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

SUMMARY RECORD OF 24TH 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 24th 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 26-28 December, 2023 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 23rd EAC (Non-Coal Mining) meeting held during 5-7 December, 2023:

The minutes of the 23rd EAC meeting held during 5-7 December, 2023 were placed before the members of the EAC.

Day 1: 26th December, 2023 (Tuesday)

1.1 Majhgawan Diamond Mine, Panna of M/s NMDC Ltd. with total excavation of 13.90 LTPA [ROM Kimberlite Ore @ 8 LTPA and Overburden removal @5.90 LTPA] for production of 1.00 lakh carats of Diamonds per annum in the mine lease area of 113.332 Ha, located at village Majhgawan, Tehsil & District Panna, Madhya Pradesh -[F.No: J-11015/120/2018-IA-II(M), Proposal No: IA/MP/MIN/442288/2023, EIA Consultant: M/s Ecomen Laboratories Ltd] -Revalidation of EC under Ministry's Notification vide S.O. (E) 1530, dated 06.04.2018

The instant proposal is for mining of Diamond in Majhgawan Diamond Mine with total excavation of 13.90 LTPA [ROM Kimberlite ore @ 8 LTPA and Overburden removal @ 5.90 LTPA for production of 1.00 lakh carats of Diamonds per annum] in the mine lease area of 113.332 Ha (Main Lease), located at village Majhgawan, Tehsil & District Panna, Madhya Pradesh.

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 proposal was earlier considered in the 20th EAC (Non Coal Mining) meeting held during 21-22 September, 2023 wherein the EAC deferred the proposal for want of requisite information. Then, the Project Proponent submitted the information on 02.12.2023 in Parivesh portal and accordingly the proposal was considered in the 24th EAC (Non-Coal Mining) meeting held during 26-28 December, 2023.

Based on observation of EAC in its meeting held during 21-22 September, 2023 and observation of EAC and compliance made by Project Proponent are detailed below:

observation of EAC and compliance made	5 Dy I			e uetai		510 10.
S. No Observation of EAC in its	s Reply by Project			ect Prop	onen	t
meeting held during 21-22		. ,				
September, 2023						
	The	Droiget D)rononon	t oubo	aittad	that the
,		Project F	•			
revalidate the baseline data by		eline data				0
collecting one-month fresh	one-	month fre	sh basel	ine dat	ta by	new EIA
baseline data by new EIA	Con	sultant M	/s Ecom	ien La	borate	ories (P)
consultant to ascertain the facts	Limi	ted during	the pe	eriod o	f 1 st	October,
and figures presented in the EIA	2023	3 – 30 th O	ctober. 2	2023. T	he re	validation
report and also to ascertain the		aseline da				
ground reality. The Project		eline data		•		
Proponent also needs to submit		28.02.2021	•		•	
the comparison of both baseline		lidation of				
-						
data.		ious bas				o major
		ations was			-	
		y. The cor	•	of bot	in the	baseline
	data are as follows: -					
	Ambient Air Quality (9 locations)					
	S.	Parameters				Standards,
	No		2020- 21	Monso 2023		µg/m³
	1	PM10	18.6-	33.0		100
		1 1110	64.0	57.0		100
	2	PM2.5	12.1-	8.8 t		60
		_	41.4	26.0		
	3	SO2	6.4 –	7.5 -	-	80
			13.7	14.4		
	4	NO2	16.4 –	12.8		80
			42.3	21.3	3	
			Ambient No			Manaa
		Location	Winter 2	020-21		Monsoon, 2023
			L_{day}		L _{day}	
	Mine View Point		54.8	51.6	43.3	36.1
	Hopper/Jaw		61.0	57.4	45.4	36.1
		usher Plant ar Explosive	51.7	48.7	43.2	35.8
		nagazine	01.7	40.7	-0.2	00.0
		me Office	43.8	40.7	49.9	37.0
		gate				

 		1				1
	cessing	53.8	50.7	47	.6	36.7
	near cone rusher			1		
	cessing	50.8	47.7	47	.5	36.5
	Plant near HMS				~	00.0
X – R	ay Sorter	39.8	36.7	46	.8	36.4
	Room					07.0
	orkshop	45.8	42.7	51		37.3
	hgawan wnship	43.2	39.3	52	.0	38.6
	a National	40.7	37.6	43	.1	35.5
park	boundary					
	rat Mata	43.8	40.6	52	.5	38.3
	emple e School,	49.7	46.8	52	0	38.2
	ita Village	49.7	40.0	52	.0	30.2
	le Panna	37.8	34.7	51	.3	37.7
	onal Park					
	Hinouta			1		
	ant camp ry School,	36.7	33.8	51	5	37.6
	imasan	50.7	00.0	51	.5	57.0
	ards Day Ti	me dB(A)		dustr		
				mme		
				esiden		
Sta	ndards Nigh	nt Time			Zone: 50 trial: 70, ercial: 55	
	dB(A)					
				siden		
			Sil	ent Z	one:	40
			uality (3 lo			Deet
S. No	Param	eters	Winter 2020-2			Post nsoon,
INO			2020-2	1		2023
1	pH at	25°C	6.84 – 7.	11		8 -7.34
2	Total Dis		258.3 -			2 – 373
-	solids,		301.8			
3	Chloride		43.5 - 47		26.0) – 34.0
	mg					
4	Total Ha		92.6-115	5.6	11	6-144
	mg					
5	COD,		<3.0			3 - 16
6	BOD,		<5.0	- +		- 2.5
7	Fluoride		0.4-0.5		0.4	9-0.56
8	mg Sulpha		14.9-18	2	16	7-23.2
	Supria SO4,		14.3-10	.5	10.	1-20.Z
		y/i	I			
	Groups	water a	uality (7 lo	catio	ne)]
S.	Param		Winter			Post
No	i aiaii	51015	2020-2			nsoon,
				·		2023
1	pH at	25°C	7.39 - 7.8	84		1 - 7.69
2	Total Dis		335.1 ·			6 - 612
	solids,		539.4			
		<u></u>				

				00 4 70 5	40 75	
		3	Chloride as cl-, mg/l	29.4 - 70.5	40 – 75	
		4	Total Hardness, mg/l	184.3- 294.8	204 – 280	
		5	Fluoride as F, mg/l	0.5 - 0.9	0.48 - 0.77	
		6	Sulphates as SO4, mg/l	19.8 - 46.8	22 – 41	
			Soil quality	(Electione)		
		S.	Parameters	v (5 locations) Winter	Post	
		No		2020-21	Monsoon, 2023	
		1	pH	7.16 – 7.89	7.24 – 7.77	
		2	Electrical Conductivity (µS/cm)	154 - 234	221 – 274	
		3	Organic Carbon (%)	0.25 - 0.32	0.36 – 0.57	
		4	Available Nitrogen as N (kg/Ha)	35.3 – 57.4	31.2 – 48.0	
		5	Available Phosphorus as P (kg/Ha)	14.6 – 28.4	12.7 – 20.2	
		6	Potassium (kg/Ha)	468 – 581.8	134 – 203	
2	The EAC opined that the		Project Propone		•	
	Project Proponent may seek a		n obtained fror			
	legal opinion regarding the		ndia on 23.11			
	applicability of the orders dated 26.04.2023 and 28.04.2023 in		ral for India has			
	this instant proposal.	•	d by the Suprer 8.04.2023 overr			
	tins instant proposal.		nceived. As su			
		be said to have overruled an earlier order unless the earlier order is directly put to rest,				
			dered and dealt	•	•	
		for ov	erruling by imp	lication also	o unless the	
		-	cts of the t	•	•	
			ion. The order p			
			on 30.11.2022		-	
			Inderstanding a			
			t. It was on the all statutory au	-		
			more particula			
			ince of the c	~		
			ies and its impo		•	
			dated 30.11.20			
		as a	standalone	order. It	cannot be	
		comp	ared to any othe	er mining a	ctivity which	

3	The EAC also opined that the Ministry may seek comments	has not obtained requisite clearances. Additionally, having regard to the nature of the mining activity and the mischief that may arise from the abandonment of the mining activity, leaving the mined area with all its exposures, would also be a distinguishing factor. While on the prima facie reading on the two orders dated 26.04.2023 and 28.04.2023, do seem to suggest against undertaking mining activities within the prohibited areas, as already stated above in view of the clearance given by the Supreme Court, it appears to me that the Querist has a legitimate claim for further undertaking of the mining activity strictly in terms of the approval granted. The ESZ Division gave their comments on 12.10.2023 stating that <i>"Mining within ESZ is</i>
	from the ESZ Division since the project is located within the Gangau wildlife sanctuary of Panna Tiger Reserve and whether the aforesaid orders dated 26.04.2023 and 28.04.2023 are applicable in the instant proposal or not.	a prohibited activity. This has been reiterated by the Supreme Court Order dated 28.04.2023, irrespective of whether the mining is beyond 1.0 km from the boundary of the protected area, in case ESZ extends beyond 1.0 km." The comments of the Wildlife Division obtained on 19.11.2023 are as follows:-
		Wildlife (Protection) Act, 1972 of Majhgawan Diamond Mine of M/s NMDC Ltd was recommended by the Standing Committee of National Board for Wildlife in its 61 st meeting held on 18 th February, 2021 subject to the conditions imposed by the Chief Wild Life Warden and the National Tiger Conservation Authority. The recommendations of NTCA were subject to approval of Hon'ble Supreme Court. The Hon'ble Supreme Court order in I.A No: 1485 and 1507 dated 13/8/2008 and I.A No: 47252 of 2021 dated 30/11/2022 in W.P (Civil) no: 202 of 1995 permitted mining operations in Diamond Mining Project,
		Panna in Gangau wildlife sanctuary of Panna Tiger Reserve."

Subsequently, Hon'ble Supreme Court vide its order dated 26.04.2023 in IA 131377 of 2022 filed by the Ministry in W.P. (C) no. 202 of 1995 has directed that <i>"mining within the</i> <i>National Park and Wildlife Sanctuary and</i> <i>within an area of one kilometre from the</i> <i>boundary of such National Park and Wildlife</i> <i>Sanctuary shall not be permissible."</i>
If any clarification is required on the matter, the IA Division may seek the same from Hon'ble Supreme Court."

3. Observation and Recommendation of the EAC:

The Member Secretary informed the EAC that officials from National Tiger Conservation Authority (NTCA) and Wildlife Division in the Ministry were invited as a Special Invitee to discuss the matter. The EAC asked the Project Proponent to brief about the legal aspects of Main and Supplementary mine lease. The Project Proponent briefed about the chronology of the legal aspects since from the grant of mining lease in the year 1965 to till the order of the Hon'ble Supreme court orders dated 26.04.2023 and 28.04.2023. The Project Proponent informed the EAC that at the time of sanction of grant of mining lease, the instant leases were outside the Panna (Gangau) Wildlife Sanctuary. The Panna Wildlife Sanctuary was notified in the year 1975 and later in the year 1994, the Govt. of India declared it as a Project Tiger Reserve. Then in the year 2005, the Director, Panna National Park informed that both the mine leases fall within Gangau Wildlife Sanctuary. Thereafter, the mining operations were suspended in the year 2005 and plant operations in the year 2006.

Further, the Project Proponent informed the EAC that EC was obtained in the year 2006 under EIA,1994 subject to acceptance by the Standing Committee of the National Board of Wildlife as well as permission from Hon'ble Supreme Court of India. The mining operations resumed in the year 2009 after obtaining all approvals and the permission was valid upto 31.12.2020. Again mining operations were stopped w.e.f 01.01.2021. In order to expedite the balance reserves, the application for renewal of Wildlife Clearance was submitted. The DIG, NTCA on 15.02.2021 conveyed the recommendations subject to fulfillment of conditions laid down by Chief Wildlife Warden (CWLW), Madhya Pradesh. The CWLW while forwarding the proposal to the Ministry specifically mentioned that the NMDC again should obtain the permission from the Hon'ble Supreme Court. Then, an IA was filed in the Hon'ble Supreme Court and the Hon'ble Supreme Court vide order dated 30.11.2022 stated that the present application deserves to be allowed and renewal of Wildlife Clearance was granted by CWLW on 24.02.2023. The Hon'ble Supreme Court vide its order dated 26.04.2023 and

28.04.2023 directed that "any activity, which is prohibited by both the guidelines as well as the ESZ notification shall strictly be prohibited. Since the mining activity in ESZ area is a prohibited activity, there is no question of such an activity being permitted in an ESZ area even if it falls beyond the distance of one kilometer from the boundary of the protected area".

The Project Proponent also briefed about the legal opinion obtained from the Attorney-General for India on 23.11.2023. The Attorney-General for India has opined that the orders passed by the Hon'ble Supreme Court on 26.04.2023 and 28.04.2023 over rules all earlier orders are misconceived. The order passed by the Supreme Court on 30.11.2022 was with full knowledge and understanding about the national park aspect. A subsequent order cannot be said to have overruled an earlier order unless the earlier order is directly put to rest, considered and dealt with. Also, there is no room for overruling by implication also unless the subjects of the two proceedings are common. Therefore, the order dated 30.11.2022 may have to treated as a standalone order. It cannot be compared to any other mining activity which has not obtained requisite clearances. In view of the clearance given by the Supreme Court, it appears to that the Querist has a legitimate claim for further undertaking of the mining activity strictly in terms of the approval granted. The EAC noted that the Wildlife Division has informed that if any clarification is required on the matter, the IA Division may seek the same from Hon'ble Supreme Court. The officials of NTCA and Wildlife Division opined that the instant file may be sent to the NTCA to offer further comments in the instant matter.

The Project Proponent presented the KML file to indicate the site features in the vicinity of the mine lease area and in the study area of 10 km radius. The Project Proponent explained about the site features in the main mine lease area. The Project Proponent showed the existing working pit of 120m deep. The mining operations mainly will be carried out in the main mine lease and plant operations will be carried out in the supplementary mine lease for recovery of diamonds. Tailing pond is partly located within main mine lease and partly in supplementary mine lease. Water is re-circulated into the plant. The Project Proponent showed the processing plant, existing coarse tailing dumps, existing and proposed waste dumps and ore stack yard. The main mine lease does not involve forest land and the supplementary mine lease involves forest land of 74.018 ha and the Forest Clearance is co-terminus with extended lease period up to 30/6/2040. Water will be utilized from water reservoir built by NMDC. Renewal application was made to CGWA for obtaining approval for dewatering of 321.0 KLD and the same is awaited.

The Project Proponent informed the EAC that baseline data was conducted during December, 2020 – February, 2021 (Winter Season) and then revalidated by collecting one-month fresh baseline data by new EIA Consultant M/s Ecomen Laboratories (P) Limited from 1st October, 2023 – 30th October, 2023. The revalidation

of baseline data was compared with initial baseline data generated during 01.12.2020 to 28.02.2021 and it was found that the revalidation of baseline data similar with previous baseline data and no major variations was observed during the recent study. Till date about 1.95 Lakhs saplings have been planted including both the leases as well as in surrendered areas. The monitoring committee suggested to remove the exotic species. No R&R issues are involved. The action plan for removal of exotic species is yet to be approved by PTR. Total height of dump will be around 25-30 m. The EAC asked the Project Proponent to ensure that no washouts should reach the village. The total excavated area will be 23.576 ha, out of which 3.07 ha will remain as water body at lower benches and the remaining area of 20.506 ha will be covered under plantation. OB & Tailing dump, mineral storage and infrastructure will also be covered under plantation. After removal of tailings, the tailing pond will be developed as a rain water reservoir. No backfilling is envisaged. Advertisement for public consultation was advertised on 20.07.2023 and the Madhya Pradesh Pollution Control Board vide letter dated 22.08.2023 forwarded the objections/suggestions received. The main concerns of the locals were related to drinking water, skill development, improvement of facilities etc., The budget proposed to address the concerns works out be Rs. 252 lakhs for both main mine lease and supplementary mine lease. A capital cost of Rs 342 Lakhs and a recurring cost of Rs 54.5 Lakhs have been earmarked towards Environment Management Plan. The Project Proponent explained about the processing of plant operations. The EAC asked the Project Proponent whether any chemical is added during mineral processing. The Project Proponent informed the EAC that ferro silicon is added to maintain the density.

After detailed deliberations made by the Project Proponent and the EIA Consultant, the EAC opined that the Project Proponent needs to seek clarification from the Hon'ble Supreme Court regarding the applicability of the orders dated 26.04.2023 and 28.04.2023 in this instant proposals. Based on the discussions held, the EAC **deferred** the proposal for want of following additional information: -

- i. The Project Proponent needs to seek clarification from the Hon'ble Supreme Court regarding the applicability of the orders dated 26.04.2023 and 28.04.2023 in this instant proposals.
- ii. The Ministry to seek comments from National Tiger Conservation Authority (NTCA) and Wildlife Division in the instant matter.

1.2 Majhgawan Diamond Mine, Panna of M/s NMDC Ltd. for 0.72 LTPA of over burden removal and Processing of Kimberley ore (8 LTPA) for production of 1.00 lakh carats of Diamond per annum with the mine lease area of 162.631 Ha (Supplementary Mine lease), located at village Majhgawan, Tehsil & District Panna, Madhya Pradesh – [F.No: IA-J-11015/121/2018-IA-II(M), Proposal

no:IA/MP/MIN/442291/2023; EIA Consultant: M/s. Ecomen Laboratories Private Limited] - Revalidation of EC under Ministry's Notification vide S.O. (E) 1530 dated 06.04.2018

The instant proposal of M/s NMDC Ltd. is for mining of Diamond in Majhgawan Diamond Mine for 0.72 LTPA over burden removal and processing of Kimberlite ore of 8.0 LTPA for production of 1.00 lakh carats of Diamond per annum in the mine lease area of 162.631 Ha (Supplementary mine lease), located at Village Majhgawan, District Panna, Madhya Pradesh.

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 proposal was earlier considered in the 20th EAC (Non Coal Mining) meeting held during 21-22 September, 2023 wherein the EAC deferred the proposal for want of requisite information. Then the Project Proponent submitted the information on 02.12.2023 in Parivesh portal and accordingly the proposal was considered in the 24th EAC (Non-Coal Mining) meeting held during 26-28 December, 2023.

Based on observation of EAC in its meeting held during 21-22 September, 2023 and observation of EAC and compliance made by Project Proponent are detailed below:

S. No	Observation of EAC in its		Reply b	y Proje	ct Propone	ent
	meeting held during 21-22					
	September, 2023					
1	September, 2023 The Project Proponent needs to revalidate the baseline data by collecting one-month fresh baseline data by new EIA consultant to ascertain the facts and figures presented in the EIA report and also to ascertain the ground reality. The Project Proponent also needs to submit the comparison of both baseline data.	base one- Con Limi 2023 of b base to 2 reva prev varia stud	Project Project Project Project Project Project Project Provent Provide the Provide the Provide the Provide the Parameters Provide the Parameters Provide the Prov	vas reva baseli Ecom the pe ober, 2 a was enerate and it baselir ine da observe parison ws: -	alidated by ine data b en Labora riod of 1 ² 023. The r compared ed during was foun ne data s ata and ed during	y collecting by new EIA atories (P) st October, revalidation with initial 01.12.2020 d that the imilar with no major the recent ne baseline
		S. No	Falametels	2020-	Monsoon,	μg/m ³
				2020-	2023	µg/m²
		1	PM10	18.6-	33.0 –	100

-					1
	5140 5	64.0			
2	PM2.5	12.1- 41.4	26.0	C	60
3	SO2	6.4 –	7.5	-	80
		13.7	14.4	4	
4	NO2	16.4 -	- 12.8	-	80
		42.3			
		Ambient N	loise levels	3	
l	Location		2020-21	Post	Monsoon, 2023
		L _{day}		L _{day}	
	e View Point	54.8	51.6	43.3	36.1
	opper/Jaw Jsher Plant	61.0	57.4	45.4	36.1
Nea	ar Explosive nagazine	51.7	48.7	43.2	35.8
	me Office gate	43.8	40.7	49.9	37.0
P	rocessing	53.8	50.7	47.6	36.7
plan	it near cone crusher				
P	rocessing nt near HMS	50.8	47.7	47.5	36.5
	Ray Sorter Room	39.8	36.7	46.8	36.4
V	Vorkshop	45.8	42.7	51.8	37.3
M	ajhgawan ownship	43.2	39.3	52.8	38.6
Pan	na National k boundary	40.7	37.6	43.1	35.5
Bharat Mata		43.8	40.6	52.5	38.3
	Temple				
	dle School, auta Village	49.7	46.8	52.0	38.2
Ins	ide Panna tional Park	37.8	34.7	51.3	37.7
ne	ar Hinouta bhant camp				
Prim	nary School, aimasan	36.7	33.8	51.5	37.6
	idards Day Ti	me dB(A)	Co Re	dustrial: mmercia sidential ent Zone	l: 65 : 55,
St	tandards Nigh dB(A)	nt Time	Co Re	dustrial: mmercia sidential ent Zone	ll: 55 : 45,
	Surface	e water qu	uality (3 lo	cations))
S.	Param	eters	Winter	,	Post
No			2020-2 ⁻	1 M	lonsoon, 2023
1	pH at 2	25°C	6.84 – 7.	11 7	08 -7.34
2	Total Dis		258.3 -		22 – 373
	solids,		301.8		

		3	Chloride as cl-,	43.5 – 47.2	26.0 - 34.0
		4	mg/l Total Hardness,	92.6-115.6	116-144
		4	mg/l	92.0-115.0	110-144
		5	COD, mg/l	<3.0	8 -16
		6	BOD, mg/l	<5.0	2 – 2.5
		7	Fluoride as F, mg/l	0.4-0.5	0.49-0.56
		8	Sulphates as SO4, mg/l	14.9-18.3	16.7-23.2
			- -		
			Ground water q		
		S.	Parameters	Winter	Post
		No		2020-21	Monsoon, 2023
		1	pH at 25°C	7.39 - 7.84	7.01 - 7.69
		2	Total Dissolved solids, mg/l	335.1 - 539.4	446 – 612
		3	Chloride as cl-, mg/l	29.4 - 70.5	40 – 75
		4	Total Hardness, mg/l	184.3- 294.8	204 – 280
		5	Fluoride as F, mg/l	0.5 - 0.9	0.48 - 0.77
		6	Sulphates as SO4, mg/l	19.8 - 46.8	22 – 41
				I	11
				(5 locations)	
		S.	Parameters	Winter	Post
		No		2020-21	Monsoon, 2023
		1	рН	7.16 – 7.89	7.24 – 7.77
		2	Electrical Conductivity (µS/cm)	154 - 234	221 – 274
		3	Organic Carbon (%)	0.25 – 0.32	0.36 – 0.57
		4	Available Nitrogen as N (kg/Ha)	35.3 – 57.4	31.2 - 48.0
		5	Available Phosphorus as P (kg/Ha)	14.6 – 28.4	12.7 – 20.2
		6	Potassium (kg/Ha)	468 – 581.8	134 – 203
2	The EAC opined that the	The F	Project Propone	ent submitte	ed the legal
	Project Proponent may seek a		n obtained from		
	legal opinion regarding the		ndia on 23.11		
	applicability of the orders dated		ral for India has		
	26.04.2023 and 28.04.2023 in		d by the Suprer		
		-	8.04.2023 overr		
	this instant proposal.				
			nceived. As su		
		be sa	id to have ove	erruled an e	earlier order

		unless the earlier order is directly put to rest, considered and dealt with. There is no room for overruling by implication also unless the subjects of the two proceedings are common. The order passed by the Supreme Court on 30.11.2022 was with full knowledge and understanding about the national park aspect. It was on the strength of that order, that all statutory authorities applied their mind, more particularly on the need and relevance of the closure of the mining activities and its importance. As a result, the order dated 30.11.2022 may have to treated as a standalone order. It cannot be compared to any other mining activity which has not obtained requisite clearances. Additionally, having regard to the nature of the mining activity and the mischief that may arise from the abandonment of the mining activity, leaving the mined area with all its exposures, would also be a distinguishing factor.
3	The EAC also opined that the Ministry may seek comments from the ESZ Division since the project is located within the Gangau wildlife sanctuary of Panna Tiger Reserve and whether the aforesaid orders dated 26.04.2023 and 28.04.2023 are applicable in the instant proposal or not.	 While on the prima facie reading on the two orders dated 26.04.2023 and 28.04.2023, do seem to suggest against undertaking mining activities within the prohibited areas, as already stated above in view of the clearance given by the Supreme Court, it appears to me that the Querist has a legitimate claim for further undertaking of the mining activity strictly in terms of the approval granted. The ESZ Division gave their comments on 12.10.2023 stating that <i>"Mining within ESZ is a prohibited activity. This has been reiterated by the Supreme Court Order dated 28.04.2023, irrespective of whether the mining is beyond 1.0 km from the boundary of the protected area, in case ESZ extends beyond 1.0 km."</i> The comments of the Wildlife Division obtained on 19.11.2023 are as follows:-

Diamond Mine of M/s NMDC Ltd was recommended by the Standing Committee of National Board for Wildlife in its 61 st meeting held on 18 th February, 2021 subject to the conditions imposed by the Chief Wild Life Warden and the National Tiger Conservation Authority. The recommendations of NTCA were subject to approval of Hon'ble Supreme Court. The Hon'ble Supreme Court order in I.A No: 1485 and 1507 dated 13/8/2008 and I.A No: 47252 of 2021 dated 30/11/2022 in W.P (Civil) no: 202 of 1995 permitted mining operations in Diamond Mining Project, Panna in Gangau wildlife sanctuary of Panna Tiger Reserve."
Subsequently, Hon'ble Supreme Court vide its order dated 26.04.2023 in IA 131377 of 2022 filed by the Ministry in W.P. (C) no. 202 of 1995 has directed that <i>"mining within the</i> <i>National Park and Wildlife Sanctuary and</i> <i>within an area of one kilometre from the</i> <i>boundary of such National Park and Wildlife</i> <i>Sanctuary shall not be permissible."</i> If any clarification is required on the matter, the IA Division may seek the same from Hon'ble Supreme Court."

