMD, Government of Gujarat	681.62

S. No	Details of grant of Mine Lease deed execution	Period of Grant		Name of the Mineral	Mine lease area in Ha
		From	To		
1	MCR-102004-1943-CHH	11.01.2017	10.01.2067	Limestone	681.62

v. Land Use/Land Cover of the Mine Lease Area:

Private land	565.9454
Government land	115.6746
Forest land	-
Total Mining lease area (MLA), ha	681.62
Private land for crusher, workshop & other infrastructure outside the MLA	No any facilities outside the ML area. However crusher will be installed at company's Cement Plant.

vi. Mining plan details:

Mining Plan including Progressive Mine Closure Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	File No.: 684(4)(1)/MP-348(197)/2021-22 GNR/1121
	Date	04.08.2021
	Mineral & (Major/Minor)	Major
	Mine Lease Area, Ha	681.62
	Validity	31.03.2026
Mining Parameters	Quantitative Description	
Method of Mining	Opencast mechanized	
Drilling/Blasting	Multi-row drilling and V-pattern drill holes for deep hole drilling and blasting. Slurry explosive -cap sensitive and non-cap sensitive.	
Geological Reserves	57.280 Million tonne	
Mineable Reserves	20.574million tonne	
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/Waste, MTPA)	Top soil- 0.57 mi.cum OB/SB/IB/Mineral Rejects- Nil Waste-Nil	
Life of mine	11 years (Life of mine may be increased subject to conversions of resources under 333 category into category of reserves 111)	
Mine Bench Height & Bench Width	6.0 m, for working bench 12-15 m for closing (conceptual) bench Optimum	
No. of Mine Benches	2	
Existing Depth, m bgl	New mine	
Ultimate Depth of Mining, m bgl	10 m	
Ground Water Table, m bgl	15.5 m (Post monsoon)	
Details of ground water intersection	No ground water will be encountered during planning stage i.e. in working plan in neither pre monsoon nor post monsoon season in any of the	

	pits. Ground water will also not intersect during mining at the end of mine life.
Individual bench slope	80-85°
Overall pit slope	~ 45°
Details of existing/ proposed Crusher	Proposed crusher will be installed at Cement Plant.
Mineral Beneficiation	-
RoM output size	-
Transportation details including capacity of dumper/tipper, mode of transport and distance	Internal haul road from mine face to crusher and by conveyor from crusher to the Cement plant adjacent to the mine lease. For the Soda Ash Plant located at approx.100 km at Kalatalav, Bhavnagar limestone will be transported in dumpers/ trucks through National Highway 51. Internal haul road from mine face to crusher means of dumper/tippers of 25 tonnes capacity.
Generation of Topsoil/OB & its Management during plan period & conceptual period	Top soil at plan period- 249806 cu.m, temporary stacking at one location Top soil at conceptual period-321394 cu.m, simultaneously backfilling
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	Nil
Additional information(if any)	Surface miner as well as ripper/dozer & rock breaker will be used for mining to minimize drilling & blasting.

vii. Water requirement:

Total water requirement	44 KLD	Fresh water	3 KLD
		Treated water	41 KLD
Source	i. Fresh water source Narmada water pipeline/Water tanker. ii. Water harvested within mine lease during rainy season. iii. Treated water source- Reject water of RO /DM plant &Reject water of RO /DM plant (proposed at Cement plant)		
Permission for withdrawal/ intersection along with details of grant and its validity	Permission for water withdrawal from Narmada water pipeline has been taken vide letter No. GWIL/Bhavnagar/Ind.conn./1257 dated 4.06.2008.		

viii. Nearest village/town/ highway/interstate boundary/railway station/water bodies/monument/ forest

Particulars	Particular's Name	Distance & Directions
Village	Gujarda, Dudheri, Dudhala Madhiya Padhiarka	0.2-0.5 km 0.5 km, NW 0.5 km, W
Town	Mahuva	4.0km, NE
Highway	NH-51 (Una-Mahuva highway)	Within
Interstate Boundary	Rajasthan	Approx.500 KM,N
Railway Station/Railway line	Amrutvel	2.0km, N
Water Bodies	Arabian Sea Coast	0.5 km, S from the HTL
	Samdiyala Salinity ingress control bund	4.5 km, WSW
	Malan Bandhara	1.5 km E
	Malan River	4.4 KM,E
	Bhambhali River	5.4 Km, W
Forest	Garasawo River	0.9 KM,NE
	RF near Patwa	2.8 KM,SW
	RF near Doliya	7.4 KM,E
	RF near Dudheri	0.6 KM,S
	RF near Gujarda	0.3 KM,S
	RF near Khared	2.1 KM,E

ix. Presence of Environmentally Sensitive areas in the study area

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks				
Forest Land within the mine lease area and (if yes) status of Forest Clearance	No	The Project Proponent has submitted the letter from the Office of the Principal Chief Conservator of Forests vide Lr.No: WLP/32/C826-827/2021-22 dated 13.01.2022 regarding the map showing the location of protected areas within 10km of the Limestone mining project and the and distance of protected areas and proposed Limestone mine.				
National Park	No					
Wildlife Sanctuary	No					
Elephant/Tiger Reserve	No					
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area (ESA)	No					
		<table border="1"> <thead> <tr> <th>Protected areas</th> <th>Distance between</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table>	Protected areas	Distance between		
Protected areas	Distance between					

		<table border="1"> <tr> <td></td> <td>Limestone mines and Protected areas</td> </tr> <tr> <td>Gir National Park</td> <td>79.0 km</td> </tr> <tr> <td>Gir Wildlife Sanctuary</td> <td>47.6 km</td> </tr> <tr> <td>Mitiyala Wildlife Sanctuary</td> <td>46.7 km</td> </tr> </table> <p>The Project Proponent has submitted the letter from the Office of the Deputy Chief Conservator of Forest, Bhavnagar vide letter no. A/GMN/T11/2075/22-23 dated 27.01.2023 certifying that the nearest turtle rearing/breeding site is located at a distance of about 70km away from the mines.</p>		Limestone mines and Protected areas	Gir National Park	79.0 km	Gir Wildlife Sanctuary	47.6 km	Mitiyala Wildlife Sanctuary	46.7 km
	Limestone mines and Protected areas									
Gir National Park	79.0 km									
Gir Wildlife Sanctuary	47.6 km									
Mitiyala Wildlife Sanctuary	46.7 km									
Coastal Regulation Zone (CRZ)	No	The Project Proponent has submitted the letter from the Government of Gujarat, Forest and Environment Dept vide Lr no.ENV-10-2023-170-T dated 19.07.2023 stating that the proposed project of mining at Padhiarka & Doliya mine lease (333.24 ha), District Bhavnagar is outside CRZ area.								
Schedule-I species (No.s and name of schedule-I species with authenticated letter)	Yes	<p>The Project Proponent has submitted the authenticated list of flora and fauna from the Office of the Deputy Forest Conservator vide Lr.No: A/Jaman/Te.11/2302/ 17-18 dated 05.02.2018 stating that there are three Schedule-I species such as Peafowl, Chinkara and Asiatic lion in the study area.</p> <p>After the amendment of the Wild Life (Protection) Amendment Act, 2022, No 18 of 2022, a number of additional species have been added into Schedule I such as Leopard, Striped hyaena, Jackal, Bengal fox, Indian porcupine, Jungle cat, Grey wolf, Dog faced water snake, Russell viper,</p>								

		<p>Checked Keelback, Indian Rat snake, Red sand boa and Naag/cobra.</p> <p>Peafowl, Chinkara and Asiatic lion & as per Wildlife Protection Amendment Act, 2022, schedule-I species have been updated in WLCP.</p>
Wildlife Conservation Plan	Yes	<p>On the basis of the fauna study findings & list of fauna authenticated by Forest Department, Wildlife Conservation Plan was prepared and submitted for approval. The said Wildlife Conservation Plan had been approved by the Forest Department on 20.12.2021. Rs. 19.9 lakh has been approved for the conservation of wildlife in the study area. As suggested by EAC & latest Wildlife Protection Amendment Act, 2022, budget allocation for WLCP has been increased from Rs.19.9 Lakh to Rs.65.9 Lakh for all 3 mines.</p> <p>The Wildlife Conservation Plan was approved by the Chief Wildlife Warden vide Lr.No: WLP/32/C670-672 dated 20.12.2021 with a budget of Rs. 19.9 Lakhs for the conservation of wildlife in the study area.</p>

x. Green belt/plantation details:

Proposed area for green belt/plantation and no. of saplings proposed	30.00 Ha.
Budget for green plant & plantation till the end of life of mine.	90.95 Lakhs
Budget for nursery	-
Details of existing plantation and its survival rate	-
No. of tree cuts in the mine lease area and compensatory afforestation	As per actual during mining
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	10.0
50 m safety zone of nallah, roads, electric lines	10.0

500 m safety zones of nearest habitation villages	-
Additional information (if any)	10.00 ha(Backfilled area (Govt. wasteland))

xi. Baseline detail:

Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)	
Period of baseline data collection	01.03.2021 to 02.06.2021
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Summer
Predominant Wind direction (From)	South
Ambient Air Quality (no. of locations) and results	16
Noise level (no. of locations) and results	16
Water Quality (no. of locations) and results	15
Soil Quality (no. of locations) and results	12
Hydro geological study and results	As per planned mining and Report of hydrogeological & hydrological studies of core and buffer zone of Gujarda, Dudheri & Dudhala limestone mine, the ground water table may get Intersected in post monsoon during 11th year at conceptual pit bottom level of +1.0 AMSL. However, conceptual pit bottom level will be kept above ground water level i.e. +4.0m AMSL to avoid intersecting ground water level.
Traffic study (no. of locations) and results	The traffic volume survey was conducted on Bhavnagar to Una Road (NH8E/51) Near Vangar Village. Total numbers of vehicles were found as 6793 per day and equivalent PCUs is 9382 per day. There will be daily movement of 480 numbers of dumpers (to & fro) per day or 1440 PCU/ day on the road. 01 location & V/C = 31.27

xii. Public Hearing (PH) Details:

Advertisement for PH with date (name of major national daily and one regional vernacular daily newspaper)	26.03.2023 in Sandesh Newspaper & Indian Express
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Date of PH	28.04.2023
Venue	At the premises of Nirma Cement Plant Area, NH 8E/51, Survey No. 80, Village: Padhiyarka, Taluka: Mahuva, Dist. Bhavnagar
Chaired by	District Collector & District Magistrate, Bhavnagar District & Regional Officer, GPCB Bhavnagar
Main issues raised during PH	Air pollution, salinity ingression, wildlife protection, acquisition of agriculture land
Budget proposed for addressing issues raised during PH over 3 years	Rs. 77 Lakhs

xiii. Details of CTE/CTO, Certified Compliance Report, Certified Production Details from the inception of the mine:

Particulars	Details of Letter along with date of grant and validity
Consent to Establish	GPCB CTE granted vide dated 25/01/2021 & valid upto 24/01/2028.
Consent to Operate	-
Certified Compliance Report and Inspection date	-
Certified Production Details from the inception of the mine (in tabular form against the EC capacity)	Fresh mine

xiv. Rehabilitation & Resettlement (R&R):

R & R details	The total mine lease area is 332.24 ha, out of which Govt. land is 133.0154 ha and Private land is 199.2246 ha. Land will be required for quarrying an area of 100.61 ha of Private land and Government land including 08 houses/hutment in Padhiarka village and 27 houses/hutment in Doliya villages. The houses/hutment fall in the conceptual pits of the mine lease. There will be total of 683 project affected land losers. There will be direct purchase or leasing of private land, with the willing consent of the private land owners. Approx. total compensation will be Rs 35.0 Lakhs. In addition to above, the registration cost of sale of the land and homesteads shall be borne by the Company. Assuming it to be 6% of the entire costs of sale, the
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	total resettlement budget works out to be Rs. 59.93 lakhs (6% of land value).
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xv. Court case details:

Court Case, No and its present status	The Project Proponent has submitted an undertaking vide letter dated 07.10.2023 stating that there is no litigation on the project either at NGT or any other court of law related to environment and pollution matters in which the project proponent is a respondent.
Undertaking by Project Proponent w.r.t court case	

xvi. Affidavit/Undertaking details:

Affidavit as per Ministry's OM dated 30.05.2018	The Project Proponent has submitted an undertaking by way of notarized Affidavit dated 09.10.2023 stating that the proposal does not involve violation of Ministry's OM dated 30.05.2018.
Undertaking by Project Proponent in EIA/EMP report	The Project Proponent has submitted an undertaking vide letter dated 04.01.2023 stating that the contents (information and data) as given by the Consultant in the EIA/EMP report are factually correct with full knowledge of the undersigned (Shri Ashish Desai).
Undertaking by Consultant in EIA/EMP report	The Director of the EIA Consultant (M/s Centre for Envotech & Management Consultancy Pvt. Ltd) has informed that the baseline data was generated by MoEF & NABL Accredited Laboratory M/s Min Mec R&D Laboratory, a division of Min Mec Consultancy Pvt. Ltd., New Delhi and the same has been verified and also confirmed that he shall be fully accountable for any misleading information mentioned in this statement.
Plagiarism Certificate	

xvii. Earlier the Proposal was considered in the 21st EAC meeting held during 18-20th October, 2023 wherein the Committee has deferred the proposal for the submission of requisite information. The Project Proponent ha submitted the relevant information on Parivesh are as follows:

S	Observation of EAC in the 21st meeting	Reply by Project Proponent
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No	held during 18-20th October, 2023	
1.	The site visit report of the subcommittee.	Site visit has been conducted by subcommittee on 22nd - 25th December, 2023.
2.	Since the mine site is located within 20 km from seaboard frontier, the Project Proponent shall submit No Objection Certificate from Ministry of Defense for consideration of the instant project.	<p>Project Proponent has submitted a letter for issuance of NoC/Clearance from Ministry of Defence vide application dated 10.11.2023.</p> <p>We also have submitted letter to Department of Geology & Mining, Govt.of Gujarat, Bhavnagar for recommendation to issue NOC to Ministry of Defense, Govt.of India vide application dated 07.12.2023.</p> <p>As per our understanding, there is no clarity or guideline in respect of process to be followed to obtain NoC of Ministry of Defense(MoD), therefore, our humble request is that issue the EC without condition of obtaining NOC from MoD.</p>
3.	The Project Proponent needs to submit the action for laying common Over Land Belt Conveyor (OLBC) for transportati	<p>The mine is captive mine to proposed cement plant at Mahuva and Highgrade limestone to be used in company's own existing Soda Ash plant located at Kalatalav, Bhavnagar as per permission accorded by the Govt. of Gujarat vide letter dated: 17.08.2023.</p> <p>The cement plant is adjoining to the mine lease while the Soda ash plant is located around 100 km away and accessed through National Highway.</p>

<p>on of mineral from mine lease area to the Cement Plant. The Project Proponent also needs to submit the action plan for expansion of road with a width of 7m and by passing the village road till the commission of the Over Land Belt Conveyor (OLBC).</p>	<p>Establishment of cement plant may take some time as the appeal is pending before Hon'ble Supreme Court while the soda ash plant is already operational.</p> <p>Hence, till the commencement of proposed cement plant, maximum 5% i.e. 450 TPD chemical grade limestone will be transported through dumpers @18 trips per day via existing village road of 7 m (out of which 4 m is black topped) to National Highway and ultimately Soda Ash plant at Bhavnagar.</p> <p>Company is very much keen to establish cement plant as early as possible & will produce & consume required limestone for cement manufacturing on its highest rated capacity.</p> <p>We assure your kind authority that we will widen the black top of the existing village road from mines to National Highway prior to commencement of Proposed Cement Plant. Section plan of proposed road black top widening has been submitted to the MoEF&CC.</p> <p>Also, as discussed during the EAC meeting, we will explore the possibility of Over Land Belt Conveyor (OLBC) on either side of the highway based on the technical possibility & feasibility by reputed consultant. We are going to approach M/s. Holtec Consultants for regulatory, commercial & technical feasibility for above stated OLBC.</p>
<p>4. The Project Proponent needs to explore the possibility of laying over bridge over the Highway and shall submit the permission from the National Highways</p>	<p>Since, the National Highway is under construction, we have submitted letter to National Highway Authorities of India(NHAI) regarding grant of permission to provide Underpass near our cement plant entry point or any other option suggested by NHAI for transportation of raw material & finished product. Acknowledgment dated 23.10.2023 has been submitted.</p>

	Authority of India (NHAI).	
5.	The Project Proponent needs to submit the protection measures to be taken for salt water intrusion and the effectiveness of the salinity ingress control bund.	<p>Samdhiyala Salinity Ingress Control bund (Samdhiyala bund) was constructed by Government of Gujarat in the year 2000 on Motpet Creek to prevent sea water from coming towards landward side. On the landward side, rain water gets accumulated as well.</p> <p>Presently, the accumulated rain water of Samdhiyala bund is being used during post monsoon by adjoining agriculture land owners and in other seasons they are extracting ground water through borewell. For agriculture land which is away from Samdhiyala bund, farmers are extracting ground water through borewell for agriculture due to which salinity & TDS are increasing in ground water.</p> <p>As per company's water management strategy, after commencement of cement plant, company will undertake deepening of 100 ha surrendered land out of our total allotted plant land and also pledged to construct garland drains around the proposed plant area which will improve the overall fresh water storage capacity of Samdhiyala bund on landward side. Regular desiltation of canal will improve water retention capacity of Samdhiyala bund.</p> <p>At the time of mining, bottom level of conceptual pit will be kept above ground water level to avoid intersection.</p> <p>Hydrogeological monitoring network will be established by constructing piezometers in and around the lease.</p> <p>During mining, present hydrological system will keep intact by constructing garland drain around the pits to maintain present hydraulic gradient towards the Samdhiyala Bund.</p> <p>After exhaustion of mineral, voids left will act as natural water harvesting structures. Collected rain water will stand and gradually percolate into the sub surface water & in long term improve the quality of ground water.</p>

		<p>Positive pressure of fresh water on landward side will be created, which will aid in pushing back the saline front, which may be at a lower elevation.</p> <p>In view of the above, due to mining there is no possibility of salt water intrusion in the area & effectiveness of the salinity ingress control bund as well as hydrogeological system of bund will not be disturbed & infact will significantly improve the effectiveness of salinity ingress control bund.</p>
6.	<p>The Project Proponent needs to submit the site specific mitigation measures for backwaters from Arabian Sea coming into the mine lease area.</p>	<p>In this regard, following site specific mitigation measures will be taken:</p> <p>Arabian Sea is situated at distance of more than 0.5 km in the south of the said mine lease and is clearly outside the CRZ area which is certified by GCZMA. Letter dated 19.07.2023 has been issued to M/s Nirma Ltd. from GCZMA.</p> <p>There was only one probability of sea water coming to mine lease area which is through Motpet Creek. Samdhiyala Salinity ingress bund has been constructed on Motpet Creek to restrict backwater coming from Arabian sea towards landward side. Therefore, there is no possibility of backwater from Arabian sea to come to mine lease area.</p> <p>Hydrogeological monitoring network will be established by constructing piezometers in and around the lease to monitor the water level & water salinity.</p> <p>Positive pressure of fresh water on landward site will be created due to water storage in mine pits, which will aid in pushing back the saline front as well.</p>
7.	<p>The Project Proponent needs to revisit the plan for backfilling with clearly indicating the voids area and the capacity available/required for backfilling.</p>	<p>The Indian Bureau of Mines, Govt. of India, Gandhinagar has approved the Mining Plan vide its letter dated: 05.08.2021 for the period of 5 years i.e. up to 2025-26.</p> <p>As per approved Mining Plan, Removal of soil and its disposal as below.</p> <p>Year: FY 2021-22 to FY 2025-26</p> <p>Removal of soil(cum):249806</p> <p>Means of disposal: *Temporary stacking at one location near Proposed Pit no.1.</p>

		<p>Then, temporary stacked soil will be shifted for Backfilling of shallow pits of around 4.0 m depth (Proposed Pit No. 6) after five year mine plan period. A map has been submitted.</p> <p>Area covered under stacking (ha): 6.20</p> <p>Year: FY 2026-27 to FY 2031-32</p> <p>Removal of soil(cum):321894</p> <p>Means of disposal: *Temporary stacking at one location till 2026-27 and then, temporary stacked soil will be shifted for Backfilling.</p> <p>Simultaneously Utilized for Back filling of shallow pits of around 4.0 m depth Proposed Pit No. 6.</p> <p>Then, temporary stacked soil will be shifted for Backfilling of shallow pits of around 4.0 m depth (Proposed Pit No. 6) after five year mine plan period. A map has been submitted.</p> <p>Area covered under stacking (ha):Nil</p> <p>Total</p> <p>Removal of soil(cum): 571200</p> <p>Area covered under stacking (ha): nil</p> <p>Looking towards availability of topsoil, backfilling of part area is envisaged.</p> <p>Total voids area envisaged till conceptual period = 114.24 ha</p> <p>Total soil removal envisaged till conceptual period = 0.57 million cum</p> <p>(114.24 Ha *0.5 m avg. soil thickness)</p>
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		<p>Total backfilling area envisaged till conceptual period = 15.66 ha</p> <p>Ultimate Dimensions of Pits at the end of conceptual period</p> <p>Pit No.: 1</p> <p>Pit Area covered (ha):49.56</p> <p>Pit Top (m AMSL):20 to 14</p> <p>Pit bottom (m AMSL): 10</p> <p>Pit Depth in in m: 10 to 4</p> <p>Pit Area covered by backfilling(ha): No backfilling proposal</p> <p>Pit No.: 2</p> <p>Pit Area covered (ha):12.78</p> <p>Pit Top (m AMSL):13 to 11</p> <p>Pit bottom (m AMSL): 8</p> <p>Pit Depth in in m: 5 to 3</p> <p>Pit Area covered by backfilling(ha): No backfilling proposal</p> <p>Pit No.: 3</p> <p>Pit Area covered (ha):14.40</p> <p>Pit Top (m AMSL):13 to 11</p> <p>Pit bottom (m AMSL): 6</p> <p>Pit Depth in in m: 7 to 5</p> <p>Pit Area covered by backfilling(ha): No backfilling proposal</p> <p>Pit No.: 4</p> <p>Pit Area covered (ha):17.51</p> <p>Pit Top (m AMSL):17 to 12</p>
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		<p>Pit bottom (m AMSL):11</p> <p>Pit Depth in in m: 6 to 1</p> <p>Pit Area covered by backfilling(ha): No backfilling proposal</p> <p>Pit No.: 5</p> <p>Pit Area covered (ha):4.33</p> <p>Pit Top (m AMSL):15 to 13</p> <p>Pit bottom (m AMSL):6</p> <p>Pit Depth in in m: 9 to 7</p> <p>Pit Area covered by backfilling(ha): No backfilling proposal</p> <p>Pit No.: 6</p> <p>Pit Area covered (ha):15.66</p> <p>Pit Top (m AMSL):10.5 to 4</p> <p>Pit bottom (m AMSL):4</p> <p>Pit Depth in in m: 6.5 to 0</p> <p>Pit Area covered by backfilling(ha): Backfilling of pit area of 15.66 Ha for entire depth – 570000 cu.m</p> <p>Total</p> <p>Pit Area covered (ha): 114.24</p> <p>Pit Area covered by backfilling(ha): 15.66 Ha (570000cu.m)</p>
8.	The Project Proponent needs to revise the activities proposed under the Wildlife Conservation Plan. The	As advised, revised wildlife conservation plan incorporating the Schedule-I species as per the latest Wildlife Protection Amendment Act, 2022 has been submitted.

	<p>Project Proponent also needs to ensure that the Schedule-I species as per the latest Wildlife Protection Amendment Act, 2022 shall also be included in the Wildlife Conservation Plan for their conservation.</p>	
<p>9.</p>	<p>The EAC was of the view that the compensation rate is very less and asked the Project proponent to revisit and justify the budget proposed for Resettlement & Rehabilitation (R&R). The Project</p>	<p>Type of land: Private Land rate, Rs. Lakh/ ha: 13.00 * Land requirement, ha: 100.22 Total Amount Rs. lakhs: 1302.86</p> <p>Type of land: Government Land rate, Rs. Lakh/ ha: On mining lease Land requirement, ha: 14.02 Total Amount Rs. lakhs: _</p> <p>Total Land requirement, ha: 114.24</p>

<p>Proponent also needs to submit the action plan for land acquisition and timeline.</p>	<p>Total Amount Rs. lakhs:1302.86</p> <p>Total amount given considering as per DLC rate. However, land will be procured/get consent for mining purpose on mutual agreed market rates.</p> <p>Total amount given considering as per DLC rate. However, land will be procured/get consent for mining purpose on mutual agreed market rates.</p> <p>Type of homestead:Pucca Rate, Rs. /sq.m.: 10000 Approx. Homestead area**, sq.m.:360 Total compensation, Rs. lakhs: 36</p> <p>Type of homestead:Semi pucca Rate, Rs. /sq.m.: 5000 Approx. Homestead area**, sq.m.:360 Total compensation, Rs. lakhs: 36</p> <p>Type of homestead:Kutchra Rate, Rs. /sq.m.: 2000 Approx. Homestead area**, sq.m.:360 Total compensation, Rs. lakhs: 36</p> <p>Total Approx. Homestead area**, sq.m.: 360 Total compensation, Rs. lakhs: 36</p> <p>Company will consider homestead losers falling in proposed mine area on actual basis at the time of starting of mining</p>
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		<p>activity and such homestead losers shall be compensated on mutually agreed commercial terms.</p> <p>Since the land owners as well as homestead owners shall be compensated on commercial terms, therefore, they will have better economic strength to rehabilitate or reinvest the compensation amount. Hence, no separate R & R plan is envisaged.</p> <p>Action plan for land acquisition and timeline is as below:</p> <p>Sr. No: 1 Timeline for land requirement(present)</p> <p>Sr. No.:1.1 Timeline for land requirement(present): purchased</p> <p>Pvt. Land:49.49 Govt. land:0 Total: 49.49</p> <p>Sr. No.:1.2 Timeline for land requirement(present): Consented</p> <p>Pvt. Land:25.67 Govt. land:0 Total: 25.67</p> <p>Sr. No.:1.3 Timeline for land requirement(present): Leased</p> <p>Pvt. Land:0 Govt. land:115.67 Total: 115.67</p>
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		<p>Sr. No: 2</p> <p>Timeline for land requirement(Future)</p> <p>Sr. No.:2.1</p> <p>Timeline for land requirement(present): 1st to 5th year mining</p> <p>Pvt. Land: 54.21</p> <p>Govt. land:0.02</p> <p>Total: 54.23</p> <p>Sr. No.:2.2</p> <p>Timeline for land requirement(present):6th year to Conceptual stage -11th year</p> <p>Pvt. Land: 102.70</p> <p>Govt. land:14.04</p> <p>Total: 116.74</p> <p>Sr. No.:2.3</p> <p>Timeline for land requirement(present):Minelife (up to lease period)</p> <p>Pvt. Land: 565.94</p> <p>Govt. land:115.67</p> <p>Total: 681.62</p> <p>Mining lease deed has already been executed for said mining lease so mining can be started in Govt. lease land. As far as private land is concerned, company has obtained surface rights for mining by purchasing land/consent in some of the land & for remaining land, company is in process to procure ownership or surface right for mining on mutually agreed commercial terms. We hereby assure that company will obtain surface rights of the</p>
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		land before entry in pvt. land for starting mining activity in the mining lease area.
1 0	The Project Proponent needs to submit the action plan for year wise exploration program.	<p>The Indian Bureau of Mines, Govt. of India, Gandhinagar has approved the Mining Plan vide its letter dated: 05.08.2021 for the period of 5 years i.e. up to 2025-26.</p> <p>Looking towards the systematic exploration of the entire area, 182 nos. of Core Bore Holes has been proposed in the area in order to bring the ML area within G1 stage in accordance with MEMC Rules 2015 and MCDR 2017 as per approved mining plan.</p> <p>The deposit is sedimentary origin and simple in nature, therefore boreholes are kept at an interval of 200m grid pattern. A total of 182 number of Core Boreholes are proposed up to a level of +1.0 MRL . Initially BH drilling shall be at an interval of 400m. If limestone potentiality proves, then further BH can be done closely at 200m interval. All proposed BH shall be drilled vertically. The exploration shall be carried out in five years of working i.e. year 2021-22 to 2025-26. Exploration shall be carried out as shown in table to bring BH at 200m interval.</p> <p>Program of Future Exploration</p> <p>YEAR:2021-22 to 2025-26</p> <p>No. of BH: PBH-1,3,10,12,14,16,28, 31,33,35,54,56,58,75,77</p> <p>Grid Interval:400 m</p> <p>Total Meterage: Up to +1.0 MRL</p> <p>YEAR:2021-22 to 2025-26</p> <p>No. of BH: PBH-37,41,43,61,66,79, 81,83,96,100,115,117,119,121,143,141,139,137,135,133,167,1 65,163,169,171,173,179,181</p>

		<p>Grid Interval:400 m</p> <p>Total Meterage: _</p> <p>YEAR:2021-22 to 2025-26</p> <p>No. of BH:</p> <p>PBH-2,4,5,6,7,8,9,11,13, 15,17,24,25,26</p> <p>Grid Interval:200 m</p> <p>Total Meterage: _</p> <p>YEAR:2021-22 to 2025-26</p> <p>No. of BH:</p> <p>PBH-18,19,20,21,22,23, 27,29,30,32,34,36,38,39,40,42,44-55,57,59,60,62-65,67,71-74,76,93,94</p> <p>Grid Interval:200 m</p> <p>Total Meterage: _</p> <p>YEAR:2021-22 to 2025-26</p> <p>No. of BH:</p> <p>PBH-68-70,82,84,78,80, 85-92,95,97-99,101-116, 118,120,122,123,124-127</p> <p>Grid Interval:200 m</p> <p>Total Meterage: _</p> <p>YEAR:2021-22 to 2025-26</p> <p>No. of BH:</p> <p>PBH-128-132,134,136,138, 140,142,144,162,164,166,168,170,172,174-178,180,182</p> <p>Grid Interval:200m or below</p> <p>Total Meterage: _</p>
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		<p>YEAR:2021-22 to 2025-26</p> <p>No. of BH:</p> <p>EP-1 & EP-2 size 3m*3m</p> <p>Grid Interval: _</p> <p>Total Meterage: up to level +1.0mRL</p> <p>The exploration shall be started as soon as mining work is started on grant of EC and try to accomplish within shorter period if conditions are favorable.</p> <p>The location of Proposed BH is depicted in Surface Geological plan of the approved mine plan and given in EIA report in figure no. C 2-2 in Chapter 2.</p>
1 1	<p>The Project Proponent needs to submit the copy of the permission letter obtained from the State Govt. for utilization of Chemical Grade of Limestone for non-cement purposes.</p>	<p>Permission accorded by the Govt. of Gujarat vide order dated: 17.08.2023 for utilization of Chemical Grade of Limestone for non-cement purposes has been submitted.</p>
1 2	<p>The Project Proponent needs to submit a letter from the</p>	<p>The company has not carried out any mining within the lease area much less any illegal mining in the lease area. There are old pits pre-dating the allotment of the lease to the company, which were received in legacy and shown in the present surface geological plan. Request letter in this regard has been submitted to Department of Geology and Mining, Government of Gujarat on</p>

	<p>Department of Geology and Mining, Government of Gujarat clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s. Nirma Limited or not?</p>	<p>03.11.2023. Acknowledgement of the same has been submitted by the Project Proponent.</p>
<p>Site Visit Recommendation Reply by project proponent</p>		
<p>1</p>	<p>PP should submit an action plan and timeline to indicate the purchase of lands across all three mining leases wherein it has proposed mining pits to initiate</p>	<p>Action plan and Timeline indicating the purchase /obtain surface rights of land for mining for all three mining leases to initiate mining activities has been submitted by the Project Proponent.</p>

	<p>mining activities since as on date PP has only purchased / obtained surface rights over 101.1967 Ha out of 1351.6489 of Private Agriculture Land.</p>	
<p>2</p>	<p>Since PP envisages to handover the land with shallow quarry having depth upto 4m to landowners for farming and mostly all three mining leases are having agricultural land.</p> <p>PP is requested to conduct a survey to indicate the present status and number of low-lying areas, their</p>	<p>In said mine, survey has been conducted & one pit i.e. Pit No. 6 (Pit area -15.66 Ha) will have shallow depth pit and will be backfilled for entire depth of pits, looking to availability of soil for backfilling</p> <ul style="list-style-type: none"> • Pit no. 6 -15.66 Ha Pit area of avg. 3.25 m bgl for entire depth. <p>Action plan for backfilling of shallow depth pits of depth up to 4.0 m and handing over to farmers for agriculture has been submitted by the Project Proponent.</p>

	<p>respective which may be backfilled with available capacity of top soil/overburden and can be handed over to farmers for agricultural purpose.</p>	
3	<p>Project Proponent needs to provide year wise exploration plan for all the three mining leases.</p>	<p>Exploration plan of said mining lease has been submitted by the Project Proponent.</p>
4	<p>Since, Bhavnagar falls under severely Polluted Area category, PP shall ensure that during initiation phase itself they should include the provision of permanent water</p>	<p>Chitra Industrial area (severely polluted area) in Bhavnagar city is located around 100 km away from our said mining lease area.</p> <p>On initial stage, company will engage water tanker with sprinkler arrangement to suppress the dust on haul road and company will make provision of permanent water sprinklers across the haul roads in all three mining leases.</p>

	sprinklers across the haul roads in all three mining leases.	
5.	Since, Bellur and other schools are in close proximity to mine lease area, PP shall ensure that necessary safety measures are taken as per DGMS norms for all three mining leases.	Company will ensure to maintain require safety measures & distance from Bellur School & other schools as per DGMS norms for all three mining leases during mining.
6.	PP shall ensure to construct bunds near the existing low lying areas that has developed into wetland to prevent the ingress of sea water in Padhiyarka and Doliya Limestone	<p>The low lying area is where the rain water accumulates temporarily during monsoon. These are not notified as wetlands either under Ramsar Convention or by Central Govt. or State Govt. Hence, the identifications and provisions under Wetlands (conservation and Management) Rules, 2017 do not apply in this case as per clause 3 of aforesaid Rules.</p> <p>Moreover, Padhiyarka and Doliya Limestone Mine lease area and Gujarada, Dudheri & Dudhala limestone mine lease area are located at a distance of more than 500 m from High Tide Line of sea & also this area (between sea and low lying area in our mining lease area) have higher altitude, therefore, there is no chance of sea water ingress in mining lease area.</p> <p>However, company will construct bunds as and when required.</p>

	<p>Mine lease area and Gujarada, Dudheri & Dudhala limestone mine lease area.</p>	
<p>7.</p>	<p>The project Proponent needs to submit the integrated management plan describing the strategies and actions for achieving wise use of the wetland and the plan shall include objectives of the site management, management actions required to achieve the objectives, factors that affects, or may affect, the various site features, monitoring requirement</p>	<p>There is no Ramsar convention/ Central or State Government notified wetland in and nearby our mining lease area. The water bodies such as river channels and human-made water bodies (such as submergence areas of Samdhiyala Bandahara, Malan Bandhara) are excluded from the definition of wetlands as per Wetlands (Conservation and Management) Rules, 2017.</p> <p>There are low lying areas, in which rain water accumulates temporarily during monsoon. Mining activity will contribute towards enlarging & deepening such areas in pit no. 2 & 3 of Padhiaryka & Doliya Mine and pit no. 5 & 6 of Gujarada, Dudheri & Dudhala making a positive contribution to fresh water storage. The company does not intend to have any other use for these low lying areas.</p> <p>As part of the integrated management plan for protection of water logged areas in and around the project, following steps shall be undertaken:</p> <ul style="list-style-type: none"> ● Company will not do mining below 2 m AMSL in this low lying area so that there is no salinity ingress due to mining activity. ● Piezometer will be installed at designated locations to monitor changes in ground water level. ● Other allied activities such as transportation will be carried out by maintaining safety distance from this low lying area ● In this area of Gujarat, water logging due to rain water is a common phenomenon and resident water birds take advantage of such seasonal water logging to feed. Hence, company has proposed several measures as part of the wildlife conservation plan, with 3-year budget, as follows: ● Supporting 3 local NGOs for Conservation Awareness activities (Rs. 18 lakhs)

	<p>s for detecting changes in ecological character and for measuring the effectiveness of management, and resources for management implementation.</p>	<ul style="list-style-type: none"> ● Provision for Rapid Rescue Vehicle for Wildlife (Rs. 10 lakhs) ● Assisting Plantation activities to be carried out by Forest Department, Bhavnagar (Rs. 1.5 lakhs) ● Nature/Eco-tourism guide & hospitality training 20 persons (Rs. 2.5 lakhs) ● Provision of equipments, camera, binoculars for efficient monitoring and eco-tourism promotion (Rs. 7.5 lakhs) ● Maintenance of shallow ponds/rainwater harvesting structures (Rs. 3 lakhs) ● Van Sahayak 1 nos. on contract basis (Rs. 3.6 lakhs) ● Public education and awareness programmes for the following - Avoiding plastic, Recycle and reuse, Reduce usage of pesticide and weedicide, Conservation of Wildlife, Garbage control (Rs. 3 lakhs) <p>Six-monthly third-party WLCP monitoring report preparation (Rs. 1.25 lakhs)</p>
8.	<p>PP needs to engage and impart skill among the villagers and local population mainly the land losers and also submit a plan for their alternate livelihood arrangement since most of them will be losing their fertile lands.</p>	<p>Company will not acquire any agriculture land through land acquisition by Govt. or without willingness of land owner and will purchase / obtain surface rights for mining on market commercial negotiated rates.</p> <p>Land owners may purchase agriculture land in nearby area in the amount which is to be paid to them against their land and can continue their livelihood.</p> <p>Company will give priority to engage land owners who have given land for mining purposes as per requirement of manpower for mines.</p> <p>Also, company will arrange to impart training to build capacity for self-employment [stitching, embroidery, tailoring, pickles, dairy improvement, poultry farming, etc.] to land losers and will facilitate vocational training along with skill development for getting better job opportunities (Budget Rs. 3 lakhs/year).</p>

9.	PP should widen the existing village roads before using it for transportation in all three mining leases, wherever widening is not possible, PP shall submit an action plan for making alternate roads.	<p>On initial stage, company has proposed to mine out limestone for Soda ash plant in lower capacity and company will use existing village road for transportation of limestone by maintaining the existing village road as number of trips of truck / dumpers will be very less i.e. around 18 numbers of trips/day maximum in this mine.</p> <p>Company will widen the existing village road or make alternate road in all three mining leases on installation of cement plant. Section plan of the road widening has been submitted by the Project Proponent.</p>
10	PP should engage wildlife experts/ avian experts for conservation of the avian fauna within and near its mine lease.	Company has already engaged wildlife expert / avian expert for conservation of the avian fauna within and near its mine lease.
11	PP shall plant native fruit bearing plants across all the proposed	Native fruit bearing plants will be planted across all the proposed green patches.

	green patches.	
1 2	PP shall put boundary pillars across all mining leases.	Company had erected boundary pillars at the time of lease deed execution and got authentication of all boundary pillars coordinates through the DILR / State Govt. and provided in the approved mining plan for all three mining leases. Some pillars have been dislodged/ removed by local people. Company will put such boundary pillars again prior to commencement of mine so that they can be maintained.
1 3	The project proponent needs to submit a letter from the Department of Geology & Mining, Govt. of Gujarat, clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s Nirma Limited or not?	<p>The company has not carried out any illegal mining in the lease area and request letter to provide required certificate regarding no mining carried out by company or others has been submitted to the District Geologist, Department of Geology and Mining, Government of Gujarat, Bhavnagar vide letter dated: 01.11.2023. In turn, the District Geologist, Bhavnagar has submitted his report to the Commissioner of Geology & Mining, Govt. of Gujarat, Gandhinagar vide its letter dated: 01.02.2024 to communicate the same to MoEF and copy endorsed to us. As per his report, No case of Illegal mining of limestone mineral has been registered within the mining lease area against the company M/s Nirma Limited or against any other individual or entity.</p> <p>Copy of our submitted letter dated: 01.11.2023 and copy of report of the District, Geologist, Geology & Mining Dep't, Bhavnagar dated 01.02.2024 has been submitted by the Project Proponent.</p>
1 4	PP needs to submit plan to transport crushed	The mine is captive mine to proposed cement plant at Padhiarka, Mahuva and High grade limestone to be used in company's own existing Soda Ash plant located as Kalatalav, Bhavnagar.

	limestone from all the three leases to plant.	<p>The cement plant is adjoining to the mine lease while the Soda ash plant is located around 100 km away and accessed through National Highway.</p> <p>Establishment of cement plant may take some time while the soda ash plant is already operational.</p> <p>Hence, till the commencement of proposed cement plant, maximum 5% i.e. 450 TPD limestone will be transported to Soda ash plant located near Bhavnagar through dumpers @18 trips per day. The trucks will pass through existing Dudhala - Amrutvel village road of 7 m width (out of which 4 m is black topped) for around 1.0 km and meet National Highway no. 51, from where the truck will move around 100 km.</p>
15	PP needs to take some measures to keep the migration bird ponds un harmed and protected by activity of mining in future.	<p>Migratory birds are seen in Malan Bandhara as well as other nearby Bandhara areas, which areas located at distance of 1.5 km and 4.5 km from our mining lease area, respectively.</p> <p>Birds are also seen in low lying area, in which rain water accumulates temporarily during monsoon. However, they are pre-dominantly resident water birds.</p> <p>The company is committed to the measures proposed in the site specific wildlife conservation plan (summarised in point 7 earlier), which include points related to protection of shallow ponds, ecology and birds.</p> <p>The company will mine above 2m AMSL in low lying areas to maintain the fresh water nature of the water in it. The enlarging of the low lying area in pit no. 2 & 3 of Padhiaryka & Doliya Mine and pit no. 5 & 6 of Gujarda, Dudheri & Dudhala will provide more area to birds. Also company will ensure that transportation will be carried out by maintaining safety distance from low lying areas.</p>
16	PP needs to install water treatment plant to reduce the hardness of water.	<p>Drinking water is provided in every nearby villages through Narmada water pipeline by the State Govt. and drinking water requirements for mines shall also be fulfilled through Narmada water pipe line which is passing through nearby area. Hence, presently there is no proposal to use the hard ground water. However, if any requirement sought in future we will provide treatment plant.</p>
17	PP needs to explore possibility of deploying surface	<p>Company has proposed mining with surface miner (50% quantity) in IBM approved mine plan and also in EIA report. Company explored use of Ripper dozer for cement plant use to eliminate drilling & blasting in the remaining 50% and committed the same in point no. 3, Specific Terms of Reference received from</p>

miners for mining.	MOEF&CC vide Letter no. J-11015/154/2016-IA. II(M) dated November 28, 2022. For soda ash plant, we need sized limestone i.e. 25 mm to 100 mm, so surface miner cannot be deployed for limestone mining for Soda ash plant use. However, company will deploy rock breaker to avoid blasting during mining.
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xi. Details of the Environmental Management Plan (EMP):

Activities	Capital cost (Crores)	Recurring cost (Lakhs/annum)
Pollution Control	0.291	10.12
Pollution monitoring	0.016	3.88
Occupational health	0.014	0.95
Environmental Studies, etc.	0.10	–
Green belt	–	5.10
Reclamation	–	10.03
Others (Environmental studies, Rehabilitation, Realignment, Expert advice, fencing etc.	–	5.48
Overheads	–	0.32
Total	0.421	35.87

xii. Details of project cost and employment:

Particulars	(Rs. In Crore)
Total cost of EMP (Capital Cost of EMP + capital cost of Public hearing)	1.19
Project Cost	25
Employment (No.s)	84

3. Observation and Recommendation of the EAC

The EAC deliberated the instant proposal along with Vangar & Madhiya Limestone Mine and Gujarda, Dudheri & Dudhala Limestone Mine. The Project Proponent presented its reply to the ADS points raised vide minutes of the 21stEAC as well as the recommendation of the sub-committee. After detailed deliberations, EAC **deferred** the proposal for the want of following information:-

- I. The Proponent shall submit No Objection Certificate from Ministry of Defence for consideration of the instant project.
- II. PP needs to undertake a study to showcase the probable impact of mining on migratory bird species and their fly-way passage (Central Asian Flyway). Accordingly, PP shall submit the revised conservation plan for the migratory bird species.

- III. The Project Proponent needs to undertake a study and submit the action for laying common Over Land Belt Conveyor(OLBC) for transportation of mineral from mine lease area to the proposed Cement Plant.
- IV. The project proponent needs to submit a letter from the Commissioner of Geology & Mining, Govt. of Gujarat, clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s Nirma Limited or not?
- V. PP submitted that National Highway is under construction, and they have submitted letter to National Highway Authorities of India(NHAI) regarding grant of permission to provide Underpass near their proposed cement plant entry. Accordingly, PP needs to submit the permission letter for the underpass.
- VI. The Project Proponent needs to carry out study by reputed institute to ascertain hardness of strata for deployment of surface miners for mining.
- VII. The Project Proponent needs to submit time line for acquiring land from the villegers.

1.5 Vangar & Madhiya Limestone Mine for mining of Limestone with production capacity of 1.6 MTPA in the mine lease area of 612.1336 ha by M/s Nirma Limited located at Villages Vangar & Madhiya, Tehsil Mahuva, District Bhavnagar (Gujarat) – Reconsideration for Environmental Clearance reg[Online Proposal No: IA/GJ/MIN/443498/2023; F.No: J-11015/152/2016-IA.II(M)][EIA Consultant - M/s Centre for Envotech and Management Consultancy Pvt. Ltd]

The proposal is for Environmental Clearance for mining of Limestone in Vangar & Madhiya Limestone Mine of M/s Limited for mining of Limestone with production capacity of 1.6 MTPA in the mine lease area of 612.1336 ha, located at Villages Vangar & Madhiya, Tehsil Mahuva, District Bhavnagar (Gujarat).

2. The details of the project as ascertained from the document submitted by the Project Proponent and revealed from the discussions held during the meeting are given as under:

- i. The mine lease area is located between Latitude 21°01'44.54" to 21° 03' 40.04" N and Longitude 71°39'18.3"E to 71°41'05"E. The mine lease area falls under the Survey of India Toposheet No: 41 O/12 (restricted)and falls in Seismic Zone-III.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.
- iii. Details of Terms of Reference (ToR):

Date of application	Proposal No/ File No	Consideration by EAC	Details of ToR	Date of accord
18.11.2022	IA/GJ/MIN/403568/2022	06.12.2022	Letter no. J-11015/152/2016-IA.II (M)	23 rd December, 2022

iv. Details of Mine Lease in chronological manner:

S.no	Prospecting License/ Letter of Intent (LoI)/ Grant of Mine lease and Lr No	Date of the grant	Name of the Mineral & (Major/ Minor)	Period of Grant	Granted by	Mine lease area in Ha
1	MCR-102004-1827-CHH	15.02.2008	Limestone	30 years	IMD, Government of Gujarat	1225.8553
2	MCR-102004-1827-CHH	08.01.2017	Limestone	50 years	IMD, Government of Gujarat	612.1336

S. No	Details of grant of Mine Lease deed execution	Period of Grant		Name of the Mineral	Mine lease area in Ha
		From	To		
1	MCR-102004-1827-CHH	11.01.2017	10.01.2067	Limestone	612.1336

v. Land Use/Land Cover of the Mine Lease Area:

Private land	586.4789
Government land	25.6547
Forest land	-
Total Mining lease area (MLA), ha	612.1336
Private land for crusher, workshop & other infrastructure outside the MLA	No any facilities outside the ML area. However crusher will be installed at company's Cement Plant.
Additional information (if any)	

vi. Mining plan details:

Mining Plan including Progressive Mine Closure Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	File No.: 684(4)(1)/MP-347(196)/2021-22 GNR/1125
	Date	05.08.2021
	Mineral & (Major/Minor)	Major

	Mine Lease Area, Ha	612.1336
	Validity	31.03.2026
Mining Parameters	Quantitative Description	
Method of Mining	Opencast mechanized	
Drilling/Blasting	Multi-row drilling and V-pattern drill holes for deep hole drilling and blasting. Slurry explosive- cap sensitive and non-cap sensitive.	
Geological Reserves	35.539 Million tonne	
Mineable Reserves	14.913 million tonnes	
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/ Waste, MTPA)	Top soil- 0.99 million cum OB/SB/IB/Mineral Rejects- Nil Waste- Nil	
Life of mine	13 years (Life of mine may be increased subject to conversions of resources under 333 category into category of reserves 111)	
Mine Bench Height & Bench Width	6.0 m, for working bench 12-15 m for closing (conceptual) bench Optimum	
No. of Mine Benches	2	
Existing Depth, m bgl	New mine	
Ultimate Depth of Mining, m bgl	10 m	
Ground Water Table, m bgl	15 m (Post monsoon)	
Details of ground water intersection	No ground water will be encountered during planning stage i.e. in 5 years of working plan in neither pre monsoon nor post monsoon season in any of the pits. Ground water will also not intersect during mining at the end of mine life. However, the ground water table may get touched in post monsoon in pit no. 4 & 5 when the proposed conceptual pit bottom level of +1.0 m AMSL is achieved. To avoid any accidental intersection of ground water table, the Company has now decided to restrict mining depth to +2.0 m AMSL in pit no. 4 & 5.	
Individual bench slope	80-85°	
Overall pit slope	~ 45°	
Details of existing/ proposed Crusher	Proposed crusher will be installed at Cement Plant.	
Mineral Beneficiation	-	
RoM output size	-	
Transportation details including capacity of dumper/tipper, mode of transport and distance	Internal haul road from mine face to crusher and by conveyor from crusher to the Cement plant adjacent to the mine lease.	

	For the Soda Ash Plant located at approx.100 km at Kalatalav, Bhavnagar limestone will be transported in dumpers/ trucks through National Highway 51. Internal haul road from mine face to crusher means of dumper/tippers of 25 tonnes capacity.
Generation of Topsoil/OB & its Management during plan period & conceptual period	Top soil at 1 st plan period- 150000 cu.m, temporary stacking at one location Top soil at 2 nd plan period- 840000 cu.m, temporary stacking at one location Top soil at conceptual period-380000 cu.m, simultaneously backfilling
Generation of Mineral Rejects/Waste & its Management during plan period & conceptual period	Nil
Additional information(if any)	Surface miner as well as ripper/dozer & rock breaker will be used for mining to minimize drilling & blasting.

vii. Water requirement:

Total water requirement	42 KLD	Fresh water	3 KLD
		Treated water	39 KLD
Source	i. Fresh water source Narmada water pipeline/Water tanker. ii. Water harvested within mine lease during rainy season. iii. Treated water source- Reject water of RO /DM plant &Reject water of RO /DM plant (proposed at Cement plant)		
Permission for withdrawal/ intersection along with details of grant and its validity	Permission for water withdrawal from Narmada water pipeline has been taken vide letter No. GWIL/Bhavnagar/Ind.conn./1257 dated 4.06.2008.		

viii. Nearest village/town/ highway/interstate boundary/railway station/water bodies/monument/ forest

Particulars	Particular's Name	Distance & Directions
Village	Vangar	0.25 km, NW
	Madhiya	0.25 km, SE
Town	Mahuva	6.2km, ENE
Highway	NH-51 (Una-Mahuva highway)	Within

Interstate Boundary	Rajasthan	Approx.500 KM,N
Railway Station/Railway line	Amrutvel	2.0 km, N
Water Bodies	Arabian Sea Coast	3.4 km S to the HTL
	Samdiyala Salinity ingress control bund	2.3 km, SSW
	Bhambhali River	0.9 Km, W
	Malan River	7.4 KM,E
	Malan Bandhara	5.4 KM,SE
	Garasawo River	2.5 Km,NE
Forest	RF near Patwa	2.1 KM,S
	RF near Doliya	3.3 KM,SSE
	RF near Dudheri	3.9 KM,SE
	RF near Gujarda	4.3 KM,SE
	RF near Khared	6.3 KM,SE

ix. Presence of Environmentally Sensitive areas in the study area

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks						
Forest Land within the mine lease area and (if yes) status of Forest Clearance	No	The Project Proponent has submitted the letter from the Office of the Principal Chief Conservator of Forests vide Lr.No: WLP/32/C826-827/2021-22 dated 13.01.2022 regarding the map showing the location of protected areas within 10km of the Limestone mining project and the and distance of protected areas and proposed Limestone mine.						
National Park	No	<table border="1"> <thead> <tr> <th>Protected areas</th> <th>Distance between Limestone mines and Protected areas</th> </tr> </thead> <tbody> <tr> <td>Gir National Park</td> <td>76.0 km</td> </tr> <tr> <td>Gir Wildlife Sanctuary</td> <td>44.2 km</td> </tr> </tbody> </table>	Protected areas	Distance between Limestone mines and Protected areas	Gir National Park	76.0 km	Gir Wildlife Sanctuary	44.2 km
Protected areas	Distance between Limestone mines and Protected areas							
Gir National Park	76.0 km							
Gir Wildlife Sanctuary	44.2 km							
Wildlife Sanctuary	No							
Elephant/Tiger Reserve	No							
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area (ESA)	No							

		<table border="1"> <tr> <td>Mitiyala Wildlife Sanctuary</td> <td>43.5 km</td> </tr> </table> <p>The Project Proponent has submitted the letter from the Office of the Deputy Chief Conservator of Forest, Bhavnagar vide letter no. A/GMN/T11/2075/22-23 dated 27.01.2023 certifying that the nearest turtle rearing/breeding site is located at a distance of about 70km away from the mines.</p>	Mitiyala Wildlife Sanctuary	43.5 km
Mitiyala Wildlife Sanctuary	43.5 km			
Coastal Regulation Zone (CRZ)	Yes	<p>Arabian Sea Coast: 3.4 km S to the HTL The proposed project lies beyond distance of 0.5 km from High Tide Line of Arabian Sea Coast. The CRZ map has been prepared by Institute of Remote Sensing, Anna University, Chennai.</p> <p>ML area outside CRZ- GCZMA letter no.ENV-10-2023-170-T dated 19.07.2023</p>		
Schedule-I species (Nos. and name of schedule-I species with authenticated letter)	Yes	<p>As per WLCP approved on 20.12.2021 (3 nos.) : Peafowl, Chinkara and Asiatic lion</p> <p>Additional as per WPA amendment of 2022 (9 nos.): Indian Leopard, Striped Hyena, Jungle Cat, Indian Fox, Jackal, Indian Grey Mongoose, Indian Porcupine, Indian Grey Wolf, and Eurasian Spoonbill</p> <p>The above have been updated in WLCP.</p>		
Wildlife Conservation Plan	Yes	<p>On the basis of the fauna study findings & list of fauna authenticated by Forest Department, Wildlife Conservation Plan (WLCP) was prepared and submitted for approval. The said Wildlife Conservation Plan had been approved by the Forest Department on 20.12.2021. Rs.</p>		

		19.9 lakh had been approved for the conservation of wildlife in the study area. The WLCP has been updated w.r.t. Schedule-I species as per WPA amendment of 2022 and budget allocation has been increased to Rs.65.9 Lakh for all 3 mines.
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x. Green belt/plantation details:

Proposed area for green belt/plantation and no. of saplings proposed	26.50 Ha.
Budget for green plant & plantation till the end of life of mine.	80.35 Lakhs
Budget for nursery	-
Details of existing plantation and its survival rate	-
No. of tree cuts in the mine lease area and compensatory afforestation	As per actual during mining
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	16.50
50 m safety zone of nallah, roads, electric lines	10.00
500 m safety zones of nearest habitation villages	-

xi. Baseline detail:

Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)	
Period of baseline data collection	01.03.2021 to 02.06.2021
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Summer
Predominant Wind direction (From)	South
Ambient Air Quality (no. of locations) and results	16 Core zone (1 no.) - PM10 from 40.8 to 68.8 $\mu\text{g}/\text{m}^3$, PM2.5 from 21.7 to 37.4 $\mu\text{g}/\text{m}^3$, SO ₂ from 4.8 to 7.7 $\mu\text{g}/\text{m}^3$ and NO ₂ from 4.9 to 10.5 $\mu\text{g}/\text{m}^3$. Buffer zone (15 nos.) : PM10 from 27.6 to 71.7 $\mu\text{g}/\text{m}^3$, PM2.5 from 11.2 to 40.0 $\mu\text{g}/\text{m}^3$, SO ₂ from 2.7 to 10.2

	$\mu\text{g}/\text{m}^3$ and NO_2 from 3.6 to 14.5 $\mu\text{g}/\text{m}^3$.
Noise level (no. of locations) and results	16 Core zone: 48.95 dB(A) during day time and 41.42 dB(A) during night time Buffer zone : Between 47.57 dB(A) to 52.46 dB(A) during day time and 39.42 dB(A) to 42.89 dB(A) during night time.
Water Quality (no. of locations) and results	15 (12 ground water and 3 surface) water sampling stations were monitored within the study area. All the parameters of ground water were well within the permissible limits as per IS 10500: 2012. The surface water quality in all samples was found B to below E class. The result indicates that the maximum and minimum values of DO ranges between 5.8 to 6.3 mg/l, hardness ranged between 360 - 8300 mg/l in surface water.
Soil Quality (no. of locations) and results	12 pH ranges between 7.7 - 8.2, Potassium ranges from 157.0 - 845.0 kg/ha and Nitrogen ranges from 0.01 - 12.57 mg/kg
Hydro geological study and results	As per planned mining and Report of hydrogeological & hydrological studies of core and buffer zone of Vangar & Madhiya limestone mine, the groundwater table may get touched in post - monsoon in pit no. 4 & 5 when the proposed conceptual pit bottom level of +1.0 m AMSL is achieved. To avoid any accidental intersection of ground water table, the Company has now decided to restrict mining depth to +2.0 m AMSL in pit no. 4 & 5.
Traffic study (no. of locations) and results	The traffic volume survey was conducted on Bhavnagar to Una Road (NH8E/51) Near Vangar

	Village. Total numbers of vehicles were found as 6793 per day and equivalent PCUs is 9382 per day. There will be daily movement of 512 numbers of dumpers (to & fro) per day or 1536 PCU/ day on the road. 01 location & V/C = 31.27
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xii. Public Hearing (PH) Details:

Advertisement for PH with date (name of major national daily and one regional vernacular daily newspaper)	26.03.2023 in Sandesh Newspaper & Indian Express
Date of PH	28.04.2023
Venue	At the premises of Nirma Cement Plant Area, NH 8E/51, Survey No. 80, Village: Padhiyarka, Taluka: Mahuva, Dist. Bhavnagar
Chaired by	District Collector & District Magistrate, Bhavnagar District & Regional Officer, GPCB Bhavnagar
Main issues raised during PH	Air pollution, salinity ingress, wildlife protection, acquisition of agriculture land
Budget proposed for addressing issues raised during PH over 3 years	34 Lakhs
Additional information (if any)	-

xiii. Details of CTE/CTO, Certified Compliance Report, Certified Production Details from the inception of the mine:

Particulars	Details of Letter along with date of grant and validity
Consent to Establish	GPCB CTE granted vide dated 25/01/2021 & valid upto 24/01/2028.
Consent to Operate	-
Certified Compliance Report and Inspection date	-
Certified Production Details from the inception of the mine (in tabular form against the EC capacity)	Fresh mine

xiv. Rehabilitation & Resettlement (R&R):

R & R details	For private land, company has obtained surface rights for mining by purchasing land/consent in some of the land & for remaining land, company is in process to procure ownership or surface right for mining on mutually agreed commercial terms. Rs. 2466.88 lakhs cost envisaged for land (189.76 ha) and Rs. 48 lakhs approx. for homestead.
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xv. Court case details:

Court Case, No and its present status	The Project Proponent has submitted an undertaking vide letter dated 07.10.2023 stating that there is no litigation on the project either at NGT or any other court of law related to environment and pollution matters in which the project proponent is a respondent.
Undertaking by Project Proponent w.r.t court case	

xvi. Affidavit/Undertaking details:

Affidavit as per Ministry's OM dated 30.05.2018	The Project Proponent has submitted an undertaking by way of notarized Affidavit dated 09.10.2023 stating that the proposal does not involve violation of Ministry's OM dated 30.05.2018.
Undertaking by Project Proponent in EIA/EMP report	The Project Proponent has submitted an undertaking vide letter dated 04.01.2023 stating that the contents (information and data) as given by the Consultant in the EIA/EMP report are factually correct with full knowledge of the undersigned (Shri Ashish Desai)
Undertaking by Consultant in EIA/EMP report	The Director of the EIA Consultant (M/s Centre for Envotech & Management Consultancy Pvt. Ltd) has informed that the baseline data was generated by MoEF & NABL Accredited Laboratory M/s Min Mec R&D Laboratory, a division of Min Mec Consultancy Pvt. Ltd., New Delhi and the same has been verified and also confirmed that he shall be fully accountable for any misleading information mentioned in this statement.
Plagiarism Certificate	

xvii. Earlier the Proposal was considered in the 21st EAC meeting held during 18-20th October, 2024 wherein the Committee has deferred the proposal for the

submission of requisite information. The Project Proponent has submitted the relevant information on Parivesh as follows:

S. No	Observation of EAC in the 21st meeting held during 18-20th October, 2023	Reply by Project Proponent
1.	The site visit report of the subcommittee.	Site visit has been conducted by subcommittee on 22nd -25th December, 2023.
2.	Since the mine site is located within 20 km from seaboard frontier, the Project Proponent shall submit No Objection Certificate from Ministry of Defense for consideration of the instant project.	<ul style="list-style-type: none"> • We have submitted letter via registered post to Ministry of Defense, New Delhi, Govt. of India for issuance of NOC in this regard. Copy of the same is attached on Parivesh Portal. • We also have submitted letter to Department of Geology & Mining, Govt. of Gujarat, Bhavnagar for recommendation to issue NOC to Ministry of Defense, Govt. of India. Copy of the same is attached on Parivesh Portal. • As per our understanding, there is no clarity or guideline in respect of process to be followed to obtain NoC of Ministry of Defense (MoD), therefore, our humble request is that issue the EC without condition of obtaining NOC from MoD.
3.	The Project Proponent needs to submit the action for laying common Over Land Belt Conveyor (OLBC) for transportation of mineral from mine lease area to the Cement Plant. The Project Proponent also needs to submit the action plan for expansion of road with a width of 7m and by passing the village road till the commission of the Over Land Belt Conveyor (OLBC).	<ul style="list-style-type: none"> • The mine is captive mine to proposed cement plant at Mahuva and Highgrade limestone to be used in company's own existing Soda Ash plant located at Kalatalav, Bhavnagar as per permission accorded by the Govt. of Gujarat vide letter dated: 17.08.2023. (Copy attached on Parivesh Portal). • The cement plant is adjoining to the mine lease while the Soda ash plant is located around 100 km away and accessed through National Highway • Establishment of cement plant may take some time as the appeal is pending before Hon'ble Supreme Court while the soda ash plant is already operational.

		<ul style="list-style-type: none"> Hence, till the commencement of proposed cement plant, maximum 5% i.e. 265 TPD chemical grade limestone will be transported through dumpers @11 trips per day via existing village road of 7 m (out of which 4 m is black topped) to National Highway and ultimately Soda Ash plant at Bhavnagar. Company is very much keen to establish cement plant as early as possible & will produce & consume required limestone for cement manufacturing on its highest rated capacity. We assure your kind authority that we will widen the black top of the existing village road from mines to National Highway prior to commencement of Proposed Cement Plant. Section plan of proposed road black top widening is attached on Parivesh Portal. <p>Also, as discussed during the EAC meeting, we will explore the possibility of Over Land Belt Conveyor (OLBC) on either side of the highway based on the technical possibility & feasibility by reputed consultant. We are going to approach M/s. Holtec Consultants for regulatory, commercial & technical feasibility for above stated OLBC.</p>
4.	The Project Proponent needs to explore the possibility of laying over bridge over the Highway and shall submit the permission from the National Highways Authority of India (NHAI).	Since, the National Highway is under construction, we have submitted letter to National Highway Authorities of India(NHAI) regarding grant of permission to provide Underpass near our cement plant entry point or any other option suggested by NHAI for transportation of raw material & finished product. Acknowledgment of the same is attached herewith on Parivesh Portal.
5.	The Project Proponent needs to submit the protection measures to be taken for salt water intrusion and the effectiveness of the salinity ingress control bund.	<ul style="list-style-type: none"> Samdhiyala Salinity Ingress Control bund (Samdhiyala bund) was constructed by Government of Gujarat in the year 2000 on Motpet Creek to prevent sea water from coming towards landward side. On the landward side, rain water gets accumulated as well.

		<ul style="list-style-type: none"> • Presently, the accumulated rain water of Samdhiyala bund is being used during post monsoon by adjoining agriculture land owners and in other seasons they are extracting ground water through borewell. For agriculture land which is away from Samdhiyala bund, farmers are extracting ground water through borewell for agriculture due to which salinity & TDS are increasing in ground water. • As per company's water management strategy, after commencement of cement plant, company will undertake deepening of 100 ha surrendered land out of our total allotted plant land and also pledged to construct garland drains around the proposed plant area which will improve the overall fresh water storage capacity of Samdhiyala bund on landward side. Regular desiltation of canal will improve water retention capacity of Samdhiyala bund. • At the time of mining, bottom level of conceptual pit will be kept above ground water level to avoid intersection. • Hydrogeological monitoring network will be established by constructing piezometers in and around the lease. • During mining, present hydrological system will keep intact by constructing garland drain around the pits to maintain present hydraulic gradient towards the Samdhiyala Bund. • After exhaustion of mineral, voids left will act as natural water harvesting structures. Collected rain water will stand and gradually percolate into the sub surface water & in long term improve the quality of ground water. • Positive pressure of fresh water on landward side will be created, which will aid in pushing back the saline front, which may be at a lower elevation. • In view of the above, due to mining there is no possibility of salt water intrusion in the area & effectiveness of the salinity ingress control bund as well as hydrogeological
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		system of bund will not be disturbed & infact will significantly improve the effectiveness of salinity ingress control bund.
6.	The Project Proponent needs to submit the site specific mitigation measures for backwaters from Arabian Sea coming into the mine lease area.	<p>In this regard, following site specific mitigation measures will be taken:</p> <ul style="list-style-type: none"> • Arabian sea is situated at a distance of 3.8 km in the south of the said mine lease & it is outside of CRZ area. • There was only one probability of sea water coming to mine lease area which is through Motpet Creek. Samdhiyala Salinity ingress bund has been constructed on Motpet Creek to restrict backwater coming from Arabian sea towards landward side. Therefore, there is no possibility of backwater from Arabian sea to come to mine lease area. • Hydrogeological monitoring network will be established by constructing piezometers in and around the lease to monitor the water level & water salinity. • Positive pressure of fresh water on landward site will be created due to water storage in mine pits, which will aid in pushing back the saline front as well.
7.	The Project Proponent needs to revisit the plan for backfilling with clearly indicating the voids area and the capacity available/required for backfilling.	

The Indian Bureau of Mines, Govt. of India, Gandhinagar has approved the Mining Plan vide its letter dated: 05.08.2021 for the period of 5 years i.e. up to 2025-26.

As per approved Mining Plan, Removal of soil and its disposal as below.

Mine plan period	Removal of soil (mio. cum)	Means of disposal	Area covered under stacking (ha)
FY 2021-22 to FY 2025-26	0.15	Temporary stacking at one location near Proposed Pit no.1. Then, temporary stacked soil will be shifted for Backfilling of shallow pits of around 4.0 m depth (Proposed Pit No. 4 & 5) after five year mine plan period. (As demonstrated in map attached on Parivesh Portal).	4.63
FY 2026-27 to FY 2030-31	0.84	<ul style="list-style-type: none"> No stacking proposal is envisaged as simultaneously backfilled material will be utilized for shallow pits of around 4.0 m depth Proposed Pit No. 4 & 5) (As demonstrated in map attached on Parivesh Portal). 	nil
FY 2031-32 to FY 2033-34 (conceptual stage)	0.38		nil
Total	1.37	-	nil

Looking towards availability of topsoil, backfilling of part area is envisaged.

- Total voids area envisaged till conceptual period = 197.00ha
- Total soil removal envisaged till conceptual period = 1.37 million cum (197 Ha *0.7m avg. soil thickness)
- Total backfilling area envisaged till conceptual period = 36.36 ha

Ultimate Dimensions of Pits at the end of mine life

Pit No.	Pit Area covered (ha)	Pit Top (m AMSL)	Pit bottom (m AMSL)	Pit Depth in m	Pit Area covered by backfilling (ha)
1	92.57	20 to 15	10	10 to 5	No backfilling proposal

2	40.84	15 to 13	7	8 to 6	No backfilling proposal
3	14.47	18 to 16	10	8 to 6	No backfilling proposal
4	12.76	11 to 7	2	8 to 4	No backfilling proposal
	16.84	7 to 6	3 to 2	4	Backfilling of Pit area of 16.84 Ha for entire depth. (618480 cu.m)
5	19.52	9.5 to 7.5	2	7.5 to 5.5	Backfilling of Pit of 19.52 Ha for 4.0 m depth (751520 cu.m)
Total	197 Ha				36.36 Ha (1370000 cu.m)

8. The Project Proponent needs to revise the activities proposed under the Wildlife Conservation Plan. The Project Proponent also needs to ensure that the Schedule-I species as per the latest Wildlife Protection Amendment Act, 2022 shall also be included in the Wildlife Conservation Plan for their conservation.

As advised, revised wildlife conservation plan incorporating the Schedule-I species as per the latest Wildlife Protection Amendment Act, 2022 is attached on Parivesh Portal.

9. The EAC was of the view that the compensation rate is very less and asked the Project proponent to revisit and justify the budget proposed for Resettlement & Rehabilitation (R&R). The Project Proponent also needs to submit the action plan for land acquisition and timeline.

Type of land	Land rate, Rs. Lakh/ ha	Land requirement, ha	Total Amount Rs. lakhs
Private	13.00 *	189.76	2466.88
Government	On mining lease	7.24	-
Total		197.0	2466.88

*: Total amount given considering as per DLC rate. However, land will be procured/get consent for mining purpose on mutual agreed commercial rates.

Type of homestead	Rate, Rs. / sq.m.	Approx. Homestead area**, sq.m.	Total compensation, Rs. lakhs
Pucca	10000	480	48
Semi pucca	5000		
Kutchra	2000		
Total		480	48

** Company will consider homestead losers falling in proposed mine area on actual basis at the time of starting of mining activity and such homestead losers shall be compensated on mutually agreed commercial terms.

Since the land owners as well as homestead owners shall be compensated on commercial terms, therefore, they will have better economic strength to rehabilitate or reinvest the compensation amount. Hence, no separate R & R plan is envisaged.

Action plan for land acquisition and timeline is as below:

Sr. No.	Timeline for land requirement	Pvt. Land, Ha	Govt. Land, Ha	Total, Ha
1	Present			
1.1	Purchased	0	0	0
1.2	Consented	25.14	0	25.14
1.3	Leased	0	25.65	25.65
2	Future			
2.1	1 st to 5 th year mining	42.94	0	42.94
2.2	6 th year to Conceptual stage -13 th year	194.36	7.24	201.60
2.3	Mine life (up to lease period)	586.48	25.65	612.13

Mining lease deed has already been executed for said mining lease so mining can be started in Govt. lease land. As far as private land is concerned, company has obtained surface rights for mining by purchasing land/consent in some of the land & for remaining land, company is in process to procure ownership or surface right for mining on mutually agreed commercial terms. We hereby assure that company will obtain surface rights of the land before entry in pvt. land for starting mining activity in the mining lease area.

10.	The Project Proponent needs to submit the action plan for year wise exploration program	The Indian Bureau of Mines, Govt. of India, Gandhinagar has approved the Mining Plan vide its letter dated: 05.08.2021 for the period of 5 years i.e. up to 2025-26.
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		<p>Looking towards the systematic exploration of the entire area, 183 nos. of Core Bore Holes has been proposed in the area in order to bring the ML area within G1 stage in accordance with MEMC Rules 2015 and MCDR 2017 as per approved mining plan.</p> <p>The deposit is sedimentary origin and simple in nature, therefore boreholes are kept at an interval of 200m grid pattern. A total of 183 number of Core Boreholes are proposed up to a level of +1.0 MRL. Initially BH drilling shall be at an interval of 400m. If limestone potentiality proves, then further BH can be done closely at 200m interval. All proposed BH shall be drilled vertically. The exploration shall be carried out in five years of working i.e. year 2021-22 to 2025-26. Exploration shall be carried out as shown in table to bring BH at 200m interval</p> <p>Program of Future Exploration</p> <table border="1"> <thead> <tr> <th>YEAR</th> <th>No. of BH</th> <th>Grid Interval</th> <th>Total Meterage</th> </tr> </thead> <tbody> <tr> <td>2021-22 to 2025-26</td> <td>PBH-1 to PBH-119</td> <td>400 m & 200 m</td> <td>Up to +1.0 MRL</td> </tr> <tr> <td></td> <td>PBH-120 to PBH - 183</td> <td>200 m</td> <td>Up to +1.0 MRL</td> </tr> </tbody> </table> <p>The exploration shall be started as soon as mining work is started on grant of EC and try to accomplish within shorter period if conditions are favorable.</p> <p>The location of Proposed BH is depicted in Surface Geological plan of the approved mine plan and given in EIA report in figure no. C 2-2 in Chapter 2. (Copy given on Parivesh Portal).</p>	YEAR	No. of BH	Grid Interval	Total Meterage	2021-22 to 2025-26	PBH-1 to PBH-119	400 m & 200 m	Up to +1.0 MRL		PBH-120 to PBH - 183	200 m	Up to +1.0 MRL
YEAR	No. of BH	Grid Interval	Total Meterage											
2021-22 to 2025-26	PBH-1 to PBH-119	400 m & 200 m	Up to +1.0 MRL											
	PBH-120 to PBH - 183	200 m	Up to +1.0 MRL											
11.	The Project Proponent needs to submit the copy of the permission letter obtained from the State Govt. for utilization of Chemical Grade of	Permission accorded by the Govt. of Gujarat vide order dated: 17.08.2023 for utilization of Chemical Grade of Limestone for non-cement purposes is attached on Parivesh portal.												

	Limestone for non-cement purposes.	
12	The Project Proponent needs to submit a letter from the Department of Geology and Mining, Government of Gujarat clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s. Nirma Limited or not?	The company has not carried out any mining within the lease area much less any illegal mining in the lease area. There are old pits pre-dating the allotment of the lease to the company, which were received in legacy and shown in the present surface geological plan (Copy given on Parivesh portal). Request letter in this regard has been submitted to Department of Geology and Mining, Government of Gujarat on 03.11.2023. Acknowledgement of the same is attached on Parivesh portal.

xviii. Compliance of Sub-Committee Site Visit Recommendation given in 25th EAC meeting MoM held on 9th – 10th January, 2024.

Sr. No.	Recommendation of Sub-Committee	Reply by Project Proponent
1	PP should submit an action plan and timeline to indicate the purchase of lands across all three mining leases wherein it has proposed mining pits to initiate mining activities since as on date PP has only purchased / obtained surface rights over 101.1967 Ha out of 1351.6489 of Private Agriculture Land.	Action plan and Timeline indicating the purchase /obtain surface rights of land for mining for all three mining leases to initiate mining activities is attached on Parivesh Portal.
2.	Since PP envisages to handover the land with shallow quarry having depth upto 4m to landowners for farming and mostly all three mining leases are having agricultural land. PP is requested to conduct a survey to indicate the present status and number of low-lying areas, their respective which may be backfilled with available capacity of top soil/overburden and can be handed over to farmers for agricultural purpose.	In said mine, survey has been conducted & 2 nos. of pits i.e. Pit No. 4 & 5 (total Pit area -49.12 Ha) will have shallow depth pit in Pit area -36.36 Ha, will be backfilled for entire depth / partial depth, looking to availability of Soil for backfilling. <ul style="list-style-type: none"> • Pit no. 4 -16.84 Ha Pit area of 4.0 m bgl for entire depth out of total pit area of 29.6 Ha. • Pit No. 5 – 19.52 Ha Pit area of 4.0 m bgl for entire pit area in partial depth. Action plan for backfilling of shallow depth pits of depth up to 4.0 m and

		handing over to farmers for agriculture is attached on Parivesh Portal..
3.	Project Proponent needs to provide year wise exploration plan for all the three mining leases.	Exploration plan of said mining lease is attached on Parivesh Portal..
4.	Since, Bhavnagar falls under severely Polluted Area category, PP shall ensure that during initiation phase itself they should include the provision of permanent water sprinklers across the haul roads in all three mining leases.	Chitra Industrial area (severely polluted area) in Bhavnagar city is located around 100 km away from our said mining lease area. On initial stage, company will engage water tanker with sprinkler arrangement to suppress the dust on haul road and company will make provision of permanent water sprinklers across the haul roads in all three mining leases.
5.	Since, Bellur and other schools are in close proximity to mine lease area, PP shall ensure that necessary safety measures are taken as per DGMS norms for all three mining leases.	Company will ensure to maintain require safety measures & distance from Bellur School & other schools as per DGMS norms for all three mining leases during mining.
6.	PP shall ensure to construct bunds near the existing low lying areas that has developed into wetland to prevent the ingress of sea water in Padhiyarka and Doliya Limestone Mine lease area and Gujarada, Dudheri & Dudhala limestone mine lease area.	Not applicable
7.	The project Proponent needs to submit the integrated management plan describing the strategies and actions for achieving wise use of the wetland and the plan shall include objectives of the site management, management actions required to achieve the objectives, factors that affects, or may affect, the various site features, monitoring requirements for detecting changes in ecological character and for measuring the effectiveness of management, and resources for management implementation.	Not applicable
8.	PP needs to engage and impart skill among the villagers and local population	Company will not acquire any agriculture land through land acquisition

	<p>mainly the land losers and also submit a plan for their alternate livelihood arrangement since most of them will be losing their fertile lands.</p>	<p>by Govt. or without willingness of land owner and will purchase / obtain surface rights for mining on market commercial negotiated rates.</p> <p>Land owners may purchase agriculture land in nearby area in the amount which is to be paid to them against their land and can continue their livelihood. Company will give priority to engage land owners who have given land for mining purposes as per requirement of manpower for mines.</p> <p>Also, company will arrange to impart training to build capacity for self-employment [stitching, embroidery, tailoring, pickles, dairy improvement, poultry farming, etc.] to land losers and will facilitate vocational training along with skill development for getting better job opportunities (Budget Rs. 3 lakhs/year).</p>
9.	<p>PP should widen the existing village roads before using it for transportation in all three mining leases, wherever widening is not possible, PP shall submit an action plan for making alternate roads.</p>	<p>On initial stage, company has proposed to mine out limestone for Soda ash plant in lower capacity and company will use existing village road for transportation of limestone by maintaining the existing village road as number of trips of truck / dumpers will be very less i.e. around 11 numbers of trips/day maximum in this mine.</p> <p>Company will widen the existing village road or make alternate road in all three mining leases on installation of cement plant. Section plan of the road widening is attached on Parivesh Portal..</p>
10.	<p>PP should engage wildlife experts/ avian experts for conservation of the avian fauna within and near its mine lease.</p>	<p>Company has already engaged wildlife expert / avian expert for conservation of the avian fauna within and near its mine lease.</p>
11.	<p>PP shall plant native fruit bearing plants across all the proposed green patches.</p>	<p>Native fruit bearing plants will be planted across all the proposed green patches.</p>

12.	PP shall put boundary pillars across all mining leases.	Company had erected boundary pillars at the time of lease deed execution and got authentication of all boundary pillars co-ordinates through the DILR / State Govt. and provided in the approved mining plan for all three mining leases. Some pillars have been dislodged/ removed by local people. Company will put such boundary pillars again prior to commencement of mine so that they can be maintained.
13.	The project proponent needs to submit a letter from the Department of Geology & Mining, Govt. of Gujarat, clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s Nirma Limited or not?	<p>The company has not carried out any illegal mining in the lease area and request letter to provide required certificate regarding no mining carried out by company or others has been submitted to the District Geologist, Department of Geology and Mining, Government of Gujarat, Bhavnagar vide letter dated: 01.11.2023. In turn, the District Geologist, Bhavnagar has submitted his report to the Commissioner of Geology & Mining, Govt. of Gujarat, Gandhinagar vide its letter dated: 01.02.2024 to communicate the same to MoEF and copy endorsed to us. As per his report, No case of Illegal mining of limestone mineral has been registered within the mining lease area against the company M/s Nirma Limited or against any other individual or entity.</p> <p>Copy of our submitted letter dated: 01.11.2023 and copy of report of the District, Geologist, Geology & Mining Dep't, Bhavnagar dated 01.02.2024 is annexed on Parivesh Portal..</p>
14.	PP needs to submit plan to transport crushed limestone from all the three leases to plant.	The mine is captive mine to proposed cement plant at Padhiarka, Mahuva and High grade limestone to be used in company's own existing Soda Ash plant located as Kalatalav, Bhavnagar.