2. Observation and Recommendation of the EAC:

The instant proposal of supplementary mine lease was appraised together with main mine lease as both the mine leases are contiguous. After detailed deliberations made by the Project Proponent and the EIA Consultant, the EAC opined that the Project Proponent needs to seek clarification from the Hon'ble Supreme Court regarding the applicability of the orders dated 26.04.2023 and 28.04.2023 for the instant proposals. Based on the discussions held, the EAC **deferred** the proposal for want of following additional information:-

i. The Project Proponent needs to seek clarification from the Hon'ble Supreme Court regarding the applicability of the orders dated 26.04.2023 and 28.04.2023 in this instant proposals.

ii. The Ministry to seek comments from National Tiger Conservation Authority (NTCA) and Wildlife Division in the instant matter.

1.3 Bicholim Mineral Block- Block 1 (Auction Block) of M/s Vedanta Limited for mining of Iron Ore with proposed production capacity of 3.0 MTPA, Waste: 25.162 MTPA(Total Excavation: 28.162 MTPA) along with crushing and screening plant capacity of 4.0 MTPA in the mine lease area of 478.5206 ha, located atBicholim, Bordem, Lamgao, Mulgoa, Mayem&Sirigao Villages of Bicholim Taluka of North Goa District, Goa - [F.No: IA-J-11015/3/2023-IA-II(NCM), Proposal No: IA/GA/MIN/ 442593/2023, EIA Consultant: M/s Mineral Engineering Services] – Environmental Clearance (EC)

The instant proposal is for mining of Iron Ore in Bicholim Mineral Block – Block 1 (Auction Block) of M/s Vedanta Limited with proposed production capacity of 3.0 MTPA, Waste: 25.162 MTPA (Total Excavation: 28.162 MTPA) along with crushing and screening plant capacity of 4.0 MTPA in the mine lease area of 478.5206 ha, located at Bicholim, Bordem, Lamgao, Mulgoa, Mayem&Sirigao Villages of Bicholim Taluka of North Goa District, Goa.

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" as the mining lease area is greater than 250ha and appraised at the Central level.
- ii. The mine lease area is located between Latitude: 15°34'20.518"N to 15° 36'54.018"Nand Longitude: 73°54'4.754"E to 73°57'09.51"E. The mine lease area falls under the Survey of India Toposheet No: D43B14 and falls in Seismic Zone-II.
- iii. The proposal was earlier considered in the 20thEAC (Non Coal Mining) meeting held during 21-22 September, 2023 wherein the EAC deferred the proposal for want of requisite information and site visit report of the subcommittee. Accordingly, site visit was carried out during 29-31 October, 2023 and then the Project Proponent submitted the information along with compliance of site visit report on 04.12.2023 in Parivesh portal and hence the proposal was considered in the 24th EAC (Non-Coal Mining) meeting held during 26-28 December, 2023.

Based on observation of EAC in its meeting held during 21-22 September, 2023 and observations of sub-committee during site visit (29-31 October, 2023), the project proponent provided the following compliances:-

		Dambal Destat Destat
S. No	Observation of subcommittee during site visit held during 29-31 October, 2023	Reply by Project Proponent
1	The Project Proponent needs to submit the techno economic feasibility report for laying Over Land Belt Conveyor (OLBC) from the mine lease area to Sarmanas Jetty.	The Project Proponent submitted that transportation route from mine site to jetty currently covers a total distance of 5.48 kms (4.54 dedicated road and 0.94 km MDR-20 Public Road). Based on the present capacity of the tippers, 1205 trips are required per day and the present road network is adequate for the purpose with widening and strengthening of some patches. The preliminary Techno-Economic feasibility study has
		been undertaken and prima facie it does not look feasible to switchover to OLBC system considering the terrain of the likely route having mounds and low-lying areas, vegetation/forest patches and its likely degradation, accessibility, environmental impacts and safety issues, technologies available, cost of the system, implementation period via-a-vis remaining reserves in the mining lease.
		The Project Proponent also submitted the preliminary Techno-Economic feasibility issues for laying Over Land Belt Conveyor (OLBC) from the mine lease area to the Sarmanas Jetty along with cost and timeline comparison for conveyor system and dedicated road.
2	The subcommittee asked the Project Proponent to submit the ecology restoration plan for mined out pits for using as Water reservoir/Pisciculture.	The Project Proponent submitted that the Ecology Restoration or Mine Reclamation activities at Block I Bicholim Mineral block will be carried out concurrently with mining operations. The company has in-house experienced team having experience of mine land
		The Project Proponent also submitted that at conceptual stage, 20 ha area will be converted into water reservoir & 293.5 ha will be converted into backfilled area. Backfilled area will be reclaimed & rehabilitated by the plantation. At conceptual stage around 105 ha (21.94% of the total project area) of land will be brought under plantation. The plantation will comprise of saplings of native species which are generally grown in the state of Goa. The plantation would be a mix of various forest and fruit tree species and

		technical advice would be taken from state forest and agriculture departments. The saplings will be procured from various nurseries like forest department nursery, nurseries developed by locals and also from companies in- house root trainer nursery. Further, the Project Proponent submitted that the Block-I Bicholim Mineral Block is already having a 7.5m wide green belt all along the mine block boundary except the areas where the mine block shares a common boundary with adjoining mine block. A 50m green belt exists towards the habitation within the lease and the same would be further strengthened and maintained. A dedicated 200m green belt would be developed and maintained towards the ldgah area. A density of 2500 saplings per ha will be maintained. Extensive plantation would also be done along the sides of connecting roads.
		The waste dump slopes will be covered with laterite material and then with biodegradable geotextile mats which will prevent soil erosion of the dump slopes and thus will facilitate the growth of native species. Grass seeds will be sprinkled on the dump slopes so that the same germinate during rains. The top of dump areas / levelled areas will be properly planned and developed in to theme based gardens which can be a attraction for school students, tourist etc.
		Some of the mined-out pits will partially backfilled and retained as water bodies.For instance, 1 Top pit and 5 Bottom pits will be finalized by end of first mine plan period and will be taken up for ecology restoration initiatives. The company will collaborate with state fisheries department to develop Pisciculture in the water body developed in the mine pits. Local youth will be provided training through the fisheries department so that they manage and maintain the Pisciculture project.
3	The subcommittee noted that the transfer of material from one pit to other working pit will lead to transportation issues. The subcommittee asked the Project Proponent to identify	The Project Proponent submitted that as suggested by the Hon'ble Committee detailed study of mineral transportation from one pit to another pit including sequential mining has been carried out. The company has explored the possibility of concurrent backfilling and it will be possible only from 5 th to 10 th year. The Project Proponent submitted the google image showing the existing available pits for backfilling and

	the shortest lead distance and also to explore the possibility of concurrent backfilling. The Project Proponent also needs to submit the sequential stage wise mining in top and bottom working pits and their backfilling plan.	proposed pits for backfilling. The Project Proponent also submitted the details of existing pits, area, depth and volume for backfilling and also the proposed working pits, area, depth and volume available for backfilling. Further, the Project Proponent submitted the year wise sequential mining & backfilling plan.
4	The Project Proponent needs to submit the action plan for strengthen the settling pond with proper stone pitching in line with the design of settling pond considering the annual rainfall, flow rate, catchment area and its discharge.	The Project Proponent submitted that at conceptual stage, total 12 no.s of settling ponds will be developed and these will be strengthened by the stone pitching. About 6 numbers of earlier mined out abandoned pits and 12 nos of interlinked siltation ponds have been identified for collecting surface run off from respective catchment sub basins. The Project Proponent also submitted the map showing the settling ponds and drainage network and design of settling ponds. The Project Proponent submitted that a total of 5.49 Million CuM of void volume is available for surface run-offf holding
	The action plan for monitoring the water level and water quality before discharge needs to be submitted.	in six pits having a cumulative area of 58.11 Ha which have a total catchment area of 160 Ha. During entire mine life water holding capacity of 5.49 or more than 5.49 Million CuM will be available at any time. Further, a total 12 nos of settling ponds have been earmarked within and outside the ML Area for collecting surface run off. A total of 0.38 Million M3 of void volume is available for surface run- offf holding in 12 nos settling ponds having a cumulative area of 8.84 Ha. Considering five fillings in a year, the gross volumes of settling ponds will be 1.90 Million M3.
		Further, the Project Proponent submitted that entire monsoon runoff is channelized into mine pits and supernatant water flows into series of settling ponds through drains. The clear water is allowed to naturally overflow by Header arrangements or through check dams.In case required, Lime or combination of Lime and flocculent is used in the mine pit or settling pond so that the particles settle, and clear water is discharged. The discharge water is monitored regularly so that water quality meets the prescribed limits. The inhouse Environment management cell will undertake the regular

		monitoring and analysis of discharge water through Environment laboratory recognized by MoEF&CC. The monitoring reports will be submitted to Goa State Pollution Control Board on monthly basis and MoEF&CC Regional office on six monthly basis. Surface water samples shall be collected at 8 locations which include all the mine discharge points and upstream and downstream of Bicholim and Asnora river. Samples shall be collected once a month. The parameters listed in IS: 2296 shall be monitored. During monsoon season, in addition to the monthly monitoring, all the discharge points
5	The design of garland drain around the waste dumps to divert the water to settling ponds and the measures to be taken to arrest the suspended solids needs to be submitted. The measures to be taken for preventing the soil erosion on slope of waste dumps needs to be submitted.	will be regularly monitored (on all the rainy days) and the TSS levels will be checked. The Project Proponent submitted that the dimensions of the drains will be maintained with width of 2m and 1.5 m in depth everywhere in the mine. A proper height will be maintained on the sides of the garland drain so that water does not get overflooded from the drains. The available garland drains are 11313 m in length which covers all the dumps within the mine lease area. The same will be strengthened and maintained before the onset of monsoon. The daily average surface run-off is estimated as 14003 m ³ . The garland drains have the capacity to accommodate instant volume of 33939 m ³ as per above dimensions. Therefore, garland drains capacity is more than sufficient to take care of average daily surface run off during raining period. Additional drains are proposed to take care of peak run off during the plan period. Therefore, water management structures comprising of drains, settling ponds and mined out pits are available as well as planned to address the catchment area run-off for conceptual period.
		 The Project Proponent also submitted the measures to be taken to arrest the suspended solids and for preventing the soil erosion on slopes of waste dumps for preventing the soil erosion on slope of waste dumps which are as follows: i. Inward slope will be provided to all the dump benches so that the water doesn't flow over the slope and erodes the dump slope surface ii. Covering the finalised dump slope with lateritic material and then covering with coir geotextiles iii. Use of ERW pipes between benches to channelise the surface runoff water and diverting to settling

6 The Proje Proponent needs submit the action pl for installi permanent wa sprinklers.	to an an ersprinklers with 3.40 km length along the haul road within the ML area and 2.80 km length outside the ML area on either side of the road will be installed. Sprinklers will be spaced at 12m distance covering 6m radius at 180 degree. Estimated budget for the installation of the same is Rs. 191.60 Lakhs.S. NoDescriptionCost (Rs. In Lakh) 20.01Civil Works20.02Pump & Sprinkler System88.03Pipeline75.604Electrical Works8.05Total191.60
	the layout of proposed water sprinklers within mine lease area and along dedicated road.
screening units. T Project Propone also needs to subr the material fle sheet and mater balance.	ctTheProjectProponentsubmittedthatCrushingto&screeningunitswillbemodifiedwithin4monthsafteranobtainingtheClearances.BudgetproposedforthesamefyisRs.6.97Crore.TheProjectProponentalsosubmittedtheflowSheetofCrushing& ScreeningUnit.nt<
8 The Proje Proponent needs	ct The Project Proponent submitted that it is proposed to
	to develop nursery adjacent to the mineral block (Survey no

	it the action plan	72/4 in Bicholim Village). Around 1100 sq.m of area will be utilized for the nursery. A budget of Rs. 5 lakh is kept for
for c own menti of th cover be budge Most veget lease of auricu Casua equise furthe open natura The ii check planti	developing their nursery by oning the details be area to be ed, species to planted and et proposed. of the standing ation in the area constitutes Acacia uliformis and arina etifolia and it is er invading the areas through al regeneration. nvasion may be area through	 utilized for the nursery. A budget of Rs. 5 lakh is kept for the same. The nursery will comprise of following: A poly house/ nursery shed will be developed where in a root trainer nursery will be established. Production area wherein various jobs like filling of root trainers/polybags will be undertaken store room wherein the nursery equipment's will be stored Only native / local species of various horticultural and forest species will be grown in inhouse nursery or sourced from forest department nursery for planting in the finalised areas within the Mineral block. Necessary technical support will be taken from state forest department. Company also carries out collaborative mine reclamation projects in association with research institutes like NEERI, Goa university etc. Horticultural species like Mango, Cashew, Ber, Aonla, Jambul, Tamarind, Jackfruit, citrus species, etc will be grown Forest species like various Terminalia tomentosa, Terminalia bellerica, Bauhinia species, Teak, Cassia fistula, Arjun, Assan, lagerstromia species,
9 The	Project	 Shiwan, Ficus species, Pongamiapinnata, Reetha, Rain tree, Pangara, Peltoforum, Palas, Saton, Mahagony, bamboo species etc. The Project Proponent also submitted that during plan period an area of 9.7288 ha (24,322 no. of plants) will be developed under 7.5m safety zone, Buffer towards habitation, archaeological site, & river and an area of 9.4435 ha (23,609 no. of plants) will be developed on backfilled area. A budget of Rs 28.83 Lakhs has been earmarked towards the same. The Project Proponent submitted that the authenticated list
Propo ensur any o specie addeo Wildlin Amen or no	onent needs to re that whether other Schedule-I es has been d as per latest	of Schedule I Species as per Indian Wildlife Protection Act 1972 as amended Gazette Notification of Wildlife (Protection) Amendment Act, 2022 has been obtained from the Dy. Conservator of Forests Wildlife & Eco- Tourism (North), Panji-Goa vide letter no. 1-576- WL&ET(N)/2023-2024/3312, dated 27.11.2023. According to this authenticated list, 29 Schedule I Species have been recorded within 10 km study area.

	revised authenticated	the hr	eak-up of conserva	ation a	ctivitio		hason	under
	Schedule-I		e Conservation Plan					
	species.The Project		sion with the Fore					
	Proponent also needs	conser			osed		•	/ildlife
	to submit the breakup	Conse	rvation Plan are as f					
	of the conservation	S.No	Particulars	1 st	2 nd	3 rd	4 th	5 th
	activities proposed			year	year	year	year	year
	under ['] Wildlife	1	Enrichment of forest					
	Conservation Plan.		areas with suitable indigenous species for					
			wild life habitat					
			improvement					
		2	Creation/ maintenance					
			of habitat for herbivores/ avian					
			fauna					
		3	Management					
			interventions for					
			facilitating water availability to the wild					
			life in forest areas/					
			Improvement of soil	1 1 2	12	12	12	12
			and water regime of					
		4	forest areas Financial support to	_				
		4	the department for					
			conducting awareness					
			campaigns for various					
		5	stakeholders Financial support to	_				
		5	the department for					
			celebrating events like					
			Wildlife week and					
			sponsoring the prizes for the competitions					
1			Total		Rs	1 60.0 La	khs	L
10	The Project	The Pr	oject Proponent sub	omitted				ng the
			e features in the					
	submit the map	Propor				safety		ances
	demarcating the	left/ma	intained as per mine	es acts	and ru	les as	given	below
	surface features in	in table				•		
	the mine lease area	S.No	Features inside		nce fron		Statut	
	and their safety		lease		te Pit Lir UPL)	nit	Distance per MI	
	distances	1	ManasbagMulgao		20 m			VIIX
	left/maintained as per		village					
	mines acts and rules.	2	Mulgao village		58 m		45 n	n
		3	Lamgao village Manaswada Govt.		56 m 38 m			
		4	School within		38 m Students)		
			habitation	•		,		
		5	Gaonkarwada		90 m		45 n	n
			Govt. School	(not fi	unctiona	l)		

			within habitation		
		6	Old Lairai Temple	126m (From 5	
				Bottom Backfilling	
				site)	
		7	Mahadev&Sateri	280 m	
			Temple		
		8	Kelbai Temple	205 m	45 m
		9	Sateri Temple	130 m	
		10	Matrai Temple	150 m	
		11	Nimuzgah	210 m	
		12	Lamgao Caves	300 m	45 m
11	The Project		•	ubmitted that Silt lo	
	Proponent needs to		•	Center for Adva	
	provide proper	departm	nent of geology,	University of Dell	ni and it was
	treatment of channels	conclud	ed that, all the st	ructures made for	the settling of
	and nallas flowing in	sedimer	nts are found t	o be more than	sufficient to
	the lease area for soil	accomm	nodate sediments	even during peal	k rainfall. The
	and water		Proponent submit	.	-
	conservation.		•	Garland drain = 11	313 m
	Scientifically	,	Peak rainfall = 154		
	designed and placed	,	Peak runoff in a da	•	
	check dams and	,		d drain = 33939 m3	
	other engineering	u) C	sapacity of ganant	u u a m = 55858 m 5	•
	5 5	The set	dend drains are n	and auch that from	n un atra ana ta
	structures at different	-		hade such that from	-
	places can help			e drains are meeti	•
	control the erosion	•		e in elevation, to m	
	and loss of productive	•	•	all runoff. The dim	
	soil. Necessary study			e 2m in width and	
	from competent			e site. A proper he	
	institution/individuals	maintair	ned on the sides of	of the garland drair	so that water
	may be done for this	don'ť ge	et over-flooded fro	m the drain.	
	purpose.				
S.	Observation of EAC		Reply by I	Project Proponent	
No	in its meeting held			, ,	
	during 21-22				
	September, 2023				
1	The site visit report of	The Pro	piect Proponent s	ubmitted the obser	vations to the
	the subcommittee.			idations during the	
				lied and submitte	
			2025 are comp		a in fanvesil
0	The Design	portal.	viant Dranas ant	howittad that 5 minute	have of acriter
2	The Project		• •	Ibmitted that 5 num	
	Proponent needs to		•	identified for back	. .
	revisit the plan for			o be generated in	
	backfilling with clearly			de available prog	
	indicating the voids			period. The physic	
	area and the capacity		e pits to be conve	erted into backfilled	areas are as
	available/required for	follows:			
	backfilling.	Mine pit	Total Area	Depth Top Bot	Vol (m ³)

location/ ID	area of pit (ha)	Available for Backfilling (Ha)	(m) J		:L n)	RL (m)			
1 Top	22.4367	20.9942	99		62	-37	1935618	3	
2 Top	13.0803	9.9465	60		60	0	2968920		
3 Тор	16.0596	13.1650	70		110	40	2240000		
3⁄4	-	-	109		102	-7	-	<u> </u>	
Bottom 5 Top	37.0242	35.7242	78		98	50	1421312	4	
5 Top	-	-	77		124	47	-		
CB 5	15.4196	12.0840	92		87	-5	7035240)	
Bottom Total	104.0204	91.9139					4581346	7	
	ed into ba	ith minir ackfilled a Area Available for Backfilling						-	
		(Ha)						-	
2 Top	43.1944	39.2331	116	91	-25	105189	96 5 th y	ear	
3/4 Bottom	39.4606	34.6140	169	102	-67	154126	ye		
2 Тор	68.52	65.6420	113	103	-10	479120			
3 Top/2 Top combined	38.2545	36.6500	118	108	-10	381612	13 th y	/ear	$\left\ \right\ $
4 Top/3 Top Combined	-	-	84	73	-11	-	11 th 13 th y		
5 Top CB Pit	-	-	168	94	-74	-	11 th 13 th y		
Total	189.425	176.1391				1120048		lear	-
orked nd dur ccavati r back nid volu ts havi ea of (out pits v ing the on, 112 r filling. Th ume will ing a cui 52 Ha wi	e above will have Plan & million m herefore, be availa mulative Il be avai or storing	void Conc 3 of vo a tot able f area ilable	volur ceptu oid v al o for b of 2 as v	me c ial p rolum f 15 backf 68.0 ids	f 45.8 period ne will 7.98 m illing il 5 Ha.	1 million progres be avail nillion M n mined Addition	m3 sive able 3 o ou ally	3 e e f it
ne Proj aste g	ject Prop eneratior	onent als	so sub e 124	omitt 4.9 r	ed tł nillio	n Cun		wil	I

		1.2.Annual waste generation is in ra million cum per year with an average per year considering life of the mine a the presently available mineable rese may reach upto 30 years if entire res to reserves by removing all encumbra	e of 9.61 million cum as 13 years based on erves. Life of the mine ources are converted
3	The Project Proponent needs to submit the design of settling ponds by considering the annual rainfall, catchment area and its discharge.	The Project Proponent submitted that total 12 no.s of settling ponds will be will be strengthened by the stone numbers of earlier mined out abando of interlinked siltation ponds have collecting surface run off from respe- basins. The Project Proponent also showing the settling ponds and dr design of settling ponds.	developed and these e pitching. About 6 oned pits and 12 nos been identified for ective catchment sub o submitted the map
		The Project Proponent submitted that CuM of void volume is available for su in six pits having a cumulative area have a total catchment area of 160 H life water holding capacity of 5.49 Million CuM will be available at any 12 nos of settling ponds have been of outside the ML Area for collecting sur 0.38 Million M3 of void volume is ava offf holding in 12 nos settling ponds area of 8.84 Ha. Considering five f gross volumes of settling ponds will b	urface run-offf holding a of 58.11 Ha which la. During entire mine or more than 5.49 time. Further, a total earmarked within and face run off. A total of ilable for surface run- having a cumulative illings in a year, the
		Particulars	Details
		Catchment area of pits	160 ha
		Rainfall received	160 ha x 3500 mm
			= 5.6 Million CuM
		Effective surface runoff to be	
		accumulated in voids	Million CuM 5.49 Million CuM
		Pits water holding capacity Gross settling ponds capacity	1.90 Million CuM
		Total water holding capacity of	
		mined pits and settling ponds	
		Further, the Project Proponent subn water holding capacity in pits and Million CuM) is more than rainfall volume from catchment (3.92 Mil sufficient space for effective surface r	settling ponds (7.39 and surface runoff lion CuM), there is runoff management in
		during extreme precipitation times. T drains to be maintained will be 2m i	

		depth everywhere maintained on the s does not get over- garland drains are surface run-off is drains have capac 33939 m3 as per drains capacity is average daily sur Additional drains ar during the plan p structures comprisi out pits are availab catchment area run discharge water will of water is maintain always clear water system. In case rea in the pits by using chemicals.	sides of the g flooded from 11313 m in estimated as ty to accom above dimer more than face run of e proposed to eriod. There ng of drains, ole as well a -off for conce I be regularly ed as per the from ponds quired, water	arland the dra length 14003 modate sions. sufficier of durin o take of fore, w settling s plann ptual po monito prescri s / pits treatmo	drain so ains. The and dail m3. The instant Therefore to tak g rainin care of pe vater ma ponds a ned to ac eriod. The ored so the bed stan meet the ent would	that water available y average e garland volume of e, garland e care of g period. eak run off nagement and mined dress the e overflow hat quality dards and he natural d be done
4	The Project Proponent needs to bypass the public road and also to explore the possibility of increasing the capacity of the truck	The Project Propo transportation route and public road. Th kms (4.54 km dedic Road).Traffic load trucks are as follow S.No Transportation	e comprising e total travel ated road ar and effectiv s:-	of dedio distance id 0.94	cated roa e upto Je km MDR ince bet	etty is 5.48 -20 Public
	so as to reduce the	working days	(In TPA)	Day	per day	transport
	no. of trips. The EAC opined that the	1 237	30,00,000	12658		Road
	opined that the Project Proponent	Tota	l Trips per day		1205	
	needs to revisit the traffic load by	The Road width follows:	details for v	arious	segment	s are as
	considering the cycle		oad corridor			Road
	time and waiting time. The Project	3.31 km	1.23 kn			1 km
	Proponent needs to	12-15 mts wide Road	7 mts wide	Road	7 mts wi	de Road
	submit the action plan for strengthening the road and for converting the unpaved road into concrete road.	Further, the Project details:- i. Capacity of Deptt. of Min ii. Total Handlir iii. Transportation am to 12.45 the effective	truck is 10.5 es & Geology ng per day is on timings are pm and 2:00	tons a y, Goa 12658 t e 6.00 a pm to 5	s per dir ons /day m to 7.00 5.45 pm.	ectives of) am, 8:00 Therefore,

iv.	Per Hour Handling is: 1332 tons/hour
٧.	No. of Vehicles per Hour (One way): 127 vehicles
vi.	No. of Vehicles per Hour (to and fro): 254 vehicles
vii.	The Speed of vehicle is 25 KMPH and the lead
	distance is 5.48 kms
viii.	The time taken for 5.48 km is 13.15 mins for each
	truck and loading time is 1min, weighment time at
	both source location is 2 min, Tarpaulin tying and
	untying time is 2 min, unloading time 1 min and
	waiting time 10 min.
ix.	Each truck length is 15'. 5" (4.58 m)
X.	Distance from truck to truck is 5 m both side = 10 m
xi.	Each vehicle occupies a min. distance of 14.58 m =
<u></u>	$\sim 15 \text{ m}$
xii.	
xiii.	The length of road is 5.48 Km = 5480 m No. of vehicle which can travel on this road for one
XIII.	
	side= $5480 / 15 = 365$, However we would be plying
	only 127 trucks hence effective distance between
	two vehicles is 43 m.
The	Draiget Drepenent submitted the following mitigation
	Project Proponent submitted the following mitigation
-	sures for transportation:-
i.	Public road is hot mixed and same will be
	maintained.
ii.	Dedicated road is proposed to be hot mixed in
	phased manner.
iii.	Entire Dedicated transportation route is surrounded
	by thick Green Belt
iv.	Transportation vehicles shall be properly
	maintained to minimize the exhaust emission.
۷.	Regular tests shall be carried out to check exhaust
	emission and PUC certification of transportation
	vehicles at prescribed interval.
vi.	Transportation trucks will be loaded with prescribed
	capacity and covered with tarpaulin before leaving
	mines premises.
vii.	Overloading of the material will be avoided.
viii.	Regular monitoring of the emission levels.
ix.	Over speeding of Vehicle will not be allowed.
х.	Traffic Marshals shall be provided for regulating
	movement of vehicles as well as for safety of
	persons.
xi.	Training will be given to all drivers about safe
	driving.
xii.	Regular water sprinkling by means five hired water
	tanker of 10KL capacity on haul road and Loading

		points will be carried out
		xiii. Used of fixed dust suppression system on haul roads
		xiv. Installation of two wheel washed system (one each at the exit of the dedicated road and jetty exit respectively
		xv. Manual and mechanised machines for road sweeping
		xvi. Washing of mine exit points/Junctions (Mayem, Pilgao and Jetty exit area) after transportation hours/at night with water tanker having pipe arrangements
		xvii. Underpass proposed at Mayem junction to prevent interface with public.
		The Project Proponent submitted that the regular mining in the state of Goa stopped since 2012 (it started for brief period in 2018 and again stopped). The truck owners who have already invested in the 10.5 T trucks are severely affected due to the stoppage of mining activity and are against procurement of new / high-capacity trucks, till their losses are covered. The company has already conducted series of meetings with the truck owner's associations for the higher capacity trucks and the truck owners are not agreeing to any changes in short term of 5 years. However, the engagement with the truck owners for higher capacity truck will continue. Company will also engage with all stake holders to explore the feasibility for installing conveyor belt system for transportation in near future, if permitted.
		The public road which is used for transportation is only 0.94 km long and the same is a hot mix road and in well maintained condition. The dedicated road of 4.54 km has very thick green belt on both the sides. There is no habitation along the dedicated road. Nearest habitation will be more then 250m from the road. The dedicated road before joining the public road is concreted and provided with the wheel wash system. Dedicated road sweeping machine will also be deployed to maintain the public road clean. The company also undertakes to hotmix the stretch of 4.54 km of dedicated road in a phased manner in three
		years' time frame. The estimated cost towards hot mixing
		is worked out as INR 18 crores.
5	Since the mine lease area is sharing the	The Project Proponent submitted the letter from the Office of theDy. Conservator of Forests, North Goa Division
	Mayem Forest	Sensitivity: Public (C4) vide letter no. 5/MINES-

	l .	
	common boundary, the Project Proponent needs to submit the letter from the State Forest Department regarding the involvement of forest land in the mine lease area.	GEN/DCFN/TECH/2023-24/56, dated 12.04.2023 stating that the detail of village wise Survey No.s within Block-1 of Bicholim Mineral block was verified and found that the area under the above mentioned Survey Nos is not a Govt. Forest and also does not identified as Private Forest by State Level Expert Committee headed by Sawan/Dr. Karapurkar/V.T. Thomas.
6	The Project Proponent needs to submit a letter from the Department of Geology and Mining, Government of Goa 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. Vedanta Limited or not?	 Directorate of Mines & Geology vide Lr. No. 03/24/2023/ Major/Mines/Part/489 dated 25.07.2023 stating that a) M/s. Vedanta has been declared as Preferred Bidder for Bicholim Mineral Block- Block I through an auction process conducted by the Government of Goa as per the Mineral Auction Rules, 2015. b) M/s. Vedanta Ltd., was not the erstwhile lessee of the said Block prior to auction. c) The matter of illegal mining in the State of Goa is under investigation by the Special Investigation Team (SIT). The Project Proponent also submitted that the Block-I Bicholim Mineral Block was earlier operated by Sesa Mining Corporation Ltd. (SMCL) formerly known as Dempo Mining Corporation Ltd. Pursuant to Supreme Court Judgment in Goa Foundation order dated 07.02.2018, all the mining leases granted by the State Govt. were cancelled. Thereafter, State Govt. in terms of the said order and as per the provisions of MMDR Act put this block for auction as a fresh lease grant. The e-auction process was conducted in accordance with the Tender Document for said Mineral Block. Vedanta Limited emerged as the highest qualified bidder having submitted the highest final price offer and was declared as the preferred bidder under Rule 9(9) (iii) of auction Rules. Further, upon submission of the first Installment, being 20% of the upfront payment, Government of Goa issued a Letter of Intent (LOI) vide letter no. DMG/25/Auction Cell/LOI-function/2023/2801 dated 13.01.2023 for the grant of a mining lease for Block-I Bicholim Mineral Block in Bicholim, Bordem, Lamgao, Mulgao, Mayem&Sirigao Villages, of Bicholim Taluka, North Goa District, Goa State
		over an area of 478.5206 Ha over a period of 50 years.
7	The Project	· · ·
	Proponent needs to	Control Board vide their letter No. 11/15/2023-PCB/

Γ	submit	the	video	Leg/13555 dated 22/09/2023 submitted all the documents
	recording	of	the	related to public hearing including public hearing video to
	public hea	aring.		the Member Secretary, EAC (Non Coal Mining).

Date of	File. No/	Consideration	Details	Date of
application 16.03.2023	Proposal No F.No: IA-J- 11015/3/2023- IA-II(NCM) IA/GA/MIN/ 422323/2023	3-4 May, 2023	Terms of Reference (ToR) to M/s Vedanta Limited for mining of Iron Ore in Bicholim Mineral Block – Block 1 (Auction Block) with proposed production capacity of 3.0 MTPA, Waste: 25.162 MTPA (Total Excavation: 28.162 MTPA) along with crushing and screening plant capacity of 4.0 MTPA in the mine lease area of 478.5206 ha, located in Bicholim, Bordem, Lamgao, Mulgoa, Mayem & Sirigao Villages of Bicholim Taluka of North Goa District, Goa	accord 16.06.2023

iv. Details of Terms of Reference (ToR):

- v. Details of Mine Lease:
 - a) The Project Proponent has submitted the Letter of Intent (LoI) granted by the Government of Goa vide Lr No: DMG/25/Auction Cell/LOI-function/2023/2801 dated 13.01.2023 for grant of mining leasefor Block I - Bicholim Mineral Block for Iron Ore in Bicholim, Bordem, Lamgao, Mulgao Mayem & Sirigao villages, Bicholim Taluka, North Goa District over an area of 478.5206 Hectare for a period of 50 (fifty) years in pursuant to Rule 10(2) of the Auction Rules. This letter of intent is valid for a period of 3 (three) years from the date of its issuance.
- vi. Land Use/Land Cover of the Mine Lease Area:

Private land	421.1153 Ha
Government land	57.4053 Ha
Total Mining lease area (MLA)	478.5206 Ha
Private land for crusher, workshop &	Not Applicable
other infrastructure outside the MLA	

vii. Details of Mining Plan:

Review and Mining Plan approved	Letter No.	No. MCDR-MPC 1 2O23-GOA-IBM_		
by Indian Bureau of Mines, Goa		RO_GOA		
	Date	26.05.2023		
	Mine Lease	478.5206 Ha		
	Area			
	Mineral	Iron Ore (Major Mineral)		
Mining Parameters	Quantitative	Description		
Method of Mining	Opencast m	echanized mining without Drilling &		
	Blasting			
Drilling/Blasting	Not Applicab	le		
Total Reserves and Resources	84.73 Million	Tonnes		
Proved Mineral Reserve	36.071 Millio	n Tonnes		
Life of mine	30 years			
Bench Height	7 m			
Bench Width	10 m			
Individual bench slope	70 ⁰			
Overall pit slope	<26 ⁰			
RoM output size	Less than 50	0 mm		
Crushing/Screening	Mobile Dry (Crushing and Screening plant shall be		
	available within the proposed mine to handle 4			
	MTPA of c	rude ore. The primary crusher will		
	consist of 1 no. of Jaw crusher of capacity 120 TPH			
	with an input feed of -500mm and shall produce			
	output of -70 mm. It shall be followed by secondary			
	crushers, 2 no.s of capacity 300 TPH and 200 TPH			
	respectively. The input feed size shall be -70mm			
	and output feed size obtained shall be -40mm. The			
	•	Plants of capacity -600TPH shall be		
		ere input the feed size shall be -70mm		
		duct of -40mm lumps & -10mm fines.		
Transportation details		e or Screened/crushed material will be		
		by 10.5 Tonne trippers from Mine to		
		tty through a dedicated road. The total		
	distance from the mine to Jetty is 5.58 km of which			
	0.94 km stretch is public road and remaining 4.64			
	km is company owned dedicated road.			
Dumpers capacity	40 tonne (wit	•		
Waste handling and Disposal	•	nining period, the waste generated by		
	•	e temporarily stacked within the mining		
		as surface dump and backfilled in the		
		ortion of the pits. The total waste to be		
		uring the plan period is about 69.85		
		es. An area of 6.7146 Ha shall be		
	utilized for	Dumps and Material stocking at the		

conceptual stage of mining.

viii. Water requirement:

Total water	664 KLD	Pit Water	628 KLD	
requirement		Ground water	36 KLD	
Source	Water from Mine Pit will be used for dust suppression, Vehi washing and Green belt. Water for domestic requirement will met from bore well.The Bore wells are registered with Goa State Water Resound department. Application for using mine pit water will be submitted			
Permission				

ix. Nearest village / town/ highway/railway station / water bodies/monument:

Particulars	Particular's Name	Distance & Directions	
Village Lamgoa		Within the lease area	
Town	Bicholim Town	0.5 km, East	
Road	State Highway SH-1	0.65 km, East	
Railway Station	Tivim Railwaystation	10.5 km, North	
Water Bodies	Asnora River	Touching lease boundary at one of	
		the points	
	Mayem Lake	0.46 km	
Mandovi River 2		2.3 km, SW	
School	Mulgao Govt. Primary	Within the lease area	
	School		
Worship places	Namuzgah/Idgah	Within the lease area	
	Shri Lairae Temple	0.86 km	
Caves/Fort	300m buffer from Lamgao caves		
	Khorjuvem Fort: 2 km		

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

Forest Land/Protected Area/Environmental Sensitivity Zone	Yes/ No	Details of Certificate/letter/Remarks
Forest Land	Yes	Mayem Forest Common Boundary with the mine lease area The following Reserve Forests are located within 10 km radius of the mine lease area such as Kharapal RF -6.7 km Kasarpal RF - 5.1 km Ambadgaon RF - 7.6 km
National park	No	The Project Proponent has submitted the letter from the Office of the Dy. Conservator of Forests vide Lr No: DCF(WP)/Tech/Digi/Vol-I/75/2022-23/ 968 dated 23.01.2023 stating that the proposed Bicholim Mineral Block-I is not situated within 10

		km radius from the boundary of any the protected area in the State of Goa. PP also submitted the authenticated map dated 24.01.2023 showing the distance of the following Wildlife Sanctuary from the mine lease area. i. Madei Wild life Sanctury-14.105 km, E ii. Salim Ali Bird Sanctuary -10.553 km, SW iii. Bondla Wild life Sanctuary -20.476 km, SE
Schedule-I species	Yes	The Project Proponent has submitted the letter from the Office of the Dy. Conservator of Forests vide Lr No: 5/FCA/GEN/F&F/DCFN/TECH/2022-23 dated 04.04.2023 with regard to list of Flora and Fauna species present in core and buffer zone. The following Schedule-I species are found in the study area such as 1 Common leopard (<i>Felidae</i>) 2 White-bellied Sea-Eagle(<i>Accipitridae</i>) 3 Indian Peafowl (<i>Phasianidae</i>) 4 Crimson rose- Butterfly (<i>Papilionidae</i>)
Status of Wildlife Conservation Plan	Yes	Wild Life Conservation Plan is prepared and submitted for approval of Chief Wildlife Warden (CWLW) on 19.06.2023. PP has submitted the copy of the acknowledgement from Chief Wildlife Warden.

xi. Green belt/plantation details:

105.8894 ha	
Rs159.0Lakhs	
Area covered (in Ha)	
25 ha	
25 118	
80.8894 ha (on backfilled area)	

xii. Details of Baseline data:

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)					
Period of baseline data collection	March, 2023 to May, 2023				
Season (Summer / Pre-monsoon	Summer Season				
/ Post-monsoon / Winter)					
Ambient Air Quality (no. of	No. of	Parameters	Results		
locations) and results	Locations				
	9	PM10	27.0 to 56.0 μg/m ³		
		PM2.5	14.0 to 36.0 μg/m ³		
		SO2	4.0 to 13.0 μg/m ³		

		NO2	<4.0 to 18.0 μg/m ³
Noise level (no. of locations) and results	No. of Locations	Parameters	Results
	09	During Day Tim dB(A)]	ne [Leq 43.1 to 61.7
		dB(A)]	ne [Leq 35.9 to 49.3
Water Quality (no. of locations)	Surface wa	ater quality	
and results	No. of Locations	Parameters	Results
		рН	6.35 - 7.39
		TDS (mg/l)	72 - 11240
		Fluoride (mg/l)	<0.1
		Chloride (mg/l)	18 - 5620
		Fe (mg/l)	<0.05
	07	Dissolved Oxyger (as O ₂), mg/l	6.2 – 6.9
		Biochemical Oxygen Demanc (as O ₂), mg/l	3.0
		Chemical Oxyger Demand (COD) mg/l	
	Groundwat		
	No. of Location	Parameters	Results
		рН	5.63 - 7.07
	40	TDS (mg/l)	20 – 150
	10	Fluoride (mg/l)) 0.1
		Chloride (mg/l)) 5.0 - 19.0
Soil Quality (no. of locations) and results	No. of Locations	Parameters	Results
		рН	5.38 to 5.78
	07	Electrical Conduc (mohs/cm)	0.28 to 0.318
		Nitrogen (kg/h	a) 200 to 275
		Phosphorus (kg	-
		Potassium (kg/	-

XIII. Public Hearing (PH) Details:	Public Hearing (PH) Details:	. Pub	xiii.
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Advertisement for PH with date	07.07.2023
	Regional: Bhangar Bhui, Heraldo, Lokmat & Free
	press journal (Mumbai Edition) News papers

Date of PH	11/08/2023
Venue	Narayan Zantye Multipurpose Sports Complex,
	Sarvan, Bicholim, Goa
Chaired by	District Collector, North Goa
Main issues raised during PH	Pollution, impact on ponds, Support for Education,
	Health, Agriculture Development & Skill
	Development, Employment.
Budget proposed for addressing	Rs 309.3 Lakhs
issues raised during PH	

xiv. Rehabilitation & Resettlement:

R & R details	There is presence of habitation within ML Area at Mulgao and lamgao
	villages. Safety Buffer of 50m will be maintained from the habitations.
	o ,
	No Rehabilitation & Resettlement Plan is proposed during life of
	mine.

xv. Court case details:

Court Case	Yes	
Court Case Additional information (if any)	Yes First Case: 1. WP(Civil) 2478 of 2022 (Filing number before the High Court of Bombay at Goa 2. The said writ petition has been filed again the State Government and seeks challenge the identification of properti bearing survey no. 90/1(part) and 96/0 part of the recently auctioned Bichol mine. The petition alleges violation of Rt 5 &6 of Mineral Evidence Rules a Section 10B of MMDR, Act by the State Goa and DMG. The petitioner has pray for quashing of auction notice to the exter it includes the property of the petitioner a grant a writ of mandamus against the state construction.	
	 Respondents. 3. Case status is pending. 4. No adverse orders have been passed. 5. As per the last order the matter has been dispased of by the HC on 17th luly 2022 	
	disposed of by the HC on 17 th July 2023 with a direction to the Petitioner to make a representation before the Government and the Government is to dispose of the same within four months.	
	Second Case:	
	1. WP 592 of 2022	
	The said writ petition seeks to challenge the constitutionality of the tender	

	 documents of Phase I auction of Goa mines. The petition alleges violation of Rule 5 & 6 of Mineral Evidence Rules by the State of Goa and DMG. The petition alleges non-disclosure of essential facts such as bore hole data, approved mining plan, production data of the previous five years and exploration data. The petitioner has prayed for quashing of auction notice to the extend it fails to include the essential facts and in the alternative to stay the auction. Case status is pending No adverse orders have been passed. As per the last order the matter is listed on 01.09.2023.
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xvi. Affidavit/Undertaking details:

Affidavit as per Ministry's OM dated 30.05.2018	The Project Proponent has submitted the Affidavit in a non-judicial stamp paper of Rs 100 bearing no: A807037 dated 24.04.2023 stating that they will comply to the directions issued by MoEF&CC vide Office Memorandum F.No.3-50/2017.IA.III (Pt) dated 30th May, 2018 in terms of directions given Hon'ble Supreme Court in judgment dated
	2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors.
Undertaking of Project Proponent	The Project Proponent has submitted an undertaking stating that the Environmental Impact Assessment Report of Block-1 Bicholim Mineral Block of M/s Vedanta Ltd was prepared by M/s Mineral Engineering Services, QCI/NABET Accredited EIA Consultant at Sr.No. 55 as per list of list of accredited consultant/organizations.
	The Project Proponent has submitted an undertaking that the information and data provided in the EIA report and submitted to the Ministry are factually correct and they are fully accountable for the same.
Consultant submitted an Undertaking vide letter dated 02.06.2023	This is to declare that the prescribed ToRs have been complied with and that the data submitted are factually correct in respect of EIA & EMP report prepared for Block-1 Bicholim Mineral Block of M/s Vedanta Ltd, Goa.

Activities	Capital cost (Crores)	Recurring cost
		(Lakhs/annum)
Plantation	-	7.5
Environment monitoring	44	44
Air pollution control measures	20	300
Water Treatment	-	11
Erosion control /monsoon measures	-	221
Personal protective equipment	-	15
Maintenance of fire protection systems	-	1.5
Environment awareness & training	-	5
Health	8	16
Total	72	621

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

xviii. Details of project cost and employment:

Particulars	(Rs. In lakhs)
Project Cost	25000 Lakhs
Employment	716 no.s

3. Observation and Recommendation of the EAC:

The Project Proponent presented the KML file to indicate the site features in the vicinity of the mine lease area. Then, the EAC deliberated on the additional details submitted by the Project Proponent and the EIA Consultant. The Project Proponent/EIA Consultant informed the EAC that plan for backfilling has been revised. About 5 numbers of earlier mined out pits have been identified for backfilling purpose to accommodate waste to be generated in future besides additional pits to be made available progressively with mining till conceptual period. The existing and conceptual availability of voids for backfilling is 157.98 (say 158) million CuM. Conceptual waste generation shall be 124.9 million Cum which will have a swelled volume of 147.43 million CuM. The void area and the capacity available are more than sufficient to meet the backfilling requirement. The Project Proponent also presented the year wise production from the working pits and waste disposal locations. Further, the Project Proponent presented the Progressive Mine Closure Plan showing working pit, backfilling, drainages and settling ponds at the end of plan period.

The Project Proponent informed the EAC that a total of 0.38 million cu.m of void volume is available for holding surface run-off in 12 nos of settling ponds having a cumulative area of 8.84 ha. The EAC asked about the highest rainfall in the past. The Project Proponent informed the EAC that the highest rainfall was 3900mm in the last 10 years. The Project Proponent also informed the EAC that total water holding capacity in pits and settling ponds (7.39 Million Cu.M) is more than rainfall and surface runoff

volume from catchment (3.92 Million Cu.M) and hence there is sufficient space for effective surface runoff management in during extreme precipitation times. It is also proposed to strengthen the existing settling ponds embankments by stone pitching, cement pointing, addition of filter beds etc., The total travel distance upto Jetty is 5.48 km comprising of 4.54 km dedicated road and 0.94 km MDR-20 Public Road. Transportation working days will be 237 days. Trips per day will be 1205 and the capacity of the truck is 10.5 Tonne (T). It is proposed to have a dedicated road in place of 0.94 km stretch of public road within 2.5 years. It is also proposed to replace existing trucks of 10.5 t with higher capacity trucks of 25 t in phased manner to reduce traffic load and emissions per tonne/km. The EAC suggested the Project Proponent to speed up the process of construction of underpass. The Project Proponent presented a letter obtained from the Office of the Deputy Conservator of Forests letter dated 12.04.2023 stating that village wise Survey nos within Block-1 of Bicholim Mineral Block is not a Govt. Forest land and also does not identified as Private Forest land by State Level Expert Committee headed by Sawan/Dr. Karapurkar/V.T. Thomas. The Project Proponent also informed the EAC that Goa State Pollution Control Board vide their letter dated 22/09/2023 submitted all the documents related to public hearing including public hearing video to the Member Secretary, EAC (Non Coal Mining).