		<p>The cement plant is adjoining to the mine lease while the Soda ash plant is located around 100 km away and accessed through National Highway.</p> <p>Establishment of cement plant may take some time while the soda ash plant is already operational.</p> <p>Hence, till the commencement of proposed cement plant, maximum 5% i.e. 265 TPD limestone will be transported to Soda ash plant located near Bhavnagar through dumpers @11 trips per day. The trucks will pass through existing Madhiya - Amrutvel village road of 7 m width (out of which 4 m is black topped) for around 1.0 km and meet National Highway no. 51, from where the truck will move around 100 km.</p>
15.	<p>PP needs to take some measures to keep the migration bird ponds unharmed and protected by activity of mining in future.</p>	<p>Migratory birds are seen in Malan Bandhara as well as other nearby Bandhara areas, which areas located at distance of 5.4 km and 2.3 km from our mining lease area, respectively.</p> <p>Birds are also seen in low lying area, in which rain water accumulates temporarily during monsoon. However, they are pre-dominantly resident water birds.</p> <p>The company is committed to the measures proposed in the site specific wildlife conservation plan (summarised in point 7 earlier), which include points related to protection of shallow ponds, ecology and birds.</p> <p>The company will mine above 2m AMSL in low lying areas to maintain the fresh water nature of the water in it. The enlarging of the low lying area in pit</p>

		no. 2 & 3 of Padhiaryka & Doliya Mine and pit no. 5 & 6 of Gujarda, Dudheri & Dudhala will provide more area to birds. Also company will ensure that transportation will be carried out by maintaining safety distance from low lying areas.
16.	PP needs to install water treatment plant to reduce the hardness of water.	Drinking water is provided in every nearby villages through Narmada water pipeline by the State Govt. and drinking water requirements for mines shall also be fulfilled through Narmada water pipe line which is passing through nearby area. Hence, presently there is no proposal to use the hard ground water. However, if any requirement sought in future we will provide treatment plant.
17.	PP needs to explore possibility of deploying surface miners for mining.	Company has proposed mining with surface miner (50% quantity) in IBM approved mine plan and also in EIA report. Company explored use of Ripper dozer for cement plant use to eliminate drilling & blasting in the remaining 50% and committed the same in point no. 3, Specific Terms of Reference received from MOEF&CC vide Letter no. J-11015/154/2016-IA. II(M) dated November 28, 2022. For soda ash plant, we need sized limestone i.e. 25 mm to 100 mm, so surface miner cannot be deployed for limestone mining for Soda ash plant use. However, company will deploy rock breaker to avoid blasting during mining.

xix. Details of the Environmental Management Plan (EMP):

Activities	Capital cost (Crores)	Recurring cost (Lakhs/annum)
Pollution Control	0.241	9.54
Pollution monitoring	0.016	3.88
Occupational health	0.011	0.64
Environmental Studies, etc.	0.10	–
Green belt	–	5.10

Reclamation	–	11.39
Others (Environmental studies, Rehabilitation, Realignment, Expert advice, fencing etc.	–	5.28
Overheads	–	0.30
Total	0.3680	36.12

xx. Details of project cost and employment:

Particulars	(Rs. In Crore)
Total cost of EMP (Capital Cost of EMP + capital cost of Public hearing)	0.70
Project Cost	25
Employment (No.s)	58

3. Observation and Recommendation of the EAC

The EAC deliberated the instant proposal along with Padhiarka & Doliya Limestone Mine and Gujarda, Dudheri & Dudhala Limestone Mine. The Project Proponent presented its reply to the ADS points raised vide minutes of the 21st EAC as well as the recommendation of the sub-committee. After detailed deliberations, EAC **deferred** the proposal for the want of following information:-

- I. The Proponent shall submit No Objection Certificate from Ministry of Defence for consideration of the instant project.
- II. PP needs to undertake a study to showcase the probable impact of mining on migratory bird species and their fly-way passage (Central Asian Flyway). Accordingly, PP shall submit the revised conservation plan for the migratory bird species.
- III. The Project Proponent needs to undertake a study and submit the action for laying common Over Land Belt Conveyor (OLBC) for transportation of mineral from mine lease area to the proposed Cement Plant.
- IV. The project proponent needs to submit a letter from the Commissioner of Geology & Mining, Govt. of Gujarat, clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s Nirma Limited or not?
- V. PP submitted that National Highway is under construction, and they have submitted letter to National Highway Authorities of India (NHAI) regarding grant of permission to provide Underpass near their proposed cement plant entry. Accordingly, PP needs to submit the permission letter for the underpass.
- VI. The Project Proponent needs to carry out study by reputed institute to ascertain hardness of strata for deployment of surface miners for mining.
- VII. The Project Proponent needs to submit time line for acquiring land from the villegers.

Day 2: 15th March, 2024 (Friday)

2.1 Gandhamardan Block B Iron Ore Mining Project for production capacity of 9.12 MTPA in the mine lease area of 1590.8673 ha by M/s Odisha Mining Corporation Limited located at Village Upper Jagar, Urumunda, UparKainsari, Nitigotha, Ambadahara, Salarapentha, Daonla & Gandhamardan Protected Reserve Forest, Tehsil Banspal, District Keonjhar, State Odisha – Reconsideration for Amendment in EC dated 03.02.2009 w.r.t. specific condition no. 'xx' reg [Online Proposal No. IA/OR/MIN/451209/2023, F.No. J-11015/1084/2007-IA.II(M)]

The proposal is for amendment in EC dated 03.02.2009 w.r.t specific condition no. xx of Gandhamardan Block B Iron Ore Mining Project of M/s Odisha Mining Corporation Limited for production capacity of 9.12 MTPA in the mine lease area of 1590.8673 ha, located at Village: Upper Jagar, Urumunda, UparKainsari, Nitigotha, Ambadahara, Salarapentha, Daonla & Gandhamardan Protected Reserve Forest, Tehsil Banspal, Dist. Keonjhar, Odisha.

2. The details of the project as ascertained from the documents submitted by the Project Proponent and revealed from the discussions held during the meeting are given as under:

- i. Initially, the Project Proponent obtained Environmental Clearance vide EC letter dated 03.02.2009 for an annual production capacity of 91,20,000 tonnes (9.12 million tonnes) of Iron Ore over an area of 1590.8673 ha. One of the specific condition no: xx states that “Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral within the mine lease. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral within the mine lease shall not be overloaded. No transportation of ore outside the mine lease area shall be carried out after the sunset”.
- ii. Now, the Project Proponent has requested for amendment in EC dated 03.02.2009 to allow the transportation of ore outside the mine lease area after the sunset in respect of Gandhamardan Block B Iron ore mines of OMC.
- iii. Justification for amendment in EC:
 - a. The Project Proponent has submitted that the total mine lease area is 1590.8673 ha, out of which 1409.6489 ha is a forest land and 181.2184 ha is a non-forest land.
 - b. Stage-II Forest Clearance was granted in two phases. (i) MoE&F vide letter dated 17.08.2007 granted forest clearance under Section-2 of the Forest (Conservation) Act, 1980 for diversion of 232.438 ha of forest land and (ii) MoEF&CC vide letter dated 09.10.2018 granted forest clearance under Section-2 of the Forest (Conservation) Act, 1980 for diversion of balance forest land of 1177.211 ha including 25.1070 ha for safety zone in addition

to 232.438 of forest land already diverted within total mining lease area of 1590.8673 ha.

- c. Since the date of grant of forest clearance for the total area within mine lease, OMC has never been able to achieve the target production and dispatched Iron ore of 9.12MTPA (approved production quantity as per EC). It is not possible to transport all the materials during the day time with the existing road infrastructure and due to Specific Condition No.(xx) of EC dated 03.02.2009.
- iv. The Project Proponent has submitted that the supplementary mine lease deed executed on 07.06.2019 and the mine lease is valid up to 10.07.2040. Modification of Review of Mining Plan along with Progressive Mine Closure Plan was approved by Indian Bureau of Mines vide letter dated 02.08.2021 over an area of 1590.8673 ha for the period 2021-22 to 2024-25.
- v. The Project Proponent has submitted the past production details from the year 1993-94 to 2023-24 (August, 2023) wherein, excess production has been observed from the year 2001-2002 to 2008-2009. Afterwards the production capacity is within their prescribed EC capacity.
- vi. The Project Proponent has submitted the certified compliance report issued by the Regional Office (RO), Bhubaneswar. Site visit was conducted by RO on 09.10.2023.
- vii. Earlier, the Proposal was considered in the 23rdEAC meeting held during 5-7th December, 2023 wherein the Committee has deferred the proposal for the submission of requisite information. The Project Proponent has submitted the relevant information on Parivesh as follows:

S.No.	Observation in 23 rd EAC meeting held during 5-7 th December, 2023	Reply by Project Proponent
1.	The Project Proponent needs to carry out the scientific study by the reputed institute regarding the carrying capacity of the road indicating the exact quantity to be transported during night time along with details of trips to and fro, capacity of the dumper, design of the road, additional traffic on the road, timeframe required for night transportation depending on the infrastructure availability and also adverse impacts on the environment and wildlife due to night transportation.	The scientific study on the carrying capacity of the road indicating the exact quantity to be transported during night time along with details of trips to and capacity of the dumper, design of the road, additional traffic on the road, timeframe required for night transportation etc has been carried out by CSIR-Centre for Road Research Institute (CRRRI). The Report has been submitted on Parivesh.
2.	The Project Proponent needs to submit the specific mitigation	Divisional Forest Officer (DFO), Keonjhar vide letter dated

	measures w.r.t Wildlife during night transportation.	17.02.2024 submitted the information related to the mitigation measures w.r.t wildlife during night transportation.
3.	The Project Proponent needs to submit the letter from the State Forest Dept., regarding the movement of animals in the transportation route during night.	Divisional Forest Officer (DFO), Keonjhar vide letter dated 17.02.2024 submitted the information w.r.t. movement of animals in the transportation route during night.
4.	The Project Proponent needs to submit the re verification report done by the Regional Office for the non-compliances.	Project Proponent has submitted comments of regional office, Bhubaneswar for the non-compliances.
5.	The Project Proponent needs to submit the copy of the demand notice issued from the Office of the Deputy Director of Mines and proof of payment made against the demand notice.	The copies of the demand notice issued from the Office of the Deputy Director of Mines and proofs of payment made against the demand notices has been submitted vide letter dated 04.09.2017.
6.	The Project Proponent needs to submit the copy of the certified past production details issued from the Office of the Deputy Director of Mines dated 18.09.2023 from the year 1993-94 to 2023-24 (Aug, 2023).	The copy of the certified past production details issued from the Office of Deputy Director of Mines dated 18.09.2023 from the year 1993-94 to 2023-24 (August, 2023).

viii. The Project Proponent has submitted the certified compliance report issued by the Regional Office (RO), Bhubaneshwar. Site visit was conducted by RO on 09.10.2023.

3. Observation and Recommendation of the EAC

The Project Proponent informed the EAC that initially Environmental Clearance (EC) was obtained on 03.02.2009 for an annual production capacity of 91,20,000 tonnes (9.12 million tonnes) of Iron Ore over an area of 1590.8673 ha.

The Project Proponent further informed the EAC that one of the specific condition no: xx states that "Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral within the mine lease. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral within the mine lease shall not be overloaded. No transportation of ore outside the mine lease area shall be carried out after the sunset"

The EAC noted that the ML area is surrounded by the forest area and movement of wild-animal species have been frequently observed. Committee asked the PP to increase the truck size from 40 to 45 tonnes (Payload) in order to meet the transportation demand.

The EAC requested the PP to engage any reputed wildlife institute to carry out a study for recording the movement of elephant and other wild-animals. The study should also reflect existing Human-Wildlife conflict if any prevalent within the vicinity of the mine lease area. EAC also opined that PP needs to carry out a drone survey of the entire mine lease area and the transportation route. Based on above discussion, the EAC **deferred** the proposal for the want of following information :-

- i. The PP needs to submit the implementable plan for increased truck size from 40 to 45 tonnes (Payload) in order to meet the transportation demand in day time.
- ii. The PP needs to submit the clarification from DFO with regard to presence of Elephant and other wild-life movement within the mine lease area and in its vicinity.
- iii. The PP needs to carryout a study to record the movement of elephants and other wild-animals within and near the mine lease area. The study should also reflect existing Human-Wildlife conflict if any prevalent within the vicinity of the mine lease area.
- iv. The PP needs to submit the recorded drone video of the complete ML area and transportation route.
- v. PP needs to submit the Data related to the movement of commercial vehicle at night and projected number of total commercial vehicle to be seperately mentioned after considering the truck size of 40-45 tonnes (Payload).

2.2 Lakheri Limestone Mine for Limestone production with capacity of 1.5 MTPA and waste/topsoil 11.25 Lakhs CuM per annum (Maximum) with existing Wobbler and screening plant of 400 TPH in the ML area of 1516.88 ha by M/s ACC Limited located at villages Gendoli Kala, GendoliKhurdh, Pholai, Gutha, Mahuwa, Dangaheri, Budel, Kankra, Chamavali, Uttarana, Lkaheri, Sakhoda, Nayagaon & Papadi, Tehsil Indergarh& Kesoraipatan, District Bundi, Rajasthan– For Corrigendum in Environmental Clearance dated 29.12.2023 w.r.t. Specific Condition no. 3.2 reg [Online Proposal No. IA/RJ/MIN/462722/2024 , F.No. J-11015/167/2018-IA.II(M)]

The proposal is for Corrigendum in EC letter dated 29.12.2023 w.r.t. Specific Condition no. 3.2 w.r.t correction in area of diverted forest land as 208 ha in place of 201.88 ha for Lakheri Limestone Mine for Limestone production with capacity of 1.5 MTPA and waste/topsoil 11.25 Lakhs CuM per annum (Maximum) with existing Wobbler and screening plant of 400 TPH in the ML area of 1516.88 ha by M/s ACC Limited located at villages Gendoli Kala, GendoliKhurdh, Pholai, Gutha, Mahuwa,

Dangaheri, Budel, Kankra, Chamavali, Uttarana, Lkaheri, Sakhoda, Nayagaon & Papadi, Tehsil Indergarh & Kesoraipatan, District Bundi, Rajasthan.

2. The Project Proponent has submitted the following information with regard to the corrigendum sought:

Ref of EC	Particular	Required Corrigendum	Remark
Specific Condition No 3.2	Mining activity is restricted to the Forest Land (201.88 ha) for which the Stage II FC is available as per Ministry's letter dated 27.12.2017 plus the non-forest land (1107 ha)"	Mining activity is restricted to the Forest Land (<u>208 ha</u>) for which the Stage II FC is available as per Ministry's letter dated 27.12.2017 plus the non-forest land (1107 ha)"	MOEF&CC (Forest Conservation Division) has rectified the same vide corrigendum dated 09.02.2024 and mentioned in Para no 3 of the said letters it is mentioned that <u>"Therefore instead of 201.88 ha as mentioned in Ministry letter no. 8-26/2003-FC dated 27.12.2017 it should be read as 208 ha and the remaining content of the letter no. 8-26/2003-FC dated 27.12.2017 remains the same"</u>

3. Observation and Recommendation of the EAC

The PP/Consultant informed the EAC, that the instant proposal is for corrigendum in Specific Condition no 3.2 of Environmental Clearance (EC) dated 29.12.2023 w.r.t correction in diverted forest area of 208 ha in place of 201.88 ha.

The EAC noted that the Project Proponent has obtained the permission for the complete forest area of 409.88 ha on 27.12.2017 wherein it was mentioned that out of 409.88 ha of forest land in the lease, the Forest Clearance under section 2 (ii) was granted for 201.88 ha in 2012. However, the Project Proponent has Forest Clearance under section 2 (ii) for 208 ha. The Forest Conservation Division in the Ministry vide letter dated 09.02.2024 has clearly mentioned that "instead of 201.88 ha as mentioned in Ministry letter no. 8-26/2003-FC vide dated 27.12.2017 should be read as 208 ha".

In view of the above, the EAC **recommended** for corrigendum in Specific Condition no 3.2 of Environmental Clearance (EC) dated 29.12.2023 w.r.t correction in diverted forest area of 208 ha in place of 201.88 ha and the specific condition no. 3.2 shall be read as "Mining activity is restricted to the Forest Land (208 ha) for which

the Stage II FC is available as per Ministry's letter dated 27.12.2017 and 09.02.2024 plus the non-forest land (1107 ha)".

2.3 River Sand (Bajri) Mining Project with production capacity of 16,56,120 TPA in the Mine lease area of 329.90 ha by M/s Pramod Meena Baran located at Villages Bhawgarh, Balunda, Jarela, Mundiya, Nand Ganwadi, Pagara, Singola, Mahtabpura, Piplda Khurd, Boreda, Piplda Kalan, Arjunpura, Bislai, Gorela, Takariya Dhani, Gopalpura, Pali Tehsil Mangrol & Kishanganj, District Baran, Rajasthan – Reconsideration for Environmental Clearance reg[Online Proposal No. IA/RJ/MIN/25563/2014, File No. J-11015/166/2014-IA.II(M)], [EIA Consultant: M/s Overseas Min-Tech Consultants]

The proposal is for Environmental Clearance for River Sand (Bajri) Mining Project with production capacity of 16,56,120 TPA in the Mine lease area of 329.90 ha by M/s Pramod Meena Baran located at Villages Bhawgarh, Balunda, Jarela, Mundiya, Nand Ganwadi, Pagara, Singola, Mahtabpura, Piplda Khurd, Boreda, Piplda Kalan, Arjunpura, Bislai, Gorela, Takariya Dhani, Gopalpura, Pali Tehsil Mangrol & Kishanganj, District Baran, Rajasthan.

2. Observation and Recommendation of the EAC: -

The EAC noted that the Project Proponent's letter dated 15.03.2024 regarding the change in scope of the proposal. Accordingly, the EAC **recommended** to return the proposal in present form.

2.4 River Sand (Bajri) Mining Project with production capacity of 0.42 MTPA in the Mine lease area of 360.97 ha by M/s Shri Mukesh Sharmalocated at Revenue Villages of Baran TehsilUlthi, Majrawta, KalyanpurGhata, Ghisri, Hanotiya, Koyla, Shahgarh, Revenue Villages of Kishanganj Tehsil Kagla Bamori, Mehrawata, Rani Badod District Baran, Rajasthan – Reconsideration for Environmental Clearance reg [Online Proposal No. IA/RJ/MIN/32677/2015, File No. J-11015/408/2015-IA. II(M)], [EIA Consultant: M/s Enkay Enviro Services Pvt. Ltd.]

The proposal is for Environmental Clearance for River Sand (Bajri) Mining Project with production capacity of 0.42 MTPA in the Mine lease area of 360.97 ha by M/s Shri Mukesh Sharmalocated at Revenue Villages of Baran TehsilUlthi, Majrawta, KalyanpurGhata, Ghisri, Hanotiya, Koyla, Shahgarh, Revenue Villages of Kishanganj Tehsil Kagla Bamori, Mehrawata, Rani Badod District Baran, Rajasthan. River area spreads in 10 Villages of Tehsil – Baran & Kishanganj.

2. Observation and Recommendation of the EAC: -

The EAC noted that the Project Proponent's letter dated 23.11.2023 regarding the change in scope of the proposal. Accordingly, the EAC **recommended** to return the proposal in present form.

2.5 River Sand (Bajri) Mining Project with production capacity of 2.8 MTPA in the Mine lease area of 905.206 ha by M/s Shri Mukesh Sharmalocated at near revenue villages of Tehsil Pidawa, District Jhalawar, Rajasthan– Reconsideration for Environmental Clearance reg [Online Proposal No. IA/RJ/MIN/25369/2014, File No. J-11015/113/2016-IA-II (M)], [EIA Consultant: M/s Enkay Enviro Services Pvt. Ltd.]

The proposal is for Environmental Clearance for River Sand (Bajri) Mining Project with production capacity of 2.8 MTPA in the Mine lease area of 905.206 ha by M/s Shri Mukesh Sharmalocated at near revenue villages of Tehsil Pidawa, District Jhalawar, Rajasthan.

2. Observation and Recommendation of the EAC

The EAC noted that the Project Proponent's letter dated 23.11.2023 regarding the change in scope of the proposal. Accordingly, the EAC **recommended** to return the proposal in present form.

2.6 River Sand (Bajri) Mining Project with production capacity of 1.008 MTPA in the Mine lease area of 177.64ha byM/s Chandak Associates located at near village Sureli (Khasra No. 1 and 1402) Tehsil Uniyara, District Tonk, Rajasthan – Reconsideration for Environmental Clearance reg.[Online Proposal No. IA/RJ/MIN/26462/2013, File No. J-11015/179/2013-IA.II (M)]

The Proposal is for Environmental Clearance for River Sand (Bajri) Mining Project with production capacity of 1.008 MTPA in the Mine lease area of 177.64ha by M/s Chandak Associates located at near village Sureli (Khasra No. 1 and 1402) Tehsil Uniyara, District Tonk, Rajasthan.

2. The Project Proponent has submitted the following information on the Parivesh portal:

- i.** The Latitudes and Longitudes of the Mine Lease area are 26°06'04.29"N to 26°07'59.76"N and 76°01'05.66"E to 76°01'400.57"E respectively on Survey of India toposheet numbers 45 N/16 & 54 B/4. The Project is located in Seismic zone-II.
- ii.** As per EIA Notification dated 14th September, 2006 as amended from time to time, the project falls under Category A or Activity 1(a) as the mining lease area is greater than 100 ha.
- iii.** The proposal of TOR was considered by the Expert Appraisal Committee in its 9th Meeting held during 22nd - 24th July, 2013 to determine the Terms of

Reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEF&CC vide letter No. J-11015/179/2013-IA.II (M), dated 13th September, 2013.

3. Observation and Recommendation of the EAC: -

The EAC noted that the Project Proponent did not attend the EAC meeting at the scheduled time. Hence, EAC **deferred** the proposal.

2.7 River Sand (Bajri) Mining Project with production capacity of 1.31 MTPA in the Mine lease area of 252.48ha by M/s Shri Chandra Pal Singh s/o Shri Ganga Singh located at Tehsil-Digod & Pipalda, District-Kota and Tehsil- Anta, District-Baran, Rajasthan – Reconsideration for Environmental Clearance reg[Online Proposal No. IA/RJ/MIN/25549/2014, File No. J-11015/233/2014-IA.II(M)]

The proposal is for Environmental Clearance for River Sand (Bajri) Mining Project with production capacity of 1.31 MTPA in the Mine lease area of 252.48ha by M/s Shri Chandra Pal Singh s/o Shri Ganga Singh located at Tehsil-Digod & Pipalda, District-Kota and Tehsil- Anta, District-Baran, Rajasthan.

2. The Project proponent vide letter dated 07.03.2024 submitted that their proposal was considered during the 32nd Meeting of EAC held during May 30-31st, 2018. The committee observed that the Terms of Reference (T.O.R) validity for aforesaid project was expired at the time of submission of the final report, and subsequently the project was deferred. Subsequently, ADS was generated on 15.02.2023, since the validity of T.O.R dated 29.10.2014 expired, the committee directed to apply fresh T.O.R at SEIAA as per the provision of EIA, 2006 notification and its subsequent amendments.

In compliance to the directions of EAC, and as per Gazette Notification S.O.1886 (E), dated 20th April, 2022, the Project proponent has applied for fresh TOR in SEIAA- Rajasthan with Proposal No. SIA/RJ/MIN/419277/2023 on 26.12.2023.

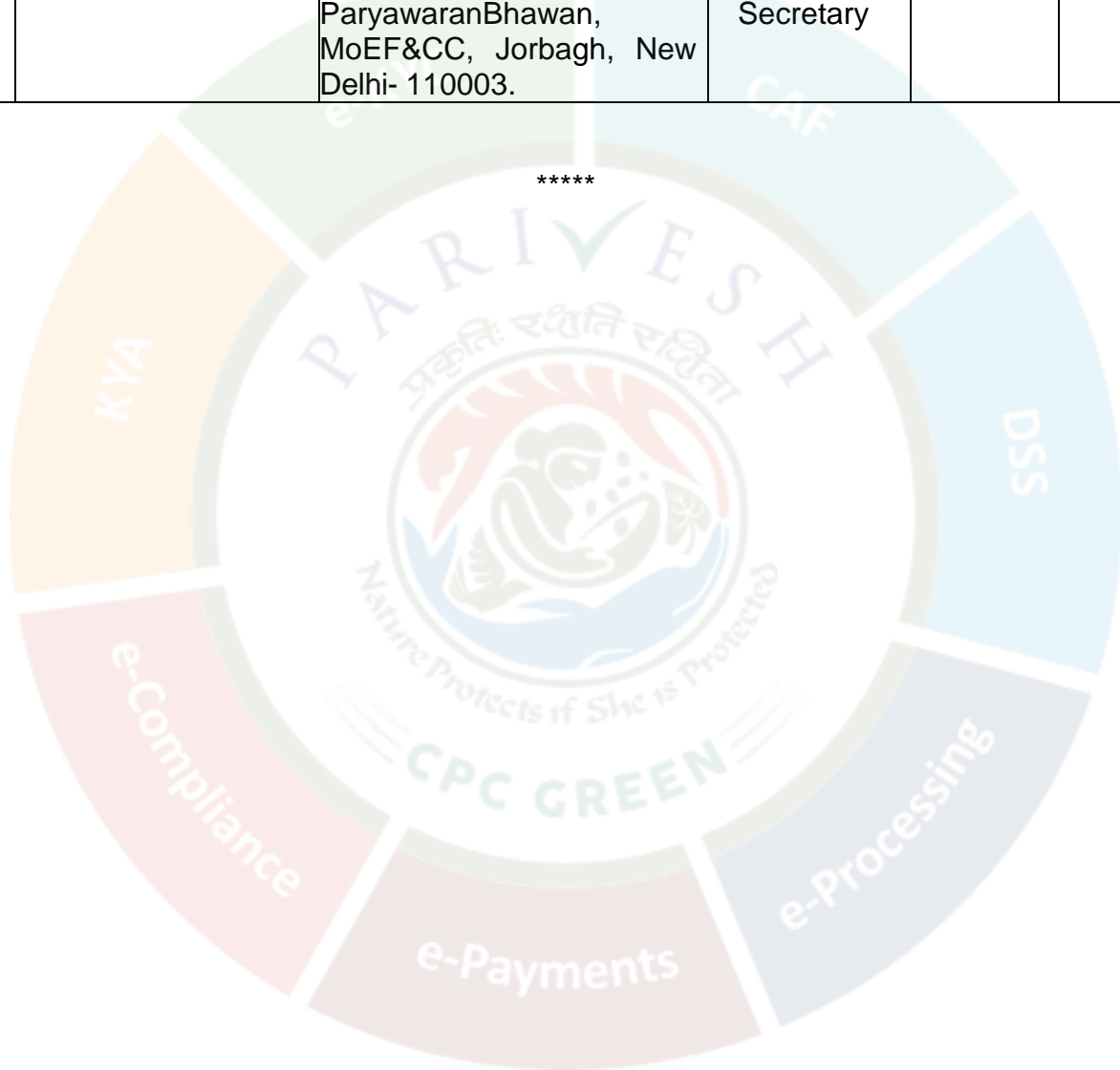
3. Observation and Recommendation of the EAC

The EAC after deliberations noted and accepted the withdrawn request of proposal and hence, **recommended** to withdraw the same.

List of members of Expert Appraisal Committee participated through VC

S.No	Member Name	Member Address	Designation	14 th March 2024	15 th March 2024
1	Dr. Dinesh Misra, IFS (Retd.)	Plot No 65, Sector 8, Gandhinagar, Gujarat, 382 008	Chairman	Yes	Yes
2	Sh. Niranjana Kumar Vasu, IFS (Retd.)	816, Shanti Nagar, Opposite Durgapur Railway Station, Jaipur-Rajasthan, 302018	Member	Yes	Yes
3	Dr. Asha Rajvanshi, Scientist 'G' (Retd.), WII	B/104/106 Rock Valley Apartments, GMS Road, Sewla Kalan, P.O. Majra, Dehradun, Uttarakhand-248171	Member	Yes	Yes
4	Shri. Avijit Ghosh (CMD- Heavy Engineering Corporation Limited) (Retd.)	Singhee Marg, A- 604 Shahadeo Tower, P.P.Compound, Ranchi 834001, Jharkhand	Member	Yes	Yes
5	Shri. Bandi Ramchandra Reddy (Former CMD-South Eastern Coalfields Limited)-(Retd.)	Flat No-503 A, Jyoti Cosmos, White Fields, Hi-Tech City, Kondapur, Hyderabad-500081	Member	Yes	Yes
6	Prof. Pramod Kumar, Professor, Shri Aurobindo College, University of Delhi	Shri Aurobindo College, University of Delhi 1372, B-1, Vasant Kunj, New Delhi-110070	Member	No	No
7	Prof. Devesh Walia, Department of Environmental Studies	Department of Environmental Studies, NEHU, Shillong-793022 Meghalaya	Member	No	No
8	Dr. Suresh Tiwari Scientist-F	Indian Institute of Tropical Meteorology, Pune, New Delhi Branch, Prof. Ram Nath Viji Marg Rajinder Nagar, New Delhi - 110060	Member	Yes	Yes
9	Dr. K.G Asha Manjari, Professor, University of Mysore	10/B, "SPARSHA", 2nd Main, 2 nd Cross, Bhogadi Ind Stage, Mysore-570026, Karnataka	Member	Yes	Yes
10	Prof. Dev Dutt Sharma, Vice-Chancellor	Sardar Patel University, Mandi H.P. 175001	Member	No	No
11	Shri V. K. Soni, Representative of India Meteorological	Government of India, Ministry of Earth Sciences, India Meteorological	Member	No	No

	Department	Department, MausamBhawan, Lodi Road, New Delhi – 110003			
12	Shri Yogesh Kale Representative of Indian Bureau of Mines	Controller of Mines, IBM Block D, Second Floor, Indira Bhavan, Civil Lines, Nagpur - 440001	Member	Yes	Yes
13	Shri Niazi Mohammed	Representative of Directorate General of Mines Safety	Member	Yes	Yes
15	Shri Pankaj Verma	3 rd Floor, Vayu Block, Indira ParyawaranBhawan, MoEF&CC, Jorbagh, New Delhi- 110003.	Member Secretary	Yes	Yes



**GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
(IMPACT ASSESSMENT DIVISION)
NON-COAL MINING SECTOR**

SUMMARY RECORD OF 28th MEETING OF THE COMMITTEE OF THE RE-CONSTITUTED EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF NON-COAL MINING PROJECTS CONSTITUTED UNDER THE EIA NOTIFICATION, 2006.

The 28th meeting of the Re-Constituted Expert Appraisal Committee (EAC) for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment, Forest and Climate Change was held during 14-15th March, 2024 through video conference. The list of participants is annexed herewith. After login of the Committee Members through video conference link provided by NIC discussion on each of the Agenda Items was taken up ad-seriatim.

(1.0) Deliberation & Circulation on the Minutes of 27th EAC (Non-Coal Mining) meeting held during 20th February, 2024 & 21st February, 2024.

The minutes of the 27th Meeting of the EAC (NoN-Coal) held during 20th February, 2024 & 21st February, 2024 were placed before the members of the EAC and confirmed by the Chairman.

Day 1: 14th March, 2024 (Thursday)

1.1 Chettichavadi Jaghir Magnesite and Dunite Mine with total excavation of 1.4 MTPA which includes 0.06 million tons of Magnesite, 0.12 million tons of Dunite and others (waste, O.B, Inter Burden, Top Soil etc.) in the mine lease area of 449.364 ha of M/s. Dalmia Bharat Sugar and Industries Limited located at Chettichavadi Village, Salem Taluk, Salem District, Tamil Nadu - For Reconsideration of Environmental Clearance reg [Online proposal no. IA/TN/MIN/241375/2018; File No. 23-227/2018-IA.III(V)][Consultant: Aadhi Boomi Mining & Enviro Tech (P) Ltd] - Environmental Clearance (Violation)]

The instant proposal is for grant of Environmental Clearance (under violation category) for Chettichavadi Jaghir Magnesite and Dunite Mine with total excavation of 1.4 MTPA which includes 0.06 million tons of Magnesite, 0.12 million tons of Dunite and others (waste, O.B, Inter Burden, Top Soil etc.) in the mine lease area of 449.364 ha of M/s. Dalmia Bharat Sugar and Industries Limited located at Chettichavadi Village, Salem Taluk, Salem District, Tamil Nadu.

2. The details of the project as ascertained from the document submitted by the Project Proponent and as revealed from the discussions held during the meeting are given as under:

- i. The mine lease area is located between Latitude: 11°43'09.71"N to 11°44'36.233"N and Longitude: 78°07'23.268"E to 78°09'13.068" E. The mine lease area falls under the Survey of India Toposheet No: 58 I/2 and falls in Seismic Zone-III.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mine lease area is greater than 250 ha and appraised at the Central level.
- iii. The Project Proponent obtained Terms of Reference (ToR) vide ToR Lr.No: 23-227/2018-IA.III(V) dated 05.02.2021 for mining of Magnesite and Dunite in Chettichavadi Jaghir Magnesite and Dunite Mine for Total Excavation of 1.4 million Tonne per annum (MTPA)/[including 0.06 million tons of Magnesite, 0.12 million tons of Dunite, Waste, O.B, Inter Burden, Top Soil etc.] in the mine lease area of 449.364 ha under Ministry's Notification dated S.O 804(E) dated 14.03.2017.
- iv. The proposal was earlier considered in the 43rd EAC (Non-Coal Mining) meeting held during 14 -16 December, 2021 wherein the EAC deferred the proposal for want of requisite information. The Project Proponent submitted the information on 11.03.2022 in Parivesh. However, the Project Proponent did not comply to the observation of EAC and in view of the above additional details were sought by the Ministry on 27.04.2022, 22.08.2022, 12.09.2022, 04.10.2022 and 22.11.2022 to provide the valid mine lease document. The Project Proponent submitted the desired information on 21.12.2022 in Parivesh. The proposal was again reconsidered in the 9thEAC (Non-Coal Mining) meeting held during 17-18 January, 2023 wherein the EAC deferred the proposal for want of requisite information, accordingly, PP submitted the information on 01.09.2023 in Parivesh Portal. The proposal was then reconsidered in the 20th EAC (Non Coal Mining) meeting held during 21-22nd September, 2023 wherein the Committee asked the Project Proponent to submit the proof of payment of Rs. 18.69 crore as per Dept. of Geology and Mining, Guindy letter dated 09.12.2022 for further consideration of the instant proposal before the EAC. The Project Proponent submitted the information vide its letter dated 19.02.2024 on Parivesh Portal. Accordingly, the proposal was again reconsidered in the 28th EAC meeting held during 14-15th March, 2024.
- v. Based on observation of EAC in its EAC meeting held during 21-22September, 2023, the PP provided the following information:-

S. No.	Observation of EAC in its meeting held during 21-22 September, 2023	Reply by Project Proponent
1.	The EAC asked the Project Proponent to submit the proof of payment of Rs. 18.69 crore as per Dept. of	The said demands were being contested by the company before Hon'ble High Court of Madras In W.A.834 of 2020 (w.r.t to Rs.11.44

	<p>Geology and Mining, Guindy letter dated 09.12.2022 for further consideration of the instant proposal before the EAC.</p>	<p>Crore demand) and W.P.32057 of 2023 (w.r.t to Rs.7.24 Crore demand).</p> <p>In this context, we are herewith submitting order of the Honorable Madras High Court dated 15.02.2024 In respect of W.A.834 of 2020 (w.r.t to Rs.11.44 Crore demand) and W.P.32057 of 2023 (w.r.t to Rs.7.24 Crore demand) heard along with W.A.671 and batch.</p> <p>The operative portion of the said Order reads as under <i>“(i) The impugned order passed by the learned Single Judge at the Principal Seat is quashed and set aside; (ii) The Impugned orders/memos imposing 100% penalty/cost upon the appellants/petitioners shall be construed as show-cause notices; (iii) The appellants/petitioners shall file reply to the said show-cause notices, along with all the relevant documents on which they rely, within a period of four weeks from today; and (iv) The authority shall consider the reply filed by the appellants/petitioners individually and pass fresh orders with regard to imposing of penalty/cost or otherwise.”</i></p>
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vi. SEIAA/SEAC has approved the DSR for the Mineral Dunite and details has been mentioned below:

Date of application	Proposal No/ File No	Consideration by SEAA/SEAC	Details of EC	Date of accord
31 st Jan 2023/ 23 rd Feb 2023	-	597 th Meeting of SEIAA dated 27 th Feb 2023	-	-
	File No. C.No. 6013/2023	361 st SEAC meeting dated 10 th March 2023	-	
		379 th SEAC meeting dated 12 th May 2023		

		380 th SEAC meeting dated 17 th May 2023		
	C: No 6011/ 2013	627 th SEIAA meeting dated 6 th June 2023	Approved the DSR for Dunite	6 th June 2023

vii. **Details of Mine Lease in chronological manner:**

S. No	Details of grant of Mine Lease deed execution	Period of Grant		Name of the Mineral	Mine lease area in Ha
		From	To		
1	G.O.Ms.No.903 dt.25.02.1966.	1966	1986	Magnesite	574.46 Ha
2	G. O.Ms.No.801 dt. 26.06.1976.	1976	1986	Dunite	574.46 Ha
3	G.O.Ms.No.74 dt. 11.03.1997.	1986	2006	Magnesite & Dunite	531.98 Ha
4	Application No: SL: GO:55200(1) 11-07-2005.	-	-	Magnesite & Dunite	449.364 Ha.
5	Letter from Dept of Geology and Mining vide Lr.No.TN RC No: 1355/MM9/2006 dated 09.12.2022 for validity of lease (till 31.03.2030), as per Sec 8(A)(5) of MMDR(Amendment) Act-2015.	-	31.03.2030	Magnesite & Dunite	449.364 Ha.

viii. **Land Use/Land Cover of the Mine Lease Area:**

Private land	-
Government land	449.364 Ha Unassessed Dry Waste Land Belonging to Government.
Forest land	-
Total Mining lease area (MLA), ha	449.364 Ha
Private land for crusher, workshop & other infrastructure outside the MLA	Nil

ix. **Mining plan details:**

Mining Plan including Progressive Mine Closure Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	TN/SLM/ MG& DU/ ROMP-1646-MDS.
	Date	30.03.2021
	Mineral & (Major/Minor)	Major – Magnesite Minor - Dunite

	Mine Lease Area	449.364 Ha.
	Mining Plan Validity	2021-2022 to 2025-2026.
Additional information (if any)		
Mining Parameters		Quantitative Description
Method of Mining		Open Cast Semi Mechanized Mining
Drilling/Blasting		Deep Hole Drilling 100-104 mm Dia & Small Dia 25 mm Dia Holes.
Geological Reserves		Magnesite-11.015979 Million Tonnes, Dunite – 32.165161 Million Tonnes.
Mineable Reserves		Magnesite-11.015979 Million Tonnes, Dunite – 32.165161 Million Tonnes.
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/ Waste, MTPA)		Magnesite : 61913 T/yr (0.06 MTPA) Dunite : 141436 T/yr (0.14 MTPA) Waste : 1211009 T/yr (1.2 MTPA) Total ROM/Excavation: 1414358 T/yr (1.4 MTPA)
Life of mine		100 Years
Mine Bench Height & Bench Width		7.5 Mtr Height, 15- 20Mtr Width
No. of Mine Benches		4-5 Average.
Existing Depth, m bgl		20m
Ultimate Depth of Mining, m bgl		320m RL above MSL
Ground Water Table, m bgl		325m & 335mRLaboveMSL.
Details of ground water intersection		Not applicable
Individual bench slope		60° from Horizontal.
Overall pit slope		45°
Details of existing/ proposed Crusher		Nil
Mineral Beneficiation		Not in Mine lease area, but done in Factory.
RoM output size		14,00,000Tonnes.
Transportation details including capacity of dumper/tipper, mode of transport and distance		ROM by Dumpers& Mineral by 10 Tonners.
Generation of Topsoil/OB & its Management during plan period & conceptual period		No Top Soil Generation. OB is stored in spoil dumps for future use.
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period		Mineral rejects are stacked separately and sold as per market demand.

x. Water requirement:

Total water requirement	70 KLD	Fresh water	70 KLD
		Treated water	
Source	BORE WELL		
Permission for withdrawal/ intersection along with details of grant and its validity	OT8/AG-2/33/2023/Renewal-NOC/SLM/2023 dated 20.02.2023 valid upto 17-Nov-2025.		

xi. Nearest village/town/ highway/interstate boundary/railway station/water bodies/monument/ forest

Particulars	Particular's Name	Distance & Directions		
Village	Chettichavadi	850m (E)		
Town	Salem	10 Km		
Highway	NH 7 - Salem – Bengaluru. SH 188 – Salem – Yercaud. Muthanaickanpatti Road (Salem)	5.0 km – SW. 3.12km – SE MDR 696. 6.0km - SW.		
Interstate Boundary	N/A.	N/A.		
Railway Station/Railway line	Salem Junction Railway Station	6 km (S)		
Water Bodies	S.No	Water Body	Direction	Distance
	1	Kannankurichi Lake	SE	4.7
	2	KannankurichiPuthueri	SE	4.64
	3	Thathampatti lake	SE	7.97
	4	Mariamman temple	SE	8.75
	5	Selathampattiyeri	SW	7.05
	6	Lake near	SW	1.12
	7	Lake near NH 7	SW	2.9
	8	Lake near Indiranagar	SW	3.14
	9	Pallapatti Lake	S	6.50
	10	Arisipalayam lake	S	7.07
	11	Kumaragiri lake	S	8.5
	12	Lake near	W	10
	13	Lake near Anaigoundampatty	W	7.7
	14	Samuthiram Lake	W	4.40
	15	Lake near Pagalpatti	W	6.21
	16	Lake near	NW	8.1
	17	Lake near	NW	7.64
	18	Lake near	NW	7.72
19	Lake near Vattakkadu	N	4.40	

Forest	Nagarmalai RF	Nagarmalai RF
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xii. Presence of Environmentally Sensitive areas in the study area:

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks																														
Forest Land within the mine lease area and (if yes) status of Forest Clearance	NO																															
National Park	NO																															
Wildlife Sanctuary	NO																															
Elephant/Tiger Reserve	NO																															
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area (ESA)	NO																															
Coastal Regulation Zone (CRZ)	NO																															
Schedule-I species (Nos and name of schedule-I species with authenticated letter)	Yes	<p>Revised letter from the Forest Range Officer, TN Forest Department was obtained mentioning the type of Schedule I Species in the study area of 10 Km Radius vide Letter no. C.No.228/2021 dated 13th Feb 2023.</p> <p>As per the list 18 nos. of Schedule-1 Sp. are reported:</p> <table border="1"> <thead> <tr> <th>Sn</th> <th>Common Name</th> <th>Zoological Name</th> </tr> </thead> <tbody> <tr> <td></td> <td>Mammals</td> <td></td> </tr> <tr> <td>1.</td> <td>Gaur</td> <td><i>Bos Gaurus.</i></td> </tr> <tr> <td>2.</td> <td>Jungle Cat</td> <td><i>Felis Chaus</i></td> </tr> <tr> <td>3.</td> <td>Mouse Deer</td> <td><i>Tragulus Meminna.</i></td> </tr> <tr> <td>4.</td> <td>Spotted Deer</td> <td><i>Axis Axis.</i></td> </tr> <tr> <td>5.</td> <td>Jackal</td> <td><i>Canis Aureus</i></td> </tr> <tr> <td>6.</td> <td>Bonnet-Monkey</td> <td><i>Macaca Radiada</i></td> </tr> <tr> <td>7.</td> <td>Devangloris</td> <td><i>Slender Loris (Loris Lydekkerianus)</i></td> </tr> <tr> <td>8.</td> <td>Pangolin</td> <td><i>Manis crassicaudata</i></td> </tr> </tbody> </table>	Sn	Common Name	Zoological Name		Mammals		1.	Gaur	<i>Bos Gaurus.</i>	2.	Jungle Cat	<i>Felis Chaus</i>	3.	Mouse Deer	<i>Tragulus Meminna.</i>	4.	Spotted Deer	<i>Axis Axis.</i>	5.	Jackal	<i>Canis Aureus</i>	6.	Bonnet-Monkey	<i>Macaca Radiada</i>	7.	Devangloris	<i>Slender Loris (Loris Lydekkerianus)</i>	8.	Pangolin	<i>Manis crassicaudata</i>
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		9.	Palmcivet	<i>Paradoxurus hermaphrodites</i>
		10.	Porcupine	<i>Hyxtrix Indica</i>
			Birds	
		11.	Common Peafowl	<i>Pavo Cristatus</i>
		12.	Crested Serpent Eagle	<i>Spilansis Cheela</i>
		13.	Laggar Falcon	<i>Falco Biarmicusjugger</i>
		14.	Harriers Circus	<i>Circus Aerunginosus</i>
		15.	White Scavenger Vulture	<i>Neophron Percnopterus</i>
		16.	White Eyed Buzzard	<i>Butastur Teesa</i>
			Reptiles	
		17.	Python	<i>Python Molurus.</i>
		18.	Russel Viper	<i>Vipera (Daboia) russelli</i>
Wildlife Conservation Plan	Yes	Wildlife Conservation Plan along with the budgetary Provisions with timeline for implementation has been prepared and submitted to DFO, TN, Forest Department, Salem vide our Letter SL:MM:26150.A dated 9 th March 2023 and obtained acknowledgement.		

xiii. Green belt/plantation details:

Proposed area for green belt/plantation and no. of saplings proposed	13.2 Ha/ 19800 saplings
Budget for green plant & plantation till the end of life of mine.	Rs.13,50,000/-
Budget for nursery	Rs.2,00,000 per Annum
Details of existing plantation and its survival rate	67674 with Survival rate of 60-70% as on February 2024.
No. of tree cuts in the mine lease area and compensatory afforestation	N.A.

Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	15 Ha
50 m safety zone of nallah, roads, electric lines	1.5 Ha
500 m safety zones of nearest habitation villages	5 Ha

xiv. Baseline detail:

Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)	
Period of baseline data collection	December 1 st , 2020 to February 28 th 2021
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Winter Season
Predominant Wind direction (From)	From SW, S and SE
Ambient Air Quality (no. of locations) and results	6 locations PM10 – 39µg/m ³ to 60µg/m ³ PM2.5 – 19µg/m ³ to 33 µg/m ³ SOx – 4µg/m ³ to 13µg/m ³ NOx – 8µg/m ³ to 19µg/m ³
Noise level (no. of locations) and results	5 locations 40.8 to 46.2 dBA for the day time and 34.1 to 41.8 dBA for the Night time
Water Quality (no. of locations) and results	6 locations pH: 7.43-9.48, TDS – 334 mg/l to 906 mg/l Total Hardness: 190 mg/l to 280 mg/l Chlorides: 22 mg/l to 58 mg/l Heavy metals – Fe - 0 To 0.12 mg/l
Soil Quality (no. of locations) and results	6 locations pH – 7.46 to 8.64 moisture – 5.46% to 6.56% bulk density – 1.21g/cc to 1.47mg/l organic matter – 0.31% to 0.76% Water holding capacity – 47% to 56%
Hydro geological study and results	The detailed Hydro geological study is given in Page No 130(i) to 130(xxxviii) of Final EIA report (Volume I)
Traffic study (no. of locations) and results	<ul style="list-style-type: none"> Traffic study has been conducted at Single lane village hard road which passes into the lease area. Transportation of raw material, fuel &

<p>finished product will be done 80% by road.</p> <ul style="list-style-type: none"> Existing PCU is 68 PCU/day on Single lane village hard road and existing level of service (LOS) is: 				
Road	V (Volume In PCU/day)	C (Capacity In PCU/ day.)	Existing V/C Ratio	LOS
Single lane village hard road	68	2500	0.0272	2.72
<ul style="list-style-type: none"> PCU load after proposed project will be 68 (Existing) + 45(Additional) = 113 PCU/hr and level of service (LOS) will be: 				
Road	V (Volume In PCU/Day)	C (Capacity In PCU/ day)	Proposed V/C Ratio	LOS
Single lane village hard road	113	2500	0.0452	4.52
<p><i>*Note: Capacity as per IRC 73:1980 Guideline for Capacity for roads.</i></p> <p>Conclusion: The level of service will be 4.52 after including additional traffic due to proposed project.</p>				

xv. Public Hearing (PH) Details:

Advertisement for PH with date (name of major national daily and one regional vernacular daily newspaper)	01.08.2021
Date of PH	03.09.2021
Venue	Dalmia Old Colony Canteen Building. Opp. Wiegh Bridge. Chettichavadi Village, Salem West Taluk, Salem District, TAMIL NADU-636012.

Chaired by	Dist. Collector & District Environmental Engineer, TNPCBD.
Main issues raised during PH	Employment for the local villages.
Budget proposed for addressing issues raised during PH over 3 years	Rs.39.14 Lakhs.
Additional information (if any)	

xvi. Details of CTE/CTO, Certified Compliance Report, Certified Production Details from the inception of the mine:

Particulars	Details of Letter along with date of grant and validity
Consent to Establish	-
Consent to Operate	-
Certified Compliance Report and Inspection date	-
Certified Production Details from the inception of the mine (in tabular form against the EC capacity)	The Duly Authenticated Production Details from 1979-80 to 2018-19 as per the Certificate issued by Dept of Geology and Mining Salem vide letter ROC.45/2018/Mines-A dated 11.12.2018 is submitted in Final EIA/EMP Report, Table format of certified production against EC has been submitted as per standard format.

xvii. Rehabilitation & Resettlement (R&R):

R & R details	NA
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xviii. Court case details:

Court Case, No and its present status	<p>Detail of total 9 court cases are mentioned below:</p> <ol style="list-style-type: none"> 1. W.P.25518/2006 Madras HC 2. Writ Petition No.29275 of 2016 Madras HC 3. Writ Petition (Civil) No. 114 of 2014 of Supreme Court 4. District Collector, Salem has also raised another demand vide order dated 8th July, 2020 directing project proponent to pay sum of INR 7.24 Crore on the quantity of Magnesite mined without EC for the period 1st April, 2000 to 31st August, 2018. 5. District Collector"s demand of surface compensation of Rs.79,88,39,062 from 20.08.1966 till 31.10.2017.
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	<p>6. Show cause vide Proceeding Letter No.SLM0006/DEE/TNPBC/S LM/RL/2014, dated 03.06.2014 by Tamil Nadu State Pollution Control Board U/s 19 of Environment Protection Act.</p> <p>7. Show Cause vide Proceeding Letter No.FEF/TNPBC/SLM/F/006 /20 by Tamil Nadu State Pollution Control Board U/s 19 of Environment Protection Act dated 4th May, 2020.</p> <p>8. Show cause Notice dated 5thFebruary, 2013 under Water Act. Show cause Notice dated 5thFebruary, 2013 under Air Act.</p> <p>9. Environmental Activist Mr.S.Sakthivel filed a petition before the Hon^{ble} NGT (SZ) raising certain Environmental issues against 6 respondents.</p>
Undertaking by Project Proponent w.r.t court case.	Affidavit Sworn on 22.04.2023 in a non-judicial stamp of Rs 100 bearing No. CZ – 744433 dated 21.04.2023.

xviii. Affidavit/Undertaking details:

Affidavit as per Ministry's OM dated 30.05.2018.	Affidavit Sworn on 22.04.2023 in a non-judicial stamp of Rs 100 bearing No. CZ – 744433 dated 21.04.2023.
Undertaking by Project Proponent in EIA/EMP report	The Project Proponent has submitted an undertaking vide Ministry's OM dated 05.10.2021.
Undertaking by Consultant in EIA/EMP report	Undertaking by the Environment consultant has been submitted as per Ministry's OM dated 04.08.2009.
Plagiarism Certificate	

xix. Details of the Environmental Management Plan (EMP):

S.no.	Activities	Capital cost (INR)	Recurring cost (Lakhs/annum)
1	Safety kits for 320 persons @ Rs 1000 per head	Rs. 3,20,000	Rs.2,00,000
2	Water Sprinkling & Spraying	Rs.15,00,000	Rs.8,00,000
3	Afforestation for @ 75 per tree	Rs. 3,00,000	Rs.3,00,000
4	Noise & Vibration	--	Rs.2,50,000
5	Air Quality Monitoring and Water Testing	-	Rs.1,50,000
6	Drainage- Parapet -Retention Wall	Rs. 5,00,000	Rs.3,00,000

	Total	Rs 26.2 Lakhs	Rs.20.0 Lakhs
Summary of cost allocated for Remediation plan, NRAP, CRAP			
Sn	Description	Estimated cost (Rs.in Lakhs)	
1	Remediation Plan	Rs.162.50/-	
2	Natural Resources Augmentation Plan	Rs.236.00/-	
3	Community Resources Augmentation Plan	Rs.208.44/-	
	Sub-Total	Rs.606.94	
4	Budgetary provisions to implement the commitment based on Public Hearing	Rs.39.14/-	
	Total	Rs. 646.08/-	

xx. Details of project cost and employment:

Particulars	(Rs. In Crore)
Total cost of EMP (Capital Cost of EMP + capital cost of Public hearing)	0.653 crore (0.262 + 0.3914)
Project Cost	19.57 crore
Employment (No.s)	350 Persons.
	As per the Chapter 13 of Vol I of EIA Report.

3. Observation and Recommendation of the Committee:

The instant proposal is for Environmental Clearance under violation category. The proposal was earlier considered in the EAC meeting wherein the Committee asked the Project Proponent to submit the proof of payment of Rs. 18.69 crore as per Department of Geology and Mining, Guindy letter dated 09.12.2022. The Project Proponent informed the EAC that they have contested against the demand raised by Department of Geology and Mining before Hon'ble High Court of Madras in W.A. Nos. 834 of 2020 (w.r.t to Rs. 11.44 Crore demand) and W.P. Nos. 32057 of 2023 (w.r.t to Rs. 7.24 Crore demand). PP also informed the EAC that Hon'ble Madras High Court vide order dated 15.02.2024 had construed the impugned orders/memos imposing 100% penalty/cost upon the appellants/petitioners as show-cause notices. The Hon'ble Court further directed the Project Proponent to file its reply on the above said show-cause notices within a period of four weeks.

In view the above submissions made by the PP, the EAC **deferred** the proposal and asked the Project Proponent to submit the following additional details

- i. PP needs to submit the copy of the reply of the show cause notice that it submitted to Department of Mines and Geology.
- ii. PP needs to submit the present status report in the matter from DMG, Tamil Nadu.

- iii. PP needs to submit the chronology of existing court cases along with the replies filed by it and the state authorities.

1.2 Expansion of Sanu-I Limestone Mining Project with enhancement in production capacity from 3.3 to 3.848 MTPA (less than 20%) in second phase which includes keeping ROM SMS grade Limestone resource- 3.3 MTPA same (SMS Grade Limestone-1.50 MTPA) & recovery of mineral from Handling of old backfilled limestone size reject dumps (0-30 mm size) - 0.548 MTPA along with Crushing (1X300 TPH, 1X250 TPH, 1X200 TPH, 1X150 TPH), Screening plant (2X300TPH, 2X250TPH, 2X200TPH) In the ML area of 1000 ha (ML No. 27/1996) by M/s Rajasthan State Mines and Minerals Limited located near Village Sanu, Sub Tehsil Ramgarh, Tehsil Sam (Old Tehsil Jaisalmer), District Jaisalmer, Rajasthan – For Environmental Clearance under OM dated 11.04.2022 (Stage-II expansion) reg [Online Proposal No. IA/RJ/MIN/458597/2024, File No. J-11015/42/2006-IA. II (M)]EIA Consultant: Fulgro Environmental & Engineering Services India Pvt. Ltd.

The instant proposal is for expansion of Sanu-I Limestone Mining Project with enhancement in production capacity from 3.3 to 3.848 MTPA (less than 20%) in second phase which includes keeping ROM SMS grade Limestone resource- 3.3 MTPA same (SMS Grade Limestone-1.50 MTPA) & recovery of mineral from Handling of old backfilled limestone size reject dumps (0-30 mm size) - 0.548 MTPA along with Crushing (1X300 TPH, 1X250 TPH, 1X200 TPH, 1X150 TPH), Screening plant (2X300TPH, 2X250TPH, 2X200TPH) In the ML area of 1000 ha (ML No. 27/1996) by M/s Rajasthan State Mines and Minerals Limited located near Village Sanu, Sub Tehsil Ramgarh, Tehsil Sam (Old Tehsil Jaisalmer), District Jaisalmer, Rajasthan.

2. The details of the project as ascertained from the document submitted by the Project Proponent and revealed from the discussions held during the meeting are given as under:

- i. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" of the schedule of the EIA Notification, 2006 and appraised at the Central level.
- ii. The mine lease area is located between Latitude 27°19'39.37"N to 27°19'40.13"N & 27°16'43.77"N to 27°16'44.53"N and Longitude 70°33'47.35"E to 70°33'49.81"E & 70°34'54.62"E to 70°34'57.11"E. The mine lease area falls under the Survey of India Toposheet No: 40 I/11 and falls in Seismic Zone-III.
- iii. Earlier, the Project Proponent obtained following Environmental Clearance as tabulated below:

S.No.	Details of EC obtained in the favour of M/s Rajasthan State Mines & Minerals Ltd. (RSMML)	Letter No. & Date
1.	Environment Clearance over an area of 1000 ha for 1.25 MTPA of Steel Grade Limestone.	Vide letter no. J-11015/42/2006-IA. II

		(M) dated 03.08.2007
2.	Amendment in EC for enhancement in life of mine from 31.03.2016 at maximum annual production capacity of 12.5 LTPA as in the IBM approved Mining Plan/Scheme of Mines, the balance estimated reserves has been enhanced based on the additional exploration during scheme of mining (SOM) period & resulted the mineral reserves of probable/possible category falling under proved category.	Vide letter no. J-11015/42/2006-IA. II (M) (Pt.) dated 22.03.2017.
3.	Further obtained Amendment in EC for enhancement in the production capacity of SMS Grade Limestone from 1.25 MTPA to 1.50 MTPA along with ROM handling of Limestone from 2.799 MTPA to 3.30 MTPA.	Vide Letter no. F. No. J-11015/42/2006-IA. II (M) dated 23.06.2021.

iv. Details of Mine Lease in chronological manner:

Grant	From	To	Lease deed execution date	Lease registration date
Initial Grant (30 Years)	01/04/1997	31/03/2027	22/07/2010	30/07/2010
Extension	From	To	Renewal date	
1st (Deemed renewal from the initial grant)	01/04/1997	31/03/2047	15/11/2018	

v. Land Use/Land Cover of the Mine Lease Area:

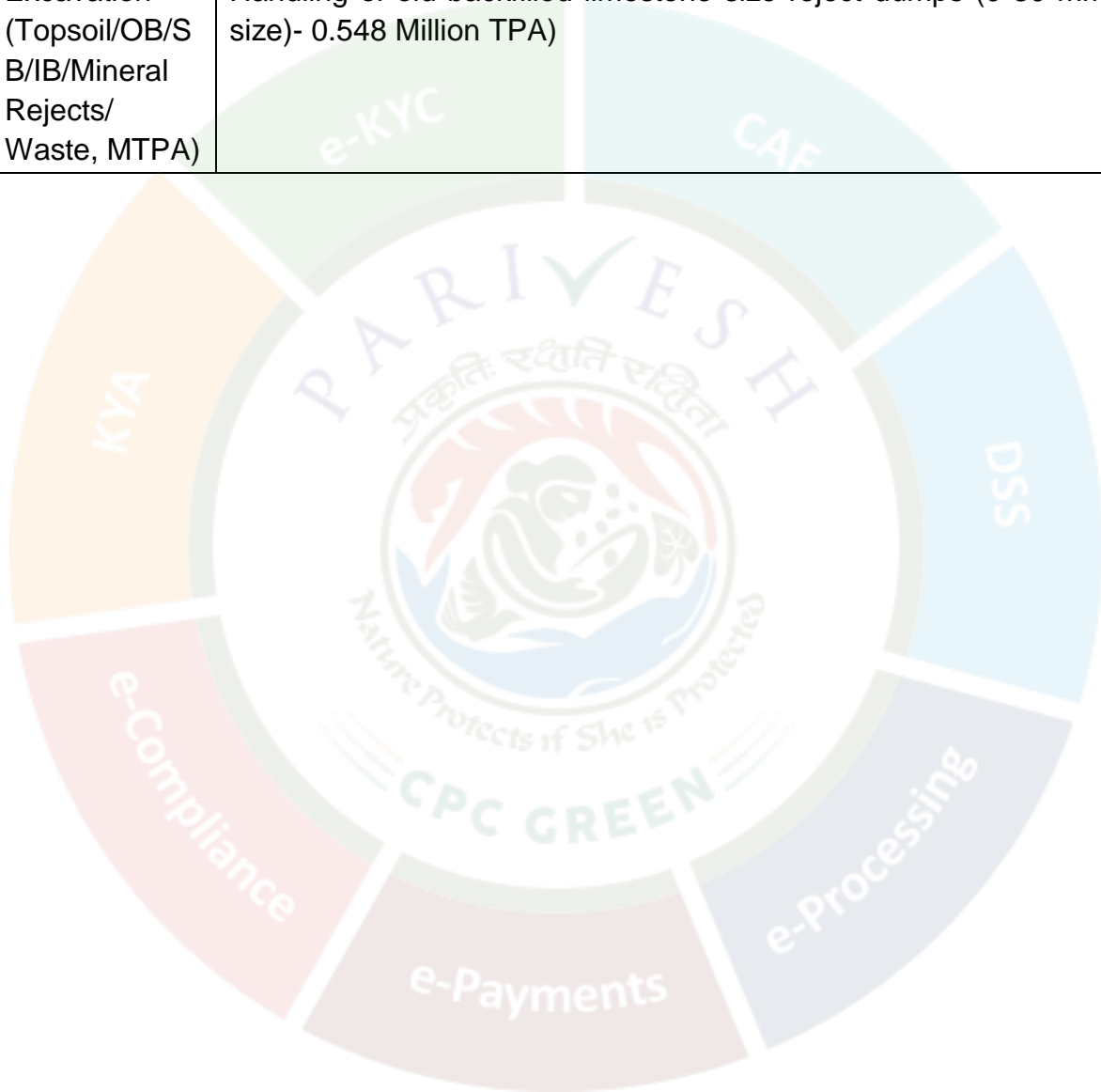
Private land	ML Area: 1000 Ha.
Government land	
Forest land	0 Ha.
Total Mining lease area (MLA), ha	1000 Ha.
Private land for crusher, workshop & other infrastructure outside the MLA	NA

vi. Mining plan details

Mining Plan including Progressive Mine Closure Plan (approved by	Letter No.	MCDR-MPCOLST/2/2023-AJM-IBM_RO_AJM
	Date	09/06/2023
	Mineral & (Major/Minor)	Limestone (Steel Grade & Cement Grade) and Major
	Mine Lease Area, Ha	1000 Ha.

Indian Bureau of Mines/DMG)	Validity	2026-27				
Additional information (if any)	Approval of Earlier Mining Plan & Its Subsequent Review In Chronological Order					
	S. No.	Letter Number	Date	Period		Type of Approved Document
				From	To	
	1	326/108/ZN-28/90-MCCM(NZ)	14/06/1991	01/04/1991	31/03/1996	Mining plan
	2	584(6)(3)(15)/96 RCMAJM	20/08/1997	01/04/1996	31/03/2001	Scheme of Mining
	3	584(6)(3)(94)/2001RCM-AJM	04/02/2002	01/04/2001	31/03/2006	Scheme of Mining
	4	584(6)(3) (94-PMCP/2004-AJM	28/01/2005	01/04/2004	31/03/2006	Scheme of Mining
	5	584(6)(3) MS-259/2006AJM	09/09/2006	01/04/2006	31/03/2012	Scheme of Mining
	6	584(6)(3) (391)/2011-RCOM-AJM	13/06/2012	01/04/2012	31/03/2017	Scheme of Mining
	7	584(6)(3) (1667)/2016-RCM-AJM	16/12/2016	01/04/2017	31/03/2022	Review Of Mining Plan
8	584(6)(3) (1763)/2018-RCM-AJM	14/12/2018	01/04/2018	31/03/2022	Modification Of Mining Plan	
9	584(4)(3) (1899)/2021-22RCM-AJM	29/03/2022	01/04/2022	31/03/2027	Review Of Mining Plan	
Mining Parameters	Quantitative Description					
Method of Mining	Open cast Mechanized					

Drilling/Blasting	Drilling/Blasting
Geological Reserves	392.47 MT (Million Tonne)
Mineable Reserves	16.35 MT (Million Tonne)
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/Waste, MTPA)	Total Material handling 3.848 Million TPA (ROM SMS grade Limestone resource- 3.3 Million TPA recovery of mineral from Handling of old backfilled limestone size reject dumps (0-30 mm size)- 0.548 Million TPA)



S. No.		Product	Capacity mentioned in the EC dated 3rd Aug 2007 & 23rd June 2021	Existing Capacity as per EC (MILLION TPA) dated 3rd Aug 2007 & 23rd June 2021	Proposed Capacity (MILLION TPA)	Remark/End use
1		SMS Grade Limestone (30 to 80 mm particle size) as per EC granted by MoEF & CC vide letter no. J-11015/42/2006-IA.II (M) dated 3rd August 2007	1.25	1.50	1.50	End use: Steel industries
2	2a	Mineral Size Reject (10 mm-30 mm)	1.559	1.8	1.8	End use: cement, power & other industries

	2b	Screen Reject Limestone less than 10 mm particle size)				End use: Market is yet to be established.
	3 (1+2)	ROM (Limestone Resources)	2.799	3.30	3.3	
Note: As per amended EC granted by MoEF & CC vide F. No. J-11015/42/2006-IA. II (M) dated 23rd June 2021						
4	4.1	Size mineral rejects (10-30 mm size)	0	0	0.3288	End use: cement, steel, power plants & other industries
	4.2	Reject (0-10 mm Size)	0	0	0.2192	End use: backfilled or dispatch subject to Market demand
	4.0(4.1+4.2)	Handling of old backfilled limestone size reject dumps (0-30 mm size)	0	0	0.548	End use: cement, steel, power plants & other industries
	5(3+4)	Total Material Handling (MILLION TPA)	2.799	3.30	3.848	In first phase Expansion in ROM- 17.89 % In Second Phase Proposed

						Expansion is 37.47 % from First phase initial EC grant as per EIA notification,2006
CRUSHING AND SCREENING PLANT						
			Existing	Proposed	Total	
6	Crushing unit		1X300,1X250,1X200,1X150	NIL	1X300,1X250,1X200,1X150	
7	Screening unit		1X250 TPH, 1X250 TPH, 1X200 TPH, 1X200 TPH	1X300 TPH, 1X300 TPH, 1X300 TPH, 1X300 TPH	1X250 TPH, 1X250 TPH, 1X200 TPH, 1X200 TPH, 1X300 TPH, 1X300 TPH	
Life of mine	6 Years					
Mine Bench Height & Bench Width	Bench Height: 5 m Bench Width: 80-120 m					
No. of Mine Benches	7					
Existing Depth, m bgl	Pit No.	Pit ID	Pit Status	Area Covered by Pit (Ha)	Depth	
	1	North	Active	123.98	4.50 m	
	2	South	Active	501.72	5.00 m	
Ultimate Depth of Mining, m bgl	5 m bgl					
Ground Water Table, m bgl	70 m bgl					
Details of ground water intersection	Ground water table will not be intersected					
Individual bench slope	70°					
Overall pit slope	45°					
Details of existing/proposed Crusher	Existing Primary and Secondary Jaw Crushers having capacity 1X300,1X250,1X200,1X150 TPH					

Mineral Beneficiation	No
RoM output size	Mine Material handling capacity from 3.3 million TPA to 3.848 million TPA (Less than 20 %) in second phase which includes keeping ROM SMS grade Limestone resource- 3.3 million TPA same (SMS Grade Limestone-1.50 MTPA) & recovery of mineral from Handling of old backfilled limestone size reject dumps (0-30 mm size)- 0.548 Million TPA
Transportation details including capacity of dumper/tipper, mode of transport and distance	Via roads/railways and Capacity of dumpers/Tippers-25 Tones
Generation of Topsoil/OB & its Management during plan period & conceptual period	There is no top soil generation/OB generation envisaged from the proposed mines
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	Mineral Reject generation of Size less than 10 mm & as per market specifications possibility is to explore the same for market use and selling of -10mm mineral sized rejects with the objective to zero waste mining as per National Mineral Policy 2019 to Conserve National Resources as much as possible.

vii. Water requirement:

Total water requirement	55	Fresh water	55
		Treated water	0
Source	Water demand is being met available through IGNP Canal		
Permission for withdrawal/ intersection along with details of grant and its validity	Permission obtained from IGNP dated 06/02/2007 for 120 KLD for Sanu-I and Sanu-II mining project.		

viii. Nearest village/town/ highway/interstate boundary/railway station/water bodies/monument/ forest

Particulars	Particular's Name	Distance & Directions
Village	Joga village	~ 5.32 Km towards NNE direction from mining lease area.
Town	Ramgarh (Nearest Town)	~8.67 Km towards NW direction from mining lease area.
Highway	NH-68	~ Passing through the mine lease area at about 0.90 Km towards South direction from the Pillar W of the M.L area.
Interstate Boundary	None in 10 KM Radius	--
Railway Station/Railway line	Sanu Railway station	~ 7.09 Km towards ESE direction from mining lease area.
Water Bodies	Sanwra Desar Talab	~1.37 Km towards SE direction from the mine lease area
Forest	None in 10 KM Radius	--

ix. Presence of Environmentally Sensitive areas in the study area:

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks
Forest Land within the mine lease area and (if yes) status of Forest Clearance	No	Letter obtained from office of the Dy. Conservator of Forest, Wildlife, Jaisalmer vide letter no. F()Misc./DCFWLJSM/2023-24/3155 dated on 29.08.2023 stating that Mine site is about 45 km away from the boundary of Desert National Park Wildlife Sanctuary and about 1.45 Km away from the Great Indian Bustard Priority Area and lying within the Great Indian Bustard Potential Area
National Park	No	
Wildlife Sanctuary	No	
Elephant/Tiger Reserve	No	
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area (ESA)	No	-----
Coastal Regulation Zone (CRZ)	No	-----
Schedule-I species (No.s and name of schedule-I species)	No	No Schedule I species were observed during primary survey. Further, the Authenticated List of Flora & Fauna issued vide letter no. F () DCF/Technical/2022-23/4863 by DCF,

with authenticated letter)		Jaisalmer dated on 04.09.2023 shows presence of three Schedule I species namely: The Indian Porcupine (<i>Hystrix leucura</i>), Rat snake (<i>Ptyas mucosa</i>), Tawny Eagle (<i>Aquila rapax</i>)
Wildlife Conservation Plan	.....	Under Departmental Process

x. Green belt/plantation details:

Proposed area for green belt/plantation and no. of saplings proposed	Year		Un-worked Area		Additional plantation to be carried out (Assuming survival rate to be 70%)		Net plantation to be carried out (Along with replacement of non-surviving Plants)		Backfilled Area		Total	
	Existing	Un-worked Area	Area (Ha)	No. of Trees	No. of Trees	No. of Trees	Area (Ha)	No. of Trees	Area (Ha)	No. of Trees		
		Both sides of NH passing through the mine	3.78	3780	--	--						
	1 st (2023-24)	*2.22	18401	--	18401							18401

	2 nd (2024-25)	--	18401	5520	23921	Maintenance to be done			23921
	3 rd (2025-26)	--	18401	7176	25577				25577
	4 th (2026-27)	--	18402	7673	26074				26074
	5 th	--	--	7822	7822			--	7822
	6 th	--	--	--	--			--	--
	End of Life of Mine	--	--	--	--	559.22	Re-grassing	--	--
	Total	47.59	1,18,975	22671	96275	872.72	Re-grassing	47.59	1,47,165
Budget for green plant & plantation till the end of life of mine.	Rs. 5.21 lacs (Recurring Cost)								
Budget for nursery	--								
Details of existing plantation and its survival rate	Discussed in the above section								
No. of tree cuts in the mine lease area and compensatory afforestation	.....							
Particulars for	Area covered (in Ha)								

Green belt/plantation	
7.5 m barrier & non-mineralized zone	43.81 Ha. (Green Belt/Plantation (Undisturbed Area) & 3.78 Ha. (Plantation along both sides of NH passing through the mine).
50 m safety zone of nallah, roads, electric lines	
500 m safety zones of nearest habitation villages	.....

xi. Baseline detail:

Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)	
Period of baseline data collection	March-May 2023
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Summer
Predominant Wind direction (From)	SW
Ambient Air Quality (no. of locations) and results	8
Noise level (no. of locations) and results	7
Water Quality (no. of locations) and results	Surface-3, Ground water-2 Nos
Soil Quality (no. of locations) and results	7
Hydro geological study and results	Discussed in the chapter 3 of the EIA/EMP Report.
Traffic study (no. of locations) and results	Mining activity would deploy 25 T/Truck and 144 trips/day, or PCU/day will be 432. Thus, incremental increase in traffic will be 50%. There will be no much impact on local transport of mineral from mine site via roadways and railways.

	The LOS value for the NH-68 will be “Excellent” after post mining. So, the additional load on the carrying capacity of the concerned roads is not likely to have any significant adverse effect
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xii. Public Hearing (PH) Details:

Advertisement for PH with date (name of major national daily and one regional vernacular daily newspaper)	As per EIA Notification, dated 14 th September, 2006 and its subsequent amendments till date the said project falls under Category “A” and accordingly, Environmental Clearance (EC) for mining activity is required under <u>para 7 (ii)a of EIA Notification, 2006</u> (for Expansion or Modernization or Change of product mix in existing projects). Earlier in Phase I enhancement in the production capacity of SMS Grade Limestone from 1.25 MTPA to 1.50 MTPA (20 %increase) along with ROM Handling of limestone from 2.799 MTPA to 3.30 MTPA (17.89% increase) at operating Sanu-I Limestone Mine. Further, this EIA/EMP report is being prepared for Phase 2: 2.799 MTPA to 3.848 MTPA (37.47 % increase) expansion(<40% i.e., 37.47 % in phase 1 and phase 2) in line to MoEF & CC OM vide No. IA3-22/10/2022-IA.III [E 177258] dated 11 th April 2022 and subsequent OM vide No. IA3-22/10/2022-IA.III [E 177258] dated 30 th May 2022, para 5 Table Scenario III : “Up to 40 percent based on successful compliance of previous environmental safeguard conditions related to expansion of 20 percent” clearly stating that there is requirement of revised EIA/EMP report and Certified EC Compliance report however there is no requirement of fresh public consultation
Date of PH	
Venue	
Chaired by	
Main issues raised during PH	
Budget proposed for addressing issues raised during PH over 3 years	
Additional information (if any)	

xiii. Details of CTE/CTO, Certified Compliance Report, and Certified Production Details from the inception of the mine:

Particulars	Details of Letter along with date of grant and validity
Consent to	F(Mines)/Jaisalmer(Jaisalmer)/1958(1)/2016-2017/1150-1154 dated 07/07/2021 valid till 31/07/2024

Establishment					
Consent to Operate	(Mines)/Jaisalmer (Jaisalmer)/1958(1)/2016-2017/1155-1159 dated 07/07/2021 valid till 31/07/2024				
Certified Compliance Report and Inspection date	PP submitted the Certified Compliance Report (CCR) dated 24.10.2023. As per the CCR, the inspection was carried out on 19.07.2023.				
Certified Production Details from the inception of the mine (in tabular form against the EC capacity)	Certified Production figure along with EC Capacity				
	Year	Production in Tonnes			Description
		ROM Production	30 mm – 80 mm Size	10 mm – 30 mm size	
		A+B	A	B	
	1987-88	60067.400	60067.400	--	Issued via ME, Mines and Geology Department Jaisalmer vide letter no. ME/Jaisal/Sankhya/2015/1206 dated on 19.01.2015 <i>*Note: Addition of A & B, however not given in the certificate.</i>
	1988-89	200146.500	200146.500	--	
	1989-90	242104.100	242104.100	--	
	1990-91	465238.400	465238.400	--	
	1991-92	592140.500	592140.500	--	
	1992-93	599784.500	599784.500	--	
	1993-94	441619.400	441619.400	--	
	1994-95	333412.600	333412.600	--	
	1995-96	529663.800	529663.800	--	
	1996-97	658961.300	596235.100	62726.200	
1997-98	1452000.000	574674.16	877325.84	Issued via ME, Mines and Geology Department Jaisalmer vide letter no.	
1998-99	1282000.000	511977.52	770022.48		

1999-00	1121000.00	448558.70	672441.30	ME/Jaisal/Sankhya/2015/782 dated on 14.03.2016
2000-01	1473000.00	589564.25	883435.75	
2001-02	1492000.00	597430.35	894569.65	
2002-03	1269000.00	580514.93	688485.07	
2003-04	1863000.00	592468.00	1270532.00	
2004-05	1797242.00	598637.00	1198605.00	
2005-06	1549313.00	589994.00	959319.00	
2006-07	1798470.00	868352.87	930117.13	
2007-08	1625515.00	778920.76	846594.24	
2008-09	1979170.00	881299.61	1097870.39	
2009-10	1754319.00	813005.48	941313.52	
2010-11	1669513.00	746978.04	922534.96	
2011-12	2636900.00	1210126.40	1426773.60	
2012-13	2027344.00	926496.33	1100847.67	
2013-14	1881815.00	868927.82	1012887.18	
2014-15	2137593.00	972054.37	1165538.63	
2015-16	1936097.00	903958.03	1032138.97	
2016-17	2084683.00	969311.10	323493.75	Issued via ME, Mines and Geology Department Jaisalmer vide letter no. ME/Jaisal/Sankhya/2019/994 dated on 15.03.2019

Year	ROM Production	>30 mm – 80 mm Size Gitty	<30 mm size Gitty	Backfilled mined out pit	Description
2017-18	2685196	1230412.60	401480.67	1053302.73	Issued via ME, Mines and Geology Department Jaisalmer vide letter no. ME/Jaisal/Sankhya/2023/1285 dated on 18.07.2023
2018-19	2725921	1249981.20	291951.70	1183988.1	
2019-20	2631526	1189789.30	279181.98	1162554.72	
2020-21	2099686	0949911.76	219908.71	929865.53	
2021-22	3109865	1425595.51	407491.76	1276777.73	
2022-23	3026902	1389528.49	552355.35	1085018.16	

xiv. Rehabilitation & Resettlement (R&R):

R & R details	No R & R study involved as this is an existing mining project also no settlements are present in the mine lease area that requires R & R.
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xv. Court case details:

Court Case, No and its present status	No Court Case is pending
Undertaking by Project Proponent w.r.t court case	Undertaking is enclosed along with the EIA/EMP Report.

xvi. Affidavit/Undertaking details:

Affidavit as per Ministry's OM dated 30.05.2018	Project Proponent has submitted an Affidavit along with the EIA/EMP Report.
Undertaking by Project Proponent in EIA/EMP report	Project Proponent has submitted an Undertaking along with the EIA/EMP Report.
Undertaking by Consultant in EIA/EMP report	Undertaking by Consultant has been submitted along with the EIA/EMP Report.
Plagiarism Certificate	Plagiarism Certificate has been submitted along with the EIA/EMP Report.

xvii. Details of the Environmental Management Plan (EMP):

S. No.	Activity	Budget Allocation in Lacs. (Capital)	Budget Allocation in Lacs. (Recurring)
1	Environmental Monitoring Cost		
	a. Water Quality analysis	--	0.50
b. Air	Air pollution monitoring	--	1.00
	❖ Installation of online continuous Ambient Air Quality Monitoring Stations for monitoring of air pollution attributes PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ & CO	20.0	1.00
	ii Control of fugitive emission during loading and unloading, transportation/water sprinkling measures.	--	10.00
	iii Air Pollution Control Devices installation at the material transfer points at crusher plant (Fogging System, Bag Filters)	--	5.00
	iii Greenbelt/Plantation	--	5.21
	c. Noise pollution Monitoring	--	0.40
2.	Construction of Water conservation and management structure	3.00	0.70
3.	Drip Irrigation	3.00	1.00
4.	Blasting related safeguard expenses	--	0.50
5.	Waste Management (Municipal Waste)	--	0.15
6.	Fencing around mine pit to prevent loss of wildlife and human movement	78.71	0.20
7.	OHS/Surveillances	2.00	2.00
8.	Rehabilitation of mined out backfilled area (re-grassing)	8.72	1.00
	Total	115.43	28.66

xvii. Details of project cost and employment:

Particulars	(Rs. In Crore)		
Total cost of EMP (Capital Cost of EMP + capital cost of Public hearing)	Sr. No.	Particulars	Capital Expenditure (In Crores)
	1	Existing project cost	Rs. 12.00 Crores

	2	Project cost for expansion	Rs. 25.52 Crores		
	3	Environment Management Plan	Existing	Proposed	
			Recurring (Rs Lacs)	Capital (Rs Lacs)	Recurring (Rs Lacs)
			20	115.43	28.66
	Total		Rs. 37.52 Crore		
Project Cost		Rs. 37.52 Crore			
Employment (No.s)		112			

xviii. The point-wise compliance in the following table as per the Ministry's OM dated 11.04.2022 under para 7(ii)(a) of EIA Notification, 2006, for expansion up to 50%, within the existing premises/ mine lease area, without additional land acquisition. The OM is applicable subject to fulfilment of following criteria:

Sr. No	Condition as per OM	Compliance of condition
1.	The project should have gone through the public hearing process, at least once, for its existing EC capacity on which expansion is being sought, except those category of projects which have been exempted as per para 7 III (i) of EIA Notification 2006 and its amendments.	Public hearing of the project held on 07.07.2005 for an annual production capacity of 12.50 Lakh tonnes (1.25 million tonnes) of steel grade limestone.
2.	There should not be change in Category of the project from 'B2' to 'B1' or 'A' due to proposed modernisation or expansion	There is no change in the category of the project.
3.	There is no additional land acquisition or forest land diversion involved for the proposed expansion or there is no increase in lease area with regard to mining vis-à-vis the area mentioned in the EC, based on which public hearing has been held earlier.	No Change in the Project Area.
4.	The proposed expansion shall not be more than 50% of production capacity as mentioned in the prior EC, issued on the basis of public hearing held and the same shall be allowed in minimum three phases.	Proposed expansion is not more than 50% of production capacity.
5.	Predicted environmental quality parameters arising out of proposed expansion/modernization shall be within the prescribed norms and the	Baseline Monitoring and data have been collected during the Month of month

	same shall be maintained as per prescribed norms.	March to May 2023 in summer season.
6.	The proposed expansion should not result in reduction in the greenbelt area as stipulated in the earlier EC, or if the existing ratio of greenbelt is more than 33%, after expansion it should not reduce below 33%.	PP has proposed additional plantation apart from the 33% of ML area.
7.	The project proponent should have satisfactorily complied the conditions stipulated in the existing EC(s) and satisfactorily fulfilled all the commitments made during the earlier public hearing/consultation proceedings and also the commitments given while granting previous expansion, as may be applicable. This shall be duly recorded in the certified compliance report issued by the IRO/CPCB/SPCB, which should not be more than one year old at the time of submission of application	PP has submitted the certified compliance report vide dated 24.10.2023. Site inspection date has not been submitted by the PP.
8.	Public Consultation shall be undertaken [if applicable as per table below] by obtaining response in writing, as per para 7 III (ii) (b) of EIA Notification 2006, except those category of projects which have been exempted as per para 7 III (i) of EIA Notification 2006 and its amendments.	Not applicable.
9.	Effluent monitoring including air quality monitoring systems as specified in the existing EC, if stipulated, should have been installed.	No data available.