Then, the Project Proponent presented the point wise compliance of the recommendations of the subcommittee. The Project Proponent informed the EAC that preliminary techno-economic feasibility study has been undertaken for capacity of 3.0 MTPA from dry mineral processing plant to Sarmanas jetty covering a length of 5.72 km. Width of OLBC corridor is 17 m including service road. The proposed alignment for Over Land Belt Conveyor (OLBC) will be along the current transportation route. At prima facie it does not look feasible to switchover to OLBC system considering the terrain of the likely route having mounds and low-lying areas, vegetation/forest patches and its likely degradation, accessibility, environmental impacts and safety issues, technologies available, cost of the system, implementation period via-a-vis remaining reserves in the mining lease. Further, the Project Proponent also submitted that they will engage with all stake holders to explore the feasibility for installing conveyor belt system for transportation in near future. At conceptual stage, area of 20 ha will be converted into water reservoir &an area of 293.5 ha will be converted into backfilled area and will be reclaimed & rehabilitated by the plantation. The mined out pits will be converted into water reservoirs, pond with other ecotourism facilities like water sports, boating, fishing etc. Pisciculture in mine pits will be developed and also to involve the community for cage fishing to make it a commercially viable venture. It is proposed to develop themebased gardens like medicinal gardens, horticulture gardens, spice gardens etc. A garden will be developed near the Idgah within the mining block area and proper road will be provided for access of visitors and pilgrims. The Project Proponent also presented the eco restoration model developed in other mines.

The Project Proponent informed the EAC that garland drain capacity is more than sufficient to take care of average daily surface run off during raining period. Additional drains are proposed to take care of peak run off during the plan period. A proper height will be maintained on the sides of the garland drain so that water does not get overflooded from the drains. Permanent water sprinklers with 3.40 km length along the haul road within the mine lease area and 2.80 km length outside the mine lease area on either side of the road will be installed. Crushing & screening units will be modified within 4 months after obtaining the Clearances. It is proposed to develop nursery adjacent to the mineral block (Survey no 72/4 in Bicholim Village). Around 1100 sg.m of area will be utilized for the nursery. The Project Proponent informed the EAC that the authenticated list of Schedule I Species as per Indian Wildlife Protection Act 1972 as amended Gazette Notification of Wildlife (Protection) Amendment Act, 2022 has been obtained from the Dy. Conservator of Forests Wildlife & Eco-Tourism (North), Panji-Goa vide letter dated 27.11.2023 and according to this authenticated list, 29 Schedule I Species have been recorded within 10 km study area. The conservation activities proposed under Wildlife Conservation Plan has been revised with a budget of Rs 60.0 Lakhs and same will be finalized after discussion with the Forest Dept. A silt load study was carried out through Center for Advance studies, Department of Geology, University of Delhi and it was concluded that, all the structures made for the settling of sediments are found to be more than sufficient to accommodate sediments even during peak rainfall.

The Project Proponent informed the EAC that a letter was obtained from the Directorate of Mines & Geology vide letter dated 25.07.2023 stating that matter of illegal mining in the State of Goa is under investigation by the Special Investigation Team (SIT). The EAC asked the Project Proponent to submit the undertaking regarding illegal mining. The Project Proponent submitted an undertaking vide email dated 26.12.2023 stating that M/s Vedanta limited is the preferred bidder for the Bicholim Mineral Block-Block 1 declared by the Govt. of Goa and it is also to undertake that there is no illegal mining done by M/s Vedanta Itd. The EAC opined that the instant Environmental Clearance (EC) is subject to the outcome of the WP 592 of 2022(MSPL v. State of Goa & Ors.) regarding challenging the constitutionality of the tender documents of Phase I auction of Goa mines and PIL WP 2029/2023 (F) (Suresh Govind Gaonkar & Ors v. Directorate of Mines and Geology & Ors) regarding challenging the state's decision to go ahead with the auction of the mining block.

After detailed deliberations made by the Project Proponent and the EIA Consultant, the EAC in its meeting held during 26-28 December, 2023 under the provisions of EIA Notification 2006 and its subsequent amendments, **recommended** the proposal for grant of Environmental Clearance (EC) to Bicholim Mineral Block- Block 1 (Auction Block) of M/s Vedanta Limited for mining of Iron Ore with proposed

production capacity of 3.0 MTPA, Waste: 25.162 MTPA(Total Excavation: 28.162 MTPA) along with crushing and screening plant capacity of 4.0 MTPA in the mine lease area of 478.5206 ha, located at Bicholim, Bordem, Lamgao, Mulgoa, Mayem & Sirigao Villages of Bicholim Taluka of North Goa District, Goasubject to the following specific conditions in addition to the standard EC conditions applicable for non-coal mining projects: -

- i. The instant Environmental Clearance (EC) is subject to the outcome of the WP 592 of 2022 (MSPL v. State of Goa & Ors.) regarding challenging the constitutionality of the tender documents of Phase I auction of Goa mines and PIL WP 2029/2023 (F) (Suresh Govind Gaonkar & Ors v. Directorate of Mines and Geology & Ors) regarding challenging the state's decision to go ahead with the auction of the mining block.
- ii. The Hon'ble Supreme Court has imposed a capping on mining of iron ore to 20 MTPA for the entire State of Goa. Accordingly, the Project Proponent shall first obtain the necessary permission from the competent authority with regard to the amount of mineral they can mine per year, before starting its mining operation.
- iii. As committed before the EAC, the Project Proponent needs to explore the feasibility for installing conveyor belt system for transportation.
- iv. The Project Proponent needs to obtain prior permission from the MoEF&CC for mining in common boundary as and when required.
- v. The ecology restoration or mine reclamation activities shall be carried out concurrently with mining operations. The Project Proponent shall ensure that the restoration models demonstrated before the EAC shall be developed in association with research institutes like NEERI, Goa University etc.
- vi. The mined out pits will be converted into water reservoirs, pond with other ecotourism facilities like water sports, boating, fishing etc., Pisciculture in mine pits will be developed and also the local community will be involved for cage fishing to make it a commercially viable venture.
- vii. The waste dump slopes shall be covered with laterite material and then with biodegradable geotextile mats to prevent the soil erosion of the dump slopes so as to facilitate the growth of native species.

- viii. Regular monitoring and analysis of discharge water and at upstream and downstream of Bicholim and Asnora river needs to be carried out quarterly through NABL/MoEF&CC accredited laboratory.
- ix. Extensive native fruit bearing plantation shall be carried out in all safety zones with density of 2500 trees/ha.
- x. The Project Proponent needs to install the permanent water sprinklers along 3.40 km haul road within the ML area and 2.80 km length outside the ML area on either side of the road.
- xi. As committed by the Project Proponent, existing trucks of 10.5 Tonnes shall be replaced with higher capacity trucks of 25 Tonnes in phased manner to reduce traffic load and emissions per tonne/km.
- xii. Fugitive dust monitoring during transportation shall be monitored regularly at all the sensitive receptors and report shall be submitted quarterly to the Regional Office of MoEF&CC. Regular sprinkling shall be done on roads to suppress the dust at the source.
- xiii. The Project Proponent shall adhere to the pollution control measures suggested by the Central Pollution Control Board (CPCB) in the environmental guidelines for crushing/screening activity.
- xiv. The wheel washing facility for the ore transport vehicles shall be provided at the exit point of the mine.
- xv. The Project Proponent needs to speed up the process of construction of underpass.
- xvi. The Project Proponent needs to strengthen the settling pond with proper stone pitching in line with the design of settling pond considering the annual rainfall, flow rate, catchment area and its discharge.
- xvii. The catch drains and siltation ponds needs to be regularly maintained to arrest silt and sediments flow from dumps.
- xviii. The Project Proponent needs to modify the crushing & screening units within 4 months from the date of issue of this EC.

- xix. The Project Proponent needs to develop a nursery adjacent to the mineral block (Survey no 72/4 in Bicholim Village) for an area of about 1100 sq.m in consultation with State Forest Department. PP shall develop theme-based gardens like medicinal gardens, horticulture gardens, spice gardens etc.,
- xx. The Project Proponent needs to explore the possibility of using advanced/ latest mining technologies available so as to minimize the ecological impacts.
- xxi. The Project Proponent needs to use modern equipment's such as Camera Traps for ensuring presence and movement of wild animals in the vicinity of the mine lease area as well as in study area in consultation with Wildlife Wing of Forest Department. Appropriate interventions shall be taken to minimise stress conditions for wild animals and to avoid Man-Animal conflict.
- xxii. The Project Proponent should follow-up the status of implementation on Wildlife Conservation Plan from the Forest Officials and the same shall be submitted to the Ministry's Regional Office in the six monthly compliance report.
- xxiii. The Continuous Ambient Air Quality Monitoring Stations (CAAQMS) shall be installed and commissioned in consultation with CPCB. The real time data so generated should be displayed digitally at entry and exit gate of mine lease area for public display and shall be linked to server of CPCB/SPCB.
- xxiv. The Project Proponent shall monitor the air quality, noise level, water quality, water level and ground vibration during drilling and blasting at the edge of the mine, near the village, crusher and at other sensitive receptors and such collected data shall be submitted quarterly to the Ministry's Regional Office.
- xxv. The budget of Rs 309.3 Lakhs to address the concerns raised by the public in the public consultation to be completed within 3 years from the date of start of mining operations. PP shall comply with all action plans made for public hearing concerns and make regular maintenance and record the progressive activity outcomes. The Project proponent shall ensure that the activities proposed under the public hearing is different from the CSR activities.
- xxvi. The Project Proponent shall create awareness among the local people working within the project area as well as its surrounding area on the ban of Single Use Plastic (SUP) in order to ensure the compliance of Notification published by MoEF&CC on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report.

- xxvii. The Project Proponent needs to complete the entire peripheral plantation under green belt, safety barrier plantation and gap plantation within three years from the start of mining operations. The Project Proponent should plant quality sapling of appropriate height of native and fruit bearing species. In case of tall transplants (seedlings) the seedlings should have proper trained root stock with root biomass commensurate with seedling height to ensure good growth after out planting. Plantation shall be undertaken in consultation with the State Forest Department. The Project Proponent shall make the actual count on the saplings planted and its survival rate and in case of failure of achievement of 95% survival rate, action plan for achieving the target survival rate shall be submitted to the Ministry's Regional Office.
- xxviii. The Project Proponent should adopt the proper mitigation measures as proposed under EMP with budgetary provision of Rs 72 Cr. The adoption of mitigation measures and monitoring of the same as proposed in the EMP shall be done under the supervision of the qualified environmental personnel. The implementation status of the same shall be submitted to the Ministry's Regional Office.
- xxix. The Project Proponent should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall be setup at site which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis instead of engaging environment monitoring laboratories/consultants. Any non-compliance or infringement should be reported to the concerned authority.
- xxx. The Project Proponent shall explore the possibility of using atleast 20% of Electric vehicles/CNG/Solar instead of diesel operation within three years.
- xxxi. NoC from the Central Ground Water Authority (CGWA)/ Concerned Local authority, as the case may be, shall be obtained before drawing the ground water for the project activities, State Pollution Control Board / Pollution Control Committees shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act till the project proponent shall obtain such permission.

- xxxii. The Project Proponent shall also organize employment-based apprenticeship/ internship training program every year with appropriate stipend for the youth and other programs to enhance the skill of the local people. The data should be maintained for the training imparted to the persons and the outcome of the training, for the assessment of the training program should be analyzed periodically and improved accordingly. The preference shall be given to the local people for the purpose of employment as committed before the EAC.
- xxxiii. The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations. Regular surveillance on occupational health shall be carried out every year for mine workers. PP shall also organize medical camp for the benefit of the local people and also the monitor the health impacts due to mining activity.
- xxxiv. The mining lease holders shall, after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The implementation report of the above said condition shall be submitted to the Ministry's Regional Office.

1.4 Guruvanipalli Limestone Mine of M/s. UltraTech Cement Limited for expansion in Limestone Production from 0.30 Million TPA to 4.00 Million TPA, Soil: 0.31 Million TPA (Total Excavation: 4.31 Million TPA) in the mine leasearea of 395.15 Ha, located at Village Guruvanipalli (Revenue Village: Petnikota), Taluka-Kolimigundla, DistrictKurnool, Andhra Pradesh – [F.No: :IA-J-11015/56/2021-IA-II(NCM), Proposal No: IA/AP/MIN/453165/2023;EIA Consultant: M/s J.M. EnviroNet Pvt. Ltd] – Environmental Clearance (Expansion)

The instant proposal is for mining of Limestone in Guruvanipalli Limestone Mine of M/s. UltraTech Cement Limited for expansion in Limestone Production from 0.30 Million TPA to 4.00 Million TPA, Soil: 0.31 Million TPA (Total Excavation: 4.31 Million TPA) in the mine lease area of 395.15 Ha, located at Village Guruvanipalli (Revenue Village: Petnikota), Taluka- Kolimigundla, District Kurnool, Andhra Pradesh.

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 under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 250 ha and appraised at Central level.

- ii. The mine lease area is located between Latitude: 15°03'19.99661" N to 15°05'36.79473" N and Longitude: 78°00'16.63709" E to 78°01'55.11414" E. The mine lease area falls under the Survey of India Toposheet No: D43F16, D43L13, D44A4 and 57 J/1 and falls in Seismic Zone II.
- iii. Details of previous Environmental Clearance (EC):
 - a) The Project Proponent submitted that initially Environmental Clearance was obtained vide Lr No J-11015/212/2008-IA.II(M) dated 01.07.2009 for a production of 0.30 MTPA in the mine lease area of 395.15ha in favour of M/s. UltraTech Cement Limited.
- iv. Details of Terms of Reference:
 - a) The Project Proponent obtained Terms of Reference (ToR) vide ToRLr. No IA-J-11015/56/2021-IA.II(NCM) dated 23.12.2022 for Guruvanipalli Limestone Mine for expansion in Limestone Production capacity from 0.30 Million TPA to 4.0 Million TPA, Soil: 0.31 Million TPA (Total Excavation: 4.31 Million TPA) in the mine lease area of 395.15 Ha.

v. Details of Mine le	ase:
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S.no	Lol/Lease Grant order	Date of the grant	Name of the Mineral	Period of Grant	Granted by	Mine lease area in Ha
1	Initial Grant of Mining lease in favour of M/s DakshinCement Limited vide G.O. Ms. No.149, Inds. & Com (M.III) Dept.,	30.09.1995	Limestone	02.01.1997 – 01.01.2017 (20 years)	Govt., of Andhra Pradesh	395.15
2	Transfer of Mining lease held by M/s DakshinCement Limited to M/s. UltraTech Cement Limited vide G.O. Ms.No.80, Inds. & Com (M-I) Dept.,	16.04.2012	Limestone	for the unexpired portion of the mining lease period i.e., upto 01.01.2017	Govt., of Andhra Pradesh	395.15
3	Extension of validity of mine lease vide G.O. Ms. No. 38	12.02.2019	Limestone	For the period upto 01.01.2047	Govt., of Andhra Pradesh	395.15

vi. Details of executed Mine leases:

S.no	Date of grant of Lease	Period of Grant		Details	
	execution	From	То		
1	Date of entering into original lease deed.	02.01.1997	01.01.2017	Proceedings No. 5634/M4/95 dated 02.01.1997 in favour of M/s DakshinCement Limited	
2	Transfer of mining lease deed	11.07.2012	01.01.2017	Affidavit bearing AK 772376 in favour of M/s. UltraTech Cement Limited	
3	Supplementary lease deed	15.03.2019	01.01.2047	Affidavit bearing CH 337737	

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

Private land	230.02 ha
Government land	165.13 ha
Total Mining lease area (MLA)	395.15 ha
Private land for crusher,	No infrastructure is proposed outside the mine lease
workshop & other infrastructure	area
outside the mine lease area	

viii. Mining plan details:

Modified Mining Plan including	Letter No.	AP/KNL/MP/LST-22/HYD	
Progressive Mine Closure Plan	Date	04.02.2021	
was approved by Indian	Mineral &	Limestone, (Major)	
Bureau of Mines	(Major/Minor)		
	Mine Lease	395.15	
	Area, Ha		
	Validity	2021-22 to 2025-26	
Mining Parameters	Quantitative D	escription	
Method of Mining	Fully Mechaniz	zed Opencast Mining Method.	
Drilling/Blasting	Drilling: Drilling	g will be carried out using 150 mm dia	
	drills.		
	Blasting: The burden & spacing is 4 x 6 m, 5 x 8 m or		
		ng on the strata and the holes will be	
		n depth with sub grade drilling of 1 m.	
	Delay detonators/ shock tube detonators with ANFO,		
	slurry, SME explosives, will be used to achieve better		
	fragmentation and less throw of material.		
Geological Reserves	170.79 million Tonnes		
Mineable Reserves	108.81 million Tonnes		
Breakup of Total Excavation	Total Excavation: 4.31 million TPA		
(Topsoil/OB/SB/IB/Mineral	Breakup of Total Excavation:		

	> No OB generation is there in this mining project
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	-
Additional information (if any)	There are some old slab quarries existing within the mining lease area. A Letter has been obtained from Department of Mines and Geology, Andhra Pradesh, vide letter no. 744/M4/1998 dated 09.07.2018 regarding the existence of old slab quarries in part of the mine lease area. The limestone is not uniform in quality across the deposit. Some areas are high in lime content and some are low. For mineral conservation and optimum utilization of the reserves, it is proposed to operate multiple pits simultaneously and also to meet the necessary ROM quality of the cement plant.

ix. Water requirement:

Total water requirement	300 KLD	Domestic	10 KLD
	300 KLD	Dust Suppression/Greenbelt	290 KLD
Source	Sourced	from Cement plant and sur	np of existing
	Tummalap	penta mine & later from this instar	nt mine sump as
	and when	developed.	
Permission for withdrawal/	Govt. of	Andhra Pradesh, O/o The	Commissioner,
intersection along with	Panchaya	t Raj & Rural Development 8	Administrator,
details of grant and its	Apwalta	accorded permission vide	Lr.No. CORD-
validity	11028/6/2	018- SLNA-GIS-CORD, dated	11/12/2021 to
	draw 2900	OKLD of Rain water collected in the second s Second second se	the Mine pit and
	500 KLD	of groundwater from the existin	g bore wells of
	Thummala	apenta village, Kolimigundla M	landal, Kurnool
	district an	d also 600 KLD of groundwater f	rom the existing
	bore wells	s of Bhogasamudram Village, Ta	adipatri Mandal,
	Ananthap	uramu District.	

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

Particulars	Particular's Name	Directions
Nearest Village	Guruvanipalli	Adjacent to the ML Area in
		East direction
Nearest Town	Tadipatri	16.0 km in SSW direction
Nearest State/National	SH - 30	5.5 km in South direction
Highway	SH - 57	4.0 km in SE direction
Interstate Boundary	-	
Railway Station/Railway	Tadipatri	16.5 km in SSW direction
line		

Water Bodies	Seasonal nallah passing through the lease area	-
	PeddaVanka (intermitten stream)	2.5 km in NE direction
	PeddaVanka (intermitten stream)	6.5 km in WSW direction
	SaddalaVengannaCheruvu (lake)	7.0 km in East Direction
Forest	Nil	-

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

		Silve aleas in the Study alea.
Forest Land / Protected Area /	Yes/No	Details of Certificate/letter issued by the
Environmental Sensitivity		concerned Department mentioning the Lr no,
Zone		date of grant and remarks
Forest Land within the mine	No	The Project Proponent submitted the letter
lease area and (if yes) status		from the Govt. of Andhra Pradesh, Forest
of Forest Clearance		Department vide Lr. Rc.No.
National Park	No	21052/1/2023/WL-2, dated 01.11.2023 stating
Wildlife Sanctuary	No	that
Elephant/Tiger Reserve	No	i. No Reserve Forest and Protected
Eco-Sensitive Zone (ESZ)	No	Forest etc., within 10 km radius of the
/Eco-Sensitive Area (ESA)		study area.
		ii. No National Park, Wildlife Sanctuaries,
		Biosphere Reserves, Wildlife Corridor,
		Tiger/Elephant Reserves etc., within 10
		km radius of study area.
		iii. The nearest protected area is Rajiv
		Gandhi National Park at a distance of
		66.59 km and GundlaBrahmeswra
		WLS is about 70.11 km from the
		proposed mine area.
Coastal Regulation Zone	No	-
(CRZ)		
Schedule-I species (No. s and	Yes	The Project Proponent submitted the letter
name of schedule-I species		from the Govt. of Andhra Pradesh, Forest
with authenticated letter)		Department vide Lr. Rc.No. 21052/1/2023/
Wildlife Conservation Plan	Yes	WL-2, dated 01.11.2023 stating that following
		Schedule-I animals are found in the impact
		zone of 10 km radius from the proposed
		boundary such as Bengal fox, Jackal, Jungle
		Cat, Small Indian Mangoose, Indian crested
		porcupine, Bonnet macaque, Indian
		Chameleon, Indian Cobra and Rat Snake.
		Further, the Project Proponent submitted that

	the Wildlife Conservation Plan for Schedule-I fauna with financial outlay of Rs 85.0 Lakhs was approved by the Principal Chief Conservator of Forests (WL) & Chief Wildlife Warden vide letter dated 01.11.2023.
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xii. Green belt/Plantation details:

Proposed area for green belt/plantation	74.98 ha	
and no. of saplings proposed		
Budget for green plant & plantation till the	62 lakhs (yearly 2 lakhs)	
end of life of mine.		
Budget for nursery	No Provision for Nursery	
Details of existing plantation and its	Pongamiapinnata (Kanuga),	
survival rate	Azadirachtaindica (Neem),	
	Samaneasaman (Rain tree), Cassia fistula	
	(SemaThangedi), Delonixregia (Gulmohar	
	Tree).	
	Survival Rate is 92%	
No. of tree cuts in the mine lease area and	None	
compensatory afforestation		
Particulars for Green belt/plantation	Area covered (in Ha)	
7.5 m barrier & Non mineralized areas	14.30 Ha	
50 m safety zone of nallah, roads, electric	35.50 Ha	
lines		
500 m safety zones of nearest habitation	25.18 Ha	
villages (Exhausted Pit Boundaries & Non		
Mineralized areas)		

xiii. Baseline Data:

Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)		
Period of baseline data collection	March to May, 2021	
Season (Summer / Pre-monsoon /	Summer Season	
Post-monsoon / Winter)		
Predominant Wind direction (From)	West	
Ambient Air Quality (no. of locations)	9 Locations	
and results	Result summary:	
	PM ₁₀ : 51.8μg/m ³ - 88.9μg/m ³	
	PM _{2.5} : 26.9μg/m ³ - 51.3μg/m ³	
	SO2: 6.4μg/m³- 12.3μg/m³	
	NO2: 13.2µg/m ³ –28.7µg/m ³	
Noise level (no. of locations) and	9 Locations	
results	Day Time (Lday) noise level:	
	50.6 dB (A) – 59.8 dB (A)	
	Night Time (Lnight) noise level:	
	41.8 dB (A) – 50.9 dB (A).	