3. Observation and Recommendation of EAC:

The EAC, after deliberations observed that instant project is for expansion and PP has applied under OM dated 11.04.2022 for enhancement upto 37.87% (Stage-2) capacity expansion under para 7(ii) of EIA Notification, 2006. The EAC observed that the PP has not complied to all of the points of mentioned in the Ministry's OM dated 11.04.2022 issued under para 7(ii)(a) of EIA Notification, 2006, for expansion up to 50%. EAC further noted that the PP is having the permission to mine 1.5 MTPA SMS grade limestone with ROM handling capacity of 3.3 MTPA.

The PP has collected the Baseline data for the period from March to May, 2023 and observed that the Ambient Air Quality, Water Quality, Soil Quality and Noise Level are within the permissible limits.

Further, the Committee observed that the PP has not complied the condition with regard to the plantation of trees within mine lease area, the EAC opined that the existing ratio of greenbelt should be more than 33% of the Mine Lease area. EAC also noted that PP has not installed any Continuous air quality monitoring system within the ML area. The EAC also emphasised that PP should increase the activity-wise budget for EMP, Public Hearing and their recurring cost. Based on aforesaid discussion, the EAC **deferred** the proposal for the submission of following information:

- i. The PP needs to submit the point wise compliance of Ministry's OM dated 11.04.2022 under para 7(ii)(a) of EIA Notification, 2006, for expansion up to 50%, within the existing premises/ mine lease area, without additional land acquisition.
- ii. PP needs to submit a study showing the impact of mine operation upon the existing boundary of Desert National Park /Wildlife Sanctuary and upon the Great Indian Bustard Potential Area which is about 1.45 Km away from the Mine lease boundary.
- iii. The PP needs to submit the authenticated mineable Limestone reserve and total Limestone reserve available within ML area from Director of Mines and Geology.
- iv. The PP needs to submit DMG authenticated past production since the commencement of mining operations.
- v. The PP needs to submit an undertaking for not exceeding the past production w.r.t. the EC capacity.
- vi. The PP needs to create a nursery of native plant species in 5 ha land within the mine lease area (with not less than 1 lakh of sapling capacity). The nursery should be ready within three months.
- vii. The PP needs to submit the status of wildlife conservation plan prepared as per the Wildlife amendment act, 2022.
- viii. The PP needs to submit the detail action plan related to the budget already spent and to be spent with regard to activities covered under EMP and as part of CSR.
- ix. The PP needs to submit the recorded Drone video of the Mine lease area covering Mine pit, OB dump and Plantation area.
- x. The PP needs to undertake a carrying capacity study in order to findout the impact on the National Highway-68.

1.3 Gujarda, Dudheri & Dudhala Limestone Mine for production capacity of 2.7 MTPA in the mine lease area of 681.62 ha by M/s Nirma Limited located at Villages Gujarda, Dudheri & Dudhala, Tehsil Mahuva, District Bhavnagar (Gujarat) - Reconsideration for Environmental Clearance (EC) reg[Online Proposal No. IA/GJ/MIN/443968/2023, F. No. J-11015/153/2016-IA.II(M)][EIA Consultant - M/s Centre for Envotech and Management Consultancy Pvt. Ltd]

The proposal is for Environmental Clearance for Gujarda, Dudheri & Dudhala Limestone Mine for production capacity of 2.7 MTPA in the mine lease area of 681.62 ha by M/s Nirma Limited located at Villages Gujarda, Dudheri & Dudhala, Tehsil Mahuva, District Bhavnagar (Gujarat).

2. The details of the project as ascertained from the document submitted by the Project Proponent and revealed from the discussions held during the meeting are given as under:

- i. The mine lease area is located between Latitude 21°01'1.31"N to 21°03' 44.86" N and Longitude 71°41'15.21"E to 71°43'38.54"E. The mine lease area falls under the Survey of India Toposheet No: F42R12 and falls in Seismic Zone-III.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.
- iii. The Project Proponent has obtained the ToR for mining of Limestone in Gujarda, Dudheri & Dudhala Limestone Mine of M/s Nirma Limited vide letter no. J-11015/153/2016-IA.II(M) dated 06.02.2023.
- iv. Details of Mine Lease in chronological manner:

S.no	Prospecting License/ Letter of Intent (Lol)/ Grant of Mine lease and Lr No	Date of the grant	Name of the Mineral & (Major/ Minor)	Period of Grant	Granted by	Mine lease area in Ha
1	MCR-102004-1943-CHH	15.02.2008	Limestone	30 years	IMD, Government of Gujarat	1497.4701
2	MCR-102004-1943-CHH	02.02.2011	Limestone	30 years	IMD, Government of Gujarat	1489.4701
3	MCR-102004-1943-CHH	08.01.2017	Limestone	50 years	IMD, Government of Gujarat	681.62

S. No	Details of grant of Mine Lease deed execution	Period of Grant		Name of the Mineral	Mine lease area in Ha
		From	To		
1	MCR-102004-1943-CHH	11.01.2017	10.01.2067	Limestone	681.62

v. Land Use/Land Cover of the Mine Lease Area:

Private land	565.9454
Government land	115.6746
Forest land	-
Total Mining lease area (MLA), ha	681.62
Private land for crusher, workshop & other infrastructure outside the MLA	No facilities outside the ML area. However crusher will be installed at company's Cement Plant.

vi. Mining plan details:

Mining Plan including Progressive Mine Closure Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	File No.: 684(4)(1)/MP-348(197)/2021-22 GNR/1121
	Date	04.08.2021
	Mineral & (Major/Minor)	Major
	Mine Lease Area, Ha	681.62
	Validity	31.03.2026
Mining Parameters	Quantitative Description	
Method of Mining	Opencast mechanized	
Drilling/Blasting	Multi-row drilling and V-pattern drill holes for deep hole drilling and blasting. Slurry explosive -cap sensitive and non-cap sensitive.	
Geological Reserves	57.280 Million tonne	
Mineable Reserves	20.574million tonne	
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/Waste, MTPA)	Top soil- 0.57 mi.cum OB/SB/IB/Mineral Rejects- Nil Waste- Nil	
Life of mine	11 years (Life of mine may be increased subject to conversions of resources under 333 category into category of reserves 111)	
Mine Bench Height & Bench Width	6.0 m, for working bench 12-15 m for closing (conceptual) bench Optimum	
No. of Mine Benches	2	
Existing Depth, m bgl	New mine	
Ultimate Depth of Mining, m bgl	10 m	
Ground Water Table, m bgl	15.5 m (Post monsoon)	
Details of ground water intersection	No ground water will be encountered during planning stage i.e. in working plan in neither pre monsoon nor post monsoon season in any of the pits. Ground water will also not intersect during mining at the end of mine life.	

Individual bench slope	80-85°
Overall pit slope	~ 45°
Details of existing/ proposed Crusher	Proposed crusher will be installed at Cement Plant.
Mineral Beneficiation	-
RoM output size	-
Transportation details including capacity of dumper/tipper, mode of transport and distance	Internal haul road from mine face to crusher and by conveyor from crusher to the Cement plant adjacent to the mine lease. For the Soda Ash Plant located at approx.100 km at Kalatalav, Bhavnagar limestone will be transported in dumpers/ trucks through National Highway 51. Internal haul road from mine face to crusher means of dumper/tippers of 25 tonnes capacity.
Generation of Topsoil/OB & its Management during plan period & conceptual period	Top soil at plan period- 249806 cu.m, temporary stacking at one location Top soil at conceptual period-321394 cu.m, simultaneously backfilling
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	Nil
Additional information(if any)	Surface miner as well as ripper/dozer & rock breaker will be used for mining to minimize drilling & blasting.

vii. Water requirement:

Total water requirement	44 KLD	Fresh water	3 KLD
		Treated water	41 KLD
Source	Fresh water source Narmada water pipeline/Water tanker. Water harvested within mine lease during rainy season. Treated water source- Reject water of RO /DM plant &Reject water of RO /DM plant (proposed at Cement plant)		
Permission for withdrawal/ intersection along with details of grant and its validity	Permission for water withdrawal from Narmada water pipeline has been taken vide letter No. GWIL/Bhavnagar/Ind.conn./1257 dated 4.06.2008.		
Additional information (if any)	-		

viii. Nearest village/town/ highway/interstate boundary/railway station/water bodies/monument/ forest

Particulars	Particular's Name	Distance & Directions
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Village	Gujarda, Dudheri, Dudhala Madhiya Padhiarka	0.2-0.5 km 0.5 km, NW 0.5 km, W
Town	Mahuva	4.0km, NE
Highway	NH-51 (Una-Mahuva highway)	Within
Interstate Boundary	Rajasthan	Approx.500 KM,N
Railway Station/Railway line	Amrutvel	2.0km, N
Water Bodies	Arabian Sea Coast	0.5 km, S from the HTL
	Samdiyala Salinity ingress control bund	4.5 km, WSW
	Malan Bandhara	1.5 km E
	Malan River	4.4 KM,E
	Bhambhali River	5.4 Km, W
	Garasawo River	0.9 KM,NE
Forest	RF near Patwa	2.8 KM,SW
	RF near Doliya	7.4 KM,E
	RF near Dudheri	0.6 KM,S
	RF near Gujarda	0.3 KM,S
	RF near Khared	2.1 KM,E

ix. Presence of Environmentally Sensitive areas in the study area

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks
Forest Land within the mine lease area and (if yes) status of Forest Clearance	No	
National Park	No	
Wildlife Sanctuary	No	
Elephant/Tiger Reserve	No	
Eco-Sensitive Zone(ESZ) /Eco- Sensitive Area (ESA)	No	
Coastal Regulation Zone (CRZ)	Yes	ML area outside CRZ- GCZMA letter no.ENV-10-2023-170-T dated 19.07.2023
Schedule-I species (No.s and name of schedule-I species with authenticated letter)	Yes	Peafowl, Chinkara and Asiatic lion & as per Wildlife Protection Amendment Act, 2022, schedule-1 species have been updated in WLCP.

Wildlife Conservation Plan	Yes	On the basis of the fauna study findings & list of fauna authenticated by Forest Department, Wildlife Conservation Plan was prepared and submitted for approval. The said Wildlife Conservation Plan had been approved by the Forest Department on 20.12.2021. Rs. 19.9 lakh has been approved for the conservation of wildlife in the study area. As suggested by EAC & latest Wildlife Protection Amendment Act, 2022, budget allocation for WLCP has been increased from Rs.19.9 Lakh to Rs.65.9 Lakh for all 3 mines.
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x. Green belt/plantation details:

Proposed area for green belt/plantation and no. of saplings proposed	30.00 Ha.
Budget for green plant & plantation till the end of life of mine.	90.95 Lakhs
Budget for nursery	-
Details of existing plantation and its survival rate	-
No. of tree cuts in the mine lease area and compensatory afforestation	As per actual during mining
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	10.0
50 m safety zone of nallah, roads, electric lines	10.0
500 m safety zones of nearest habitation villages	-
Additional information (if any)	10.00 ha (Backfilled area (Govt. wasteland))

xi. Baseline detail:

Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)	
Period of baseline data collection	01.03.2021 to 02.06.2021
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Summer
Predominant Wind direction (From)	South
Ambient Air Quality (no. of locations) and results	16
Noise level (no. of locations) and results	16
Water Quality (no. of locations) and results	15

Soil Quality (no. of locations) and results	12
Hydro geological study and results	As per planned mining and Report of hydrogeological & hydrological studies of core and buffer zone of Gujarda, Dudheri & Dudhala limestone mine, the ground water table may get Intersected in post monsoon during 11th year at conceptual pit bottom level of +1.0 AMSL. However, conceptual pit bottom level will be kept above ground water level i.e. +4.0m AMSL to avoid intersecting ground water level.
Traffic study (no. of locations) and results	01 location & V/C = 31.27

xii. Public Hearing (PH) Details:

Advertisement for PH with date (name of major national daily and one regional vernacular daily newspaper)	26.03.2023 in Sandesh Newspaper & Indian Express
Date of PH	28.04.2023
Venue	At the premises of Nirma Cement Plant Area, NH 8E/51, Survey No. 80, Village: Padhiyarka, Taluka: Mahuva, Dist. Bhavnagar
Chaired by	District Collector & District Magistrate, Bhavnagar District & Regional Officer, GPCB Bhavnagar
Main issues raised during PH	Air pollution, salinity ingress, wildlife protection, acquisition of agriculture land
Budget proposed for addressing issues raised during PH over 3 years	77 Lakhs

xiii. Details of CTE/CTO, Certified Compliance Report, Certified Production Details from the inception of the mine:

Particulars	Details of Letter along with date of grant and validity
Consent to Establish	GPCB CTE granted vide dated 25/01/2021 & valid upto 24/01/2028.
Consent to Operate	-
Certified Compliance Report and Inspection date	-
Certified Production Details from the inception of the mine (in tabular form against the EC capacity)	Fresh mine

xiv. Rehabilitation & Resettlement (R&R):

R & R details	The total mine lease area is 681.62 ha, out of which Govt. land is 115.6746 ha and Private land is 565.9454 ha. Land will be required for quarrying an area of 114.24 ha of Private land and Government land including 18 houses/hutments in land of Gujarda (15 nos.), in land of Dudheri (3 Nos.) & Dudhala (0 Nos.) villages. There will be total of 656 land losers. There will be direct purchase or leasing of private land, with the willing consent of the private land owners. Approx. total compensation will be Rs 18.0 Lakhs. In addition to above, the registration cost of sale of the land and homesteads shall be borne by the Company. Assuming it to be 6% of the entire costs of sale, the total resettlement budget works out to be Rs. 78.17 lakhs.
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xv. Court case details:

Court Case, No and its present status	The Project Proponent has submitted an undertaking vide letter dated 07.10.2023 stating that there is no litigation on the project either at NGT or any other court of law related to environment and pollution matters in which the project proponent is a respondent.
Undertaking by Project Proponent w.r.t court case	

xvi. Affidavit/Undertaking details:

Affidavit as per Ministry's OM dated 30.05.2018	The Project Proponent has submitted an undertaking by way of notarized Affidavit dated 09.10.2023 stating that the proposal does not involve violation of Ministry's OM dated 30.05.2018.
Undertaking by Project Proponent in EIA/EMP report	The Project Proponent has submitted an undertaking vide letter dated 14.02.2023 stating that the contents (information and data) as given by the Consultant in the EIA/EMP report are factually correct with full knowledge of the undersigned (Shri Ashish Desai).
Undertaking by Consultant in EIA/EMP report	The Director of the EIA Consultant (M/s Centre for Envotech & Management Consultancy Pvt. Ltd) has informed that the baseline data was generated

	by MoEF &NABL Accredited Laboratory M/s Min Mec R&D Laboratory, a division of Min Mec Consultancy Pvt. Ltd., New Delhi and the same has been verified and also confirmed that he shall be fully accountable for any misleading information mentioned in this statement.
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- xvii. Earlier the Proposal was considered in the 21st EAC meeting held during 18-20th October, 2023 wherein the Committee has deferred the proposal for the submission of requisite information. The Project Proponent ha submitted the relevant information on Parivesh are as follows:

S.N o.	Observation of the EAC in 21 st meeting held during 18-20 th October, 2023	Reply by Project Proponent
1.	The site visit report of the subcommittee.	Site visit has been conducted by subcommittee on 22-25 th December, 2023.
2.	Since the mine site is located within 20 km from seaboard frontier, the Project Proponent shall submit No Objection Certificate from Ministry of Defense for consideration of the instant project.	<p>Project Proponent has submitted a letter for issuance of NoC/Clearance from Ministry of Defence vide application dated 10.11.2023.</p> <p>Project Proponent has submitted a letter to Department of Geology & Mining, Govt.of Gujarat, Bhavnagar for recommendation to issue NOC to Ministry of Defense vide application dated 07.12.2023.</p> <p>As per our understanding, there is no clarity or guideline in respect of process to be followed to obtain NoC of Ministry of Defense(MoD), therefore, our humble request is that issue the EC without condition of obtaining NOC from MoD.</p>
3.	The Project Proponent	The mine is captive mine to proposed cement plant at Mahuva and Highgrade limestone to be used in company's own existing

	<p>needs to submit the action for laying common Over Land Belt Conveyor (OLBC) for transportation of mineral from mine lease area to the Cement Plant. The Project Proponent also needs to submit the action plan for expansion of road with a width of 7m and by passing the village road till the commission of the Over Land Belt Conveyor (OLBC).</p>	<p>Soda Ash plant located at Kalatalav, Bhavnagar as per permission accorded by the Govt. of Gujarat vide letter dated 17.08.2023.</p> <p>The cement plant is adjoining to the mine lease while the Soda ash plant is located around 100 km away and accessed through National Highway.</p> <p>Establishment of cement plant may take some time as the appeal is pending before Hon'ble Supreme Court while the soda ash plant is already operational.</p> <p>Hence, till the commencement of proposed cement plant, maximum 5% i.e. 450 TPD chemical grade limestone will be transported through dumpers @18 trips per day via existing village road of 7 m (out of which 4 m is black topped) to National Highway and ultimately Soda Ash plant at Bhavnagar.</p> <p>Company is very much keen to establish cement plant as early as possible & will produce & consume required limestone for cement manufacturing on its highest rated capacity.</p> <p>We assure your kind authority that we will widen the black top of the existing village road from mines to National Highway prior to commencement of Proposed Cement Plant. Section plan of proposed road black top widening has been submitted to the MoEF&CC.</p> <p>Also, as discussed during the EAC meeting, we will explore the possibility of Over Land Belt Conveyor (OLBC) on either side of the highway based on the technical possibility & feasibility by reputed consultant. We are going to approach M/s. Holtec Consultants for regulatory, commercial & technical feasibility for above stated OLBC.</p>
4.	<p>The Project Proponent needs to explore the possibility of laying over bridge over the Highway and shall</p>	<p>Since, the National Highway is under construction, we have submitted letter to National Highway Authorities of India(NHAI) regarding grant of permission to provide Underpass near our cement plant entry point or any other option suggested by NHAI for transportation of raw material & finished product. Acknowledgment dated 23.10.2023 has been submitted.</p>

	submit the permission from the National Highways Authority of India (NHAI).	
5.	The Project Proponent needs to submit the protection measures to be taken for salt water intrusion and the effectiveness of the salinity ingress control bund.	<p>Samdhiyala Salinity Ingress Control bund (Samdhiyala bund) was constructed by Government of Gujarat in the year 2000 on Motpet Creek to prevent sea water from coming towards landward side. On the landward side, rain water gets accumulated as well.</p> <p>Presently, the accumulated rain water of Samdhiyala bund is being used during post monsoon by adjoining agriculture land owners and in other seasons they are extracting ground water through borewell. For agriculture land which is away from Samdhiyala bund, farmers are extracting ground water through borewell for agriculture due to which salinity & TDS are increasing in ground water.</p> <p>As per company's water management strategy, after commencement of cement plant, company will undertake deepening of 100 ha surrendered land out of our total allotted plant land and also pledged to construct garland drains around the proposed plant area which will improve the overall fresh water storage capacity of Samdhiyala bund on landward side. Regular desiltation of canal will improve water retention capacity of Samdhiyala bund.</p> <p>At the time of mining, bottom level of conceptual pit will be kept above ground water level to avoid intersection.</p> <p>Hydrogeological monitoring network will be established by constructing piezometers in and around the lease.</p> <p>During mining, present hydrological system will keep intact by constructing garland drain around the pits to maintain present hydraulic gradient towards the Samdhiyala Bund.</p> <p>After exhaustion of mineral, voids left will act as natural water harvesting structures. Collected rain water will stand and gradually percolate into the sub surface water & in long term improve the quality of ground water.</p>

		<p>Positive pressure of fresh water on landward side will be created, which will aid in pushing back the saline front, which may be at a lower elevation.</p> <p>In view of the above, due to mining there is no possibility of salt water intrusion in the area & effectiveness of the salinity ingress control bund as well as hydrogeological system of bund will not be disturbed & infact will significantly improve the effectiveness of salinity ingress control bund.</p>
6.	<p>The Project Proponent needs to submit the site specific mitigation measures for backwaters from Arabian Sea coming into the mine lease area.</p>	<p>In this regard, following site specific mitigation measures will be taken:</p> <p>Arabian Sea is situated at distance of more than 0.5 km in the south of the said mine lease and is clearly outside the CRZ area which is certified by GCZMA. Letter dated 19.07.2023 has been issued to M/s Nirma Ltd. from GCZMA.</p> <p>There was only one probability of sea water coming to mine lease area which is through Motpet Creek. Samdhiyala Salinity ingress bund has been constructed on Motpet Creek to restrict backwater coming from Arabian sea towards landward side. Therefore, there is no possibility of backwater from Arabian sea to come to mine lease area.</p> <p>Hydrogeological monitoring network will be established by constructing piezometers in and around the lease to monitor the water level & water salinity.</p> <p>Positive pressure of fresh water on landward site will be created due to water storage in mine pits, which will aid in pushing back the saline front as well.</p>
7.	<p>The Project Proponent needs to revisit the plan for backfilling with clearly indicating the voids area and the capacity available/req</p>	<p>The Indian Bureau of Mines, Govt. of India, Gandhinagar has approved the Mining Plan vide its letter dated: 05.08.2021 for the period of 5 years i.e. up to 2025-26.</p> <p>As per approved Mining Plan, Removal of soil and its disposal as below.</p> <p>Year: FY 2021-22 to FY 2025-26 Removal of soil(cum):249806 Means of disposal: *Temporary stacking at one location near Proposed Pit no.1.</p>

	<p>uired for backfilling.</p>	<p>Then, temporary stacked soil will be shifted for Backfilling of shallow pits of around 4.0 m depth (Proposed Pit No. 6) after five year mine plan period. A map has been submitted.</p> <p>Area covered under stacking (ha): 6.20</p> <p>Year: FY 2026-27 to FY 2031-32 Removal of soil(cum):321894 Means of disposal: *Temporary stacking at one location till 2026-27 and then, temporary stacked soil will be shifted for Backfilling.</p> <p>Simultaneously Utilized for Back filling of shallow pits of around 4.0 m depth Proposed Pit No. 6. (As demonstrated in map attached in Enclosure-VIII).</p> <p>Then, temporary stacked soil will be shifted for Backfilling of shallow pits of around 4.0 m depth (Proposed Pit No. 6) after five year mine plan period.</p> <p>Area covered under stacking (ha):Nil</p> <p>Total Removal of soil(cum): 571200 Area covered under stacking (ha): nil</p> <p>Looking towards availability of topsoil, backfilling of part area is envisaged.</p> <p>Total voids area envisaged till conceptual period = 114.24 ha</p> <p>Total soil removal envisaged till conceptual period = 0.57 million cum (114.24 Ha *0.5 m avg. soil thickness)</p> <p>Total backfilling area envisaged till conceptual period = 15.66 ha</p> <p>Ultimate Dimensions of Pits at the end of conceptual period</p> <p>Pit No.: 1 Pit Area covered (ha):49.56 Pit Top (m AMSL):20 to 14 Pit bottom (m AMSL): 10 Pit Depth in in m: 10 to 4</p>
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		<p>Pit Area covered by backfilling(ha): No backfilling proposal</p> <p>Pit No.: 2 Pit Area covered (ha):12.78 Pit Top (m AMSL):13 to 11 Pit bottom (m AMSL): 8 Pit Depth in in m: 5 to 3 Pit Area covered by backfilling(ha): No backfilling proposal</p> <p>Pit No.: 3 Pit Area covered (ha):14.40 Pit Top (m AMSL):13 to 11 Pit bottom (m AMSL): 6 Pit Depth in in m: 7 to 5 Pit Area covered by backfilling(ha): No backfilling proposal</p> <p>Pit No.: 4 Pit Area covered (ha):17.51 Pit Top (m AMSL):17 to 12 Pit bottom (m AMSL):11 Pit Depth in in m: 6 to 1 Pit Area covered by backfilling(ha): No backfilling proposal</p> <p>Pit No.: 5 Pit Area covered (ha):4.33 Pit Top (m AMSL):15 to 13 Pit bottom (m AMSL):6 Pit Depth in in m: 9 to 7 Pit Area covered by backfilling(ha): No backfilling proposal</p> <p>Pit No.: 6 Pit Area covered (ha):15.66 Pit Top (m AMSL):10.5 to 4 Pit bottom (m AMSL):4 Pit Depth in in m: 6.5 to 0 Pit Area covered by backfilling(ha): Backfilling of pit area of 15.66 Ha for entire depth – 570000 cu.m</p> <p>Total Pit Area covered (ha): 114.24 Pit Area covered by backfilling(ha): 15.66 Ha (570000cu.m)</p>
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8.	<p>The Project Proponent needs to revise the activities proposed under the Wildlife Conservation Plan. The Project Proponent also needs to ensure that the Schedule-I species as per the latest Wildlife Protection Amendment Act, 2022 shall also be included in the Wildlife Conservation Plan for their conservation.</p>	<p>Revised wildlife conservation plan incorporating the Schedule-I species as per the latest Wildlife Protection Amendment Act, 2022 has been submitted.</p> <p>10 species are protected under the Schedule-I of The Wildlife (Protection) Act 1972 are as: Asiatic Lion, Indian Leopard, Striped Hyena, Jungle Cat, Indian Fox, Jackal, Indian Grey Mongoose, Indian Porcupine, Chinkara and Grey Wolf.</p> <p>Further, 2 species (Indian Peafowl and Eurasian Spoonbill) are protected under the Schedule-I of The Wildlife (Protection) Act 1972 amended 2022.</p>
9.	<p>The EAC was of the view that the compensation rate is very less and asked the Project proponent to revisit and justify the budget proposed for</p>	<p>Type of land: Private Land rate, Rs. Lakh/ ha: 13.00 Land requirement, ha: 100.22 Total Amount Rs. lakhs: 1302.86</p> <p>Type of land: Government Land rate, Rs. Lakh/ ha: On mining lease Land requirement, ha: 14.02 Total Amount Rs. lakhs: _</p> <p>Total Landrequirement, ha: 114.24 Total Amount Rs. lakhs:1302.86</p>

<p>Resettlement & Rehabilitation (R&R). The Project Proponent also needs to submit the action plan for land acquisition and timeline.</p>	<p>Total amount given considering as per DLC rate. However, land will be procured/get consent for mining purpose on mutual agreed market rates.</p> <p>Total amount given considering as per DLC rate. However, land will be procured/get consent for mining purpose on mutual agreed market rates.</p> <p>Type of homestead:Pucca Rate, Rs. /sq.m.: 10000 Approx. Homestead area**, sq.m.:360 Total compensation, Rs. lakhs: 36</p> <p>Type of homestead:Semi pucca Rate, Rs. /sq.m.: 5000 Approx. Homestead area, sq.m.:360 Total compensation, Rs. lakhs: 36</p> <p>Type of homestead:Kutchha Rate, Rs. /sq.m.: 2000 Approx. Homestead area**, sq.m.:360 Total compensation, Rs. lakhs: 36</p> <p>Total Approx. Homestead area**, sq.m.: 360 Total compensation, Rs. lakhs: 36</p> <p>** Company will consider homestead losers falling in proposed mine area on actual basis at the time of starting of mining activity and such homestead losers shall be compensated on mutually agreed commercial terms.</p> <p>Since the land owners as well as homestead owners shall be compensated on commercial terms, therefore, they will have better economic strength to rehabilitate or reinvest the compensation amount. Hence, no separate R & R plan is envisaged.</p> <p>Action plan for land acquisition and timeline is as below:</p> <p>Sr. No: 1 Timeline for land requirement(present)</p> <p>Sr. No.:1.1</p>
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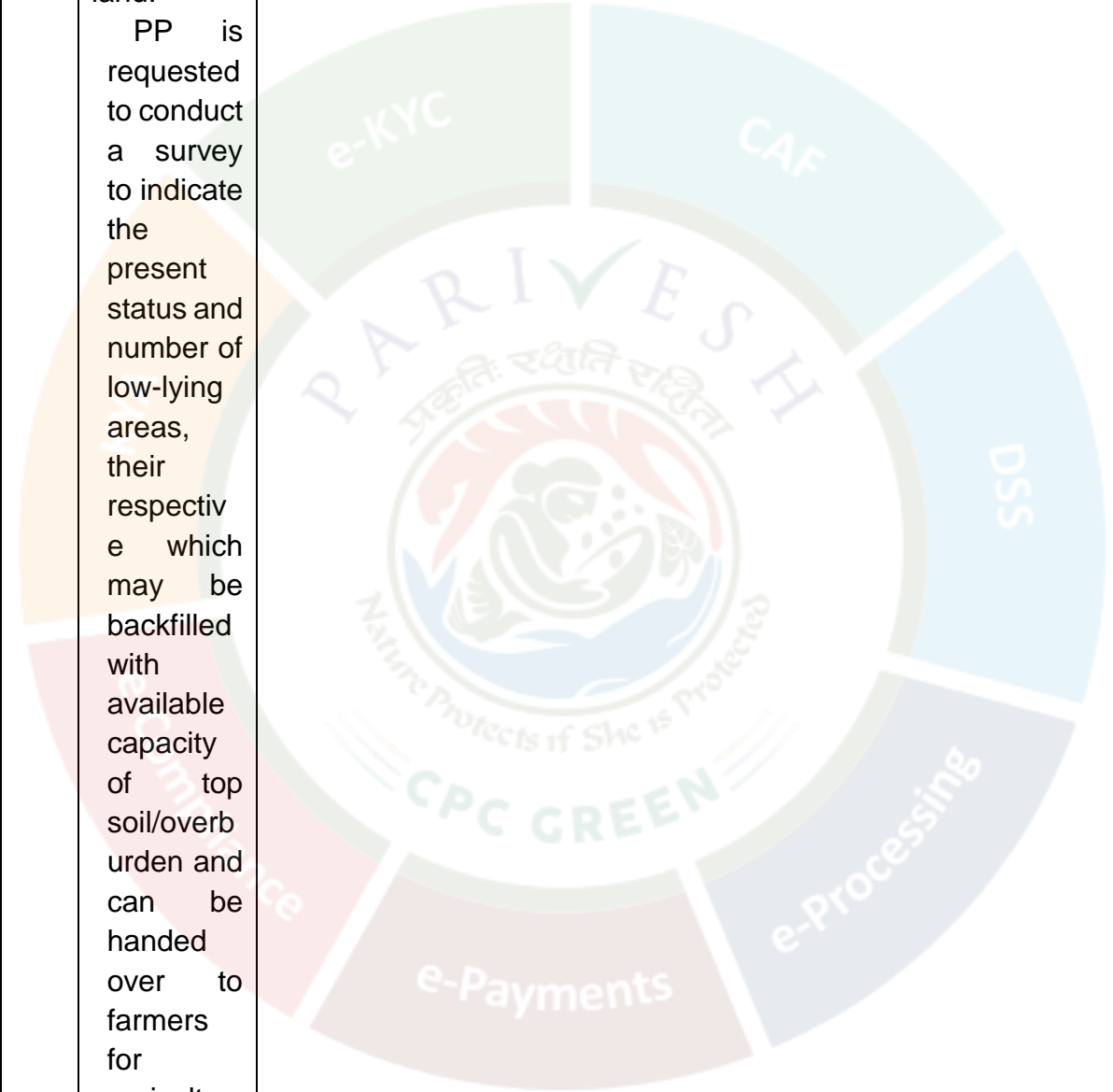
		<p>Timeline for land requirement(present): purchased Pvt. Land:49.49 Govt. land:0 Total: 49.49</p> <p>Sr. No.:1.2 Timeline for land requirement(present): Consented Pvt. Land:25.67 Govt. land:0 Total: 25.67</p> <p>Sr. No.:1.3 Timeline for land requirement(present): Leased Pvt. Land:0 Govt. land:115.67 Total: 115.67</p> <p>Sr. No: 2 Timeline for land requirement(Future)</p> <p>Sr. No.:2.1 Timeline for land requirement(present): 1st to 5th year mining Pvt. Land: 54.21 Govt. land:0.02 Total: 54.23</p> <p>Sr. No.:2.2 Timeline for land requirement(present):6th year to Conceptual stage -11th year Pvt. Land: 102.70 Govt. land:14.04 Total: 116.74</p> <p>Sr. No.:2.3 Timeline for land requirement(present):Minelife (up to lease period) Pvt. Land: 565.94 Govt. land:115.67 Total: 681.62</p> <p>Mining lease deed has already been executed for said mining lease so mining can be started in Govt. lease land. As far as private land is concerned, company has obtained surface rights</p>
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		for mining by purchasing land/consent in some of the land & for remaining land, company is in process to procure ownership or surface right for mining on mutually agreed commercial terms. We hereby assure that company will obtain surface rights of the land before entry in pvt. land for starting mining activity in the mining lease area.
10.	The Project Proponent needs to submit the action plan for year wise exploration program.	<p>The Indian Bureau of Mines, Govt. of India, Gandhinagar has approved the Mining Plan vide its letter dated: 05.08.2021 for the period of 5 years i.e. up to 2025-26.</p> <p>Looking towards the systematic exploration of the entire area, 182 nos. of Core Bore Holes has been proposed in the area in order to bring the ML area within G1 stage in accordance with MEMC Rules 2015 and MCDR 2017 as per approved mining plan.</p> <p>The deposit is sedimentary origin and simple in nature, therefore boreholes are kept at an interval of 200m grid pattern. A total of 182 number of Core Boreholes are proposed up to a level of +1.0 MRL . Initially BH drilling shall be at an interval of 400m. If limestone potentiality proves, then further BH can be done closely at 200m interval. All proposed BH shall be drilled vertically. The exploration shall be carried out in five years of working i.e. year 2021-22 to 2025-26. Exploration shall be carried out as shown in table to bring BH at 200m interval.</p> <p>Program of Future Exploration</p> <p>YEAR:2021-22 to 2025-26 No. of BH: PBH-1,3,10,12,14,16,28, 31,33,35,54,56,58,75,77 Grid Interval:400 m Total Meterage: Up to +1.0 MRL</p> <p>YEAR:2021-22 to 2025-26 No. of BH: PBH-37,41,43,61,66,79, 81,83,96,100,115,117,119,121,143,141,139,137,135,133,167, 165,163,169,171,173,179,181 Grid Interval:400 m Total Meterage: _</p> <p>YEAR:2021-22 to 2025-26 No. of BH:</p>

		<p>PBH-2,4,5,6,7,8,9,11,13, 15,17,24,25,26 Grid Interval:200 m Total Meterage: _</p> <p>YEAR:2021-22 to 2025-26 No. of BH: PBH-18,19,20,21,22,23,27,29,30,32,34,36,38,39,40,42,44-55,57,59,60,62-65,67,71-74,76,93,94 Grid Interval:200 m Total Meterage: _</p> <p>YEAR:2021-22 to 2025-26 No. of BH: PBH-68-70,82,84,78,80,85-92,95,97-99,101-116,118,120,122,123,124-127 Grid Interval:200 m Total Meterage: _</p> <p>YEAR:2021-22 to 2025-26 No. of BH: PBH-128-132,134,136,138,140,142,144,162,164,166,168,170,172,174-178,180,182 Grid Interval:200m or below Total Meterage: _</p> <p>YEAR:2021-22 to 2025-26 No. of BH: EP-1 & EP-2 size 3m*3m Grid Interval:_ Total Meterage: up to level +1.0mRL</p> <p>The exploration shall be started as soon as mining work is started on grant of EC and try to accomplish within shorter period if conditions are favorable.</p> <p>The location of Proposed BH is depicted in Surface Geological plan of the approved mine plan and given in EIA report in figure no. C 2-2 in Chapter 2 has been submitted.</p>
11.	The Project Proponent needs to submit the copy of the permission	Permission accorded by the Govt. of Gujarat vide order dated: 17.08.2023 for utilization of Chemical Grade of Limestone for non-cement purposes has been submitted.

	<p>letter obtained from the State Govt. for utilization of Chemical Grade of Limestone for non-cement purposes.</p>	
<p>12.</p>	<p>The Project Proponent needs to submit a letter from the Department of Geology and Mining, Government of Gujarat clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s. Nirma Limited or not?</p>	<p>The company has not carried out any mining within the lease area much less any illegal mining in the lease area. There are old pits pre-dating the allotment of the lease to the company, which were received in legacy and shown in the present surface geological plan. Request letter in this regard has been submitted to Department of Geology and Mining, Government of Gujarat on 01.11.2023. Acknowledgement of the same has been submitted by the Project Proponent.</p>
<p>Site Visit Recommendation Reply</p>		

1.	PP should submit an action plan and timeline to indicate the purchase of lands across all three mining leases wherein it has proposed mining pits to initiate mining activities since as on date PP has only purchased / obtained surface rights over 101.1967 Ha out of 1351.6489 of Private Agriculture Land.	Action plan and Timeline indicating the purchase /obtain surface rights of land for mining for all three mining leases to initiate mining activities has been submitted by the Project Proponent.
2.	Since PP envisages to handover the land with shallow quarry having depth upto 4m to landowner	<p>In said mine, survey has been conducted & one pit i.e. Pit No. 6 (Pit area -15.66 Ha) will have shallow depth pit and will be backfilled for entire depth of pits, looking to availability of soil for backfilling</p> <ul style="list-style-type: none"> • Pit no. 6 -15.66 Ha Pit area of avg. 3.25 m bgl for entire depth. <p>Action plan for backfilling of shallow depth pits of depth up to 4.0 m and handing over to farmers for agriculture has been submitted by the Project Proponent.</p>

	<p>s for farming and mostly all three mining leases are having agricultural land.</p> <p>PP is requested to conduct a survey to indicate the present status and number of low-lying areas, their respective which may be backfilled with available capacity of top soil/overburden and can be handed over to farmers for agricultural purpose.</p>	
3.	Project Proponent needs to provide year wise	Exploration plan of said mining lease has been submitted by the Project Proponent.

	exploration plan for all the three mining leases.	
4.	Since, Bhavnagar falls under severely Polluted Area category, PP shall ensure that during initiation phase itself they should include the provision of permanent water sprinklers across the haul roads in all three mining leases.	Chitra Industrial area (severely polluted area) in Bhavnagar city is located around 100 km away from our said mining lease area. On initial stage, company will engage water tanker with sprinkler arrangement to suppress the dust on haul road and company will make provision of permanent water sprinklers across the haul roads in all three mining leases.
5.	Since, Bellur and other schools are in close proximity to mine lease area, PP shall ensure that necessary safety measures are taken as per	Company will ensure to maintain require safety measures & distance from Bellur School & other schools as per DGMS norms for all three mining leases during mining.