Water Quality (no. of locations) and	Parameters Surface wate			
results		(2 locations		
	pH Total	6.92 – 7.26 381 - 549	7.04 –7.55 494 - 651	
	Dissolved	301 - 349	494 - 001	
	Solids, mg/l			
	Chloride as	109.9 – 144.	9 74.9 – 139.9	
	CI-, mg/l	105.5 – 144.	5 74.5 - 155.5	
	Total	209.6 – 292.	3 267.3 – 405.9	
	Hardness,	20010 2021		
	mg/l			
	DO, mg/l	6.5 - 6.9	-	
	BOD, mg/l	4.9 - 7.1	-	
	COD, mg/l	20 - 26	-	
Soil Quality (no. of locations) and	Parameters	1	Observed Values	
results: 8 Locations	рН		7.47 – 7.92	
	Electrical	Conductivity	0.25 – 0.58	
	(mS/cm)			
	SAR Value		0.38 – 0.63	
	Available Nitre		171.09 - 190.72	
		assium, kg/ha	168.45 - 559.27	
	Available	Phosphorus,	26.47 – 37.89	
	kg/ha			
Hydro geological study and results	The Projec			
	hydrogeologic		and rainwater	
	harvesting plan for Guruvanipalli Limestone mine. The Project Proponent submitted also that the total groundwater recharge within the mine site will be the sum of recharge through pit and recharge through rainwater harvesting structure is 1,58,000 cu.m/annum. At present			
			on has not occurred,	
			vater table will be	
			ng activities. Prior	
		permission will be taken before intersection of		
	ground water			
Traffic study (no. of locations) and			submitted that the	
results			will transported by	
	dumpers from mine faces to crusher (located			
	in adjacent mine) via haul road and after			
	crushing finally the limestone is being/will be			
	dispatched to the clinkerization unit located			
	about 3.1 km away from this mine through			
	conveyor belt. No public road will be used for			
			ne. Hence, traffic	
	study is not re	equired.		

xiv. Fublic nearing (FR) Details.			
Advertisement for PH with date	Indian Express on 02.06.2023 and Sakshi on		
(name of major national daily and	02.06.2023		
one regional vernacular daily			
newspaper)			
Date of PH	04.07.2023 at 11:00 AM		
Venue	Mining Lease Area of Guruvanipalle Limestone		
	Mine 395.15 Ha		
Chaired by	 Shri B. Pullaiah (District Revenue officer, 		
	Nandyal District, Nominated by District		
	Collector)		
	Shri B Y Muni Prasad (Environment Engineer,		
	Andhra Pradesh Pollution Control Board,		
	Regional Office, Kurnool)		
Main issues raised during PH	Drinking water facilities, Medical camp,		
	Community hall, Employment, Environment and		
	Development, Cattle grazing, R&R, Greenbelt		
	development works, Pollution etc.,		
Budget proposed for addressing	Capital Cost: 307.5 Lakhs		
issues raised during PH over 3 years	Recurring Cost: 35.70 Lakhs		

xv. 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 an validity	ıd	
Consent to Establish	Consent Order for Establishment was granted b the Andhra Pradesh Pollution Control Board vid Order No. 193/PCB/CFE/RO-KNL/HO/2011 date 22.06.2012 for production capacity of 0.3 MTPA i an area of 33.50 ha in the mine lease area of 395.15 ha.	de ed in	
Consent to Operate	Renewal of CFO was granted by the Andhr Pradesh Pollution Control Boardvide order date 23.11.2022 for 0.3 million TPA (Valio 31.01.2024)under Water Act (1974) and Air Ac (1981).	ed d:	
Certified Compliance Report and Inspection date	Certified Compliance Report was issued by Sub- Office at Vijaywada, MoEF&CC vide File No. IRO/VIJ/EPA/EC-A/101/06-38/2022 dated 13.07.2023.Site visit was carried out by Sub- Office on 27.04.2023.		
Certified Production Details from the inception of the mine (in tabular form against the EC capacity)	Department of Mines and Geology, Govt. of Andhra Pradesh vide Lr. No: 744/M4/1998 dated 04.08.2023 issued the production and dispatch details since inception to 30 th June, 2023.		
	S. No Year Production and		

		Dispatch (in MT)
1	1997-98 to	0
	2013 to 2014	
2	2014-15	1000
3	2015-16	0
4	2016-17	1000
5	2017-18	30000
6	2018-19	39882
7	2019-20	41000
8	2020-21	44882
9	2021-22	111882
10	2022-23	296882
11	2023-24 (up to	64386
	30 th June, 2023)	

xvi. Rehabilitation & Resettlement:

R & R details	The Project Proponent submitted that total mining lease area is 395.15
	ha out of which 230.02 ha is a private agricultural land and 165.13 ha is
	government land. Out of total private land of 230.02 ha, 104.77 ha land
	has been purchased by UTCL and remaining125.25 ha of lands need to
	be purchased. There are 83 houses present within mine lease area,
	hence there will be need of displacement due to the mining
	activities. There are 279 families out of which 139 PAFs whose land
	125.25 ha. is yet to be purchased and 140 PAFs whose land 104.77 ha.
	have already been acquired. A budget of Rs 28.683 Cr have been
	earmarked towards R&R.

xvii. Court case details:

Court Case, No and its	The Project Proponent submitted an undertaking vide letter
present status	dated 12.12.2023 stating that there is no litigation pending
Undertaking by Project	against the project and order passed by any Court of Law
Proponent w.r.t court case	against the project under the Environment (Protection) Act,
	1986 or relevant Sections of Air and Water Acts and that
	for any such litigation whatsoever, the sole responsibilities
	will be borne by the company.

xviii. Affidavit/Undertaking details:

Affidavit as per Ministry's OM dated	The Project Proponent submitted the Affidavit in a	
30.05.2018	non-judicial stamp paper ofRs 100 bearing no: CM	
	524112 dated 19.04.2021 stating that they will	
	comply with all the statutory requirement &	
	judgment of Hon'ble Supreme Court order dated	
	2 nd August 2017 in w.r.t. Petition (Civil) No. 114 of	
	2014 in the matter of common cause versus Union	
	of India &Ors.	

Undertaking by Project Proponent in EIA/EMP report	The Project Proponent submitted an undertaking vide letter dated 22.11.2023 stating that they have reviewed the EIA report and take full responsibility and ownership of the contents presented in the EIA report by J.M. EnviroNet Pvt. Ltd and instructions as per MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4 th August, 2009 has been followed in the preparation of this EIA Report.
Undertaking by Consultant in EIA/EMP report	The Consultant submitted an undertaking vide letter dated 24.04.2023 to the effect that the conditions laid down in Terms of Reference issued by MoEF&CC, New Delhi vide letter no. J11015/56/2021-IA.II(NCM) dated 23.12.2022 have been complied as per data/details provided by Project Proponent & as per Mining Plan along with Progressive Mine Closure Plan approved by IBM and the data submitted are factually correct.
Plagiarism Certificate	The Head of the Accredited Consultant Organization/ Authorized person certified that this EIA Report has been evaluated by using online software viz. Plagiarism Checker X on 20.11.2023. The report produced has been analyzed by the system and based on it and certify that the EIA Report produce in accordance with good scientific practice.

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

SI.	Activities	Propo	sed Cost
No.		(In Lakhs)	
INO.		Capital	Recurring
Α.	Mitigative Measures		
1	water tanker for water sprinkling in other roads and mining areas/activities.	24.43	5.14
2	Fixed Water Sprinkler on Haul Road	50	10
3	Green belt and plantation on 62.90 ha (10.42 ha on 7.5 m lease periphery + 25.18 ha on bench plantation + 27.30 ha on safety	394	2.62
•	zone of nala, road and habitation)		
4	Drip irrigation facility for plantation	5.0	0.5
5	Protection for Plantation (Fencing around area)	20	0.30
6	Garland Drain around Low line of mining pit	0.20	0.56
7	10 nos. of fog canon/mist sprayer of at least 40 m throw shall	30.0	2.0
/	be installed at various locations in the mine lease area.		
	Sub Total	523.63	21.12
В.	Monitoring		

1	Installation of continuous Ambient Air Quality Monitoring Station (3 nos)	150	15
2	Display Board at main gate for display of Ambient, Air, Noise and Hazardous waste monitoring data.	5.00	0.50
3	Six Ambient Air Quality Monitoring Station at Village Guruvanipalle, Ankireddipalle, Petnikota	5.00	0.50
4	Providing Ear muffs/plus to workers working in high noise area	2.37	0.00
5	Air monitoring Equipment for PM10 & PM2.5	1.70	1.50
6	Work Place Noise Level Monitoring (4 no. of locations & quarterly frequency)	-	0.10
7	Installation of 03 piezo-meter along the periphery in the premises	5.00	0.50
8	Occupational Health Check-up of Mines Employees	10.00	0.00
	Sub total	169.07	18.1
C.	Wildlife conservation plan	85.00	0.00
	Total	777.70	39.22

xx. Details of project cost and employment:

Particulars	Budget (Rs. in Crores)
Total Cost for EMP (Capital Cost of EMP +	
Capital cost of public hearing)	Recurring Cost: Rs. 40 Lakh/ annum
Project Cost	Rs. 48 Crores
Employment	71 persons

3. Observation and Recommendation of the EAC:

The Project Proponent/EIA Consultant presented the KML file to indicate the site features in the vicinity of the mine lease area. The Project Proponent showed the boundary of the mine lease area and the cement plant. The Project Proponent also indicated the location of the existing crusher located in the adjacent Tummalapenta Limestone mine. After exhaust of mineral reserves on southern side of the mine lease (near to the existing crusher), a crusher will be established at this instant mine lease for crushing the remaining limestone reserves and will be transported to cement plant through covered belt conveyor. In the 2nd phase, crusher will be installed in the northern part of the mine lease area and the same will be transported through covered belt conveyor and there will be no issue of crossing the public road and the roads will not be disturbed. The Project Proponent informed the EAC that during initial period of 5 years of mining operation existing haul roads will be used and no public road will be used for mineral transportation purpose. A nallah passes through the southern part of the mine lease area and will not be disturbed. The EAC asked about the old workings visible in the eastern and western side of the mine lease area. The Project Proponent informed the EAC that there are some old slab guarries. The EAC asked the Project Proponent to

take adequate control measures to arrest the fugitive dust arising from the crusher at the source itself.

The EAC asked the Project Proponent that when will the peak production will be achieved. The Project Proponent informed the EAC that peak production of 4.0 MTPA will be achieved in the 5th year i.e., 2025-26. No National Park, Wildlife Sanctuary, Reserve and Protected forest located within 10km radius of the study area. The nearest protected area is Rajiv Gandhi National Park at a distance of 66.59 km and Gundla Brahmeswra WLS is about 70.11 km from the proposed mine area. The mine lease area falls underKurnool District only. There will be no waste generation from this mine. Baseline data was carried out during March-May 2022 (Summer Season). Predominant wind direction is from west. Environment Impact Assessment was carried out for normative production capacity of 13333 TPD and peak production capacity of 15333 TPD to assess the pollution. The resultant concentration of PM₁₀ will be 67.27 μ g/m³ and PM_{2.5}will be 36.55 μ g/m³. The no. of working days will be 305 @ 3 Shifts of 8 working hours. At the end of life of mine, an area of 155.32 ha will be excavated, 163.23 ha will remain undisturbed and an area of 74.98 will be brought under greenbelt/plantation. The excavated area will be converted into water reservoir.

The Project Proponent showed the photographs of the greenbelt and plantation developed within the mine lease area. The Project Proponent informed the EAC that the public hearing was conducted on 04.07.2023. A budget of Rs 307.5 Lakhs has been earmarked as a Capital cost and Rs 35.70 Lakhs as a recurring cost towards to address the concerns of the public hearing with a timeline of three years. The proposed cost for Environment Management Plan (EMP) is Rs 7.78 Crores. The EAC asked the Project Proponent to show the existing and proposed list of machineries. The Project Proponent presented the existing and proposed list of machineries required for expansion. The EAC observed that the production is suddenly increasing from 1.0 MTPA in 4th year to 4.0 MTPA in the 5th year. The Project Proponent informed the EAC that at present mine is operating in a single shift and later the mine will be operated in three shifts to achieve the proposed production capacity. The EAC asked the Project Proponent to ensure that the machinery requirement/capacity to match with the proposed expansion production capacity. The Project Proponent presented the certified past production details and certified compliance report dated 13.07.2023. Site visit was carried out by Sub-Office on 27.04.2023. Sub-Office of MoEF&CC has certified that no non-compliances were detected.

After detailed deliberations made by the Project Proponent and the EIA Consultant, the EAC in its meeting held during 26-28 December, 2023 under the provisions of EIA Notification 2006 and its subsequent amendments, **recommended** the proposal for grant of Environmental Clearance (EC) to M/s. UltraTech Cement Limited for mining of Limestone in Guruvanipalli Limestone Mine for expansion in

Limestone Production from 0.30 Million TPA to 4.00 Million TPA, Soil: 0.31 Million TPA (Total Excavation: 4.31 Million TPA) in the mine leasearea of 395.15 Ha, located at Village Guruvanipalli (Revenue Village: Petnikota), Taluka- Kolimigundla, DistrictKurnool, Andhra Pradesh subject to the following specific conditions in addition to the standard EC conditions applicable for non-coal mining projects: -

- i. The Project Proponent needs to ensure that the machinery requirement/capacity shall match with the proposed expansion production capacity so as to avoid the sudden increase in pollution load.
- ii. No Nallah should be disturbed or diverted at any stage of the mining operation.
- iii. No public road shall be used for mineral transportation purpose.
- iv. The Project Proponent needs to carry out ground vibration study through reputed institute to determine maximum charge per hole and charge to be blasted per delay so that ground vibrations are minimized and kept within permissible safe limits fixed by DGMS.
- v. The mined out pits shall be used as Water reservoir/Pisciculture. Fencing should be made to prevent any inadvertent entry of men and cattle.
- vi. The Continuous Ambient Air Quality Monitoring Stations (CAAQMS) shall be installed and commissioned in consultation with CPCB. The real time data so generated should be displayed digitally at entry and exit gate of mine lease area for public display and shall be linked to server of CPCB/SPCB.
- vii. The Project Proponent shall monitor the air quality, noise level, water quality, water level and ground vibration during drilling and blasting at the edge of the mine, near the village, crusher and at other sensitive receptors and such collected data shall be submitted quarterly to the Ministry's Regional Office.
- viii. The Project Proponent needs to explore the possibility of using advanced/ latest mining technologies available so as to minimize the ecological impacts.
- ix. The Project Proponent needs to use modern equipment's such as Camera Traps for ensuring presence and movement of wild animals in the vicinity of the mine lease area as well as in study area in consultation with Wildlife Wing of Forest Department. Appropriate interventions shall be taken to minimise stress conditions for wild animals and to avoid Man-Animal conflict.

- x. The Project Proponent should follow-up the status of implementation on Wildlife Conservation Plan from the Forest Officials and the same shall be submitted to the Ministry's Regional Office in the six monthly compliance report.
- xi. The Project Proponent needs to take adequate control measures to arrest the fugitive dust arising from the crusher at the source itself. The dense plantation shall be carried out in the vicinity of the crusher. The air pollution control equipment's like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, and other areas prone to air pollution. The Stack emission monitoring of the Crusher shall be carried out at periodic intervals.
- xii. The Project Proponent needs to make provision for permanent water sprinklers instead of water tankers. About, 10 nos. of fog canon/mist sprayer of atleast 40 m throw shall be installed at various locations in the mine area. Effective dust suppression system shall also be adopted at other parts of the mining lease to arrest the fugitive dust emission. The Project Proponent needs to put effort to reduce water consumption by 30%.
- xiii. The Project Proponent needs to complete the entire peripheral plantation under green belt, safety barrier plantation and gap plantation within three years from the start of mining operations. The Project Proponent should plant quality sapling of appropriate height of native and fruit bearing species. In case of tall transplants (seedlings) the seedlings should have proper trained root stock with root biomass commensurate with seedling height to ensure good growth after out planting. Plantation shall be undertaken in consultation with the State Forest Department. The Project Proponent shall make the actual count on the saplings planted and its survival rate and in case of failure of achievement of 95% survival rate, action plan for achieving the target survival rate shall be submitted to the Ministry's Regional Office.
- xiv. The budget of Rs 307.5 Lakhs to address the concerns raised by the public in the public consultation to be completed within 3 years from the date of start of mining operations. PP shall comply with all action plans made for public hearing concerns and make regular maintenance and record the progressive activity outcomes. The Project proponent shall ensure that the activities proposed under the public hearing is different from the CSR activities.
- xv. The Project Proponent shall create awareness among the local people working within the project area as well as its surrounding area on the ban of Single Use Plastic (SUP) in order to ensure the compliance of Notification published by

MoEF&CC on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report.

- xvi. The Project Proponent should adopt the proper mitigation measures as proposed under EMP with budgetary provision of Rs 7.78 Cr. The adoption of mitigation measures and monitoring of the same as proposed in the EMP shall be done under the supervision of the qualified environmental personnel. The implementation status of the same shall be submitted to the Ministry's Regional Office.
- xvii. The Project Proponent should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall be setup at site which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis instead of engaging environment monitoring laboratories/consultants. Any non-compliance or infringement should be reported to the concerned authority.
- xviii. The Project Proponent shall explore the possibility of using atleast 20% of Electric vehicles/CNG/Solar instead of diesel operation within three years.
- xix. NoC from the Central Ground Water Authority (CGWA)/ Concerned Local authority, as the case may be, shall be obtained before drawing the ground water for the project activities, State Pollution Control Board / Pollution Control Committees shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act till the project proponent shall obtain such permission.
- xx. The Project Proponent shall also organize employment-based apprenticeship/ internship training program every year with appropriate stipend for the youth and other programs to enhance the skill of the local people. The data should be maintained for the training imparted to the persons and the outcome of the training, for the assessment of the training program should be analyzed periodically and improved accordingly. The preference shall be given to the local people for the purpose of employment as committed before the EAC.
- xxi. The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations. Regular surveillance on

occupational health shall be carried out every year for mine workers. PP shall also organize medical camp for the benefit of the local people and also the monitor the health impacts due to mining activity.

- xxii. The mining lease holders shall, after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The implementation report of the above said condition shall be submitted to the Ministry's Regional Office.
- xxiii. The Project Proponent shall seek permission from Ministry before installing any crusher in the mine lease area.
- xxiv. The Project Proponent shall periodically maintain the garland drains, retaining wall and other water management structures in the mine lease area.

1.5 Hutti Gold Mines (ML No: 2671) of M/s The Hutti Gold Mines Company Limited for expansion in production capacity from 0.6 MTPA to 0.9 MTPA (2000 TPD to 3000 TPD) and enhancement of processing plant capacity of 0.9 MTPA – 1.2 MTPA (3000 TPD to 4000 TPD) in the mine lease area of 528.35 ha, located at Hutti Village, Lingsugur Taluk, Raichur District, Karnataka - [File No: J11015/13/2003-IA.II(M), Proposal No: IA/KA/MIN/436624/2023; EIA Consultant: M/s Ecomen Laboratories Pvt Ltd] - Terms of Reference (Expansion)

The instant proposal is for Terms of Reference of M/s The Hutti Gold Mines Company Limited for expansion in production capacity from 0.6 MTPA to 0.9 MTPA (2000 TPD to 3000 TPD) and enhancement of processing plant capacity of 0.9 MTPA – 1.2 MTPA (3000 TPD to 4000 TPD) in the mine lease area of 528.35 ha, located at Hutti Village, Lingsugur Taluk, Raichur District, Karnataka.

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 proposed project activity is listed at schedule no. 1(a) Mining of Minerals and 2(b) Mineral Beneficiation and falls under Category "A" as the mine lease area is greater than 250ha and appraised at the Central level.
- ii. The mine lease area is located between Latitude: 16°12'29.55813"N to 16°11'57.54790"N and Longitude: 76°39'38.73430" E to 76°39'42.06560"E. The mine lease area falls under the Survey of India Toposheet No: 56 D/12.
- iii. The proposal was earlier considered in the 19th EAC (Non-Coal Mining) meeting held during 24-25 August, 2023 wherein the EAC deferred the proposal for want of requisite information. Then, the Project Proponent submitted the information

on 29.11.2023 in Parivesh portal and accordingly the proposal was considered in the 24th EAC (Non-Coal Mining) meeting held during 26-28 December, 2023.

Based on observation of EAC in its EAC meeting held during 24-25 August, 2023and compliance of observation of EAC made by Project Proponent are detailed below:

				_		
S.	Observation of EAC		Repi	y by Project	Proponent	
Ν	in its meeting					
0	heldduring24-25					
	August, 2023					
1	The Project	The Proje	ect Propone	ent submitted	d that initially	mining lease
	Proponent needs to	was grant	ed under t	he mining lea	ase no. 1564	4 for mining of
	submit the details of	gold and	associated	l minerals ov	ver an area	of 528.35 Ha
	the chronology of the	(1305.6 A	cres) for a	period of 30	years from	20.12.1978 to
	two mine leases and	19.12.200)8. [´]	•	2	
	their amalgamation					
	into single lease with	Then, the	e second i	mining lease	e was grant	ed under the
	supportingdocument			•	•	e Mineral over
	s clearly mentioning	•			•	or the period
	the mine lease area			original leas	,	
	also to clarify			egee		
	whether any	Further, t	he Proiect	Proponent s	submitted the	at the ML no.
	amendment in EC		•			nd associated
	has been obtained				•	ely, renewed
	after renewal as a					ning of Gold,
	single mine lease	Scheelite		sociated mi		
	during the year 2008.					564 and M L
	during the year 2000.	no.1734.			, IVI E 110. I	
		110.1701.				
		The Proje	ct Propone	ent also subi	mitted the le	tter issued by
		•				3 CMC 2016
						as per the
						957 read with
		•		· · /		ent Company)
		• • •		· ·		aring no: 2671
						Limited shall
			up to 19.12		Sompany	
2	The Project				the lattor fr	rom the Office
	Proponent needs to		•			
	submit the certified	of the Director, Dept. of Mines and Geology, vide Lr.No				
		DMG/DCBML-2671/2023-24/6799 Bengaluru-1, dated				
	past production details from the	25.09.2023 from the period 1948-49 to 2022-23. Year Ore production Ore				
		rear	Tonnage	Recovery	Gold	processing
	inception of the		(Million	grade (g/t)	produced	Tonnage
	mining operation to		Tonnes)	J	(Tons	(Million
	2011-12.				· ·	Tonnes)
		1948-49	0.0039	19.01	0.074	0.0039
		1949-50	0.0265	7.60	0.202	0.0265

$\begin{array}{ c c c c c c c c c c c c c c c c c c c$					
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1950-51	0.0289	8.81	0.255	0.0289
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$				0.281	0.0350
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1952-53	0.0424	7.58	0.321	0.0424
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1953-54	0.0620	8.49	0.527	0.0620
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1954-55	0.0751	7.24	0.544	0.0751
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1955-56	0.0756	7.45	0.563	0.0756
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1956-57	0.0760	6.47	0.491	0.0760
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1957-58	0.0776	5.68	0.440	0.0776
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1958-59	0.0802	5.78	0.464	0.0802
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1959-60	0.0954	5.22	0.498	0.0954
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1960-61	0.1045	6.28	0.656	0.1045
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1961-62	0.1105	7.07	0.781	0.1105
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1962-63	0.1095	8.22	0.900	0.1095
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1963-64	0.0531	8.04	0.427	0.0531
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1964-65	0.0959	8.02	0.768	0.0959
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1965-66	0.0804	9.76	0.785	0.0804
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1966-67	0.1068	8.62	0.921	0.1068
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1967-68	0.1086	8.48	0.921	0.1086
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1968-69	0.1065	9.13	0.972	0.1065
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1969-70	0.1258	7.25	0.912	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1970-71	0.1758	7.59	1.334	0.1758
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1971-72	0.2041	6.29	1.283	0.2041
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1972-73	0.2134	6.23	1.328	0.2134
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1973-74	0.2157	6.60	1.423	0.2157
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1974-75	0.1866	6.84	1.276	0.1866
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1975-76	0.1789	6.54	1.170	0.1789
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1976-77	0.1401	6.28	0.880	0.1401
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1977-78	0.1090	7.84	0.855	0.1090
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1978-79	0.1191	6.65	0.792	0.1191
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1979-80	0.1100	7.65	0.842	0.1100
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1980-81	0.1479	5.24	0.774	0.1479
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1981-82	0.1451	6.57	0.954	0.1451
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1982-83	0.1422	5.26	0.749	0.1422
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1983-84	0.1462	5.58	0.816	0.1462
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1984-85	0.1364	6.32	0.862	0.1364
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-	0.1510	5.54	0.837	0.1510
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1986-87	0.1558	5.88	0.916	0.1558
1989-900.15995.380.8610.15991990-910.19655.251.0320.19651991-920.20125.341.0750.20121992-930.18094.860.8800.18091993-940.17755.420.9620.17751994-950.23385.211.2180.23381995-960.18735.070.9490.18731996-970.18646.591.2280.18641997-980.16677.281.2130.16671998-990.15837.251.1470.15831999-0.12987.941.0300.129820000.133110.821.4400.1331	1987-88	0.1631	5.37	0.876	0.1631
1990-910.19655.251.0320.19651991-920.20125.341.0750.20121992-930.18094.860.8800.18091993-940.17755.420.9620.17751994-950.23385.211.2180.23381995-960.18735.070.9490.18731996-970.18646.591.2280.18641997-980.16677.281.2130.16671998-990.15837.251.1470.15831999-0.12987.941.0300.129820002000-010.133110.821.4400.1331	<u>19</u> 88-89	0.1828	5.29	0.968	0.1828
1991-920.20125.341.0750.20121992-930.18094.860.8800.18091993-940.17755.420.9620.17751994-950.23385.211.2180.23381995-960.18735.070.9490.18731996-970.18646.591.2280.18641997-980.16677.281.2130.16671998-990.15837.251.1470.15831999-0.12987.941.0300.1298200010.133110.821.4400.1331	1989-90	0.1599	5.38	0.861	0.1599
1992-930.18094.860.8800.18091993-940.17755.420.9620.17751994-950.23385.211.2180.23381995-960.18735.070.9490.18731996-970.18646.591.2280.18641997-980.16677.281.2130.16671998-990.15837.251.1470.15831999-0.12987.941.0300.1298200010.133110.821.4400.1331	1990-91	0.1965	5.25	1.032	0.1965
1993-940.17755.420.9620.17751994-950.23385.211.2180.23381995-960.18735.070.9490.18731996-970.18646.591.2280.18641997-980.16677.281.2130.16671998-990.15837.251.1470.15831999-0.12987.941.0300.129820002000-010.133110.821.4400.1331	1991-92	0.2012	5.34	1.075	0.2012
1994-950.23385.211.2180.23381995-960.18735.070.9490.18731996-970.18646.591.2280.18641997-980.16677.281.2130.16671998-990.15837.251.1470.15831999-0.12987.941.0300.129820002000-010.133110.821.4400.1331	1992-93	0.1809	4.86	0.880	0.1809
1995-960.18735.070.9490.18731996-970.18646.591.2280.18641997-980.16677.281.2130.16671998-990.15837.251.1470.15831999-0.12987.941.0300.129820002000-010.133110.821.4400.1331	1993-94	0.1775	5.42	0.962	0.1775
1996-970.18646.591.2280.18641997-980.16677.281.2130.16671998-990.15837.251.1470.15831999-0.12987.941.0300.129820002000-010.133110.821.4400.1331	1994-95	0.2338	5.21	1.218	0.2338
1997-980.16677.281.2130.16671998-990.15837.251.1470.15831999-0.12987.941.0300.129820002000-010.133110.821.4400.1331	1995-96	0.1873	5.07	0.949	0.1873
1998-990.15837.251.1470.15831999- 20000.12987.941.0300.129820002000-010.133110.821.4400.1331	1996-97	0.1864	6.59	1.228	0.1864
1999- 20000.12987.941.0300.12982000-010.133110.821.4400.1331	1997-98	0.1667	7.28	1.213	0.1667
2000 1.440 0.1331	1998-99	0.1583	7.25	1.147	0.1583
2000-01 0.1331 10.82 1.440 0.1331	1999-	0.1298	7.94	1.030	0.1298
	2000				
2001-02 0.3220 6.77 2.181 0.3220		0.1331	10.82	1.440	0.1331
	2001-02	0.3220	6.77	2.181	0.3220

	T					_		
		-	2-03	0.39		5.99	2.390	0.3993
			3-04	0.48		6.01	2.900	0.4823
			4-05	0.48		6.71	3.227	0.4808
			5-06	0.45		5.89	2.673	0.4542
			6-07	0.48		4.60	2.232	0.4855
			7-08	0.50		4.57	2.307	0.5015
		-	8-09	0.50		3.96	1.975	0.5047
			9-10	0.49		4.09	2.030	0.4989
			0-11	0.49		4.46	2.006	0.4964
			1-12	0.44		2.87	1.396	0.4498
			2-13	0.48		2.95	1.435	0.4865
			3-14	0.48		2.75	1.293	0.4867
			4-15	0.46		2.37	1.245	0.4695
			5-16	0.52		2.74	1.473	0.5246
		201	7-18	0.50		2.98	1.514	0.5089
			8-19	0.53		2.91	1.563	0.5374
			9-20	0.54		2.77	1.499	0.5403
			0-21	0.38		2.47	0.940	0.3803
		202	1-22	0.41	97	2.88	1.209	0.4197
		202	2-23	0.53	95	2.35	1.270	0.5395
3	The Project	The	Proje	ct Pro	pone	ent submitted	the copies	of Consent to
	Proponent needs to					low in table:	•	
	submit the copies of	S.	Docu		File			Validity
	•	N.	S	mont	1 110	10.		validity
	the Consent to	0	3					
	Operate (CTO) from	1	Cons	ent to	624/	KSPCB/R0900	004/APC/2000	01/07/2000
	its inception.		Estab			1246	004//11 0/2000	to
	-		(CTO		01/	1240		30/06/2001
		2		ent to	311/	KSPCB/TC/WF	PC/DEO-	21/09/2001
		_	Estab			01/651	0,020	to
			(CTO		0, _0			30/06/2002
		3		ent to	KSP	CB/SEO-		09/07/2002
		-	Estab			&M/DEOAEO3	8/2002-03/77	to
			(CTO					30/06/2003
		4		ent to	KSP	CB/APC/IND2/	CKM/DEO-	28/10/2002
			Estab		TC//	AEO-2/2002-03	/780	to
			(CTO))				30/06/2003
		5	-	ent to	KSP	CB/APC/RCR/I	DEO-TC/2003-	01/07/2003
			Opera	ate	04/3	35		to
			(CTO)				30/06/2004
		6	Cons	ent to	KSP	CB/WPC/RCR/	2003-04/343	01/07/2003
			Opera	ate				to
			(CTO)				30/06/2004
		7	Cons	ent to	KSP	CB/WPC/SEO-		20/12/2004
			Operation		2/SC	&M/DEO/AEO	/2004-05/342	to
			(ĊTO)				30/06/2005
		8	Cons	ent to	KSP	CB/WPC/SEO-	3/DEO-	29/06/2005
			Operation		TC/	AEO-3/2005-06	/65	to
			(CTO	/				30/06/2006
		9		ent to	KSP	CB/SEO-4/EO/	DEO-3/06-	01/07/2006
			Opera		07/1	49		to
			(CTO	,				30/06/2007
		10		ent to		CB/APC/SEO-		01/07/2007t
		1	Opera	ate	4/EC	D/DEO/AEO/07-	-08/211	0

	(O T O)		00/00/0000
	(CTO)		30/06/2008
11	Consent to	KSPCB/SEO/DEO/AEO/08-	01/03/2008
		09/539	to
	· · /		30/06/2009
12		KSPCB/SEO/Mining/AEO/09-	01/07/2009
		10/725	to
	(CTO)		30/06/2010
13	Consent to	25/KSPCB/SEO/DEO/AEO/2011-	01/07/2010
	Operate	12/95	to
	(CTO)		30/06/2011
14	Consent to	271/PCB/MIN/CFO/2012-13/1383	21/12/2012
	Operate		to
	(CTO)		30/06/2013
15	Consent to	313/PCB/MIN/CFO/2013-14/1410	18/11/2013
	Operate		to
	(CTO)		30/06/2014
16	Consent to	321/PCB/MIN/CFO/2004-15/1651	01/07/2014
	Operate		to
	(ĊTO)		30/06/2015
17	Consent to	416/PCB/ MIN/CFO/2015-16/1506	01/07/2015
	Operate		to
	(ĊTO)		30/06/2016
18	Consent to	AWH-30621 PCB ID 28496	11/05/2016
	Operate		to
	(ĊTO)		30/06/2020
19	Consent to	AW-333881 PCB ID 28496	03/09/2020
	Operate		to
	(ĊTO)		31/03/2023
20	Addendum	PCB/MIN/ADDENDUM/2023-	01/04/2023
	to Consent	24/1276	to
	Order		31/03/2025
	12 13 14 15 16 17 18 19	Operate (CTO)12Consent to Operate (CTO)13Consent to Operate (CTO)14Consent to Operate (CTO)15Consent to Operate (CTO)15Consent to Operate (CTO)16Consent to Operate (CTO)17Consent to Operate (CTO)18Consent to Operate (CTO)19Consent to Operate (CTO)20Addendum to Consent	Operate (CTO)09/53912Consent to Operate (CTO)KSPCB/SEO/Mining/AEO/09- 10/72513Consent to Operate (CTO)25/KSPCB/SEO/DEO/AEO/2011- 12/9514Consent to Operate (CTO)271/PCB/MIN/CFO/2012-13/1383 Operate (CTO)15Consent to Operate (CTO)313/PCB/MIN/CFO/2013-14/141016Consent to Operate (CTO)313/PCB/MIN/CFO/2014-15/165116Consent to Operate (CTO)321/PCB/MIN/CFO/2004-15/165117Consent to Operate (CTO)416/PCB/ MIN/CFO/2015-16/150618Consent to Operate (CTO)AWH-30621 PCB ID 2849619Consent to Operate (CTO)AWH-30881 PCB ID 2849620Addendum to Consent 24/1276PCB/MIN/ADDENDUM/2023- 24/1276

- iv. Details of previous Environmental Clearance (EC):
 - a) Initially, the Project Proponent obtained Environmental Clearance (EC) vide EC Lr.No: J-11015/13/2003.IA.II(M) dated 17.11.2004 for Hutti Underground Gold mine of M/s Hutti Gold Mines Company Ltd., for expansion in production of Gold ore from 0.351 MTPA to 0.6 MTPA over an area of 308.35 ha under the EIA Notification, 1994.
- v. Details of Mine Lease:
 - a) The Project Proponent has submitted that initially mining lease deed was executed on 20.12.1978.
 - b) The original grant notification was issued vide Notification No. CI 128 MMN 2011, dated 26.03.2012.
 - c) The Project Proponent submitted the copy of the mine lease deed made on 22.03.2014 for a period of 20 years w.e.f. 19.12.2008.
 - d) The Project Proponent submitted the letter issued by the Govt. of Karnataka vide Lr No. CI 113 CMC 2016 Bengaluru, dated 14.02.2019 stating that as per the provision of Section 8A (8) of MMDR Act, 1957 read with Rule 3(1) of the Mineral

(Mining by Government Company) Rules, 2015, the period of mining lease bearing no: 2671 held by M/s Hutti Gold Mines Company Limited shall extended up to 19.12.2028.

- vi. The Project Proponent has submitted that the entire mine lease area of 528.35 ha is a Govt. land.
- vii. Details of Mining Plan:
 - a) The Project Proponent has submitted that the Modification of Mining Plan along with Progressive Mine Closure Plan was approved by Indian Bureau of Mines vide Lr.No: 279/356/92/BNG/803 dated 09.04.2018 for mining of Gold over an area of 528.35 ha for the period 2018-19 to 2022-23.
 - b) The method of mining will be mechanized underground mining method.
 - c) The mined out ore will be transported to the processing plant by trucks and conveyor belt. The gold ore will be treated in processing plant by various stages to recover the final product gold.
 - d) The oxide ore will be mined first and will be extracted by adopting Grinding, Gravity Concentration, Thickening & Leaching-Carbon-In-Pulp-Elution & Electro Winning-Cyanide Detoxification-Refining.
 - e) The mill tailings will be disposed of separately in a designated tailing dump within the mine lease area. The tailings will be disposed by pumping in slurry form.
 - f) The generation of waste rock estimated as around 4,37,414 Tonnes during the period 2020-21 to 2022-23, out of which 49% will be used as road metal, building construction jobs and remaining 51% as filling materials in completely depleted stopes. There is no sub grade ore or mineral produced.
 - g) Disposal methods being practiced includes coarse material in stope filling in underground and fine material is stored in upstream embankment method in tailings dam. About 1400-1500 tonnes per day, tailings estimated to dispose to the dump and 300-400 tons per day coarse sand estimated to be used for stope filling.
- viii. The Project Proponent has submitted that the source of supply of water is from Krishna river (20 km from mine), Dump recycling water and mined out water. About 25.88% of water is recycling. About 4600 KLD of water from Krishna river is being used every day. For the expansion proposals, the required quantity of water for additional manpower, ore processing works out to be 1320 KLD and will be met from Krishna river and recycled water.
- ix. The Project Proponent has submitted that there is no forest land within the mine lease area and Reserve Forests are located more than 5km from the mine lease area. The Project Proponent also submitted that there is no National Park, Wildlife Sanctuary, Eco Sensitive Area, Western Ghats within 10 km radius of the

mine lease area. Further, the Project Proponent has submitted that Hutti Nadi (Seasonal Odai), Odai (Seasonal nala) are found within the mine lease area and Canal near medinapur and Hire halla are located at a distance of 0.77 km, W and 1.81 km, WNW respectively from the mine lease area. Hutti village is located within the mine lease area.

- x. The Project Proponent has submitted that an area of 66.08 ha has been developed under greenbelt. The proposed area for the development of greenbelt will be 108.27 ha and no. of saplings proposed to plant is 1,51,578 no.s with a budget of Rs 1500 Lakhs.
- xi. The Project Proponent vide letter dated 24.04.2023 submitted an undertaking stating that the proposed expansion proposal is not a violation as per provision S.O 804 (E) dated 14.03.2017 and SOP dated 07.07.2021.
- xii. The Project Proponent has submitted that since it is an underground mine, the question of reclamation and rehabilitation does not arise and no R&R is involved in this project.
- xiii. The Project Proponent has submitted that there is no litigation pending against the project and/or land in which the project is proposed to be set up.
- xiv. The Project Proponent has submitted that the total cost of the proposed expansion project is Rs 10,000 Lakhs. The existing manpower is 3892 persons and the proposed manpower for the expansion will be 1000 persons.

3. Observation and Recommendation of the EAC:

The EAC deliberated on the additional details submitted by the Project Proponent and the EIA Consultant. The Project Proponent informed the EAC that initially mining lease was granted under the mining lease no. 1564 for mining of gold and associated minerals over an area of 528.35 Ha (1305.6 Acres) for a period of 30 years from 20.12.1978 to 19.12.2008. Then, the second mining lease was granted under the mining lease no. 1734 for mining of Scheelite Mineral over an area of 528.35 Ha (1305.6 Acres) and the lease deed was executed on 17.03.1981 for the period coterminous with the original lease i.e., up to 19.12.2008. Further, the Project Proponent submitted that the ML no. 1564 and ML no. 1734 for mining of Gold and associated minerals and Scheelite Mineral respectively, renewed under the Mining Lease no. 2671 for mining of Gold, Scheelite and associated minerals on 26.03.2012 and it was effective from 19.12.2008. There was no amalgamation of mining lease of M L no. 1564 and M L no.1734. Further, the Project Proponent presented the certified past production details from the period 1948-49 to 2022-23. The Project Proponent also presented the details of the Consent to Operate (CTO) from its inception and the last CTO was obtained on 01.04.2023 which is valid upto 31.03.2025.

The EAC observed that the Project Proponent obtained Environmental Clearance on 17.11.2004 under EIA, 1994 and after that the Project Proponent did not obtain amendment in EC for inclusion of Gold, Scheelite and associated minerals. The EAC noted that as per Ministry's Notification dated 04.04.2011, prior environmental clearance is as well required at the stage of renewal of mine lease for which application should be made up to one year prior to date of renewal. The EAC also reiterated the judgment of Hon'ble Supreme Court dated 2ndAugust, 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause Versus Union of India and Ors "the renewal of a mining lease after 27th January, 1994 will require an EC even if there is no expansion or modernization activity or any increase in the pollution load". The EAC noted that the Project Proponent obtained the renewal of mining lease on 26.03.2012 and at this stage Project Proponent required to obtain EC as per Ministry's Notification dated 04.04.2011. However, project proponent has not obtained the EC at the time of renewal of mine lease.Further, the EAC noted the Project Proponent did not submit the proposal under Ministry's Notification dated 06.04.2018 and 14.03.2017. Thus, the EAC opined that the instant proposal attracts the judgment of Hon'ble Supreme Court dated the 2ndAugust 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors and violation of the EIA Notification, 2006. The EAC also observed that the Project Proponent submitted the proposal for expansion in production capacity from 0.6 MTPA to 0.9 MTPA (2000 TPD to 3000 TPD) and enhancement of processing plant capacity of 0.9 MTPA - 1.2 MTPA (3000 TPD to 4000 TPD) in the mine lease area of 528.35 ha. The EAC reiterated the Ministry's SOP notification dated 7thJuly, 2021, SOP for dealing with the violation cases:

S. No	Status of EC	Actions
1	If no prior EC has been taken	Order to close its operation
2	If prior EC is available for	Order to revert the activity/ production
	existing/old unit	to permissible limits
3		Restrict the activity/production to the extent to which prior EC was not required

Step 1: Closure or Revision:

Step 2: Action under Environment (Projection) Act, 1986:

Action under section 15 read with section 19 of the Environment (Protection) Act, 1986 shall be initiated against the violators.

The EAC was of the view that the Project Proponent needs to revert the activity/ production to permissible limits. The EAC asked the Ministry to take action against the Project Proponent under the provisions of the Environment (Protection) Act, 1986.Based on the discussions held, the EAC in its meeting held during 26-28 December, 2023, under the provisions of EIA Notification, 2006 and its subsequent amendments therein, **recommended** the proposal for grant of Terms of Reference (ToR) under Ministry's SOP dated 07.07.2021 for identification and handling of Violation cases under EIA 2006 to M/s The Hutti Gold Mines Company Limited for production capacity of 0.6 MTPA and processing plant capacity of 0.9 MTPA in the mine lease area of 528.35 ha, located at Hutti Village, Lingsugur Taluk, Raichur District, Karnataka for undertaking detailed EIA/EMP study subject to the following specific conditions in addition to the standard ToR conditions applicable for non-coal mining projects:-

- i. The Ministry has to initiate action under section 15 read with section 19 of the Environment (Protection) Act, 1986 against the project proponent. Further, no consent to operate to be issued till the project is granted EC. The action initiated by the State Govt./State PCB, status of the same may be submitted to the Ministry.
- ii. The Project Proponent shall be required to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the SPCB prior to the grant of EC. The quantum shall be recommended by the EAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the EAC and approval of the regulatory authority.
- iii. Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.
- iv. Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
- v. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultants. vi. Details of benefit accrued during the violation period along with capital cost of the project needs to be submitted.

- vi. The Project Proponent needs to submit the penalty provisions as per Ministry's SOP dated 07.07.2021 at the time of appraisal of EC.
- vii. The Project proponent needs to comply with all the statutory requirements of the order of Hon'ble Supreme Court dated 2ndAugust 2017 in w.r.t. Petition (Civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors.
- viii. The Project Proponent needs to submit the ecology restoration plan.
- ix. The Project Proponent needs to submit the efficacy and operational data of the EMP measures undertaken in the past.
- x. The Project Proponent needs to carry out the rapid study on need-based assessment for undertaking community development activities in nearby villages and conducting to achieve specific SDGs with the help of the local community. Based on the study/report, the Project Proponent shall prepare long-term sustainable development programs for their holistic development.
- xi. The Project Proponent needs to submit the comparison of data on the standards of the living of the local people after obtaining EC under EIA, 1994 and as on date. PP also needs to highlight the influence on the developmental activities that changed the standard of living of the local people.
- xii. The Project Proponent needs to submit the management plan for handling and management of tailings.
- xiii. The Project Proponent needs to submit the treatment methods for mine water discharge and waste water containing heavy metals.
- xiv. The Project Proponent needs to monitor the ambient air quality and noise level at the mine lease boundary, nearest village, crusher, predominant downwind direction and at other sensitive receptors. Accordingly, Project Proponent shall propose to install Continuous Ambient Air Quality Monitoring Station within certain timeline.
- xv. The Project Proponent should prepare the EMP considering the scenario of pollution to be generated for normative and peak total excavation for assessing air and noise pollution.

- xvi. The Project Proponent needs to submit the action plan for carrying out plantation along the 7.5m barrier, safety zone and gap plantation. PP should also submit the details of no of saplings planted and to be planted, type of saplings existing and proposed, existing survival rate and the area covered and to be covered under greenbelt/plantation along with the timeline and budget. The Project proponent also needs to submit the successful rate in compliance to the earlier EC.
- xvii. The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006. PP should also submit the time bound action plan on concerns of the public through a separate budget with capital expenditure with a timeline of 3 years. The Project proponent shall ensure that the activities proposed under the public hearing shall be different from the CSR activities. The Project Proponent also needs to submit the implementation status of the earlier public hearing concerns.
- xviii. The Project Proponent shall carry out the assessment of impact due to the proposed project as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP. The project proponent shall conduct hydrological study for projects involving intersection of ground water table as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP.
- xix. The Project Proponent shall explore the possibility of reduction of specific water requirement by optimization / technology up gradation, etc. The efforts shall be delineated in the EIA/EMP.
- xx. The Project Proponent shall prepare the scheme for mandatory recycle/reuse of water as specified by the Central Ground Water Authority for different category areas seeking NoC for ground water withdrawal and the shall submit as part of EIA/EMP report.
- xxi. The Action Plan on the compliance of the recommendations of the CAG as per Ministry's Circular No. J-11013/71/2016-IA.I(M), dated 25.10.2017 needs to be submitted at the time of appraisal of the project and included in the EIA/EMP Report.
- xxii. The Project Proponent needs to submit the latest Certified Compliance Report (CCR) by the Ministry's Regional Office at the time of appraisal of EC.

xxiii. The Project Proponent shall conduct drone survey of the mine lease area and buffer area and submit during the appraisal for EC.

Day 2: 27th December, 2023 (Wednesday)

2.1 Proposed Dongargaon Limestone Mine of M/s RCCPL Private Limited with total excavation of 1.52MillionTPA (ROM- Limestone – 0.9 Million TPA, OB – 0.56 Million TPA & Soil – 0.06 Million TPA) over an area of 252.36 ha, located at Village (s) - Dongargaon, Dahigaon and Wegaon, Tehsil – Wani&Maregaon, DistrictYavatmal, Maharashtra – [F.No: J-11015/33/2022-IA-II(NCM), Proposal No: IA/MH/MIN/451465/2023; EIA Consultant: M/s Enkay Enviro Services Private Limited] – Environmental Clearance (EC)

The instant proposal is for mining of Dongargaon Limestone Mine of M/s RCCPL Private Limited with total excavation of 1.52 Million TPA (Limestone: 0.9 Million TPA (ROM), OB – 0.56 Million TPA & Soil – 0.06 Million TPA) over an area of 252.36 ha, located at Village (s) – Dongargaon, Dahigaon and Wegaon, Tehsil – Wani&Maregaon, District Yavatmal, Maharashtra.