	DGMS norms for all three mining leases.	
6.	PP shall ensure to construct bunds near the existing low lying areas that has developed into wetland to prevent the ingress of sea water in Padhiyarka and Doliya Limestone Mine lease area and Gujarada, Dudheri & Dudhala limestone mine lease area.	<p>The low lying area is where the rain water accumulates temporarily during monsoon. These are not notified as wetlands either under Ramsar Convention or by Central Govt. or State Govt. Hence, the identifications and provisions under Wetlands (conservation and Management) Rules, 2017 do not apply in this case as per clause 3 of aforesaid Rules.</p> <p>Moreover, Padhiyarka and Doliya Limestone Mine lease area and Gujarada, Dudheri & Dudhala limestone mine lease area are located at a distance of more than 500 m from High Tide Line of sea & also this area (between sea and low lying area in our mining lease area) have higher altitude, therefore, there is no chance of sea water ingress in mining lease area. However, company will construct bunds as and when required.</p>
7.	The project Proponent needs to submit the integrated management plan describing the strategies and actions for achieving	<p>There is no Ramsar convention/ Central or State Government notified wetland in and nearby our mining lease area. The water bodies such as river channels and human-made water bodies (such as submergence areas of Samdhiyala Bandahara, Malan Bandhara) are excluded from the definition of wetlands as per Wetlands (Conservation and Management) Rules, 2017.</p> <p>There are low lying areas, in which rain water accumulates temporarily during monsoon. Mining activity will contribute towards enlarging & deepening such areas in pit no. 2 & 3 of Padhiyarka & Doliya Mine and pit no. 5 & 6 of Gujarada, Dudheri & Dudhala making a positive contribution to fresh water storage.</p>

	<p>wise use of the wetland and the plan shall include objectives of the site management, management actions required to achieve the objectives, factors that affects, or may affect, the various site features, monitoring requirements for detecting changes in ecological character and for measuring the effectiveness of management, and resources for management implementation.</p>	<p>The company does not intend to have any other use for these low lying areas.</p> <p>As part of the integrated management plan for protection of water logged areas in and around the project, following steps shall be undertaken:</p> <ul style="list-style-type: none"> ● Company will not do mining below 2 m AMSL in this low lying area so that there is no salinity ingress due to mining activity. ● Piezometer will be installed at designated locations to monitor changes in ground water level. ● Other allied activities such as transportation will be carried out by maintaining safety distance from this low lying area ● In this area of Gujarat, water logging due to rain water is a common phenomenon and resident water birds take advantage of such seasonal water logging to feed. Hence, company has proposed several measures as part of the wildlife conservation plan, with 3-year budget, as follows: <ul style="list-style-type: none"> ■ Supporting 3 local NGOs for Conservation Awareness activities (Rs. 18 lakhs) ■ Provision for Rapid Rescue Vehicle for Wildlife (Rs. 10 lakhs) ■ Assisting Plantation activities to be carried out by Forest Department, Bhavnagar (Rs. 1.5 lakhs) ■ Nature/Eco-tourism guide & hospitality training 20 persons (Rs. 2.5 lakhs) ■ Provision of equipments, camera, binoculars for efficient monitoring and eco-tourism promotion (Rs. 7.5 lakhs) ■ Maintenance of shallow ponds/rainwater harvesting structures (Rs. 3 lakhs) ■ Van Sahayak 1 nos. on contract basis (Rs. 3.6 lakhs) ■ Public education and awareness programmes for the following - Avoiding plastic, Recycle and reuse, Reduce usage of pesticide and weedicide, Conservation of Wildlife, Garbage control (Rs. 3 lakhs). <p>Six-monthly third-party WLCP monitoring report preparation (Rs. 1.25 lakhs)</p>
8.	PP needs to engage and impart skill among	Company will not acquire any agriculture land through land acquisition by Govt. or without willingness of land owner and will purchase / obtain surface rights for mining on market commercial negotiated rates.

	<p>the villagers and local population mainly the land losers and also submit a plan for their alternate livelihood arrangement since most of them will be losing their fertile lands.</p>	<p>Land owners may purchase agriculture land in nearby area in the amount which is to be paid to them against their land and can continue their livelihood.</p> <p>Company will give priority to engage land owners who have given land for mining purposes as per requirement of manpower for mines.</p> <p>Also, company will arrange to impart training to build capacity for self-employment [stitching, embroidery, tailoring, pickles, dairy improvement, poultry farming, etc.] to land losers and will facilitate vocational training along with skill development for getting better job opportunities (Budget Rs. 3 lakhs/year).</p>
9.	<p>PP should widen the existing village roads before using it for transportation in all three mining leases, wherever widening is not possible, PP shall submit an action plan for making alternate roads.</p>	<p>On initial stage, company has proposed to mine out limestone for Soda ash plant in lower capacity and company will use existing village road for transportation of limestone by maintaining the existing village road as number of trips of truck / dumpers will be very less i.e. around 18 numbers of trips/day maximum in this mine.</p> <p>Company will widen the existing village road or make alternate road in all three mining leases on installation of cement plant. Section plan of the road widening has been submitted by the Project Proponent.</p>
10.	<p>PP should engage wildlife</p>	<p>Company has already engaged wildlife expert / avian expert for conservation of the avian fauna within and near its mine lease.</p>

	experts/ avian experts for conservati on of the avian fauna within and near its mine lease.	
11.	PP shall plant native fruit bearing plants across all the proposed green patches.	Native fruit bearing plants will be planted across all the proposed green patches.
12.	PP shall put boundary pillars across all mining leases.	Company had erected boundary pillars at the time of lease deed execution and got authentication of all boundary pillars co-ordinates through the DILR / State Govt. and provided in the approved mining plan for all three mining leases. Some pillars have been dislodged/ removed by local people. Company will put such boundary pillars again prior to commencement of mine so that they can be maintained.
13.	The project proponent needs to submit a letter from the Departmen t of Geology & Mining, Govt. of Gujarat, clarifying whether any illegal mining within the	The company has not carried out any illegal mining in the lease area and request letter to provide required certificate regarding no mining carried out by company or others has been submitted to the District Geologist, Department of Geology and Mining, Government of Gujarat, Bhavnagar vide letter dated: 01.11.2023. In turn, the District Geologist, Bhavnagar has submitted his report to the Commissioner of Geology & Mining, Govt. of Gujarat, Gandhinagar vide its letter dated: 01.02.2024 to communicate the same to MoEF and copy endorsed to us. As per his report, No case of Illegal mining of limestone mineral has been registered within the mining lease area against the company M/s Nirma Limited or against any other individual or entity. Copy of our submitted letter dated: 01.11.2023 and copy of report of the District, Geologist, Geology & Mining Dep't,

	mine lease area has been carried out or not and whether the same has been carried out by M/s Nirma Limited or not?	Bhavnagar dated 01.02.2024 has been submitted by the Project Proponent.
14.	PP needs to submit plan to transport crushed limestone from all the three leases to plant.	<p>The mine is captive mine to proposed cement plant at Padhiarka, Mahuva and High grade limestone to be used in company's own existing Soda Ash plant located as Kalatalav, Bhavnagar.</p> <p>The cement plant is adjoining to the mine lease while the Soda ash plant is located around 100 km away and accessed through National Highway.</p> <p>Establishment of cement plant may take some time while the soda ash plant is already operational.</p> <p>Hence, till the commencement of proposed cement plant, maximum 5% i.e. 450 TPD limestone will be transported to Soda ash plant located near Bhavnagar through dumpers @18 trips per day. The trucks will pass through existing Dudhala - Amrutvel village road of 7 m width (out of which 4 m is black topped) for around 1.0 km and meet National Highway no. 51, from where the truck will move around 100 km.</p>
15.	PP needs to take some measures to keep the migration bird ponds un harmed and protected by activity of mining in future.	<p>Migratory birds are seen in Malan Bandhara as well as other nearby Bandhara areas, which areas located at distance of 1.5 km and 4.5 km from our mining lease area, respectively.</p> <p>Birds are also seen in low lying area, in which rain water accumulates temporarily during monsoon. However, they are pre-dominantly resident water birds.</p> <p>The company is committed to the measures proposed in the site specific wildlife conservation plan (summarised in point 7 earlier), which include points related to protection of shallow ponds, ecology and birds.</p>

		The company will mine above 2m AMSL in low lying areas to maintain the fresh water nature of the water in it. The enlarging of the low lying area in pit no. 2 & 3 of Padhiaryka & Doliya Mine and pit no. 5 & 6 of Gujarda, Dudheri & Dudhala will provide more area to birds. Also company will ensure that transportation will be carried out by maintaining safety distance from low lying areas.
16.	PP needs to install water treatment plant to reduce the hardness of water.	Drinking water is provided in every nearby villages through Narmada water pipeline by the State Govt. and drinking water requirements for mines shall also be fulfilled through Narmada water pipe line which is passing through nearby area. Hence, presently there is no proposal to use the hard ground water. However, if any requirement sought in future we will provide treatment plant.
17.	PP needs to explore possibility of deploying surface miners for mining.	<p>Company has proposed mining with surface miner (50% quantity) in IBM approved mine plan and also in EIA report. Company explored use of Ripper dozer for cement plant use to eliminate drilling & blasting in the remaining 50% and committed the same in point no. 3, Specific Terms of Reference received from MOEF&CC vide Letter no. J-11015/154/2016-IA. II(M) dated November 28, 2022.</p> <p>For soda ash plant, we need sized limestone i.e. 25 mm to 100 mm, so surface miner cannot be deployed for limestone mining for Soda ash plant use. However, company will deploy rock breaker to avoid blasting during mining.</p>

xviii. Details of the Environmental Management Plan (EMP):

Activities	Capital cost (Crores)	Recurring cost (Lakhs/annum)
Pollution Control	0.291	10.12
Pollution monitoring	0.016	3.88
Occupational health	0.014	0.95
Environmental Studies, etc.	0.10	–
Green belt	–	5.10
Reclamation	–	10.03
Others (Environmental studies, Rehabilitation, Realignment, Expert advice, fencing etc.	–	5.48
Overheads	–	0.32
Total	0.421	35.87

xix. Details of project cost and employment:

Particulars	(Rs. In Crore)
Total cost of EMP (Capital Cost of EMP + capital cost of Public hearing)	1.19
Project Cost	25
Employment (No.s)	84

3. Observation and Recommendation of EAC:

The EAC deliberated the instant proposal along with Vangar & Madhiya Limestone Mine and Padhiarka and Doliya Limestone mine. The Project Proponent presented its reply to the ADS points raised vide minutes of the 21st EAC as well as the recommendation of the sub-committee. After detailed deliberations, EAC **deferred** the proposal for the want of following information:-

- i. The Proponent shall submit No Objection Certificate from Ministry of Defence for consideration of the instant project.
- ii. PP needs to undertake a study to showcase the probable impact of mining on migratory bird species and their fly-way passage (Central Asian Flyway). Accordingly, PP shall submit the revised conservation plan for the migratory bird species.
- iii. The Project Proponent needs to undertake a study and submit the action for laying common Over Land Belt Conveyor(OLBC) for transportation of mineral from mine lease area to the proposed Cement Plant.
- iv. The project proponent needs to submit a letter from the Commissioner of Geology & Mining, Govt. of Gujarat, clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s Nirma Limited or not?
- v. PP submitted that National Highway is under construction, and they have submitted letter to National Highway Authorities of India(NHAI) regarding grant of permission to provide Underpass near their proposed cement plant entry. Accordingly, PP needs to submit the permission letter for the underpass.
- vi. The Project Proponent needs to carry out study by reputed institute to ascertain hardness of strata for deployment of surface miners for mining.
- vii. The Project Proponent needs to submit time line for acquiring land from the villegers.

1.4 Padhiarka and Doliya Limestone mine for mining of Limestone with production capacity of 1.5 MTPA in the mine lease area of 332.24 ha by M/s Nirma Limited located at Villages Padhiarka & Doliya, Tehsil Mahuva, District Bhavnagar, Gujarat – Reconsideration for Environmental Clearance reg[Online Proposal No. IA/GJ/MIN/443206/2023, F.No. J-11015/154/2016-IA.II(M)][EIA Consultant: M/s Centre for Envotech and Management Consultancy Pvt. Ltd]

The proposal is for Environmental Clearance for Padhiarka and Doliya Limestone mine for mining of Limestone with production capacity of 1.5 MTPA in the

mine lease area of 332.24 ha by M/s Nirma Limited located at Villages Padhiarka & Doliya, Tehsil Mahuva, District Bhavnagar, Gujarat.

2. The details of the project as ascertained from the document submitted by the Project Proponent and as revealed from the discussions held during the meeting are given as under:

- i. The mine lease area is located between Latitude 21°00'42.8152" N to 21°02' 9.7579" N and Longitude 71°40'10.0006"E to 71°41'9.9043"E. The mine lease area falls under the Survey of India Toposheet No: F42R12 and falls in Seismic Zone-III.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.
- iii. Details of Terms of Reference (ToR):

Date of application	Proposal No/ File No	Consideration by EAC	Details of ToR	Date of accord
18.11.2022	IA/GJ/MIN/406830/2022	06.12.2022	Letter no. J-11015/153/2016-IA.II (M)	6 th February, 2023

iv. Details of Mine Lease: -

S.No.	Prospecting License/ Letter of Intent (LoI)/ Grant of Mine lease and Lr No	Date of the grant	Name of the Mineral & (Major/ Minor)	Period of Grant	Granted by	Mine lease area in Ha
1	MCR-102004-1943-CHH	15.02.2008	Limestone	30 years	IMD, Government of Gujarat	1497.4701
2	MCR-102004-1943-CHH	02.02.2011	Limestone	30 years	IMD, Government of Gujarat	1489.4701
3	MCR-102004-1943-CHH	08.01.2017	Limestone	50 years	IMD, Government of Gujarat	681.62

S. No	Details of grant of Mine Lease deed execution	Period of Grant		Name of the Mineral	Mine lease area in Ha
		From	To		
1	MCR-102004-1943-CHH	11.01.2017	10.01.2067	Limestone	681.62

v. Land Use/Land Cover of the Mine Lease Area:

Private land	565.9454
Government land	115.6746
Forest land	-
Total Mining lease area (MLA), ha	681.62
Private land for crusher, workshop & other infrastructure outside the MLA	No any facilities outside the ML area. However crusher will be installed at company's Cement Plant.

vi. Mining plan details:

Mining Plan including Progressive Mine Closure Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	File No.: 684(4)(1)/MP-348(197)/2021-22 GNR/1121
	Date	04.08.2021
	Mineral & (Major/Minor)	Major
	Mine Lease Area, Ha	681.62
	Validity	31.03.2026
Mining Parameters	Quantitative Description	
Method of Mining	Opencast mechanized	
Drilling/Blasting	Multi-row drilling and V-pattern drill holes for deep hole drilling and blasting. Slurry explosive -cap sensitive and non-cap sensitive.	
Geological Reserves	57.280 Million tonne	
Mineable Reserves	20.574million tonne	
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/Waste, MTPA)	Top soil- 0.57 mi.cum OB/SB/IB/Mineral Rejects- Nil Waste-Nil	
Life of mine	11 years (Life of mine may be increased subject to conversions of resources under 333 category into category of reserves 111)	
Mine Bench Height & Bench Width	6.0 m, for working bench 12-15 m for closing (conceptual) bench Optimum	
No. of Mine Benches	2	
Existing Depth, m bgl	New mine	
Ultimate Depth of Mining, m bgl	10 m	
Ground Water Table, m bgl	15.5 m (Post monsoon)	
Details of ground water intersection	No ground water will be encountered during planning stage i.e. in working plan in neither pre monsoon nor post monsoon season in any of the	

	pits. Ground water will also not intersect during mining at the end of mine life.
Individual bench slope	80-85°
Overall pit slope	~ 45°
Details of existing/ proposed Crusher	Proposed crusher will be installed at Cement Plant.
Mineral Beneficiation	-
RoM output size	-
Transportation details including capacity of dumper/tipper, mode of transport and distance	Internal haul road from mine face to crusher and by conveyor from crusher to the Cement plant adjacent to the mine lease. For the Soda Ash Plant located at approx.100 km at Kalatalav, Bhavnagar limestone will be transported in dumpers/ trucks through National Highway 51. Internal haul road from mine face to crusher means of dumper/tippers of 25 tonnes capacity.
Generation of Topsoil/OB & its Management during plan period & conceptual period	Top soil at plan period- 249806 cu.m, temporary stacking at one location Top soil at conceptual period-321394 cu.m, simultaneously backfilling
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	Nil
Additional information(if any)	Surface miner as well as ripper/dozer & rock breaker will be used for mining to minimize drilling & blasting.

vii. Water requirement:

Total water requirement	44 KLD	Fresh water	3 KLD
		Treated water	41 KLD
Source	i. Fresh water source Narmada water pipeline/Water tanker. ii. Water harvested within mine lease during rainy season. iii. Treated water source- Reject water of RO /DM plant &Reject water of RO /DM plant (proposed at Cement plant)		
Permission for withdrawal/ intersection along with details of grant and its validity	Permission for water withdrawal from Narmada water pipeline has been taken vide letter No. GWIL/Bhavnagar/Ind.conn./1257 dated 4.06.2008.		

viii. Nearest village/town/ highway/interstate boundary/railway station/water bodies/monument/ forest

Particulars	Particular's Name	Distance & Directions
Village	Gujarda, Dudheri, Dudhala Madhiya Padhiarka	0.2-0.5 km 0.5 km, NW 0.5 km, W
Town	Mahuva	4.0km, NE
Highway	NH-51 (Una-Mahuva highway)	Within
Interstate Boundary	Rajasthan	Approx.500 KM,N
Railway Station/Railway line	Amrutvel	2.0km, N
Water Bodies	Arabian Sea Coast	0.5 km, S from the HTL
	Samdiyala Salinity ingress control bund	4.5 km, WSW
	Malan Bandhara	1.5 km E
	Malan River	4.4 KM,E
	Bhambhali River	5.4 Km, W
Forest	Garasawo River	0.9 KM,NE
	RF near Patwa	2.8 KM,SW
	RF near Doliya	7.4 KM,E
	RF near Dudheri	0.6 KM,S
	RF near Gujarda	0.3 KM,S
	RF near Khared	2.1 KM,E

ix. Presence of Environmentally Sensitive areas in the study area

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks				
Forest Land within the mine lease area and (if yes) status of Forest Clearance	No	The Project Proponent has submitted the letter from the Office of the Principal Chief Conservator of Forests vide Lr.No: WLP/32/C826-827/2021-22 dated 13.01.2022 regarding the map showing the location of protected areas within 10km of the Limestone mining project and the and distance of protected areas and proposed Limestone mine.				
National Park	No					
Wildlife Sanctuary	No					
Elephant/Tiger Reserve	No					
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area (ESA)	No					
		<table border="1"> <thead> <tr> <th>Protected areas</th> <th>Distance between</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table>	Protected areas	Distance between		
Protected areas	Distance between					

		<table border="1"> <tr> <td></td> <td>Limestone mines and Protected areas</td> </tr> <tr> <td>Gir National Park</td> <td>79.0 km</td> </tr> <tr> <td>Gir Wildlife Sanctuary</td> <td>47.6 km</td> </tr> <tr> <td>Mitiyala Wildlife Sanctuary</td> <td>46.7 km</td> </tr> </table> <p>The Project Proponent has submitted the letter from the Office of the Deputy Chief Conservator of Forest, Bhavnagar vide letter no. A/GMN/T11/2075/22-23 dated 27.01.2023 certifying that the nearest turtle rearing/breeding site is located at a distance of about 70km away from the mines.</p>		Limestone mines and Protected areas	Gir National Park	79.0 km	Gir Wildlife Sanctuary	47.6 km	Mitiyala Wildlife Sanctuary	46.7 km
	Limestone mines and Protected areas									
Gir National Park	79.0 km									
Gir Wildlife Sanctuary	47.6 km									
Mitiyala Wildlife Sanctuary	46.7 km									
Coastal Regulation Zone (CRZ)	No	The Project Proponent has submitted the letter from the Government of Gujarat, Forest and Environment Dept vide Lr no.ENV-10-2023-170-T dated 19.07.2023 stating that the proposed project of mining at Padhiarka & Doliya mine lease (333.24 ha), District Bhavnagar is outside CRZ area.								
Schedule-I species (No.s and name of schedule-I species with authenticated letter)	Yes	<p>The Project Proponent has submitted the authenticated list of flora and fauna from the Office of the Deputy Forest Conservator vide Lr.No: A/Jaman/Te.11/2302/ 17-18 dated 05.02.2018 stating that there are three Schedule-I species such as Peafowl, Chinkara and Asiatic lion in the study area.</p> <p>After the amendment of the Wild Life (Protection) Amendment Act, 2022, No 18 of 2022, a number of additional species have been added into Schedule I such as Leopard, Striped hyaena, Jackal, Bengal fox, Indian porcupine, Jungle cat, Grey wolf, Dog faced water snake, Russell viper,</p>								

		<p>Checked Keelback, Indian Rat snake, Red sand boa and Naag/cobra.</p> <p>Peafowl, Chinkara and Asiatic lion & as per Wildlife Protection Amendment Act, 2022, schedule-I species have been updated in WLCP.</p>
Wildlife Conservation Plan	Yes	<p>On the basis of the fauna study findings & list of fauna authenticated by Forest Department, Wildlife Conservation Plan was prepared and submitted for approval. The said Wildlife Conservation Plan had been approved by the Forest Department on 20.12.2021. Rs. 19.9 lakh has been approved for the conservation of wildlife in the study area. As suggested by EAC & latest Wildlife Protection Amendment Act, 2022, budget allocation for WLCP has been increased from Rs.19.9 Lakh to Rs.65.9 Lakh for all 3 mines.</p> <p>The Wildlife Conservation Plan was approved by the Chief Wildlife Warden vide Lr.No: WLP/32/C670-672 dated 20.12.2021 with a budget of Rs. 19.9 Lakhs for the conservation of wildlife in the study area.</p>

x. Green belt/plantation details:

Proposed area for green belt/plantation and no. of saplings proposed	30.00 Ha.
Budget for green plant & plantation till the end of life of mine.	90.95 Lakhs
Budget for nursery	-
Details of existing plantation and its survival rate	-
No. of tree cuts in the mine lease area and compensatory afforestation	As per actual during mining
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	10.0
50 m safety zone of nallah, roads, electric lines	10.0

500 m safety zones of nearest habitation villages	-
Additional information (if any)	10.00 ha(Backfilled area (Govt. wasteland))

xi. Baseline detail:

Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)	
Period of baseline data collection	01.03.2021 to 02.06.2021
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Summer
Predominant Wind direction (From)	South
Ambient Air Quality (no. of locations) and results	16
Noise level (no. of locations) and results	16
Water Quality (no. of locations) and results	15
Soil Quality (no. of locations) and results	12
Hydro geological study and results	As per planned mining and Report of hydrogeological & hydrological studies of core and buffer zone of Gujarda, Dudheri & Dudhala limestone mine, the ground water table may get Intersected in post monsoon during 11th year at conceptual pit bottom level of +1.0 AMSL. However, conceptual pit bottom level will be kept above ground water level i.e. +4.0m AMSL to avoid intersecting ground water level.
Traffic study (no. of locations) and results	The traffic volume survey was conducted on Bhavnagar to Una Road (NH8E/51) Near Vangar Village. Total numbers of vehicles were found as 6793 per day and equivalent PCUs is 9382 per day. There will be daily movement of 480 numbers of dumpers (to & fro) per day or 1440 PCU/ day on the road. 01 location & V/C = 31.27

xii. Public Hearing (PH) Details:

Advertisement for PH with date (name of major national daily and one regional vernacular daily newspaper)	26.03.2023 in Sandesh Newspaper & Indian Express
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Date of PH	28.04.2023
Venue	At the premises of Nirma Cement Plant Area, NH 8E/51, Survey No. 80, Village: Padhiyarka, Taluka: Mahuva, Dist. Bhavnagar
Chaired by	District Collector & District Magistrate, Bhavnagar District & Regional Officer, GPCB Bhavnagar
Main issues raised during PH	Air pollution, salinity ingression, wildlife protection, acquisition of agriculture land
Budget proposed for addressing issues raised during PH over 3 years	Rs. 77 Lakhs

xiii. Details of CTE/CTO, Certified Compliance Report, Certified Production Details from the inception of the mine:

Particulars	Details of Letter along with date of grant and validity
Consent to Establish	GPCB CTE granted vide dated 25/01/2021 & valid upto 24/01/2028.
Consent to Operate	-
Certified Compliance Report and Inspection date	-
Certified Production Details from the inception of the mine (in tabular form against the EC capacity)	Fresh mine

xiv. Rehabilitation & Resettlement (R&R):

R & R details	The total mine lease area is 332.24 ha, out of which Govt. land is 133.0154 ha and Private land is 199.2246 ha. Land will be required for quarrying an area of 100.61 ha of Private land and Government land including 08 houses/hutment in Padhiarka village and 27 houses/hutment in Doliya villages. The houses/hutment fall in the conceptual pits of the mine lease. There will be total of 683 project affected land losers. There will be direct purchase or leasing of private land, with the willing consent of the private land owners. Approx. total compensation will be Rs 35.0 Lakhs. In addition to above, the registration cost of sale of the land and homesteads shall be borne by the Company. Assuming it to be 6% of the entire costs of sale, the
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	total resettlement budget works out to be Rs. 59.93 lakhs (6% of land value).
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xv. Court case details:

Court Case, No and its present status	The Project Proponent has submitted an undertaking vide letter dated 07.10.2023 stating that there is no litigation on the project either at NGT or any other court of law related to environment and pollution matters in which the project proponent is a respondent.
Undertaking by Project Proponent w.r.t court case	

xvi. Affidavit/Undertaking details:

Affidavit as per Ministry's OM dated 30.05.2018	The Project Proponent has submitted an undertaking by way of notarized Affidavit dated 09.10.2023 stating that the proposal does not involve violation of Ministry's OM dated 30.05.2018.
Undertaking by Project Proponent in EIA/EMP report	The Project Proponent has submitted an undertaking vide letter dated 04.01.2023 stating that the contents (information and data) as given by the Consultant in the EIA/EMP report are factually correct with full knowledge of the undersigned (Shri Ashish Desai).
Undertaking by Consultant in EIA/EMP report	The Director of the EIA Consultant (M/s Centre for Envotech & Management Consultancy Pvt. Ltd) has informed that the baseline data was generated by MoEF & NABL Accredited Laboratory M/s Min Mec R&D Laboratory, a division of Min Mec Consultancy Pvt. Ltd., New Delhi and the same has been verified and also confirmed that he shall be fully accountable for any misleading information mentioned in this statement.
Plagiarism Certificate	

xvii. Earlier the Proposal was considered in the 21st EAC meeting held during 18-20th October, 2023 wherein the Committee has deferred the proposal for the submission of requisite information. The Project Proponent ha submitted the relevant information on Parivesh are as follows:

S	Observation of EAC in the 21st meeting	Reply by Project Proponent
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No	held during 18-20th October, 2023	
1.	The site visit report of the subcommittee.	Site visit has been conducted by subcommittee on 22nd - 25th December, 2023.
2.	Since the mine site is located within 20 km from seaboard frontier, the Project Proponent shall submit No Objection Certificate from Ministry of Defense for consideration of the instant project.	<p>Project Proponent has submitted a letter for issuance of NoC/Clearance from Ministry of Defence vide application dated 10.11.2023.</p> <p>We also have submitted letter to Department of Geology & Mining, Govt.of Gujarat, Bhavnagar for recommendation to issue NOC to Ministry of Defense, Govt.of India vide application dated 07.12.2023.</p> <p>As per our understanding, there is no clarity or guideline in respect of process to be followed to obtain NoC of Ministry of Defense(MoD), therefore, our humble request is that issue the EC without condition of obtaining NOC from MoD.</p>
3.	The Project Proponent needs to submit the action for laying common Over Land Belt Conveyor (OLBC) for transportati	<p>The mine is captive mine to proposed cement plant at Mahuva and Highgrade limestone to be used in company's own existing Soda Ash plant located at Kalatalav, Bhavnagar as per permission accorded by the Govt. of Gujarat vide letter dated: 17.08.2023.</p> <p>The cement plant is adjoining to the mine lease while the Soda ash plant is located around 100 km away and accessed through National Highway.</p>

<p>on of mineral from mine lease area to the Cement Plant. The Project Proponent also needs to submit the action plan for expansion of road with a width of 7m and by passing the village road till the commission of the Over Land Belt Conveyor (OLBC).</p>	<p>Establishment of cement plant may take some time as the appeal is pending before Hon'ble Supreme Court while the soda ash plant is already operational.</p> <p>Hence, till the commencement of proposed cement plant, maximum 5% i.e. 450 TPD chemical grade limestone will be transported through dumpers @18 trips per day via existing village road of 7 m (out of which 4 m is black topped) to National Highway and ultimately Soda Ash plant at Bhavnagar.</p> <p>Company is very much keen to establish cement plant as early as possible & will produce & consume required limestone for cement manufacturing on its highest rated capacity.</p> <p>We assure your kind authority that we will widen the black top of the existing village road from mines to National Highway prior to commencement of Proposed Cement Plant. Section plan of proposed road black top widening has been submitted to the MoEF&CC.</p> <p>Also, as discussed during the EAC meeting, we will explore the possibility of Over Land Belt Conveyor (OLBC) on either side of the highway based on the technical possibility & feasibility by reputed consultant. We are going to approach M/s. Holtec Consultants for regulatory, commercial & technical feasibility for above stated OLBC.</p>
<p>4. The Project Proponent needs to explore the possibility of laying over bridge over the Highway and shall submit the permission from the National Highways</p>	<p>Since, the National Highway is under construction, we have submitted letter to National Highway Authorities of India(NHAI) regarding grant of permission to provide Underpass near our cement plant entry point or any other option suggested by NHAI for transportation of raw material & finished product. Acknowledgment dated 23.10.2023 has been submitted.</p>

	Authority of India (NHAI).	
5.	The Project Proponent needs to submit the protection measures to be taken for salt water intrusion and the effectiveness of the salinity ingress control bund.	<p>Samdhiyala Salinity Ingress Control bund (Samdhiyala bund) was constructed by Government of Gujarat in the year 2000 on Motpet Creek to prevent sea water from coming towards landward side. On the landward side, rain water gets accumulated as well.</p> <p>Presently, the accumulated rain water of Samdhiyala bund is being used during post monsoon by adjoining agriculture land owners and in other seasons they are extracting ground water through borewell. For agriculture land which is away from Samdhiyala bund, farmers are extracting ground water through borewell for agriculture due to which salinity & TDS are increasing in ground water.</p> <p>As per company's water management strategy, after commencement of cement plant, company will undertake deepening of 100 ha surrendered land out of our total allotted plant land and also pledged to construct garland drains around the proposed plant area which will improve the overall fresh water storage capacity of Samdhiyala bund on landward side. Regular desiltation of canal will improve water retention capacity of Samdhiyala bund.</p> <p>At the time of mining, bottom level of conceptual pit will be kept above ground water level to avoid intersection.</p> <p>Hydrogeological monitoring network will be established by constructing piezometers in and around the lease.</p> <p>During mining, present hydrological system will keep intact by constructing garland drain around the pits to maintain present hydraulic gradient towards the Samdhiyala Bund.</p> <p>After exhaustion of mineral, voids left will act as natural water harvesting structures. Collected rain water will stand and gradually percolate into the sub surface water & in long term improve the quality of ground water.</p>

		<p>Positive pressure of fresh water on landward side will be created, which will aid in pushing back the saline front, which may be at a lower elevation.</p> <p>In view of the above, due to mining there is no possibility of salt water intrusion in the area & effectiveness of the salinity ingress control bund as well as hydrogeological system of bund will not be disturbed & infact will significantly improve the effectiveness of salinity ingress control bund.</p>
6.	<p>The Project Proponent needs to submit the site specific mitigation measures for backwaters from Arabian Sea coming into the mine lease area.</p>	<p>In this regard, following site specific mitigation measures will be taken:</p> <p>Arabian Sea is situated at distance of more than 0.5 km in the south of the said mine lease and is clearly outside the CRZ area which is certified by GCZMA. Letter dated 19.07.2023 has been issued to M/s Nirma Ltd. from GCZMA.</p> <p>There was only one probability of sea water coming to mine lease area which is through Motpet Creek. Samdhiyala Salinity ingress bund has been constructed on Motpet Creek to restrict backwater coming from Arabian sea towards landward side. Therefore, there is no possibility of backwater from Arabian sea to come to mine lease area.</p> <p>Hydrogeological monitoring network will be established by constructing piezometers in and around the lease to monitor the water level & water salinity.</p> <p>Positive pressure of fresh water on landward site will be created due to water storage in mine pits, which will aid in pushing back the saline front as well.</p>
7.	<p>The Project Proponent needs to revisit the plan for backfilling with clearly indicating the voids area and the capacity available/required for backfilling.</p>	<p>The Indian Bureau of Mines, Govt. of India, Gandhinagar has approved the Mining Plan vide its letter dated: 05.08.2021 for the period of 5 years i.e. up to 2025-26.</p> <p>As per approved Mining Plan, Removal of soil and its disposal as below.</p> <p>Year: FY 2021-22 to FY 2025-26</p> <p>Removal of soil(cum):249806</p> <p>Means of disposal: *Temporary stacking at one location near Proposed Pit no.1.</p>

		<p>Then, temporary stacked soil will be shifted for Backfilling of shallow pits of around 4.0 m depth (Proposed Pit No. 6) after five year mine plan period. A map has been submitted.</p> <p>Area covered under stacking (ha): 6.20</p> <p>Year: FY 2026-27 to FY 2031-32</p> <p>Removal of soil(cum):321894</p> <p>Means of disposal: *Temporary stacking at one location till 2026-27 and then, temporary stacked soil will be shifted for Backfilling.</p> <p>Simultaneously Utilized for Back filling of shallow pits of around 4.0 m depth Proposed Pit No. 6.</p> <p>Then, temporary stacked soil will be shifted for Backfilling of shallow pits of around 4.0 m depth (Proposed Pit No. 6) after five year mine plan period. A map has been submitted.</p> <p>Area covered under stacking (ha):Nil</p> <p>Total</p> <p>Removal of soil(cum): 571200</p> <p>Area covered under stacking (ha): nil</p> <p>Looking towards availability of topsoil, backfilling of part area is envisaged.</p> <p>Total voids area envisaged till conceptual period = 114.24 ha</p> <p>Total soil removal envisaged till conceptual period = 0.57 million cum</p> <p>(114.24 Ha *0.5 m avg. soil thickness)</p>
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		<p>Total backfilling area envisaged till conceptual period = 15.66 ha</p> <p>Ultimate Dimensions of Pits at the end of conceptual period</p> <p>Pit No.: 1</p> <p>Pit Area covered (ha):49.56</p> <p>Pit Top (m AMSL):20 to 14</p> <p>Pit bottom (m AMSL): 10</p> <p>Pit Depth in in m: 10 to 4</p> <p>Pit Area covered by backfilling(ha): No backfilling proposal</p> <p>Pit No.: 2</p> <p>Pit Area covered (ha):12.78</p> <p>Pit Top (m AMSL):13 to 11</p> <p>Pit bottom (m AMSL): 8</p> <p>Pit Depth in in m: 5 to 3</p> <p>Pit Area covered by backfilling(ha): No backfilling proposal</p> <p>Pit No.: 3</p> <p>Pit Area covered (ha):14.40</p> <p>Pit Top (m AMSL):13 to 11</p> <p>Pit bottom (m AMSL): 6</p> <p>Pit Depth in in m: 7 to 5</p> <p>Pit Area covered by backfilling(ha): No backfilling proposal</p> <p>Pit No.: 4</p> <p>Pit Area covered (ha):17.51</p> <p>Pit Top (m AMSL):17 to 12</p>
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		<p>Pit bottom (m AMSL):11</p> <p>Pit Depth in in m: 6 to 1</p> <p>Pit Area covered by backfilling(ha): No backfilling proposal</p> <p>Pit No.: 5</p> <p>Pit Area covered (ha):4.33</p> <p>Pit Top (m AMSL):15 to 13</p> <p>Pit bottom (m AMSL):6</p> <p>Pit Depth in in m: 9 to 7</p> <p>Pit Area covered by backfilling(ha): No backfilling proposal</p> <p>Pit No.: 6</p> <p>Pit Area covered (ha):15.66</p> <p>Pit Top (m AMSL):10.5 to 4</p> <p>Pit bottom (m AMSL):4</p> <p>Pit Depth in in m: 6.5 to 0</p> <p>Pit Area covered by backfilling(ha): Backfilling of pit area of 15.66 Ha for entire depth – 570000 cu.m</p> <p>Total</p> <p>Pit Area covered (ha): 114.24</p> <p>Pit Area covered by backfilling(ha): 15.66 Ha (570000cu.m)</p>
8.	The Project Proponent needs to revise the activities proposed under the Wildlife Conservation Plan. The	As advised, revised wildlife conservation plan incorporating the Schedule-I species as per the latest Wildlife Protection Amendment Act, 2022 has been submitted.