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" as the mining lease area is greater than 250ha and appraised at the Central level.
- ii. The mine lease area is located between Latitude: 20°2'24.76"N to 20°3'43.16"Nand Longitude: 78°50'22.24"E to 78°51'44.12"E. The mine lease area falls under the Survey of India Toposheet No: 55L/16 and falls in Seismic Zone II.
- iii. Details of Terms of Reference:
 - a) The Project Proponent obtained Terms of Reference vide ToRLr. No: IA-J-11015/33/2022-IA-II(NCM) dated 03.10.2022 for mining of Limestone in Dongargaon Limestone Mine of M/s RCCPL Private Limited with Total Excavation of 1.52 Million TPA [Limestone (ROM) – 0.9 Million TPA, OB – 0.56 Million TPA & Soil – 0.06 Million TPA] in the mine lease area of 252.36 Ha for undertaking detailed EIA/EMP study.

iv. Details of Mine Lease	:
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S. No	Lease Particulars	Date of Grant	Mineral	Mine Lease Area, Ha	Period	Granted by
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1	Letter of Intent	20.05.2022	Limestone	252.36	50 years	Govt. of
	for grant of					Maharashtra
	mining lease in					
	pursuant to					
	Rule 10 (2) of					
	the Mineral					
	(Auction)					
	Rules, 2015					
	and this Letter					
	of Intent is					
	valid for a					
	period of 3					
	years from the					
	date of its					
	issuance					

v. Land Use/Land Cover of the Mine lease area:

Private Agriculture land	252.36 Ha
Government land	Nil
Total Mine lease area (MLA)	252.36 Ha

vi. Details of Mining Plan:

Mining Plan including Progressive	Letter No.	YTL/LST/MPLN-02/2022-NGP	
Mine Closure Plan was approved by	Date	12.08.2022	
Indian Bureau of Mines	Mineral &	Limestone (Major)	
	(Major/Minor)		
	Mine Lease	252.36	
	Area, Ha		
Mining Parameters	Quantitative Des		
Method of Mining	Open cast Mech		
Drilling/Blasting		5 m (+10% subgrade drilling) will	
		compressed-air-operated DTH	
	drills.		
	The blasting will be done by ANFO/SME/Slurry		
	as column charge and slurry /cast booster		
	explosive as booster charge. Controlled blasting		
		by using Nonel detonators.	
Geological Reserves	12.95 Million Tonnes		
Mineable Reserves	5.36 Million Tonr		
Breakup of Total Excavation	Total Excavation-1.52 Million TPA		
(Topsoil/OB/SB/IB/Mineral Rejects/	Mineral (Limestone)-0.9 Million TPA		
Waste, MTPA)	OB-0.56 Million		
	Soil-0.06 Million	ТРА	
Life of mine	8 Years		
Mine Bench Height & Bench Width	Bench Height- 5.0 m & Width-15.0 m		

No. of Mine Benches	Max. 12					
Existing Depth, m bgl	Nil					
Ultimate Depth of Mining, m bgl	49 m bgl					
Ground Water Table, m bgl	Post Monsoon-25 m bgl& Pre-Monsoon-29 m bgl					
Details of ground water intersection	Ground water table will be intersected during					
	Post Monsoon period of 4 th year.					
Individual bench slope	80 ⁰					
Overall pit slope	35 ⁰					
Details of existing/ proposed	Not Any					
Crusher	NOT ANY					
Mineral Beneficiation	Not Any					
RoM output size	400 mm					
Transportation details including	Production TPD Avera		Averag	ge - 3000 Tonne		
capacity of dumper/tipper, mode of	(Limes		(Limes	tone)		
transport and distance			25/30 Tonne			
	Mode of Transport		By Road			
	Distance		55 km			
	•		34 No.	34 No. of dumper		
		Required per Day				
Generation of Topsoil/OB & its	Particular	Plan Period		Conceptual		
Management during plan period &	Soil	0.16	Million	0.19 Million		
conceptual period	Tonne		Tonne			
	Management					
	use for plantation					
	Over burden	1.89	Million	2.26 Million		
		Tonne				
	Management	Will be		Shall be		
	at waste dump		aump	utilized for		
Concretion of Minoral Deinstel	Net Amu			backfilling		
Generation of Mineral Rejects/	Not Any					
Waste & its Management during plan period & conceptual period						
pian pendu à conceptual pendu						

vii. Water requirement:

Total water requirement	115.0 KLD		Domestic	4.0 KLD		
	Fresh	105.6 KLD	Dust Suppression	80.0 KLD		
	Treated	9.4 KLD	Plantation	23.0 KLD		
			Workshop	8.0 KLD		
Source	Ground Water & Mine Pit Water					
Permission	No Objection Certificate (NOC) for Groundwater abstraction was obtained vide letter no. CGWA/NOC/MIN/ORIG/2023/18998, dated 11.08.2023 for abstraction of fresh water of 115 m ³ /day for the period up to 10.08.2025.					

viii.	Nearest village /	/ town/ highway/railway	v station /	water bodies/monument:

Particulars	-		* * *	Distance & Directions				
Nearest		Dongargaon			0.40 km, N (From lease boundary)			
Village	Dunge	Dongargaon			0.59 km, N (From mine working pit)			
Nearest	Wani			3.60 km		y pit)		
Town	vvarii			5.00 KH	I, L			
		0			N			
Nearest	NH-93	0	· · · · · · · · · · · · · · · · · · ·	4.0 km,	IN			
Highway	14/2.1			40.41				
Nearest	Wani			10.4 km	I, ENE			
Railway								
station				1				
Water bodies	S.	Ра	rticulars		Distance (Km)	Direction		
	No	N.L.			0.00	NI		
	1.		gudaNala adjoining	(from	0.86	Ν		
	2.		se boundary gudaNala passing	(110111	Nearest working pit in N) 0.170	S		
	Ζ.		ough lease boundary	(from	Nearest working pit in S)	3		
	3.		anmodNala		NE			
Forest			Particulars		3.53 Distance (Km)	Direction		
Forest	S. No.		Falticulais		(From Lease Bou			
			Res	eserve Forest (RF)				
	1.		Borgaon		3.49	SE		
	2.		Ghonsa		4.83	SSW		
	3.		MaregaonRamna		4.86	N		
	4.		Maregaon	5.41		Ν		
	5.		Margaon	6.37		Ν		
	6.		Suknegaon		6.66	SSE		
	7.		Manki	7.04		SE		
	8.		Pendhari	8.61		WSW		
	9.		Petur		8.67	SE		
	10.		Bhivkund		8.77	SW		
	11.		Phiski		9.90	N		
					orest (PF)			
		12. PF N/V Dongargad			0.72	NE		
		13. PF N/V Borda			2.94	S		
		14. PF N/V Kegaon			3.33	WSW		
	15.		PF N/V Gothani		5.06	SW		
	16.		PF N/V Surla		8.85	SW		
	17.		Lakhapur PF		9.71	NNE		

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

Forest Land/Protected	Yes/	Details of Certificate/letter/Remarks
Area/ Eco-Sensitive	No	
Zone(ESZ) /Eco-		
Sensitive Area(ESA)		
Forest Land No		The Project Proponent submitted the letter from the
		Office of the Conservator of Forest (Territorial),
		Yavatmal, Forest Circle dated 23.12.2022 stating that

		no forest land involved in the mining lease area of 252.36 ha.				
National Park	No					
Wildlife Sanctuary	No	The Project Proponent submitted the letter from the				
Elephant/Tiger Reserve		Office of the Principal Chief Conservator of Forest				
Eco-Sensitive Zone(ESZ) /Eco- Sensitive Area(ESA)	No	(HoFF) vide letter dated 19.06.2023 stating that there is no Sanctuary, National Park or Tiger Corridor observed within 10 km area from the mining area. The Tipeshwar Sanctuary is 38 Km away from this mining area. Hence, there is no need to take wildlife clearance for this proposal. The Project Proponent also submitted the map certified by Principal Chief Conservator of Forest (Wildlife).				
Schedule-I species (No.s and name of schedule-I species with authenticated letter)	Yes	The Project Proponent submitted the authenticated list of flora and fauna vide LrNo. DESK - 23 (2) / WL / SURVEY / PRAKRA30 / 785 / 2023-24, dated 19.06.2023. Core Zone - Large Bengal Monitor Lizard Buffer Zone - Tiger, Sloth Bear, Indian Pangolin, Indian Peafowl.				
Wildlife Conservation Plan	Yes	The Project Proponent submitted that the Wildlife Conservation plan for Five Schedule-I species was prepared and submitted to DCF, Pandhakawda, as well as PCCF (WL) Maharashtra on the basis of present study Field Observations, Working Plan and as per the recommendation of the Forest department – Yavatmal (Maharashtra). WLCP has been forwarded by CCF Amravati, on 08.11.2023 to APCCF (WL) East, Nagpur, Maharashtra.				

x. Green belt/plantation details:

Proposed area for green belt/plantation	38.94 ha
Budget for green plant& plantation till the end of life of	Rs. 1.01 Cr.
mine.	
Budget for nursery	Nil
Particulars for Green belt/plantation	Area covered (in Ha)
Along Road, Near Soil & OB Stack	14.16 ha
Dumps Area	6.84 ha
Backfilled area	12.80 ha
Two uppermost benches	5.14 ha
Total no. of saplings proposed to plant	39,210 No.s

xi. Baseline data:

Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)				
Period of baseline data collection	October, November & December - 2022			
Season (Summer / Pre-monsoon / Post-	Post Monsoon Season			

monsoon	/ \//inter)						
	ant Wind direction (Fro	m)	North				
				of Loc	ations of A	mhient	Δir
Ambient Air Quality (no. of locations) and results				Monitorir			
	Particular Res		ults	Sta	andard		
	PM10	38.5 to 50	δ.7 μg/m ³	100) μg/m ³		
	PM 2.5	16.3 to 3	7.6 μg/m ³			μg/m ³	
	SO2	7.9 to 24	.6 μg/m ³	80	μ g/m ³		
	NO2	12.2 to 30).8 μg/m ³		μ g/m ³		
Noise leve	el (no. of locations) and	results	<u>8 No. of L</u>	ocations	of Noise Mon		
			Day Time	9	44.6 to 49.8 (A)	B Leq dB	
			Night Tin	ne	40.1 to 42.4 (A)	Leq dB	
Water Qua	ality (no. of locations) a	nd results	8 No. o	f Locatio	ons of Grou	und Wa	iter
1	- 、 /		Quality Mo				
			рН		7.4 to 7.9		
			Total Hardness		162 to 199 r	ng/l	
			Alkalinity		148 to 176 mg/l		
			TDS		228 to 384 mg/l		
			3 No. of Locations of Surface Water				
			Quality m	onitoring:			
		pH		7.4-7.9			
		BOD		2.2-2.4 mg/l			
			COD		11.8-13.6 m	-	
0			DO		3.2-3.8 mg/l		
Soll Quali	ty (no. of locations) and	results	8 NO. OF L Monitoring		of Soil Qualit	У	
			pН		6.74 to 7.85		
			Type of S		Silty Clay		
			Nitrogen		87.2 to 279.3 mg/kg		
			Phospho		16.8 to 60.7		
<u> </u>			Potassiu		124.4 to 302	ě i	
Hydro geo	ological study and resul	lts		•	ponent subr		
					al study was		
				<u> </u>	ines issued		
					hority. As pe area is abou		
						ogl (Po	0
			`	,	approved mir		
					r working the		
				•	7 m bgl). Thu		
					ound water t		
			Post-Mon	soon p	eriod of	4 th ye	ear.
			Permissio	n for Gr	ound water	abstracti	ion

	was obtained vide letter no. CGWA/NOC/ MIN/ORIG/2023/18998, dated 11.08.2023. Permission for de-watering will be taken when required.There will be no considerable impact on ground water quality due to mining activity. However norms of CGWA regulations will be complied.
Traffic study (no. of locations) and results	 The Project Proponent submitted thattraffic survey was conducted at three station TS-1 (T bend of WegaonToKumbharkhani Mine Road To Dongargaon), TS-2(SH 233 T Bend To Wegaon Road (Near WCL Kumbhkarni Mine)) & TS-3 (SH 233 T Bend Wani - Mukutban Road). As per traffic survey, the existing Volume in PUV/Hr at TS stations is 32, 95 & 235 respectively and existing Capacity of Road in PUC/Hr is 625 and LOS Value for existing traffic Scenario come under A (excellent at TS-1 & TS-2) and B (Very Good at TS-3). After the operation of proposed mining only 30 PUC per/hr will increase. Hence, the carrying capacity of the road is accommodable for the proposed project.

xii. Public Hearing (PH) Details:

Advertisement for PH with date	1. Hitavada" – 15.06.2023			
(name of major national daily	2. "Lokmat" – 15.06.2023			
and one regional vernacular				
daily newspaper)				
Date of PH	17.07.2023			
Venue	At Project site of Dongargaon Limestone Mining			
	Project, Village-Dongargaon, Tehsil-Wani, District-			
	Yavatmal.			
Chaired by	Mr. AmolYedge, IAS, District Magistrate Yavatmal,			
	Chairman of Environment Public Hearing committee;			
	SouHema Deshpande,			
	Regional officer, Maharashtra Pollution Control Board			
	Chandrapur as Member and Mr.			
	UmashankarBhadule, Sub Regional Officer,			
	Maharashtra Pollution Control Board Chandrapur as			
	convener.			
Main issues raised during PH	Environment, Employment, Education and skill			

	development Programme, Transportation, Surface Water.	training Land Water		youth, npensation /Borewell	Plantatio CS Status	
Budget proposed for addressing issues raised during PH over 3 years		or Three y	vears)			

xiii. Rehabilitation & Resettlement (R&R):

R & R details	The Project Proponent submitted that R&R Plan/compensation details
	for the Project Affected Family's / Project Affected People has been
	prepared and as per the Detailed Report prepared the total land
	required for the lease period (08 years) is 82.21 Hectares. The land
	purchase cost based on the best (maximum) of LARR Act, 2013 and
	Maharashtra State Policy & Annual Statement of Rates which is Rs.
	13,42,94,000.
	However, land shall be purchased based on mutual agreement and
	consent of land owners. The land rates shall be in conformity to or
	higher than State Policy. Land purchase shall start after obtaining
	environmental clearance and mining lease grant order.

xiv. Court case details:

Court Case	Project Proponent submitted that there is no litigation pending against
	the project and/or land in which the project is proposed to be set up

xv. Affidavit/Undertaking details:

Affidavit as per	Project Proponent submitted an Affidavit in a non-judicial		
Ministry's OM dated	stamp paper of Rs 100 bearing 17AA 928904 dated		
30.05.2018	09.08.2022 stating that this mine will comply with all the		
	statutory requirement & judgment of Hon'ble Supreme Court		
	dated 2 nd August 2017 in Writ Petition (Civil) No. 114 of 2014		
	in the matter of common cause versus Union of India &Ors.		
Plagiarism certificate	The head of the EIA Consultant certified that this EIA report		
	has been evaluated using licensed software iThenticate		
	plagiarism software and plagiarism was checked on		
	04.12.2023. The report produced has been analyzed by the		
system and based analyzed by the system and based or			
certify the EIA Report produces in accordance with go			
	information technology practice.		

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

		Cost o	f EMP (Rs. in
<u>Sr</u>			crores)
Sr. No.	ENVIRONMENT	Capital	Recurring
		Cost	Cost per
		0031	Annum

Α	ENVIRONMENTAL AIR MANAGEMENT				
1	Tanker mounted water sprinklers	0.400	0.150		
2	Dust Mist canons	0.150	0.020		
SUB	TOTAL - A	0.55	0.17		
В	ENVIRONMENTAL WATER MANAGEMENT				
1	Garland drains around mine pit	0.040	0.008		
2	Silt Settling ponds	0.010	0.002		
3	ETP (Capacity- 10 KLD, Oil and grease trap for workshop waste water)	0.100	0.025		
4	STP (Capacity – 3 KLD, Sewage treatment for domestic waste water)	0.100	0.025		
5	Rain Water Harvesting Structure	0.100	0.025		
SUB	TOTAL - B	0.350	0.085		
С	ENVIRONMENTAL NOISE & GROUND VIBRATION MAN	AGEMEN	IT		
1	Periodic maintenance of Equipment's, signage installation, weather cock, Noise barrier like green corridor and bund around sensitive receptor	0.010	-		
2	Controlled blasting technique	0.100	0.010		
SUB	TOTAL - C	0.110	0.010		
D.	ENVIRONMENTAL SOIL & WASTE DUMP MANAGEMEN	NT			
1	Garland drain around dump (2m x 1.5m)	0.120	0.024		
2	Toe wall (Height-2.0) around dump	0.120	-		
SUB	TOTAL - D	0.240	0.024		
Е	PLANTATION PROGRAMME				
1	Plantation near soil stripping stock and waste dump, along haul road, Safety Zone, backfilled area, acting noise barrier and upper benches in water filled area (38.94 ha with 39,210 no. of Plants@1500 per ha)	1.10	0.11		
SUB	TOTAL – E	1.10	0.11		
F	TRANSPORT ROAD MAINTENANCE	I			
1	Strengthening of existing road and its maintenance to be used for transportation of mineral in association with local governance including Safety and speed signage on the road side	3.0	0.30		
SUB	TOTAL – F	3.0	0.30		
G	G WILD LIFE CONSERVATION PLAN FOR SCHEDULE-1 SPECIES				
1	Financial outlay for activities proposed in wildlife Conservation Plan of Schedule-I Species (Under Approval)	1.01	-		
SUB	TOTAL – G	1.01	-		
н	BUDGET FOR PUBLIC HEARING ACTION PLAN	0.60	-		
SUB	TOTAL – H	0.60	-		

GRAND TOTAL	6.96	0.699

xvii. Details of project cost and employment:

Particulars	(Rs. In Crore)		
Total cost of EMP (Capital Cost of EMP +	EMP Cost	Capital	Recurring
capital cost of Public hearing)		Cost in Cr,	Cost in Cr,
	Proposed	6.96	0.699
Project Cost	45.35 Cr		
Employment (No.s)	92		

3. Observation and Recommendation of the EAC:

After detailed deliberations made by the Project Proponent and the EIA Consultant, the EAC noted that instant mine is located adjacent to continuous forest patch having breeding tiger occupancy of Pandharkawada Forest Division and Tipeshwar Wildlife Sanctuary and thus the EAC was of the view that the Ministry may seek comments from National Tiger Conservation Authority (NTCA) in this regard. The EAC also noted that a school and temple is located in the vicinity of the mine lease area. The EAC opined that the Project Proponent needs to submit the sequence of mining near the school & temple and to demonstrate that how the mining activity will not have impact on the school& temple. The EAC observed that the Project Proponent needs to increase the density of plantation as per the guidelines of Central Pollution Control Board (CPCB) and needs to submit the revised plan for greenbelt/plantation all along the mine lease boundary, safety zone plantation, dump area, backfilled area, two uppermost benches etc. The EAC observed that the mined out mineral will be transported to the crusher located in Mukutban mine by road at a distance of about 55 kms) and from there to Cement plant by OLBC (1.9 km). The EAC was of the view that the Project Proponent needs to explore the possibility of installing portable crusher within the instant mine lease area along with the timeline. The EAC also observed that the Project Proponent prepared the Wildlife Conservation Plan in discussion with the local villagers. The EAC noted that as per the authenticated list of flora and fauna letter dated 19.06.2023, Large Bengal Monitor Lizard is found in the core zone. The EAC opined that the Project Proponent needs to prepare the Wildlife Conservation Plan in a scientific way in consultation with the Forest Department. The EAC noted that the land purchase will start after obtaining Environmental Clearance and grant of order of mining lease. The EAC also asked the Project Proponent to submit the merits and demerits of land acquisition. Based on the discussions held, the EAC deferred the proposal for want of following additional information: -

i. The EAC noted that instant mine is located adjacent to continuous forest patch having breeding tiger occupancy of Pandharkawada Forest Division and Tipeshwar Wildlife Sanctuary and thus the EAC was of the view that the Ministry may seek comments from National Tiger Conservation Authority (NTCA) in this regard.

- ii. The Project Proponent needs to explore the possibility of installing portable crusher within the instant mine lease area along with the timeline.
- iii. The Project Proponent needs to submit the sequence of mining near the school & temple and also to demonstrate that how the mining activity will not have impact on the school & temple.
- iv. The Project Proponent needs to prepare the Wildlife Conservation Plan in a scientific way in consultation with the Forest Department. PP also needs to specify the activities proposed along with budget under Wildlife Conservation Plan.
- v. The Project Proponent needs to increase the density of plantation as per the guidelines of Central Pollution Control Board (CPCB) and also needs to submit the revised plan for greenbelt/plantation all along the mine lease boundary, safety zone plantation, dump area, backfilled area, two uppermost benches etc.
- vi. The Project Proponent needs to submit the merits and demerits of land acquisition. PP also needs to submit the phase wise land acquisition plan.

2.2 Proposed 3C2 Limestone Block (Auctioned Block) of M/s. JSW Cement Ltd with Limestone Production Capacity: 2.50 Million TPA, OB/IB/Waste: 2.80 Million TPA, Top Soil: 0.38 Million TPA (Total Excavation: 5.68 Million TPA) along with Installation of Crusher 1600 TPH with Wobbler in the mine lease area of 386.0215 Ha, located at Villages: Harima &Deh, Tehsil: Nagaur&Deh, District: Nagaur, Rajasthan – [F.No: :IA-J-11015/49/2023-IA-II(NCM), Proposal No: IA/RJ/MIN/451760/2023; EIA Consultant: J.M. EnviroNet Pvt. Ltd] – Terms of Reference

The instant proposal is for mining of Limestone in 3C2 Limestone Block (Auctioned Block) of M/s. JSW Cement Ltd with proposed Limestone Production Capacity: 2.50 Million TPA, OB/IB/Waste: 2.80 Million TPA, Top Soil: 0.38 Million TPA (Total Excavation: 5.68 Million TPA) along with Installation of Crusher 1600 TPH with Wobbler in the mine lease area of 386.0215 Ha, located at Villages: Harima &Deh, Tehsil: Nagaur&Deh, District: Nagaur, 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 as the mine lease area is greater than 250 ha and appraised at the Central level.
- ii. The mine lease area is located between Latitude: 27°16'25.15"N to 27°17'21.393"N and Longitude: 73°52'31.652"E to 73°53'54.28"E. The mine lease area falls under the Survey of India Toposheet No: G43B15 (45E/15) and falls in Seismic Zone-II.