	<p>Project Proponent also needs to ensure that the Schedule-I species as per the latest Wildlife Protection Amendment Act, 2022 shall also be included in the Wildlife Conservation Plan for their conservation.</p>	
<p>9.</p>	<p>The EAC was of the view that the compensation rate is very less and asked the Project proponent to revisit and justify the budget proposed for Resettlement & Rehabilitation (R&R). The Project</p>	<p>Type of land: Private Land rate, Rs. Lakh/ ha: 13.00 * Land requirement, ha: 100.22 Total Amount Rs. lakhs: 1302.86</p> <p>Type of land: Government Land rate, Rs. Lakh/ ha: On mining lease Land requirement, ha: 14.02 Total Amount Rs. lakhs: _</p> <p>Total Land requirement, ha: 114.24</p>

<p>Proponent also needs to submit the action plan for land acquisition and timeline.</p>	<p>Total Amount Rs. lakhs:1302.86</p> <p>Total amount given considering as per DLC rate. However, land will be procured/get consent for mining purpose on mutual agreed market rates.</p> <p>Total amount given considering as per DLC rate. However, land will be procured/get consent for mining purpose on mutual agreed market rates.</p> <p>Type of homestead:Pucca Rate, Rs. /sq.m.: 10000 Approx. Homestead area**, sq.m.:360 Total compensation, Rs. lakhs: 36</p> <p>Type of homestead:Semi pucca Rate, Rs. /sq.m.: 5000 Approx. Homestead area**, sq.m.:360 Total compensation, Rs. lakhs: 36</p> <p>Type of homestead:Kutchra Rate, Rs. /sq.m.: 2000 Approx. Homestead area**, sq.m.:360 Total compensation, Rs. lakhs: 36</p> <p>Total Approx. Homestead area**, sq.m.: 360 Total compensation, Rs. lakhs: 36</p> <p>Company will consider homestead losers falling in proposed mine area on actual basis at the time of starting of mining</p>
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		<p>activity and such homestead losers shall be compensated on mutually agreed commercial terms.</p> <p>Since the land owners as well as homestead owners shall be compensated on commercial terms, therefore, they will have better economic strength to rehabilitate or reinvest the compensation amount. Hence, no separate R & R plan is envisaged.</p> <p>Action plan for land acquisition and timeline is as below:</p> <p>Sr. No: 1</p> <p>Timeline for land requirement(present)</p> <p>Sr. No.:1.1</p> <p>Timeline for land requirement(present): purchased</p> <p>Pvt. Land:49.49</p> <p>Govt. land:0</p> <p>Total: 49.49</p> <p>Sr. No.:1.2</p> <p>Timeline for land requirement(present): Consented</p> <p>Pvt. Land:25.67</p> <p>Govt. land:0</p> <p>Total: 25.67</p> <p>Sr. No.:1.3</p> <p>Timeline for land requirement(present): Leased</p> <p>Pvt. Land:0</p> <p>Govt. land:115.67</p> <p>Total: 115.67</p>
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		<p>Sr. No: 2</p> <p>Timeline for land requirement(Future)</p> <p>Sr. No.:2.1</p> <p>Timeline for land requirement(present): 1st to 5th year mining</p> <p>Pvt. Land: 54.21</p> <p>Govt. land:0.02</p> <p>Total: 54.23</p> <p>Sr. No.:2.2</p> <p>Timeline for land requirement(present):6th year to Conceptual stage -11th year</p> <p>Pvt. Land: 102.70</p> <p>Govt. land:14.04</p> <p>Total: 116.74</p> <p>Sr. No.:2.3</p> <p>Timeline for land requirement(present):Minelife (up to lease period)</p> <p>Pvt. Land: 565.94</p> <p>Govt. land:115.67</p> <p>Total: 681.62</p> <p>Mining lease deed has already been executed for said mining lease so mining can be started in Govt. lease land. As far as private land is concerned, company has obtained surface rights for mining by purchasing land/consent in some of the land & for remaining land, company is in process to procure ownership or surface right for mining on mutually agreed commercial terms. We hereby assure that company will obtain surface rights of the</p>
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		land before entry in pvt. land for starting mining activity in the mining lease area.
10	The Project Proponent needs to submit the action plan for year wise exploration program.	<p>The Indian Bureau of Mines, Govt. of India, Gandhinagar has approved the Mining Plan vide its letter dated: 05.08.2021 for the period of 5 years i.e. up to 2025-26.</p> <p>Looking towards the systematic exploration of the entire area, 182 nos. of Core Bore Holes has been proposed in the area in order to bring the ML area within G1 stage in accordance with MEMC Rules 2015 and MCDR 2017 as per approved mining plan.</p> <p>The deposit is sedimentary origin and simple in nature, therefore boreholes are kept at an interval of 200m grid pattern. A total of 182 number of Core Boreholes are proposed up to a level of +1.0 MRL . Initially BH drilling shall be at an interval of 400m. If limestone potentiality proves, then further BH can be done closely at 200m interval. All proposed BH shall be drilled vertically. The exploration shall be carried out in five years of working i.e. year 2021-22 to 2025-26. Exploration shall be carried out as shown in table to bring BH at 200m interval.</p> <p>Program of Future Exploration</p> <p>YEAR:2021-22 to 2025-26</p> <p>No. of BH: PBH-1,3,10,12,14,16,28, 31,33,35,54,56,58,75,77</p> <p>Grid Interval:400 m</p> <p>Total Meterage: Up to +1.0 MRL</p> <p>YEAR:2021-22 to 2025-26</p> <p>No. of BH: PBH-37,41,43,61,66,79, 81,83,96,100,115,117,119,121,143,141,139,137,135,133,167,165,163,169,171,173,179,181</p>

		<p>Grid Interval:400 m</p> <p>Total Meterage: _</p> <p>YEAR:2021-22 to 2025-26</p> <p>No. of BH:</p> <p>PBH-2,4,5,6,7,8,9,11,13, 15,17,24,25,26</p> <p>Grid Interval:200 m</p> <p>Total Meterage: _</p> <p>YEAR:2021-22 to 2025-26</p> <p>No. of BH:</p> <p>PBH-18,19,20,21,22,23, 27,29,30,32,34,36,38,39,40,42,44-55,57,59,60,62-65,67,71-74,76,93,94</p> <p>Grid Interval:200 m</p> <p>Total Meterage: _</p> <p>YEAR:2021-22 to 2025-26</p> <p>No. of BH:</p> <p>PBH-68-70,82,84,78,80, 85-92,95,97-99,101-116, 118,120,122,123,124-127</p> <p>Grid Interval:200 m</p> <p>Total Meterage: _</p> <p>YEAR:2021-22 to 2025-26</p> <p>No. of BH:</p> <p>PBH-128-132,134,136,138, 140,142,144,162,164,166,168,170,172,174-178,180,182</p> <p>Grid Interval:200m or below</p> <p>Total Meterage: _</p>
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		<p>YEAR:2021-22 to 2025-26</p> <p>No. of BH:</p> <p>EP-1 & EP-2 size 3m*3m</p> <p>Grid Interval: _</p> <p>Total Meterage: up to level +1.0mRL</p> <p>The exploration shall be started as soon as mining work is started on grant of EC and try to accomplish within shorter period if conditions are favorable.</p> <p>The location of Proposed BH is depicted in Surface Geological plan of the approved mine plan and given in EIA report in figure no. C 2-2 in Chapter 2.</p>
1 1	<p>The Project Proponent needs to submit the copy of the permission letter obtained from the State Govt. for utilization of Chemical Grade of Limestone for non-cement purposes.</p>	<p>Permission accorded by the Govt. of Gujarat vide order dated: 17.08.2023 for utilization of Chemical Grade of Limestone for non-cement purposes has been submitted.</p>
1 2	<p>The Project Proponent needs to submit a letter from the</p>	<p>The company has not carried out any mining within the lease area much less any illegal mining in the lease area. There are old pits pre-dating the allotment of the lease to the company, which were received in legacy and shown in the present surface geological plan. Request letter in this regard has been submitted to Department of Geology and Mining, Government of Gujarat on</p>

	<p>Department of Geology and Mining, Government of Gujarat clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s. Nirma Limited or not?</p>	<p>03.11.2023. Acknowledgement of the same has been submitted by the Project Proponent.</p>
<p>Site Visit Recommendation Reply by project proponent</p>		
<p>1</p>	<p>PP should submit an action plan and timeline to indicate the purchase of lands across all three mining leases wherein it has proposed mining pits to initiate</p>	<p>Action plan and Timeline indicating the purchase /obtain surface rights of land for mining for all three mining leases to initiate mining activities has been submitted by the Project Proponent.</p>

	<p>mining activities since as on date PP has only purchased / obtained surface rights over 101.1967 Ha out of 1351.6489 of Private Agriculture Land.</p>	
<p>2</p>	<p>Since PP envisages to handover the land with shallow quarry having depth upto 4m to landowners for farming and mostly all three mining leases are having agricultural land.</p> <p>PP is requested to conduct a survey to indicate the present status and number of low-lying areas, their</p>	<p>In said mine, survey has been conducted & one pit i.e. Pit No. 6 (Pit area -15.66 Ha) will have shallow depth pit and will be backfilled for entire depth of pits, looking to availability of soil for backfilling</p> <ul style="list-style-type: none"> • Pit no. 6 -15.66 Ha Pit area of avg. 3.25 m bgl for entire depth. <p>Action plan for backfilling of shallow depth pits of depth up to 4.0 m and handing over to farmers for agriculture has been submitted by the Project Proponent.</p>

	<p>respective which may be backfilled with available capacity of top soil/overburden and can be handed over to farmers for agricultural purpose.</p>	
3	<p>Project Proponent needs to provide year wise exploration plan for all the three mining leases.</p>	<p>Exploration plan of said mining lease has been submitted by the Project Proponent.</p>
4	<p>Since, Bhavnagar falls under severely Polluted Area category, PP shall ensure that during initiation phase itself they should include the provision of permanent water</p>	<p>Chitra Industrial area (severely polluted area) in Bhavnagar city is located around 100 km away from our said mining lease area.</p> <p>On initial stage, company will engage water tanker with sprinkler arrangement to suppress the dust on haul road and company will make provision of permanent water sprinklers across the haul roads in all three mining leases.</p>

	sprinklers across the haul roads in all three mining leases.	
5.	Since, Bellur and other schools are in close proximity to mine lease area, PP shall ensure that necessary safety measures are taken as per DGMS norms for all three mining leases.	Company will ensure to maintain require safety measures & distance from Bellur School & other schools as per DGMS norms for all three mining leases during mining.
6.	PP shall ensure to construct bunds near the existing low lying areas that has developed into wetland to prevent the ingress of sea water in Padhiyarka and Doliya Limestone	<p>The low lying area is where the rain water accumulates temporarily during monsoon. These are not notified as wetlands either under Ramsar Convention or by Central Govt. or State Govt. Hence, the identifications and provisions under Wetlands (conservation and Management) Rules, 2017 do not apply in this case as per clause 3 of aforesaid Rules.</p> <p>Moreover, Padhiyarka and Doliya Limestone Mine lease area and Gujarada, Dudheri & Dudhala limestone mine lease area are located at a distance of more than 500 m from High Tide Line of sea & also this area (between sea and low lying area in our mining lease area) have higher altitude, therefore, there is no chance of sea water ingress in mining lease area.</p> <p>However, company will construct bunds as and when required.</p>

	<p>Mine lease area and Gujarada, Dudheri & Dudhala limestone mine lease area.</p>	
<p>7.</p>	<p>The project Proponent needs to submit the integrated management plan describing the strategies and actions for achieving wise use of the wetland and the plan shall include objectives of the site management, management actions required to achieve the objectives, factors that affects, or may affect, the various site features, monitoring requirement</p>	<p>There is no Ramsar convention/ Central or State Government notified wetland in and nearby our mining lease area. The water bodies such as river channels and human-made water bodies (such as submergence areas of Samdhiyala Bandahara, Malan Bandhara) are excluded from the definition of wetlands as per Wetlands (Conservation and Management) Rules, 2017.</p> <p>There are low lying areas, in which rain water accumulates temporarily during monsoon. Mining activity will contribute towards enlarging & deepening such areas in pit no. 2 & 3 of Padhiaryka & Doliya Mine and pit no. 5 & 6 of Gujarada, Dudheri & Dudhala making a positive contribution to fresh water storage. The company does not intend to have any other use for these low lying areas.</p> <p>As part of the integrated management plan for protection of water logged areas in and around the project, following steps shall be undertaken:</p> <ul style="list-style-type: none"> ● Company will not do mining below 2 m AMSL in this low lying area so that there is no salinity ingress due to mining activity. ● Piezometer will be installed at designated locations to monitor changes in ground water level. ● Other allied activities such as transportation will be carried out by maintaining safety distance from this low lying area ● In this area of Gujarat, water logging due to rain water is a common phenomenon and resident water birds take advantage of such seasonal water logging to feed. Hence, company has proposed several measures as part of the wildlife conservation plan, with 3-year budget, as follows: ● Supporting 3 local NGOs for Conservation Awareness activities (Rs. 18 lakhs)

	<p>s for detecting changes in ecological character and for measuring the effectiveness of management, and resources for management implementation.</p>	<ul style="list-style-type: none"> ● Provision for Rapid Rescue Vehicle for Wildlife (Rs. 10 lakhs) ● Assisting Plantation activities to be carried out by Forest Department, Bhavnagar (Rs. 1.5 lakhs) ● Nature/Eco-tourism guide & hospitality training 20 persons (Rs. 2.5 lakhs) ● Provision of equipments, camera, binoculars for efficient monitoring and eco-tourism promotion (Rs. 7.5 lakhs) ● Maintenance of shallow ponds/rainwater harvesting structures (Rs. 3 lakhs) ● Van Sahayak 1 nos. on contract basis (Rs. 3.6 lakhs) ● Public education and awareness programmes for the following - Avoiding plastic, Recycle and reuse, Reduce usage of pesticide and weedicide, Conservation of Wildlife, Garbage control (Rs. 3 lakhs) <p>Six-monthly third-party WLCP monitoring report preparation (Rs. 1.25 lakhs)</p>
8.	<p>PP needs to engage and impart skill among the villagers and local population mainly the land losers and also submit a plan for their alternate livelihood arrangement since most of them will be losing their fertile lands.</p>	<p>Company will not acquire any agriculture land through land acquisition by Govt. or without willingness of land owner and will purchase / obtain surface rights for mining on market commercial negotiated rates.</p> <p>Land owners may purchase agriculture land in nearby area in the amount which is to be paid to them against their land and can continue their livelihood.</p> <p>Company will give priority to engage land owners who have given land for mining purposes as per requirement of manpower for mines.</p> <p>Also, company will arrange to impart training to build capacity for self-employment [stitching, embroidery, tailoring, pickles, dairy improvement, poultry farming, etc.] to land losers and will facilitate vocational training along with skill development for getting better job opportunities (Budget Rs. 3 lakhs/year).</p>

9.	PP should widen the existing village roads before using it for transportation in all three mining leases, wherever widening is not possible, PP shall submit an action plan for making alternate roads.	<p>On initial stage, company has proposed to mine out limestone for Soda ash plant in lower capacity and company will use existing village road for transportation of limestone by maintaining the existing village road as number of trips of truck / dumpers will be very less i.e. around 18 numbers of trips/day maximum in this mine.</p> <p>Company will widen the existing village road or make alternate road in all three mining leases on installation of cement plant. Section plan of the road widening has been submitted by the Project Proponent.</p>
10	PP should engage wildlife experts/ avian experts for conservation of the avian fauna within and near its mine lease.	Company has already engaged wildlife expert / avian expert for conservation of the avian fauna within and near its mine lease.
11	PP shall plant native fruit bearing plants across all the proposed	Native fruit bearing plants will be planted across all the proposed green patches.

	green patches.	
1 2	PP shall put boundary pillars across all mining leases.	Company had erected boundary pillars at the time of lease deed execution and got authentication of all boundary pillars coordinates through the DILR / State Govt. and provided in the approved mining plan for all three mining leases. Some pillars have been dislodged/ removed by local people. Company will put such boundary pillars again prior to commencement of mine so that they can be maintained.
1 3	The project proponent needs to submit a letter from the Department of Geology & Mining, Govt. of Gujarat, clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s Nirma Limited or not?	<p>The company has not carried out any illegal mining in the lease area and request letter to provide required certificate regarding no mining carried out by company or others has been submitted to the District Geologist, Department of Geology and Mining, Government of Gujarat, Bhavnagar vide letter dated: 01.11.2023. In turn, the District Geologist, Bhavnagar has submitted his report to the Commissioner of Geology & Mining, Govt. of Gujarat, Gandhinagar vide its letter dated: 01.02.2024 to communicate the same to MoEF and copy endorsed to us. As per his report, No case of Illegal mining of limestone mineral has been registered within the mining lease area against the company M/s Nirma Limited or against any other individual or entity.</p> <p>Copy of our submitted letter dated: 01.11.2023 and copy of report of the District, Geologist, Geology & Mining Dep't, Bhavnagar dated 01.02.2024 has been submitted by the Project Proponent.</p>
1 4	PP needs to submit plan to transport crushed	The mine is captive mine to proposed cement plant at Padhiarka, Mahuva and High grade limestone to be used in company's own existing Soda Ash plant located as Kalatalav, Bhavnagar.

	limestone from all the three leases to plant.	<p>The cement plant is adjoining to the mine lease while the Soda ash plant is located around 100 km away and accessed through National Highway.</p> <p>Establishment of cement plant may take some time while the soda ash plant is already operational.</p> <p>Hence, till the commencement of proposed cement plant, maximum 5% i.e. 450 TPD limestone will be transported to Soda ash plant located near Bhavnagar through dumpers @18 trips per day. The trucks will pass through existing Dudhala - Amrutvel village road of 7 m width (out of which 4 m is black topped) for around 1.0 km and meet National Highway no. 51, from where the truck will move around 100 km.</p>
15	PP needs to take some measures to keep the migration bird ponds un harmed and protected by activity of mining in future.	<p>Migratory birds are seen in Malan Bandhara as well as other nearby Bandhara areas, which areas located at distance of 1.5 km and 4.5 km from our mining lease area, respectively.</p> <p>Birds are also seen in low lying area, in which rain water accumulates temporarily during monsoon. However, they are pre-dominantly resident water birds.</p> <p>The company is committed to the measures proposed in the site specific wildlife conservation plan (summarised in point 7 earlier), which include points related to protection of shallow ponds, ecology and birds.</p> <p>The company will mine above 2m AMSL in low lying areas to maintain the fresh water nature of the water in it. The enlarging of the low lying area in pit no. 2 & 3 of Padhiaryka & Doliya Mine and pit no. 5 & 6 of Gujarda, Dudheri & Dudhala will provide more area to birds. Also company will ensure that transportation will be carried out by maintaining safety distance from low lying areas.</p>
16	PP needs to install water treatment plant to reduce the hardness of water.	<p>Drinking water is provided in every nearby villages through Narmada water pipeline by the State Govt. and drinking water requirements for mines shall also be fulfilled through Narmada water pipe line which is passing through nearby area. Hence, presently there is no proposal to use the hard ground water. However, if any requirement sought in future we will provide treatment plant.</p>
17	PP needs to explore possibility of deploying surface	<p>Company has proposed mining with surface miner (50% quantity) in IBM approved mine plan and also in EIA report. Company explored use of Ripper dozer for cement plant use to eliminate drilling & blasting in the remaining 50% and committed the same in point no. 3, Specific Terms of Reference received from</p>

miners for mining.	MOEF&CC vide Letter no. J-11015/154/2016-IA. II(M) dated November 28, 2022. For soda ash plant, we need sized limestone i.e. 25 mm to 100 mm, so surface miner cannot be deployed for limestone mining for Soda ash plant use. However, company will deploy rock breaker to avoid blasting during mining.
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xi. Details of the Environmental Management Plan (EMP):

Activities	Capital cost (Crores)	Recurring cost (Lakhs/annum)
Pollution Control	0.291	10.12
Pollution monitoring	0.016	3.88
Occupational health	0.014	0.95
Environmental Studies, etc.	0.10	–
Green belt	–	5.10
Reclamation	–	10.03
Others (Environmental studies, Rehabilitation, Realignment, Expert advice, fencing etc.	–	5.48
Overheads	–	0.32
Total	0.421	35.87

xii. Details of project cost and employment:

Particulars	(Rs. In Crore)
Total cost of EMP (Capital Cost of EMP + capital cost of Public hearing)	1.19
Project Cost	25
Employment (No.s)	84

3. Observation and Recommendation of the EAC

The EAC deliberated the instant proposal along with Vangar & Madhiya Limestone Mine and Gujarda, Dudheri & Dudhala Limestone Mine. The Project Proponent presented its reply to the ADS points raised vide minutes of the 21stEAC as well as the recommendation of the sub-committee. After detailed deliberations, EAC **deferred** the proposal for the want of following information:-

- I. The Proponent shall submit No Objection Certificate from Ministry of Defence for consideration of the instant project.
- II. PP needs to undertake a study to showcase the probable impact of mining on migratory bird species and their fly-way passage (Central Asian Flyway). Accordingly, PP shall submit the revised conservation plan for the migratory bird species.

- III. The Project Proponent needs to undertake a study and submit the action for laying common Over Land Belt Conveyor(OLBC) for transportation of mineral from mine lease area to the proposed Cement Plant.
- IV. The project proponent needs to submit a letter from the Commissioner of Geology & Mining, Govt. of Gujarat, clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s Nirma Limited or not?
- V. PP submitted that National Highway is under construction, and they have submitted letter to National Highway Authorities of India(NHAI) regarding grant of permission to provide Underpass near their proposed cement plant entry. Accordingly, PP needs to submit the permission letter for the underpass.
- VI. The Project Proponent needs to carry out study by reputed institute to ascertain hardness of strata for deployment of surface miners for mining.
- VII. The Project Proponent needs to submit time line for acquiring land from the villegers.

1.5 Vangar & Madhiya Limestone Mine for mining of Limestone with production capacity of 1.6 MTPA in the mine lease area of 612.1336 ha by M/s Nirma Limited located at Villages Vangar & Madhiya, Tehsil Mahuva, District Bhavnagar (Gujarat) – Reconsideration for Environmental Clearance reg[Online Proposal No: IA/GJ/MIN/443498/2023; F.No: J-11015/152/2016-IA.II(M)][EIA Consultant - M/s Centre for Envotech and Management Consultancy Pvt. Ltd]

The proposal is for Environmental Clearance for mining of Limestone in Vangar & Madhiya Limestone Mine of M/s Limited for mining of Limestone with production capacity of 1.6 MTPA in the mine lease area of 612.1336 ha, located at Villages Vangar & Madhiya, Tehsil Mahuva, District Bhavnagar (Gujarat).

2. The details of the project as ascertained from the document submitted by the Project Proponent and revealed from the discussions held during the meeting are given as under:

- i. The mine lease area is located between Latitude 21°01'44.54" to 21° 03' 40.04" N and Longitude 71°39'18.3"E to 71°41'05"E. The mine lease area falls under the Survey of India Toposheet No: 41 O/12 (restricted)and falls in Seismic Zone-III.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.
- iii. Details of Terms of Reference (ToR):

Date of application	Proposal No/ File No	Consideration by EAC	Details of ToR	Date of accord
18.11.2022	IA/GJ/MIN/403568/2022	06.12.2022	Letter no. J-11015/152/2016-IA.II (M)	23 rd December, 2022

iv. Details of Mine Lease in chronological manner:

S.no	Prospecting License/ Letter of Intent (LoI)/ Grant of Mine lease and Lr No	Date of the grant	Name of the Mineral & (Major/ Minor)	Period of Grant	Granted by	Mine lease area in Ha
1	MCR-102004-1827-CHH	15.02.2008	Limestone	30 years	IMD, Government of Gujarat	1225.8553
2	MCR-102004-1827-CHH	08.01.2017	Limestone	50 years	IMD, Government of Gujarat	612.1336

S. No	Details of grant of Mine Lease deed execution	Period of Grant		Name of the Mineral	Mine lease area in Ha
		From	To		
1	MCR-102004-1827-CHH	11.01.2017	10.01.2067	Limestone	612.1336

v. Land Use/Land Cover of the Mine Lease Area:

Private land	586.4789
Government land	25.6547
Forest land	-
Total Mining lease area (MLA), ha	612.1336
Private land for crusher, workshop & other infrastructure outside the MLA	No any facilities outside the ML area. However crusher will be installed at company's Cement Plant.
Additional information (if any)	

vi. Mining plan details:

Mining Plan including Progressive Mine Closure Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	File No.: 684(4)(1)/MP-347(196)/2021-22 GNR/1125
	Date	05.08.2021
	Mineral & (Major/Minor)	Major

	Mine Lease Area, Ha	612.1336
	Validity	31.03.2026
Mining Parameters	Quantitative Description	
Method of Mining	Opencast mechanized	
Drilling/Blasting	Multi-row drilling and V-pattern drill holes for deep hole drilling and blasting. Slurry explosive- cap sensitive and non-cap sensitive.	
Geological Reserves	35.539 Million tonne	
Mineable Reserves	14.913 million tonnes	
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/ Waste, MTPA)	Top soil- 0.99 million cum OB/SB/IB/Mineral Rejects- Nil Waste- Nil	
Life of mine	13 years (Life of mine may be increased subject to conversions of resources under 333 category into category of reserves 111)	
Mine Bench Height & Bench Width	6.0 m, for working bench 12-15 m for closing (conceptual) bench Optimum	
No. of Mine Benches	2	
Existing Depth, m bgl	New mine	
Ultimate Depth of Mining, m bgl	10 m	
Ground Water Table, m bgl	15 m (Post monsoon)	
Details of ground water intersection	No ground water will be encountered during planning stage i.e. in 5 years of working plan in neither pre monsoon nor post monsoon season in any of the pits. Ground water will also not intersect during mining at the end of mine life. However, the ground water table may get touched in post monsoon in pit no. 4 & 5 when the proposed conceptual pit bottom level of +1.0 m AMSL is achieved. To avoid any accidental intersection of ground water table, the Company has now decided to restrict mining depth to +2.0 m AMSL in pit no. 4 & 5.	
Individual bench slope	80-85°	
Overall pit slope	~ 45°	
Details of existing/ proposed Crusher	Proposed crusher will be installed at Cement Plant.	
Mineral Beneficiation	-	
RoM output size	-	
Transportation details including capacity of dumper/tipper, mode of transport and distance	Internal haul road from mine face to crusher and by conveyor from crusher to the Cement plant adjacent to the mine lease.	

	For the Soda Ash Plant located at approx.100 km at Kalatalav, Bhavnagar limestone will be transported in dumpers/ trucks through National Highway 51. Internal haul road from mine face to crusher means of dumper/tippers of 25 tonnes capacity.
Generation of Topsoil/OB & its Management during plan period & conceptual period	Top soil at 1 st plan period- 150000 cu.m, temporary stacking at one location Top soil at 2 nd plan period- 840000 cu.m, temporary stacking at one location Top soil at conceptual period-380000 cu.m, simultaneously backfilling
Generation of Mineral Rejects/Waste & its Management during plan period & conceptual period	Nil
Additional information(if any)	Surface miner as well as ripper/dozer & rock breaker will be used for mining to minimize drilling & blasting.

vii. Water requirement:

Total water requirement	42 KLD	Fresh water	3 KLD
		Treated water	39 KLD
Source	i. Fresh water source Narmada water pipeline/Water tanker. ii. Water harvested within mine lease during rainy season. iii. Treated water source- Reject water of RO /DM plant &Reject water of RO /DM plant (proposed at Cement plant)		
Permission for withdrawal/ intersection along with details of grant and its validity	Permission for water withdrawal from Narmada water pipeline has been taken vide letter No. GWIL/Bhavnagar/Ind.conn./1257 dated 4.06.2008.		

viii. Nearest village/town/ highway/interstate boundary/railway station/water bodies/monument/ forest

Particulars	Particular's Name	Distance & Directions
Village	Vangar	0.25 km, NW
	Madhiya	0.25 km, SE
Town	Mahuva	6.2km, ENE
Highway	NH-51 (Una-Mahuva highway)	Within

Interstate Boundary	Rajasthan	Approx.500 KM,N
Railway Station/Railway line	Amrutvel	2.0 km, N
Water Bodies	Arabian Sea Coast	3.4 km S to the HTL
	Samdiyala Salinity ingress control bund	2.3 km, SSW
	Bhambhali River	0.9 Km, W
	Malan River	7.4 KM,E
	Malan Bandhara	5.4 KM,SE
	Garasawo River	2.5 Km,NE
Forest	RF near Patwa	2.1 KM,S
	RF near Doliya	3.3 KM,SSE
	RF near Dudheri	3.9 KM,SE
	RF near Gujarda	4.3 KM,SE
	RF near Khared	6.3 KM,SE

ix. Presence of Environmentally Sensitive areas in the study area

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks	
Forest Land within the mine lease area and (if yes) status of Forest Clearance	No	The Project Proponent has submitted the letter from the Office of the Principal Chief Conservator of Forests vide Lr.No: WLP/32/C826-827/2021-22 dated 13.01.2022 regarding the map showing the location of protected areas within 10km of the Limestone mining project and the and distance of protected areas and proposed Limestone mine.	
National Park	No	Protected areas	Distance between Limestone mines and Protected areas
Wildlife Sanctuary	No		
Elephant/Tiger Reserve	No	Gir National Park	76.0 km
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area (ESA)	No	Gir Wildlife Sanctuary	44.2 km

		<table border="1"> <tr> <td>Mitiyala Wildlife Sanctuary</td> <td>43.5 km</td> </tr> </table> <p>The Project Proponent has submitted the letter from the Office of the Deputy Chief Conservator of Forest, Bhavnagar vide letter no. A/GMN/T11/2075/22-23 dated 27.01.2023 certifying that the nearest turtle rearing/breeding site is located at a distance of about 70km away from the mines.</p>	Mitiyala Wildlife Sanctuary	43.5 km
Mitiyala Wildlife Sanctuary	43.5 km			
Coastal Regulation Zone (CRZ)	Yes	<p>Arabian Sea Coast: 3.4 km S to the HTL The proposed project lies beyond distance of 0.5 km from High Tide Line of Arabian Sea Coast. The CRZ map has been prepared by Institute of Remote Sensing, Anna University, Chennai.</p> <p>ML area outside CRZ- GCZMA letter no.ENV-10-2023-170-T dated 19.07.2023</p>		
Schedule-I species (Nos. and name of schedule-I species with authenticated letter)	Yes	<p>As per WLCP approved on 20.12.2021 (3 nos.) : Peafowl, Chinkara and Asiatic lion</p> <p>Additional as per WPA amendment of 2022 (9 nos.): Indian Leopard, Striped Hyena, Jungle Cat, Indian Fox, Jackal, Indian Grey Mongoose, Indian Porcupine, Indian Grey Wolf, and Eurasian Spoonbill</p> <p>The above have been updated in WLCP.</p>		
Wildlife Conservation Plan	Yes	<p>On the basis of the fauna study findings & list of fauna authenticated by Forest Department, Wildlife Conservation Plan (WLCP) was prepared and submitted for approval. The said Wildlife Conservation Plan had been approved by the Forest Department on 20.12.2021. Rs.</p>		

		19.9 lakh had been approved for the conservation of wildlife in the study area. The WLCP has been updated w.r.t. Schedule-I species as per WPA amendment of 2022 and budget allocation has been increased to Rs.65.9 Lakh for all 3 mines.
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x. Green belt/plantation details:

Proposed area for green belt/plantation and no. of saplings proposed	26.50 Ha.
Budget for green plant & plantation till the end of life of mine.	80.35 Lakhs
Budget for nursery	-
Details of existing plantation and its survival rate	-
No. of tree cuts in the mine lease area and compensatory afforestation	As per actual during mining
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	16.50
50 m safety zone of nallah, roads, electric lines	10.00
500 m safety zones of nearest habitation villages	-

xi. Baseline detail:

Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)	
Period of baseline data collection	01.03.2021 to 02.06.2021
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Summer
Predominant Wind direction (From)	South
Ambient Air Quality (no. of locations) and results	16 Core zone (1 no.) - PM10 from 40.8 to 68.8 $\mu\text{g}/\text{m}^3$, PM2.5 from 21.7 to 37.4 $\mu\text{g}/\text{m}^3$, SO ₂ from 4.8 to 7.7 $\mu\text{g}/\text{m}^3$ and NO ₂ from 4.9 to 10.5 $\mu\text{g}/\text{m}^3$. Buffer zone (15 nos.) : PM10 from 27.6 to 71.7 $\mu\text{g}/\text{m}^3$, PM2.5 from 11.2 to 40.0 $\mu\text{g}/\text{m}^3$, SO ₂ from 2.7 to 10.2

	$\mu\text{g}/\text{m}^3$ and NO_2 from 3.6 to 14.5 $\mu\text{g}/\text{m}^3$.
Noise level (no. of locations) and results	16 Core zone: 48.95 dB(A) during day time and 41.42 dB(A) during night time Buffer zone : Between 47.57 dB(A) to 52.46 dB(A) during day time and 39.42 dB(A) to 42.89 dB(A) during night time.
Water Quality (no. of locations) and results	15 (12 ground water and 3 surface) water sampling stations were monitored within the study area. All the parameters of ground water were well within the permissible limits as per IS 10500: 2012. The surface water quality in all samples was found B to below E class. The result indicates that the maximum and minimum values of DO ranges between 5.8 to 6.3 mg/l, hardness ranged between 360 - 8300 mg/l in surface water.
Soil Quality (no. of locations) and results	12 pH ranges between 7.7 - 8.2, Potassium ranges from 157.0 - 845.0 kg/ha and Nitrogen ranges from 0.01 - 12.57 mg/kg
Hydro geological study and results	As per planned mining and Report of hydrogeological & hydrological studies of core and buffer zone of Vangar & Madhiya limestone mine, the groundwater table may get touched in post - monsoon in pit no. 4 & 5 when the proposed conceptual pit bottom level of +1.0 m AMSL is achieved. To avoid any accidental intersection of ground water table, the Company has now decided to restrict mining depth to +2.0 m AMSL in pit no. 4 & 5.
Traffic study (no. of locations) and results	The traffic volume survey was conducted on Bhavnagar to Una Road (NH8E/51) Near Vangar

	Village. Total numbers of vehicles were found as 6793 per day and equivalent PCUs is 9382 per day. There will be daily movement of 512 numbers of dumpers (to & fro) per day or 1536 PCU/ day on the road. 01 location & V/C = 31.27
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xii. Public Hearing (PH) Details:

Advertisement for PH with date (name of major national daily and one regional vernacular daily newspaper)	26.03.2023 in Sandesh Newspaper & Indian Express
Date of PH	28.04.2023
Venue	At the premises of Nirma Cement Plant Area, NH 8E/51, Survey No. 80, Village: Padhiyarka, Taluka: Mahuva, Dist. Bhavnagar
Chaired by	District Collector & District Magistrate, Bhavnagar District & Regional Officer, GPCB Bhavnagar
Main issues raised during PH	Air pollution, salinity ingress, wildlife protection, acquisition of agriculture land
Budget proposed for addressing issues raised during PH over 3 years	34 Lakhs
Additional information (if any)	-

xiii. Details of CTE/CTO, Certified Compliance Report, Certified Production Details from the inception of the mine:

Particulars	Details of Letter along with date of grant and validity
Consent to Establish	GPCB CTE granted vide dated 25/01/2021 & valid upto 24/01/2028.
Consent to Operate	-
Certified Compliance Report and Inspection date	-
Certified Production Details from the inception of the mine (in tabular form against the EC capacity)	Fresh mine

xiv. Rehabilitation & Resettlement (R&R):

R & R details	For private land, company has obtained surface rights for mining by purchasing land/consent in some of the land & for remaining land, company is in process to procure ownership or surface right for mining on mutually agreed commercial terms. Rs. 2466.88 lakhs cost envisaged for land (189.76 ha) and Rs. 48 lakhs approx. for homestead.
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xv. **Court case details:**

Court Case, No and its present status	The Project Proponent has submitted an undertaking vide letter dated 07.10.2023 stating that there is no litigation on the project either at NGT or any other court of law related to environment and pollution matters in which the project proponent is a respondent.
Undertaking by Project Proponent w.r.t court case	

xvi. **Affidavit/Undertaking details:**

Affidavit as per Ministry's OM dated 30.05.2018	The Project Proponent has submitted an undertaking by way of notarized Affidavit dated 09.10.2023 stating that the proposal does not involve violation of Ministry's OM dated 30.05.2018.
Undertaking by Project Proponent in EIA/EMP report	The Project Proponent has submitted an undertaking vide letter dated 04.01.2023 stating that the contents (information and data) as given by the Consultant in the EIA/EMP report are factually correct with full knowledge of the undersigned (Shri Ashish Desai)
Undertaking by Consultant in EIA/EMP report	The Director of the EIA Consultant (M/s Centre for Envotech & Management Consultancy Pvt. Ltd) has informed that the baseline data was generated by MoEF & NABL Accredited Laboratory M/s Min Mec R&D Laboratory, a division of Min Mec Consultancy Pvt. Ltd., New Delhi and the same has been verified and also confirmed that he shall be fully accountable for any misleading information mentioned in this statement.
Plagiarism Certificate	

xvii. Earlier the Proposal was considered in the 21st EAC meeting held during 18-20th October, 2024 wherein the Committee has deferred the proposal for the

submission of requisite information. The Project Proponent has submitted the relevant information on Parivesh as follows:

S. No	Observation of EAC in the 21st meeting held during 18-20th October, 2023	Reply by Project Proponent
1.	The site visit report of the subcommittee.	Site visit has been conducted by subcommittee on 22nd -25th December, 2023.
2.	Since the mine site is located within 20 km from seaboard frontier, the Project Proponent shall submit No Objection Certificate from Ministry of Defense for consideration of the instant project.	<ul style="list-style-type: none"> • We have submitted letter via registered post to Ministry of Defense, New Delhi, Govt. of India for issuance of NOC in this regard. Copy of the same is attached on Parivesh Portal. • We also have submitted letter to Department of Geology & Mining, Govt. of Gujarat, Bhavnagar for recommendation to issue NOC to Ministry of Defense, Govt. of India. Copy of the same is attached on Parivesh Portal. • As per our understanding, there is no clarity or guideline in respect of process to be followed to obtain NoC of Ministry of Defense (MoD), therefore, our humble request is that issue the EC without condition of obtaining NOC from MoD.
3.	The Project Proponent needs to submit the action for laying common Over Land Belt Conveyor (OLBC) for transportation of mineral from mine lease area to the Cement Plant. The Project Proponent also needs to submit the action plan for expansion of road with a width of 7m and by passing the village road till the commission of the Over Land Belt Conveyor (OLBC).	<ul style="list-style-type: none"> • The mine is captive mine to proposed cement plant at Mahuva and Highgrade limestone to be used in company's own existing Soda Ash plant located at Kalatalav, Bhavnagar as per permission accorded by the Govt. of Gujarat vide letter dated: 17.08.2023. (Copy attached on Parivesh Portal). • The cement plant is adjoining to the mine lease while the Soda ash plant is located around 100 km away and accessed through National Highway • Establishment of cement plant may take some time as the appeal is pending before Hon'ble Supreme Court while the soda ash plant is already operational.

		<ul style="list-style-type: none"> Hence, till the commencement of proposed cement plant, maximum 5% i.e. 265 TPD chemical grade limestone will be transported through dumpers @11 trips per day via existing village road of 7 m (out of which 4 m is black topped) to National Highway and ultimately Soda Ash plant at Bhavnagar. Company is very much keen to establish cement plant as early as possible & will produce & consume required limestone for cement manufacturing on its highest rated capacity. We assure your kind authority that we will widen the black top of the existing village road from mines to National Highway prior to commencement of Proposed Cement Plant. Section plan of proposed road black top widening is attached on Parivesh Portal. <p>Also, as discussed during the EAC meeting, we will explore the possibility of Over Land Belt Conveyor (OLBC) on either side of the highway based on the technical possibility & feasibility by reputed consultant. We are going to approach M/s. Holtec Consultants for regulatory, commercial & technical feasibility for above stated OLBC.</p>
4.	The Project Proponent needs to explore the possibility of laying over bridge over the Highway and shall submit the permission from the National Highways Authority of India (NHAI).	Since, the National Highway is under construction, we have submitted letter to National Highway Authorities of India(NHAI) regarding grant of permission to provide Underpass near our cement plant entry point or any other option suggested by NHAI for transportation of raw material & finished product. Acknowledgment of the same is attached herewith on Parivesh Portal.
5.	The Project Proponent needs to submit the protection measures to be taken for salt water intrusion and the effectiveness of the salinity ingress control bund.	<ul style="list-style-type: none"> Samdhiyala Salinity Ingress Control bund (Samdhiyala bund) was constructed by Government of Gujarat in the year 2000 on Motpet Creek to prevent sea water from coming towards landward side. On the landward side, rain water gets accumulated as well.

		<ul style="list-style-type: none"> • Presently, the accumulated rain water of Samdhiyala bund is being used during post monsoon by adjoining agriculture land owners and in other seasons they are extracting ground water through borewell. For agriculture land which is away from Samdhiyala bund, farmers are extracting ground water through borewell for agriculture due to which salinity & TDS are increasing in ground water. • As per company's water management strategy, after commencement of cement plant, company will undertake deepening of 100 ha surrendered land out of our total allotted plant land and also pledged to construct garland drains around the proposed plant area which will improve the overall fresh water storage capacity of Samdhiyala bund on landward side. Regular desiltation of canal will improve water retention capacity of Samdhiyala bund. • At the time of mining, bottom level of conceptual pit will be kept above ground water level to avoid intersection. • Hydrogeological monitoring network will be established by constructing piezometers in and around the lease. • During mining, present hydrological system will keep intact by constructing garland drain around the pits to maintain present hydraulic gradient towards the Samdhiyala Bund. • After exhaustion of mineral, voids left will act as natural water harvesting structures. Collected rain water will stand and gradually percolate into the sub surface water & in long term improve the quality of ground water. • Positive pressure of fresh water on landward side will be created, which will aid in pushing back the saline front, which may be at a lower elevation. • In view of the above, due to mining there is no possibility of salt water intrusion in the area & effectiveness of the salinity ingress control bund as well as hydrogeological
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		system of bund will not be disturbed & infact will significantly improve the effectiveness of salinity ingress control bund.
6.	The Project Proponent needs to submit the site specific mitigation measures for backwaters from Arabian Sea coming into the mine lease area.	<p>In this regard, following site specific mitigation measures will be taken:</p> <ul style="list-style-type: none"> • Arabian sea is situated at a distance of 3.8 km in the south of the said mine lease & it is outside of CRZ area. • There was only one probability of sea water coming to mine lease area which is through Motpet Creek. Samdhiyala Salinity ingress bund has been constructed on Motpet Creek to restrict backwater coming from Arabian sea towards landward side. Therefore, there is no possibility of backwater from Arabian sea to come to mine lease area. • Hydrogeological monitoring network will be established by constructing piezometers in and around the lease to monitor the water level & water salinity. • Positive pressure of fresh water on landward site will be created due to water storage in mine pits, which will aid in pushing back the saline front as well.
7.	The Project Proponent needs to revisit the plan for backfilling with clearly indicating the voids area and the capacity available/required for backfilling.	

The Indian Bureau of Mines, Govt. of India, Gandhinagar has approved the Mining Plan vide its letter dated: 05.08.2021 for the period of 5 years i.e. up to 2025-26.

As per approved Mining Plan, Removal of soil and its disposal as below.

Mine plan period	Removal of soil (mio. cum)	Means of disposal	Area covered under stacking (ha)
FY 2021-22 to FY 2025-26	0.15	Temporary stacking at one location near Proposed Pit no.1. Then, temporary stacked soil will be shifted for Backfilling of shallow pits of around 4.0 m depth (Proposed Pit No. 4 & 5) after five year mine plan period. (As demonstrated in map attached on Parivesh Portal).	4.63
FY 2026-27 to FY 2030-31	0.84	<ul style="list-style-type: none"> No stacking proposal is envisaged as simultaneously backfilled material will be utilized for shallow pits of around 4.0 m depth Proposed Pit No. 4 & 5) (As demonstrated in map attached on Parivesh Portal). 	nil
FY 2031-32 to FY 2033-34 (conceptual stage)	0.38		nil
Total	1.37	-	nil

Looking towards availability of topsoil, backfilling of part area is envisaged.

- Total voids area envisaged till conceptual period = 197.00ha
- Total soil removal envisaged till conceptual period = 1.37 million cum (197 Ha *0.7m avg. soil thickness)
- Total backfilling area envisaged till conceptual period = 36.36 ha

Ultimate Dimensions of Pits at the end of mine life

Pit No.	Pit Area covered (ha)	Pit Top (m AMSL)	Pit bottom (m AMSL)	Pit Depth in m	Pit Area covered by backfilling (ha)
1	92.57	20 to 15	10	10 to 5	No backfilling proposal

2	40.84	15 to 13	7	8 to 6	No backfilling proposal
3	14.47	18 to 16	10	8 to 6	No backfilling proposal
4	12.76	11 to 7	2	8 to 4	No backfilling proposal
	16.84	7 to 6	3 to 2	4	Backfilling of Pit area of 16.84 Ha for entire depth. (618480 cu.m)
5	19.52	9.5 to 7.5	2	7.5 to 5.5	Backfilling of Pit of 19.52 Ha for 4.0 m depth (751520 cu.m)
Total	197 Ha				36.36 Ha (1370000 cu.m)

8. The Project Proponent needs to revise the activities proposed under the Wildlife Conservation Plan. The Project Proponent also needs to ensure that the Schedule-I species as per the latest Wildlife Protection Amendment Act, 2022 shall also be included in the Wildlife Conservation Plan for their conservation.

As advised, revised wildlife conservation plan incorporating the Schedule-I species as per the latest Wildlife Protection Amendment Act, 2022 is attached on Parivesh Portal.

9. The EAC was of the view that the compensation rate is very less and asked the Project proponent to revisit and justify the budget proposed for Resettlement & Rehabilitation (R&R). The Project Proponent also needs to submit the action plan for land acquisition and timeline.

Type of land	Land rate, Rs. Lakh/ ha	Land requirement, ha	Total Amount Rs. lakhs
Private	13.00 *	189.76	2466.88
Government	On mining lease	7.24	-
Total		197.0	2466.88

*: Total amount given considering as per DLC rate. However, land will be procured/get consent for mining purpose on mutual agreed commercial rates.

Type of homestead	Rate, Rs. / sq.m.	Approx. Homestead area**, sq.m.	Total compensation, Rs. lakhs
Pucca	10000	480	48
Semi pucca	5000		
Kutchra	2000		
Total		480	48

** Company will consider homestead losers falling in proposed mine area on actual basis at the time of starting of mining activity and such homestead losers shall be compensated on mutually agreed commercial terms.

Since the land owners as well as homestead owners shall be compensated on commercial terms, therefore, they will have better economic strength to rehabilitate or reinvest the compensation amount. Hence, no separate R & R plan is envisaged.

Action plan for land acquisition and timeline is as below:

Sr. No.	Timeline for land requirement	Pvt. Land, Ha	Govt. Land, Ha	Total, Ha
1	Present			
1.1	Purchased	0	0	0
1.2	Consented	25.14	0	25.14
1.3	Leased	0	25.65	25.65
2	Future			
2.1	1 st to 5 th year mining	42.94	0	42.94
2.2	6 th year to Conceptual stage -13 th year	194.36	7.24	201.60
2.3	Mine life (up to lease period)	586.48	25.65	612.13

Mining lease deed has already been executed for said mining lease so mining can be started in Govt. lease land. As far as private land is concerned, company has obtained surface rights for mining by purchasing land/consent in some of the land & for remaining land, company is in process to procure ownership or surface right for mining on mutually agreed commercial terms. We hereby assure that company will obtain surface rights of the land before entry in pvt. land for starting mining activity in the mining lease area.

10.	The Project Proponent needs to submit the action plan for year wise exploration program	The Indian Bureau of Mines, Govt. of India, Gandhinagar has approved the Mining Plan vide its letter dated: 05.08.2021 for the period of 5 years i.e. up to 2025-26.
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		<p>Looking towards the systematic exploration of the entire area, 183 nos. of Core Bore Holes has been proposed in the area in order to bring the ML area within G1 stage in accordance with MEMC Rules 2015 and MCDR 2017 as per approved mining plan.</p> <p>The deposit is sedimentary origin and simple in nature, therefore boreholes are kept at an interval of 200m grid pattern. A total of 183 number of Core Boreholes are proposed up to a level of +1.0 MRL. Initially BH drilling shall be at an interval of 400m. If limestone potentiality proves, then further BH can be done closely at 200m interval. All proposed BH shall be drilled vertically. The exploration shall be carried out in five years of working i.e. year 2021-22 to 2025-26. Exploration shall be carried out as shown in table to bring BH at 200m interval</p> <p>Program of Future Exploration</p> <table border="1"> <thead> <tr> <th>YEAR</th> <th>No. of BH</th> <th>Grid Interval</th> <th>Total Meterage</th> </tr> </thead> <tbody> <tr> <td>2021-22 to 2025-26</td> <td>PBH-1 to PBH-119</td> <td>400 m & 200 m</td> <td>Up to +1.0 MRL</td> </tr> <tr> <td></td> <td>PBH-120 to PBH - 183</td> <td>200 m</td> <td>Up to +1.0 MRL</td> </tr> </tbody> </table> <p>The exploration shall be started as soon as mining work is started on grant of EC and try to accomplish within shorter period if conditions are favorable.</p> <p>The location of Proposed BH is depicted in Surface Geological plan of the approved mine plan and given in EIA report in figure no. C 2-2 in Chapter 2. (Copy given on Parivesh Portal).</p>	YEAR	No. of BH	Grid Interval	Total Meterage	2021-22 to 2025-26	PBH-1 to PBH-119	400 m & 200 m	Up to +1.0 MRL		PBH-120 to PBH - 183	200 m	Up to +1.0 MRL
YEAR	No. of BH	Grid Interval	Total Meterage											
2021-22 to 2025-26	PBH-1 to PBH-119	400 m & 200 m	Up to +1.0 MRL											
	PBH-120 to PBH - 183	200 m	Up to +1.0 MRL											
11.	The Project Proponent needs to submit the copy of the permission letter obtained from the State Govt. for utilization of Chemical Grade of	Permission accorded by the Govt. of Gujarat vide order dated: 17.08.2023 for utilization of Chemical Grade of Limestone for non-cement purposes is attached on Parivesh portal.												

	Limestone for non-cement purposes.	
12	The Project Proponent needs to submit a letter from the Department of Geology and Mining, Government of Gujarat clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s. Nirma Limited or not?	The company has not carried out any mining within the lease area much less any illegal mining in the lease area. There are old pits pre-dating the allotment of the lease to the company, which were received in legacy and shown in the present surface geological plan (Copy given on Parivesh portal). Request letter in this regard has been submitted to Department of Geology and Mining, Government of Gujarat on 03.11.2023. Acknowledgement of the same is attached on Parivesh portal.

xviii. Compliance of Sub-Committee Site Visit Recommendation given in 25th EAC meeting MoM held on 9th – 10th January, 2024.

Sr. No.	Recommendation of Sub-Committee	Reply by Project Proponent
1	PP should submit an action plan and timeline to indicate the purchase of lands across all three mining leases wherein it has proposed mining pits to initiate mining activities since as on date PP has only purchased / obtained surface rights over 101.1967 Ha out of 1351.6489 of Private Agriculture Land.	Action plan and Timeline indicating the purchase /obtain surface rights of land for mining for all three mining leases to initiate mining activities is attached on Parivesh Portal.
2.	Since PP envisages to handover the land with shallow quarry having depth upto 4m to landowners for farming and mostly all three mining leases are having agricultural land. PP is requested to conduct a survey to indicate the present status and number of low-lying areas, their respective which may be backfilled with available capacity of top soil/overburden and can be handed over to farmers for agricultural purpose.	In said mine, survey has been conducted & 2 nos. of pits i.e. Pit No. 4 & 5 (total Pit area -49.12 Ha) will have shallow depth pit in Pit area -36.36 Ha, will be backfilled for entire depth / partial depth, looking to availability of Soil for backfilling. <ul style="list-style-type: none"> • Pit no. 4 -16.84 Ha Pit area of 4.0 m bgl for entire depth out of total pit area of 29.6 Ha. • Pit No. 5 – 19.52 Ha Pit area of 4.0 m bgl for entire pit area in partial depth. Action plan for backfilling of shallow depth pits of depth up to 4.0 m and

		handing over to farmers for agriculture is attached on Parivesh Portal..
3.	Project Proponent needs to provide year wise exploration plan for all the three mining leases.	Exploration plan of said mining lease is attached on Parivesh Portal..
4.	Since, Bhavnagar falls under severely Polluted Area category, PP shall ensure that during initiation phase itself they should include the provision of permanent water sprinklers across the haul roads in all three mining leases.	Chitra Industrial area (severely polluted area) in Bhavnagar city is located around 100 km away from our said mining lease area. On initial stage, company will engage water tanker with sprinkler arrangement to suppress the dust on haul road and company will make provision of permanent water sprinklers across the haul roads in all three mining leases.
5.	Since, Bellur and other schools are in close proximity to mine lease area, PP shall ensure that necessary safety measures are taken as per DGMS norms for all three mining leases.	Company will ensure to maintain require safety measures & distance from Bellur School & other schools as per DGMS norms for all three mining leases during mining.
6.	PP shall ensure to construct bunds near the existing low lying areas that has developed into wetland to prevent the ingress of sea water in Padhiyarka and Doliya Limestone Mine lease area and Gujarada, Dudheri & Dudhala limestone mine lease area.	Not applicable
7.	The project Proponent needs to submit the integrated management plan describing the strategies and actions for achieving wise use of the wetland and the plan shall include objectives of the site management, management actions required to achieve the objectives, factors that affects, or may affect, the various site features, monitoring requirements for detecting changes in ecological character and for measuring the effectiveness of management, and resources for management implementation.	Not applicable
8.	PP needs to engage and impart skill among the villagers and local population	Company will not acquire any agriculture land through land acquisition

	<p>mainly the land losers and also submit a plan for their alternate livelihood arrangement since most of them will be losing their fertile lands.</p>	<p>by Govt. or without willingness of land owner and will purchase / obtain surface rights for mining on market commercial negotiated rates.</p> <p>Land owners may purchase agriculture land in nearby area in the amount which is to be paid to them against their land and can continue their livelihood. Company will give priority to engage land owners who have given land for mining purposes as per requirement of manpower for mines.</p> <p>Also, company will arrange to impart training to build capacity for self-employment [stitching, embroidery, tailoring, pickles, dairy improvement, poultry farming, etc.] to land losers and will facilitate vocational training along with skill development for getting better job opportunities (Budget Rs. 3 lakhs/year).</p>
9.	<p>PP should widen the existing village roads before using it for transportation in all three mining leases, wherever widening is not possible, PP shall submit an action plan for making alternate roads.</p>	<p>On initial stage, company has proposed to mine out limestone for Soda ash plant in lower capacity and company will use existing village road for transportation of limestone by maintaining the existing village road as number of trips of truck / dumpers will be very less i.e. around 11 numbers of trips/day maximum in this mine.</p> <p>Company will widen the existing village road or make alternate road in all three mining leases on installation of cement plant. Section plan of the road widening is attached on Parivesh Portal..</p>
10.	<p>PP should engage wildlife experts/ avian experts for conservation of the avian fauna within and near its mine lease.</p>	<p>Company has already engaged wildlife expert / avian expert for conservation of the avian fauna within and near its mine lease.</p>
11.	<p>PP shall plant native fruit bearing plants across all the proposed green patches.</p>	<p>Native fruit bearing plants will be planted across all the proposed green patches.</p>

12.	PP shall put boundary pillars across all mining leases.	Company had erected boundary pillars at the time of lease deed execution and got authentication of all boundary pillars co-ordinates through the DILR / State Govt. and provided in the approved mining plan for all three mining leases. Some pillars have been dislodged/ removed by local people. Company will put such boundary pillars again prior to commencement of mine so that they can be maintained.
13.	The project proponent needs to submit a letter from the Department of Geology & Mining, Govt. of Gujarat, clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s Nirma Limited or not?	<p>The company has not carried out any illegal mining in the lease area and request letter to provide required certificate regarding no mining carried out by company or others has been submitted to the District Geologist, Department of Geology and Mining, Government of Gujarat, Bhavnagar vide letter dated: 01.11.2023. In turn, the District Geologist, Bhavnagar has submitted his report to the Commissioner of Geology & Mining, Govt. of Gujarat, Gandhinagar vide its letter dated: 01.02.2024 to communicate the same to MoEF and copy endorsed to us. As per his report, No case of Illegal mining of limestone mineral has been registered within the mining lease area against the company M/s Nirma Limited or against any other individual or entity.</p> <p>Copy of our submitted letter dated: 01.11.2023 and copy of report of the District, Geologist, Geology & Mining Dep't, Bhavnagar dated 01.02.2024 is annexed on Parivesh Portal..</p>
14.	PP needs to submit plan to transport crushed limestone from all the three leases to plant.	The mine is captive mine to proposed cement plant at Padhiarka, Mahuva and High grade limestone to be used in company's own existing Soda Ash plant located as Kalatalav, Bhavnagar.

		<p>The cement plant is adjoining to the mine lease while the Soda ash plant is located around 100 km away and accessed through National Highway.</p> <p>Establishment of cement plant may take some time while the soda ash plant is already operational.</p> <p>Hence, till the commencement of proposed cement plant, maximum 5% i.e. 265 TPD limestone will be transported to Soda ash plant located near Bhavnagar through dumpers @11 trips per day. The trucks will pass through existing Madhiya - Amrutvel village road of 7 m width (out of which 4 m is black topped) for around 1.0 km and meet National Highway no. 51, from where the truck will move around 100 km.</p>
15.	<p>PP needs to take some measures to keep the migration bird ponds unharmed and protected by activity of mining in future.</p>	<p>Migratory birds are seen in Malan Bandhara as well as other nearby Bandhara areas, which areas located at distance of 5.4 km and 2.3 km from our mining lease area, respectively.</p> <p>Birds are also seen in low lying area, in which rain water accumulates temporarily during monsoon. However, they are pre-dominantly resident water birds.</p> <p>The company is committed to the measures proposed in the site specific wildlife conservation plan (summarised in point 7 earlier), which include points related to protection of shallow ponds, ecology and birds.</p> <p>The company will mine above 2m AMSL in low lying areas to maintain the fresh water nature of the water in it. The enlarging of the low lying area in pit</p>

		no. 2 & 3 of Padhiaryka & Doliya Mine and pit no. 5 & 6 of Gujarda, Dudheri & Dudhala will provide more area to birds. Also company will ensure that transportation will be carried out by maintaining safety distance from low lying areas.
16.	PP needs to install water treatment plant to reduce the hardness of water.	Drinking water is provided in every nearby villages through Narmada water pipeline by the State Govt. and drinking water requirements for mines shall also be fulfilled through Narmada water pipe line which is passing through nearby area. Hence, presently there is no proposal to use the hard ground water. However, if any requirement sought in future we will provide treatment plant.
17.	PP needs to explore possibility of deploying surface miners for mining.	Company has proposed mining with surface miner (50% quantity) in IBM approved mine plan and also in EIA report. Company explored use of Ripper dozer for cement plant use to eliminate drilling & blasting in the remaining 50% and committed the same in point no. 3, Specific Terms of Reference received from MOEF&CC vide Letter no. J-11015/154/2016-IA. II(M) dated November 28, 2022. For soda ash plant, we need sized limestone i.e. 25 mm to 100 mm, so surface miner cannot be deployed for limestone mining for Soda ash plant use. However, company will deploy rock breaker to avoid blasting during mining.

xix. Details of the Environmental Management Plan (EMP):

Activities	Capital cost (Crores)	Recurring cost (Lakhs/annum)
Pollution Control	0.241	9.54
Pollution monitoring	0.016	3.88
Occupational health	0.011	0.64
Environmental Studies, etc.	0.10	–
Green belt	–	5.10

Reclamation	–	11.39
Others (Environmental studies, Rehabilitation, Realignment, Expert advice, fencing etc.	–	5.28
Overheads	–	0.30
Total	0.3680	36.12

xx. Details of project cost and employment:

Particulars	(Rs. In Crore)
Total cost of EMP (Capital Cost of EMP + capital cost of Public hearing)	0.70
Project Cost	25
Employment (No.s)	58

3. Observation and Recommendation of the EAC

The EAC deliberated the instant proposal along with Padhiarka & Doliya Limestone Mine and Gujarda, Dudheri & Dudhala Limestone Mine. The Project Proponent presented its reply to the ADS points raised vide minutes of the 21st EAC as well as the recommendation of the sub-committee. After detailed deliberations, EAC **deferred** the proposal for the want of following information:-

- I. The Proponent shall submit No Objection Certificate from Ministry of Defence for consideration of the instant project.
- II. PP needs to undertake a study to showcase the probable impact of mining on migratory bird species and their fly-way passage (Central Asian Flyway). Accordingly, PP shall submit the revised conservation plan for the migratory bird species.
- III. The Project Proponent needs to undertake a study and submit the action for laying common Over Land Belt Conveyor(OLBC) for transportation of mineral from mine lease area to the proposed Cement Plant.
- IV. The project proponent needs to submit a letter from the Commissioner of Geology & Mining, Govt. of Gujarat, clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s Nirma Limited or not?
- V. PP submitted that National Highway is under construction, and they have submitted letter to National Highway Authorities of India(NHAI) regarding grant of permission to provide Underpass near their proposed cement plant entry. Accordingly, PP needs to submit the permission letter for the underpass.
- VI. The Project Proponent needs to carry out study by reputed institute to ascertain hardness of strata for deployment of surface miners for mining.
- VII. The Project Proponent needs to submit time line for acquiring land from the villegers.

Day 2: 15th March, 2024 (Friday)

2.1 Gandhamardan Block B Iron Ore Mining Project for production capacity of 9.12 MTPA in the mine lease area of 1590.8673 ha by M/s Odisha Mining Corporation Limited located at Village Upper Jagar, Urumunda, UparKainsari, Nitigotha, Ambadahara, Salarapentha, Daonla & Gandhamardan Protected Reserve Forest, Tehsil Banspal, District Keonjhar, State Odisha – Reconsideration for Amendment in EC dated 03.02.2009 w.r.t. specific condition no. 'xx' reg [Online Proposal No. IA/OR/MIN/451209/2023, F.No. J-11015/1084/2007-IA.II(M)]

The proposal is for amendment in EC dated 03.02.2009 w.r.t specific condition no. xx of Gandhamardan Block B Iron Ore Mining Project of M/s Odisha Mining Corporation Limited for production capacity of 9.12 MTPA in the mine lease area of 1590.8673 ha, located at Village: Upper Jagar, Urumunda, UparKainsari, Nitigotha, Ambadahara, Salarapentha, Daonla & Gandhamardan Protected Reserve Forest, Tehsil Banspal, Dist. Keonjhar, Odisha.

2. The details of the project as ascertained from the documents submitted by the Project Proponent and revealed from the discussions held during the meeting are given as under:

- i. Initially, the Project Proponent obtained Environmental Clearance vide EC letter dated 03.02.2009 for an annual production capacity of 91,20,000 tonnes (9.12 million tonnes) of Iron Ore over an area of 1590.8673 ha. One of the specific condition no: xx states that “Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral within the mine lease. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral within the mine lease shall not be overloaded. No transportation of ore outside the mine lease area shall be carried out after the sunset”.
- ii. Now, the Project Proponent has requested for amendment in EC dated 03.02.2009 to allow the transportation of ore outside the mine lease area after the sunset in respect of Gandhamardan Block B Iron ore mines of OMC.
- iii. Justification for amendment in EC:
 - a. The Project Proponent has submitted that the total mine lease area is 1590.8673 ha, out of which 1409.6489 ha is a forest land and 181.2184 ha is a non-forest land.
 - b. Stage-II Forest Clearance was granted in two phases. (i) MoE&F vide letter dated 17.08.2007 granted forest clearance under Section-2 of the Forest (Conservation) Act, 1980 for diversion of 232.438 ha of forest land and (ii) MoEF&CC vide letter dated 09.10.2018 granted forest clearance under Section-2 of the Forest (Conservation) Act, 1980 for diversion of balance forest land of 1177.211 ha including 25.1070 ha for safety zone in addition

to 232.438 of forest land already diverted within total mining lease area of 1590.8673 ha.

- c. Since the date of grant of forest clearance for the total area within mine lease, OMC has never been able to achieve the target production and dispatched Iron ore of 9.12MTPA (approved production quantity as per EC). It is not possible to transport all the materials during the day time with the existing road infrastructure and due to Specific Condition No.(xx) of EC dated 03.02.2009.
- iv. The Project Proponent has submitted that the supplementary mine lease deed executed on 07.06.2019 and the mine lease is valid up to 10.07.2040. Modification of Review of Mining Plan along with Progressive Mine Closure Plan was approved by Indian Bureau of Mines vide letter dated 02.08.2021 over an area of 1590.8673 ha for the period 2021-22 to 2024-25.
- v. The Project Proponent has submitted the past production details from the year 1993-94 to 2023-24 (August, 2023) wherein, excess production has been observed from the year 2001-2002 to 2008-2009. Afterwards the production capacity is within their prescribed EC capacity.
- vi. The Project Proponent has submitted the certified compliance report issued by the Regional Office (RO), Bhubaneswar. Site visit was conducted by RO on 09.10.2023.
- vii. Earlier, the Proposal was considered in the 23rdEAC meeting held during 5-7th December, 2023 wherein the Committee has deferred the proposal for the submission of requisite information. The Project Proponent has submitted the relevant information on Parivesh as follows:

S.No.	Observation in 23 rd EAC meeting held during 5-7 th December, 2023	Reply by Project Proponent
1.	The Project Proponent needs to carry out the scientific study by the reputed institute regarding the carrying capacity of the road indicating the exact quantity to be transported during night time along with details of trips to and fro, capacity of the dumper, design of the road, additional traffic on the road, timeframe required for night transportation depending on the infrastructure availability and also adverse impacts on the environment and wildlife due to night transportation.	The scientific study on the carrying capacity of the road indicating the exact quantity to be transported during night time along with details of trips to and capacity of the dumper, design of the road, additional traffic on the road, timeframe required for night transportation etc has been carried out by CSIR-Centre for Road Research Institute (CRRRI). The Report has been submitted on Parivesh.
2.	The Project Proponent needs to submit the specific mitigation	Divisional Forest Officer (DFO), Keonjhar vide letter dated

	measures w.r.t Wildlife during night transportation.	17.02.2024 submitted the information related to the mitigation measures w.r.t wildlife during night transportation.
3.	The Project Proponent needs to submit the letter from the State Forest Dept., regarding the movement of animals in the transportation route during night.	Divisional Forest Officer (DFO), Keonjhar vide letter dated 17.02.2024 submitted the information w.r.t. movement of animals in the transportation route during night.
4.	The Project Proponent needs to submit the re verification report done by the Regional Office for the non-compliances.	Project Proponent has submitted comments of regional office, Bhubaneswar for the non-compliances.
5.	The Project Proponent needs to submit the copy of the demand notice issued from the Office of the Deputy Director of Mines and proof of payment made against the demand notice.	The copies of the demand notice issued from the Office of the Deputy Director of Mines and proofs of payment made against the demand notices has been submitted vide letter dated 04.09.2017.
6.	The Project Proponent needs to submit the copy of the certified past production details issued from the Office of the Deputy Director of Mines dated 18.09.2023 from the year 1993-94 to 2023-24 (Aug, 2023).	The copy of the certified past production details issued from the Office of Deputy Director of Mines dated 18.09.2023 from the year 1993-94 to 2023-24 (August, 2023).

viii. The Project Proponent has submitted the certified compliance report issued by the Regional Office (RO), Bhubaneshwar. Site visit was conducted by RO on 09.10.2023.

3. Observation and Recommendation of the EAC

The Project Proponent informed the EAC that initially Environmental Clearance (EC) was obtained on 03.02.2009 for an annual production capacity of 91,20,000 tonnes (9.12 million tonnes) of Iron Ore over an area of 1590.8673 ha.

The Project Proponent further informed the EAC that one of the specific condition no: xx states that "Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral within the mine lease. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral within the mine lease shall not be overloaded. No transportation of ore outside the mine lease area shall be carried out after the sunset"

The EAC noted that the ML area is surrounded by the forest area and movement of wild-animal species have been frequently observed. Committee asked the PP to increase the truck size from 40 to 45 tonnes (Payload) in order to meet the transportation demand.

The EAC requested the PP to engage any reputed wildlife institute to carry out a study for recording the movement of elephant and other wild-animals. The study should also reflect existing Human-Wildlife conflict if any prevalent within the vicinity of the mine lease area. EAC also opined that PP needs to carry out a drone survey of the entire mine lease area and the transportation route. Based on above discussion, the EAC **deferred** the proposal for the want of following information :-

- i. The PP needs to submit the implementable plan for increased truck size from 40 to 45 tonnes (Payload) in order to meet the transportation demand in day time.
- ii. The PP needs to submit the clarification from DFO with regard to presence of Elephant and other wild-life movement within the mine lease area and in its vicinity.
- iii. The PP needs to carryout a study to record the movement of elephants and other wild-animals within and near the mine lease area. The study should also reflect existing Human-Wildlife conflict if any prevalent within the vicinity of the mine lease area.
- iv. The PP needs to submit the recorded drone video of the complete ML area and transportation route.
- v. PP needs to submit the Data related to the movement of commercial vehicle at night and projected number of total commercial vehicle to be seperately mentioned after considering the truck size of 40-45 tonnes (Payload).

2.2 Lakheri Limestone Mine for Limestone production with capacity of 1.5 MTPA and waste/topsoil 11.25 Lakhs CuM per annum (Maximum) with existing Wobbler and screening plant of 400 TPH in the ML area of 1516.88 ha by M/s ACC Limited located at villages Gendoli Kala, GendoliKhurdh, Pholai, Gutha, Mahuwa, Dangaheri, Budel, Kankra, Chamavali, Uttarana, Lkaheri, Sakhoda, Nayagaon & Papadi, Tehsil Indergarh& Kesoraipatan, District Bundi, Rajasthan– For Corrigendum in Environmental Clearance dated 29.12.2023 w.r.t. Specific Condition no. 3.2 reg [Online Proposal No. IA/RJ/MIN/462722/2024 , F.No. J-11015/167/2018-IA.II(M)]

The proposal is for Corrigendum in EC letter dated 29.12.2023 w.r.t. Specific Condition no. 3.2 w.r.t correction in area of diverted forest land as 208 ha in place of 201.88 ha for Lakheri Limestone Mine for Limestone production with capacity of 1.5 MTPA and waste/topsoil 11.25 Lakhs CuM per annum (Maximum) with existing Wobbler and screening plant of 400 TPH in the ML area of 1516.88 ha by M/s ACC Limited located at villages Gendoli Kala, GendoliKhurdh, Pholai, Gutha, Mahuwa,

Dangaheri, Budel, Kankra, Chamavali, Uttarana, Lkaheri, Sakhoda, Nayagaon & Papadi, Tehsil Indergarh & Kesoraipatan, District Bundi, Rajasthan.

2. The Project Proponent has submitted the following information with regard to the corrigendum sought:

Ref of EC	Particular	Required Corrigendum	Remark
Specific Condition No 3.2	Mining activity is restricted to the Forest Land (201.88 ha) for which the Stage II FC is available as per Ministry's letter dated 27.12.2017 plus the non-forest land (1107 ha)"	Mining activity is restricted to the Forest Land <u>(208 ha)</u> for which the Stage II FC is available as per Ministry's letter dated 27.12.2017 plus the non-forest land (1107 ha)"	MOEF&CC (Forest Conservation Division) has rectified the same vide corrigendum dated 09.02.2024 and mentioned in Para no 3 of the said letters it is mentioned that <u>"Therefore instead of 201.88 ha as mentioned in Ministry letter no. 8-26/2003-FC dated 27.12.2017 it should be read as 208 ha and the remaining content of the letter no. 8-26/2003-FC dated 27.12.2017 remains the same"</u>

3. Observation and Recommendation of the EAC

The PP/Consultant informed the EAC, that the instant proposal is for corrigendum in Specific Condition no 3.2 of Environmental Clearance (EC) dated 29.12.2023 w.r.t correction in diverted forest area of 208 ha in place of 201.88 ha.

The EAC noted that the Project Proponent has obtained the permission for the complete forest area of 409.88 ha on 27.12.2017 wherein it was mentioned that out of 409.88 ha of forest land in the lease, the Forest Clearance under section 2 (ii) was granted for 201.88 ha in 2012. However, the Project Proponent has Forest Clearance under section 2 (ii) for 208 ha. The Forest Conservation Division in the Ministry vide letter dated 09.02.2024 has clearly mentioned that "instead of 201.88 ha as mentioned in Ministry letter no. 8-26/2003-FC vide dated 27.12.2017 should be read as 208 ha".

In view of the above, the EAC **recommended** for corrigendum in Specific Condition no 3.2 of Environmental Clearance (EC) dated 29.12.2023 w.r.t correction in diverted forest area of 208 ha in place of 201.88 ha and the specific condition no. 3.2 shall be read as "Mining activity is restricted to the Forest Land (208 ha) for which

the Stage II FC is available as per Ministry's letter dated 27.12.2017 and 09.02.2024 plus the non-forest land (1107 ha)".

2.3 River Sand (Bajri) Mining Project with production capacity of 16,56,120 TPA in the Mine lease area of 329.90 ha by M/s Pramod Meena Baran located at Villages Bhawgarh, Balunda, Jarela, Mundiya, Nand Ganwadi, Pagara, Singola, Mahtabpura, Piplda Khurd, Boreda, Piplda Kalan, Arjunpura, Bislai, Gorela, Takariya Dhani, Gopalpura, Pali Tehsil Mangrol & Kishanganj, District Baran, Rajasthan – Reconsideration for Environmental Clearance reg[Online Proposal No. IA/RJ/MIN/25563/2014, File No. J-11015/166/2014-IA.II(M)], [EIA Consultant: M/s Overseas Min-Tech Consultants]

The proposal is for Environmental Clearance for River Sand (Bajri) Mining Project with production capacity of 16,56,120 TPA in the Mine lease area of 329.90 ha by M/s Pramod Meena Baran located at Villages Bhawgarh, Balunda, Jarela, Mundiya, Nand Ganwadi, Pagara, Singola, Mahtabpura, Piplda Khurd, Boreda, Piplda Kalan, Arjunpura, Bislai, Gorela, Takariya Dhani, Gopalpura, Pali Tehsil Mangrol & Kishanganj, District Baran, Rajasthan.

2. Observation and Recommendation of the EAC: -

The EAC noted that the Project Proponent's letter dated 15.03.2024 regarding the change in scope of the proposal. Accordingly, the EAC **recommended** to return the proposal in present form.

2.4 River Sand (Bajri) Mining Project with production capacity of 0.42 MTPA in the Mine lease area of 360.97 ha by M/s Shri Mukesh Sharma located at Revenue Villages of Baran Tehsil Ulthi, Majrawta, Kalyanpur Ghata, Ghisri, Hanotiya, Koyla, Shahgarh, Revenue Villages of Kishanganj Tehsil Kagla Bamori, Mehrawata, Rani Badod District Baran, Rajasthan – Reconsideration for Environmental Clearance reg [Online Proposal No. IA/RJ/MIN/32677/2015, File No. J-11015/408/2015-IA. II(M)], [EIA Consultant: M/s Enkay Enviro Services Pvt. Ltd.]

The proposal is for Environmental Clearance for River Sand (Bajri) Mining Project with production capacity of 0.42 MTPA in the Mine lease area of 360.97 ha by M/s Shri Mukesh Sharma located at Revenue Villages of Baran Tehsil Ulthi, Majrawta, Kalyanpur Ghata, Ghisri, Hanotiya, Koyla, Shahgarh, Revenue Villages of Kishanganj Tehsil Kagla Bamori, Mehrawata, Rani Badod District Baran, Rajasthan. River area spreads in 10 Villages of Tehsil – Baran & Kishanganj.

2. Observation and Recommendation of the EAC: -

The EAC noted that the Project Proponent's letter dated 23.11.2023 regarding the change in scope of the proposal. Accordingly, the EAC **recommended** to return the proposal in present form.

2.5 River Sand (Bajri) Mining Project with production capacity of 2.8 MTPA in the Mine lease area of 905.206 ha by M/s Shri Mukesh Sharmalocated at near revenue villages of Tehsil Pidawa, District Jhalawar, Rajasthan– Reconsideration for Environmental Clearance reg [Online Proposal No. IA/RJ/MIN/25369/2014, File No. J-11015/113/2016-IA-II (M)], [EIA Consultant: M/s Enkay Enviro Services Pvt. Ltd.]

The proposal is for Environmental Clearance for River Sand (Bajri) Mining Project with production capacity of 2.8 MTPA in the Mine lease area of 905.206 ha by M/s Shri Mukesh Sharmalocated at near revenue villages of Tehsil Pidawa, District Jhalawar, Rajasthan.

2. Observation and Recommendation of the EAC

The EAC noted that the Project Proponent's letter dated 23.11.2023 regarding the change in scope of the proposal. Accordingly, the EAC **recommended** to return the proposal in present form.

2.6 River Sand (Bajri) Mining Project with production capacity of 1.008 MTPA in the Mine lease area of 177.64ha byM/s Chandak Associates located at near village Sureli (Khasra No. 1 and 1402) Tehsil Uniyara, District Tonk, Rajasthan – Reconsideration for Environmental Clearance reg.[Online Proposal No. IA/RJ/MIN/26462/2013, File No. J-11015/179/2013-IA.II (M)]

The Proposal is for Environmental Clearance for River Sand (Bajri) Mining Project with production capacity of 1.008 MTPA in the Mine lease area of 177.64ha by M/s Chandak Associates located at near village Sureli (Khasra No. 1 and 1402) Tehsil Uniyara, District Tonk, Rajasthan.

2. The Project Proponent has submitted the following information on the Parivesh portal:

- i.** The Latitudes and Longitudes of the Mine Lease area are 26°06'04.29"N to 26°07'59.76"N and 76°01'05.66"E to 76°01'400.57"E respectively on Survey of India toposheet numbers 45 N/16 & 54 B/4. The Project is located in Seismic zone-II.
- ii.** As per EIA Notification dated 14th September, 2006 as amended from time to time, the project falls under Category A or Activity 1(a) as the mining lease area is greater than 100 ha.
- iii.** The proposal of TOR was considered by the Expert Appraisal Committee in its 9th Meeting held during 22nd - 24th July, 2013 to determine the Terms of

Reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEF&CC vide letter No. J-11015/179/2013-IA.II (M), dated 13th September, 2013.

3. Observation and Recommendation of the EAC: -

The EAC noted that the Project Proponent did not attend the EAC meeting at the scheduled time. Hence, EAC **deferred** the proposal.

2.7 River Sand (Bajri) Mining Project with production capacity of 1.31 MTPA in the Mine lease area of 252.48ha by M/s Shri Chandra Pal Singh s/o Shri Ganga Singh located at Tehsil-Digod & Pipalda, District-Kota and Tehsil- Anta, District-Baran, Rajasthan – Reconsideration for Environmental Clearance reg[Online Proposal No. IA/RJ/MIN/25549/2014, File No. J-11015/233/2014-IA.II(M)]

The proposal is for Environmental Clearance for River Sand (Bajri) Mining Project with production capacity of 1.31 MTPA in the Mine lease area of 252.48ha by M/s Shri Chandra Pal Singh s/o Shri Ganga Singh located at Tehsil-Digod & Pipalda, District-Kota and Tehsil- Anta, District-Baran, Rajasthan.

2. The Project proponent vide letter dated 07.03.2024 submitted that their proposal was considered during the 32nd Meeting of EAC held during May 30-31st, 2018. The committee observed that the Terms of Reference (T.O.R) validity for aforesaid project was expired at the time of submission of the final report, and subsequently the project was deferred. Subsequently, ADS was generated on 15.02.2023, since the validity of T.O.R dated 29.10.2014 expired, the committee directed to apply fresh T.O.R at SEIAA as per the provision of EIA, 2006 notification and its subsequent amendments.

In compliance to the directions of EAC, and as per Gazette Notification S.O.1886 (E), dated 20th April, 2022, the Project proponent has applied for fresh TOR in SEIAA- Rajasthan with Proposal No. SIA/RJ/MIN/419277/2023 on 26.12.2023.

3. Observation and Recommendation of the EAC

The EAC after deliberations noted and accepted the withdrawn request of proposal and hence, **recommended** to withdraw the same.

List of members of Expert Appraisal Committee participated through VC

S.No	Member Name	Member Address	Designation	14 th March 2024	15 th March 2024
1	Dr. Dinesh Misra, IFS (Retd.)	Plot No 65, Sector 8, Gandhinagar, Gujarat, 382 008	Chairman	Yes	Yes
2	Sh. Niranjana Kumar Vasu, IFS (Retd.)	816, Shanti Nagar, Opposite Durgapur Railway Station, Jaipur-Rajasthan, 302018	Member	Yes	Yes
3	Dr. Asha Rajwanshi, Scientist 'G' (Retd.), WII	B/104/106 Rock Valley Apartments, GMS Road, Sewla Kalan, P.O. Majra, Dehradun, Uttarakhand-248171	Member	Yes	Yes
4	Shri. Avijit Ghosh (CMD- Heavy Engineering Corporation Limited) (Retd.)	Singhee Marg, A- 604 Shahadeo Tower, P.P.Compound, Ranchi 834001, Jharkhand	Member	Yes	Yes
5	Shri. Bandi Ramchandra Reddy (Former CMD-South Eastern Coalfields Limited)-(Retd.)	Flat No-503 A, Jyoti Cosmos, White Fields, Hi-Tech City, Kondapur, Hyderabad-500081	Member	Yes	Yes
6	Prof. Pramod Kumar, Professor, Shri Aurobindo College, University of Delhi	Shri Aurobindo College, University of Delhi 1372, B-1, Vasant Kunj, New Delhi-110070	Member	No	No
7	Prof. Devesh Walia, Department of Environmental Studies	Department of Environmental Studies, NEHU, Shillong-793022 Meghalaya	Member	No	No
8	Dr. Suresh Tiwari Scientist-F	Indian Institute of Tropical Meteorology, Pune, New Delhi Branch, Prof. Ram Nath Viji Marg Rajinder Nagar, New Delhi - 110060	Member	Yes	Yes
9	Dr. K.G Asha Manjari, Professor, University of Mysore	10/B, "SPARSHA", 2nd Main, 2 nd Cross, Bhogadi Ind Stage, Mysore-570026, Karnataka	Member	Yes	Yes
10	Prof. Dev Dutt Sharma, Vice-Chancellor	Sardar Patel University, Mandi H.P. 175001	Member	No	No
11	Shri V. K. Soni, Representative of India Meteorological	Government of India, Ministry of Earth Sciences, India Meteorological	Member	No	No

	Department	Department, MausamBhawan, Lodi Road, New Delhi – 110003			
12	Shri Yogesh Kale Representative of Indian Bureau of Mines	Controller of Mines, IBM Block D, Second Floor, Indira Bhavan, Civil Lines, Nagpur - 440001	Member	Yes	Yes
13	Shri Niazi Mohammed	Representative of Directorate General of Mines Safety	Member	Yes	Yes
15	Shri Pankaj Verma	3 rd Floor, Vayu Block, Indira ParyawaranBhawan, MoEF&CC, Jorbagh, New Delhi- 110003.	Member Secretary	Yes	Yes