	Details of white Lease.					
S.no	Prospecting	Date of the	Name of	Period	Granted	Mine lease
	License/ Letter of	grant	the Mineral	of	by	area in Ha
	Intent (Lol)/ Grant		& (Major/	Grant		
	of Mine lease and		Minor)			
	Lr No					
1.	Letter of Intent	15.11.2022	Limestone	3	Govt. of	386.0215
	(LoI) for grant of			years	Rajasthan	
	mining lease					
	issued vide letter					
	no. P.2(21)					
	Khan/Group-					
	2/2022 through e-					
	auction process					

iii. Details of Mine Lease:

iv. Land Use/Land Cover of the Mine Lease area:-

Private land	292.3618 ha
Government waste land	90.2725 ha
Forest Land	-
Total Mining lease area (MLA), Ha	386.0215 ha Note:Thevariation in the total block area(386.0215 Hectare) and calculated by superimposition of block on revenue record (382.6343 hectare) is due to measurement in partial khasras and differences of areas in digitized settlement sheets and revenue record.
Private land for crusher, workshop & other infrastructure outside the MLA	No infrastructure is proposed outside the ML area.
Additional information (if any)	It is proposed to install a Crusher of 1600 TPH within the ML area.

v. Details of Mining Plan:

Mining	Plan	incl	luding	Letter No.	MCDR-MPC0LST/6/2023-AJM-
Progressive Mine Closure Plan			Plan		IBM_RO_AJM
was	approved	by I	ndian	Date	11.05.2023
Bureau	u of Mines			Mineral &	Limestone (Major)
				(Major/Minor)	

	Mine Lease	386.0215 ha
	Area, Ha	500.0215 ha
	Validity	5 years from the date of Mining Lease
	validity	deed Execution
Mining Parameters	Quantitative D	
Method of Mining		zed Opencast Mining Method.
Drilling/Blasting		done with sharp drill bits. Drill machine
		n wet drilling arrangement. Controlled
		proper spacing, burden, stemming and
	•	ge/delay to be adopted. NONEL will be
	used to contro	I ground vibrations, noise & fly rocks.
Geological Reserves	156.76 Million	Tonnes
Mineable Reserves	129.64 Million	Tonnes
Breakup of Total Excavation	Total Excavati	on: 5.68 Million TPA
(Topsoil/OB/SB/IB/Mineral		one: 2.50 Million TPA
Rejects/ Waste, MTPA)		Naste: 2.80 Million TPA
		il: 0.38 Million TPA
Life of mine	~55 years	
Mine Bench Height & Bench	•	8 m (Maximum)
Width		15 m (Minimum)
No. of Mine Benches		conceptual stage
Existing Depth, m bgl	applicable.	oosed mining project so this is not
Ultimate Depth of Mining, m bgl		L (50 m bgl (maximum depth)
Ground Water Table, m bgl		2.5 m AMSL (115 m to 125 m bgl)
Details of ground water		vill not be intersected by mine workings
intersection	at any stage o	f mining operation.
Individual bench slope	75°	
Overall pit slope	45°	
Details of existing/ proposed	Crusher of cap	pacity 1600 TPH & wobbler
Crusher		
Mineral Beneficiation	Nil	
RoM output size	<110 mm	
Transportation details including		I be transported from mine face to
capacity of dumper/tipper,		T dumpers via haul road.
mode of transport and distance		stone will be transported to proposed
		of M/s. JSW Cement Ltd. via Over Land
		r (OLBC) and via road for sale to the
Concration of Tanaail/OP 9 ita	prospective bu	
Generation of Topsoil/OB & its Management during plan	Top Soil:	first plan period, 0.21 Million Cu.m of
period & conceptual period.	•	Il be generated which will be used for
		development/Plantation.
		ual stage, 10.01 Million Cu.m of Top Soil
		herated and it will be used for greenbelt
	will be get	icialeu anu il will de useu iui greendeil

	 development/ plantation and for carpeting of the backfilled area for plantation. <u>OB/IB/Waste:</u> ➢ During the plan period, no overburden/Inter-burden/waste will be generated. ➢ At conceptual stage, about 43.44 Million Cu. m of waste will be generated which will entirely be utilized for back filling of mined-out area.
Generation of Mineral Rejects/	-
Waste & its Management	
during plan period &	
conceptual period	

vi. Water requirement:

Total water requirement		Domestic	7.0 KLD
		Dust suppression	168.0 KLD
	200 KLD	Greenbelt/Plantation	20.0 KLD
		Workshop	5.0 KLD
Source	Water will be	sourced from Ground v	vater (Borewells) and
	mine sump wa	ter (as & when develope	d).
Permission for	Working depth during the plan period will be 299.5 m AMSL		
withdrawal/ intersection			
along with details of	will be 257.5 m AMSL (50 m bgl). Depth of water table in the		
grant and its validity	area is at 192.5 m to 182.5 m AMSL (115 m to 125 m bgl).		
	Hence, there is no possibility of groundwater table		
	intersection by mine workings at any stage of mining		
	operation.		

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

Particulars	Particular's Name	Distance & Directions			
Nearest Village	Harima	~2.0 km in SW direction			
Nearest School	Govt. Primary Schoo	I, Banjaron Ki Dhani, Deh is present			
	within the lease area	in NW corner			
Nearest Town	Deh	~1.0 km in NE direction			
Nearest State/National	NH-58	Passing through the lease area from			
Highway		North boundary to West direction.			
Interstate Boundary	None	None			
Railway Station/Railway	Nagaur Railway	~17.3 km in SW direction			
line	Station				
Water Bodies	ChaparNaadi	(~ 4.2 km in SE direction)			
	JanjolaiNaadi	(~4.8 km in North direction)			
	JakhaliNaadi	(~5.0 km in NW direction)			
	Bamanda Nada	(~7.5 km in SE direction)			
	PinsariyaNaadi	(~ 8.0 km in SE direction)			

	N 1	
LEORAST	None	None
1 01030		

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

Forest Land / Protected Area /	Yes/No	Details of Certificate/letter issued by the		
Environmental Sensitivity		concerned Department mentioning the Lr no,		
Zone		date of grant and remarks		
Forest Land within the mine	No	No Forest land involved in mining lease area.		
lease area and (if yes) status				
of Forest Clearance				
National Park	No	No National Park, Wild Life Sanctuaries, Eco		
Wildlife Sanctuary	No	Sensitive Zone (ESZ)/ Eco-Sensitive Area		
Elephant/Tiger Reserve	No	(ESA) etc. within 10 km radius study area.		
Eco-Sensitive Zone (ESZ)	No			
/Eco-Sensitive Area (ESA)				
Coastal Regulation Zone	No			
(CRZ)				
Schedule-I species (No.s and	-	This proposal is for ToR, study is under		
name of schedule-I species		process, if any schedule -I found in the study		
with authenticated letter)		area, Wildlife Conservation Plan will be		
Wildlife Conservation Plan	-	prepared during the preparation of EIA/EMP		
		report.		

ix. Green belt/Plantation details:

Proposed area for green belt/plantation and no. of saplings proposed	Greenbelt and plantation will be carried out over an area of 196.52 ha (5.93 ha area on 7.5 m lease periphery, on waste dump covering an area of 10.52 ha, 155.44 ha on backfilled area & 24.63 ha on safety zone of school, electric line & Road).
Budget for green plant & plantation till the end of life of mine.	Rs. 5.9 Cr. (196.52 ha, 2,94,255 Saplings)
Budget for nursery	N/A
Details of existing plantation and its survival rate	It is a proposed mining project.
No. of tree cuts in the mine lease area and compensatory afforestation	No. of trees to be cut: 1611 (tentative figure considering entire life of mine) No. of trees proposed to be planted: 150 <i>Note: 1611 trees to be cleared and 150 trees to be transplanted is a tentative figure. Young trees are proposed to be transplanted and the figure may change after detailed study.</i>
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	5.93 ha
50 m safety zone of nallah, roads, electric lines	24.63 ha

x. Rehabilitation & Resettlement (R&R):

R & R details	The Project Proponent submitted that the total mine lease area
	is 386.0215 ha, out of which 292.3618 ha is private
	landand90.2725 ha is Govt. Land which spreads in 2 villages:
	Harima &Deh.Land will be purchased with negotiation and R&R
	provisions will be followed as per Central and State Government
	Rules & Notifications.

xi. Court case details:

Court Case, No and	The Project Proponent submitted a undertaking vide letter dated		
its present status	24.11.2023 stating that there is no litigation pending against the		
Undertaking by	project and/or any direction/ order passed by any court of law		
Project Proponent	against the project and/or land in which the project is proposed		
w.r.t court case	and that for any such litigation whatsoever, the sole		
	responsibilities will be borne by the company.		

xii. Affidavit/Undertaking details:

Affidavit as p	er The Project Proponent submitted the Affidavit in a nonjudicial
Ministry's OM date	ed stamp paper of Rs 100 bearing no: 77AA 401394dated
30.05.2018	24.11.2023 stating that the company undertakes by affidavit to
	comply with all the statutory requirement & judgment of Hon'ble
	Supreme Court order dated 2 nd August 2017 in Writ Petition
	(Civil) No. 114 of 2014 in the matter of common cause versus
	Union of India & Ors before grant of ToR/EC

xiii. Details of project cost and employment:

Particulars	Budget (Rs. in Crores)
Project Cost	Rs. 203.50 Crores
Employment	79 persons

3. Observation and Recommendation of the EAC: -

The Project Proponent presented the KML of mine leases of 3C2 Limestone Block, 3C1 Limestone Block and 3D1 Limestone Block. The EAC noted that all three mine leases sharing common boundary and contiguous to each other. The Project Proponent informed the EAC that all these three blocks are non-captive mine. The Limestone produced will be used for cement manufacturing in company's proposed Cement Plant and the Limestone will also be sold to prospective buyers. The Project Proponent informed the EAC that in 3C2 Limestone Block, a Govt. Primary School, Banjaron Ki Dhani, Deh is located within the lease area in NW corner. NH-58 is passing through all these three mine lease areas. A crusher of 1600 TPH &Wobbler will be installed in all these three mine lease areas respectively. Limestone will be transported from mine face to crusher by 40 T dumpers via haul road. Crushed Limestone will be transported to the proposed Cement Plant of M/s. JSW Cement Ltd. via Over Land Belt Conveyor (OLBC) and via road for sale to the prospective buyers. The EAC opined that the Project Proponent needs to submit the year wise sequence of mining operation considering the nearby surface features and their impacts and mitigation measures. The EAC was of the view that the working in the common boundary needs to be reflected in the mining plan.

Further, the Project Proponent informed the EAC that there are no Wildlife Sanctuaries, National Parks, Biosphere Reserves), Reserve/ Protected Forest within 10km radius study area. The EAC opined that the Project Proponent needs to submit the detailed scientific study on flora and fauna and also to highlight on the endangered species. The EAC asked the Project Proponent to verify the list as per the latest Wildlife Protection Amendment Act, 2022. The EAC also asked the Project Proponent to submit the letter from the State Forest Department regarding whether the instant mine leases fall under Aravalli or not. The EAC noted that the tree cutting is involved in all these three mine leases. The EAC asked the Project Proponent to submit the compensatory afforestation plan and also to submit the action plan for tree transplantation. The EAC noted that Rehabilitation & Resettlement (R&R) is involved in all these three mine leases. The EAC asked the Project Proponent to submit the detailed R&R plan in consultation with the local people and also needs to cover all the components viz. number of Project Affected Families (PAF) and details of the land owned by them, break up of total compensation to be paid including method of calculation including the sources/references adopted and mode of payment etc. The Project Proponent informed that compensation provided to PAF is mostly 3-4 times of the land cost. The EAC opined that the Project Proponent needs to submit the livelihood education and skill development plan.

Based on the discussions held, the EAC in its meeting held during 26-28 December, 2023, under the provisions of EIA Notification, 2006 and its subsequent amendments therein, **recommended** the proposal for grant of Terms of Reference to M/s. JSW Cement Ltd for mining of Limestone in 3C2 Limestone Block (Auctioned Block) with proposed Limestone Production Capacity: 2.50 Million TPA, OB/IB/Waste: 2.80 Million TPA, Top Soil: 0.38 Million TPA (Total Excavation: 5.68 Million TPA) along with installation of Crusher 1600 TPH with Wobbler in the mine lease area of 386.0215 Ha, located at Villages: Harima & Deh, Tehsil: Nagaur & Deh, District: Nagaur, Rajasthan for undertaking detailed EIA/EMP study subject to the following specific conditions in addition to the standard ToR conditions applicable for non-coal mining projects:-

- i. The Project Proponent needs to submit the action plan for shifting the school within the mine lease area.
- ii. The EAC was of the view that the working in the common boundary needs to be reflected in the mining plan.
- iii. The Project Proponent needs to submit the ecology restoration plan for mined out pits for using as Water reservoir/ Pisciculture as well as the plan for the backfilled area.
- iv. The Project Proponent needs to submit the year wise sequence of mining operation and plan for backfilling considering the site features and their impacts and mitigation.
- v. The Project Proponent needs to submit the detailed scientific study on flora and fauna and also to highlight on the endangered species. The Project Proponent needs to verify the list as per the latest Wildlife Protection Amendment Act, 2022.
- vi. The Project Proponent needs to submit the letter from the State Forest Department regarding whether the instant mine leases fall under Aravalli or not.
- vii. The Project Proponent needs to monitor the ambient air quality and noise level at the mine lease boundary, nearest village, crusher, predominant downwind direction and at other sensitive receptors. Accordingly, Project Proponent shall propose to install Continuous Ambient Air Quality Monitoring Station within certain timeline.
- viii. The Project Proponent should prepare the EMP considering the scenario of pollution to be generated for normative and peak total excavation for assessing air pollution, noise level and ground vibration.
- ix. The Project Proponent shall monitor the water quality in the impact zone such as water reservoir, river water with specific reference to the parameter Langelier Saturation Index which will denote the impact of calcium carbonateson water bodies and these parameters and determine the tendency of water to form calcium carbonate scaling.
- x. The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006. PP should also submit the time bound action plan on

concerns of the public through a separate budget with capital expenditure with a timeline of 3 years. The Project proponent shall ensure that the activities proposed under the public hearing shall be different from the CSR activities.

- xi. The Project Proponent needs to undertake the enumeration of the species within the mine lease area before cutting. The Project Proponent also needs to submit the compensatory afforestation plan for the no. of trees to be cut in the mine lease area and also to explore the possibility of tree transplantation.
- xii. The Project Proponent needs to submit the action plan for undertaking the plantation along the 7.5m barrier, safety zone of tar road/cart tracks, electric line etc., PP should also submit the details no of saplings to be planted, type of saplings proposed and the area to be covered under greenbelt/plantation along with the timeline and budget. The greenbelt/plantation plan shall be prepared in such a way that the ecology of the area shall be restored.
- xiii. The Project Proponent shall carry out the assessment of impact due to the proposed project as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP. The project proponent shall conduct hydrological study for projects involving intersection of ground water table as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP.
- xiv. The Project Proponent shall explore the possibility of reduction of specific water requirement by optimization / technology up gradation, etc. The efforts shall be delineated in the EIA/EMP.
- xv. The Project Proponent shall prepare the scheme for mandatory recycle/re-use of water as specified by the Central Ground Water Authority for different category areas seeking NoC for ground water withdrawal and the shall submit as part of EIA/EMP report.
- xvi. The Project Proponent needs to submit the detailed R&R plan covering all the components viz. number of Project Affected Families (PAF) and details of the land owned by them, break up of total compensation to be paid including method of calculation including the sources/references adopted and mode of payment etc.

- xvii. The Project Proponent needs to submit the plan for Socio economic development of the neighbourhood habitats based on the need based survey along with the time bound action plan in consultation with the local people. Further, PP needs to submit the possession certificate and timeline for acquiring the land at the time of submission of EC proposal.
- xviii. The Project Proponent needs to submit a letter from the Department of Geology and Mining, Government of Rajasthan 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. JSW Cement Ltd or not?
- xix. The Project Proponent shall conduct drone survey of the mine lease area and buffer area and submit during the appraisal for EC.
- xx. The Project Proponent needs to initiate action to obtain permission to shift the HT line.

2.3 Proposed 3C1 Limestone Block (Auctioned Block) of M/s. JSW Cement Limited with Limestone Production Capacity: 1.45 Million TPA, OB/IB/Waste: 0.52 Million TPA, Top Soil: 0.07 Million TPA (Total Excavation: 2.04 Million TPA) along with installation of Crusher of 1600 TPH with Wobbler in the mine lease area of 300.7284 ha, located at Villages: Harima, Bhadana&Deh, Tehsil: Nagaur&Deh, District: Nagaur, Rajasthan - [F.No: :IA-J-11015/50/2023-IA-II(NCM), Proposal No: IA/RJ/MIN/452414/2023; EIA Consultant: J.M. EnviroNet Pvt. Ltd] – Terms of Reference

The instant proposal is for mining of Limestone in 3C1 Limestone Block (Auctioned Block) of M/s. JSW Cement Limited with proposed Limestone Production Capacity: 1.45 Million TPA, OB/IB/Waste: 0.52 Million TPA, Top Soil: 0.07 Million TPA (Total Excavation: 2.04 Million TPA) along with installation of Crusher of 1600 TPH with Wobbler in the mine lease area of 300.7284 ha, located at Villages: Harima, Bhadana&Deh, Tehsil: Nagaur&Deh, District: Nagaur, Rajasthan.

2. The details of the project as ascertained from the document submitted by the Project Proponent are given below:

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 as the mine lease area is greater than 250 ha and appraised at the Central level.

- ii. The mine lease area is located between Latitude: 27°16'24.639"N to 27°17'20.742"N and Longitude: 73°51'27.709" E to 73°52'32.21 " E. The mine lease area falls under the Survey of India Toposheet No: G43B15 (45E/15) and falls in Seismic Zone-II.
- iii. Details of Mine Lease:

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.	Letter of Intent(LoI) for grant of mining lease issued vide letter no. P.2(22) Khan/Group- 2/2022through e- auction process	15.11.2022	Limestone	3 years	Govt. of Rajasthan	300.7284

iv. Land Use/Land Cover of the Mine Lease area:

Private land	264.0431 ha
Government waste land	36.6953 ha
Forest Land	-
Total Mining lease area (MLA), Ha	300.7284 ha
Private land for crusher, workshop &	No infrastructure is proposed outside the ML
other infrastructure outside the MLA	area.
Additional information (if any)	It is proposed to install a Crusher of 1600 TPH
	within the ML area.

v. Details of Mining Plan:

Mining Plan including Letter No. MCDR-MPC0LST/5/2023-AJM-				
No. MCDR-MPC0LST/5/2023-AJM-				
IBM_RO_AJM				
12.05.2023				
al & Limestone (Major)				
r/Minor)				
Lease 300.7284 ha				
На				
ty 5 years from the date of Mining Lease				
deed Execution				
Quantitative Description				
Fully Mechanized Opencast Mining Method.				
Drilling will be done with sharp drill bits. Drill machine				
equipped with wet drilling arrangement. Controlled				
blasting with proper spacing, burden, stemming and				
um charge/delay to be adopted. NONEL will be				

	used to control ground vibrations, noise & fly rocks.
Geological Reserves	188.45 Million Tonnes
Mineable Reserves	168.46 Million Tonnes
Breakup of Total Excavation	Total Excavation: 2.04 Million TPA
(Topsoil/OB/SB/IB/Mineral	6. Limestone: 1.45 Million TPA
Rejects/ Waste, MTPA)	7. OB/IB/Waste: 0.52 Million TPA
	8. Top Soil: 0.07 Million TPA
Life of mine	~119 years
Mine Bench Height & Bench	Bench height: 8 m (Maximum)
Width	Bench Width: 15 m (Minimum)
No. of Mine Benches	5 benches at conceptual stage
Existing Depth, m bgl	It is a proposed mining project and hence not
	applicable.
Ultimate Depth of Mining, m bgl	274.5 m AMSL (39 m bgl (maximum depth)
Ground Water Table, m bgl	198.5 m to 188.5 m AMSL (115 m to 125 m bgl)
Details of ground water	Water table will not be intersected by mine workings
intersection	at any stage of mining operation.
Individual bench slope	75°
Overall pit slope	45°
Details of existing/ proposed	Crusher of capacity 1600 TPH & wobbler
Crusher	
Mineral Beneficiation	Nil
RoM output size	<110 mm
Transportation details including	Limestone will be transported from mine face to
capacity of dumper/tipper,	crusher by 40 T dumpers via haul road.
mode of transport and distance	Crushed limestone will be transported to proposed
	Cement Plant of M/s. JSW Cement Ltd. via Overland
	belt conveyor and via road for sale to the prospective
	buyers.
Generation of Topsoil/OB & its	Top Soil:
Management during plan	During the first plan period, 0.14 Million Cu.m of
period & conceptual period.	Topsoil will be generated which will be used for
	Greenbelt development/Plantation.
	At conceptual stage, 4.31 Million Cu.m of Top Soil
	will be generated which willbe entirely be used for
	greenbelt development/ plantation and for
	carpeting of the backfilled area for plantation.
	OB/IB/Waste:
	During the plan period, no overburden/Inter- burden/waste will be generated
	burden/waste will be generated.
	At conceptual stage, about 19.86 Million Cu.m of wasta will boutilized for back filling of minod out
	waste will beutilized for back filling of mined-out area.
Generation of Mineral Rejects/	
Waste & its Management	
during plan period &	
adming plan period a	

conceptual period	

vi. Water requirement:

Total water requirement		Domestic	7.0 KLD	
	200 KLD	Dust suppression	168.0 KLD	
	200 NLD	Greenbelt/Plantation	20.0 KLD	
		Workshop	5.0 KLD	
Source		sourced from Ground w	· · · · · · · · · · · · · · · · · · ·	
	mine sump wa	mine sump water (as & when developed).		
Permission for withdrawal/ intersection				
along with details of grant and its validity				

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

Particulars	Particular's Name	Distance & Directions		
Nearest Village	Harima	~1.0 km in SW direction		
Nearest Town	Deh	~3.0 km in NE direction		
Nearest School	Govt. Primary School, Banjaron Ki Dhani, Deh	~0.06 Km in NE direction		
Nearest State/National	NH-58	Passing through the lease area		
Highway		from East boundary to the		
		South direction.		
Interstate Boundary	None	None		
Railway Station/Railway	Nagaur Railway Station	~15.7 km in SW direction		
line				
Water Bodies	JakhaliNaadi	~4.0 km in NW Direction		
	JanjolaiNaadi	~5.4 km in North Direction		
	ChaparNaadi	~ 5.9 km in SE Direction		
	Bamanda Nada	~9.0 km in SE Direction		
	PinsariyaNaadi	~ 9.3 km in SE Direction		
Forest	None	None		

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

Forest Land / Protected Area /	Yes/No	Details of Certificate/letter issued by the			
Environmental Sensitivity		concerned Department mentioning the Lr no,			
Zone		date of grant and remarks			
Forest Land within the mine	No	No Forest land involved in mining lease area.			
lease area and (if yes) status					
of Forest Clearance					

National Park	No	No National Park, Wild Life Sanctuaries, Eco
Wildlife Sanctuary	No	Sensitive Zone (ESZ)/ Eco-Sensitive Area
Elephant/Tiger Reserve	No	(ESA) etc. within 10 km radius study area.
Eco-Sensitive Zone (ESZ)	No	
/Eco-Sensitive Area (ESA)		
Coastal Regulation Zone	No	
(CRZ)		
Schedule-I species (No.s and	-	This proposal is for ToR, study is under
name of schedule-I species		process, if any schedule - I found in the study
with authenticated letter)		area, Wildlife Conservation Plan will be
Wildlife Conservation Plan	-	prepared during the preparation of EIA/EMP
		Report.

ix. Green belt/Plantation details:

Proposed area for green	Greenbelt and plantation will be carried out over
belt/plantation and no. of saplings	an area of 116.61 ha (5.18 ha area on 7.5 m
proposed	lease periphery, 95 ha backfilled area, 4.13 ha
	area will be covered under top bench plantation
	& 12.3 ha under safety zone of road, school &
	other virgin area).
Budget for green plant & plantation	Rs. 3.50 Cr. (116.61 ha, 174,915 Saplings)
till the end of life of mine.	
Budget for nursery	N/A
Details of existing plantation and its	It is a proposed mining project.
survival rate	
No. of tree cuts in the mine lease	No. of trees to be cut: 1378 (tentative figure
area and compensatory afforestation	considering entire life of mine)
	No. of trees proposed to be planted: 150
	Note: 1378 trees to be cleared and 150 trees to
	be transplanted is a tentative figure. Young trees
	are proposed to be transplanted and the figure
	may change after detailed study.
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized	5.18 ha
zone	
50 m safety zone of nallah, roads,	12.3 ha
electric lines	
500 m safety zones of nearest	Nil
habitation villages	
U U	

x. Rehabilitation & Resettlement (R&R):

R & R details	The Project Proponent submitted that the total mine lease area
	is 300.7284 ha, out of which 264.0431 ha is a private land and
	36.6953 ha is a Govt. Land which spreads in 3 villages: Harima,
	Bhadana&Deh.Land will be purchased with negotiation and
	R&R provisions will be followed as per Central and State

Government Rules & Notifications.

xi. Court case details:

Court Case, No and	The Project Proponent submitted a undertaking vide letter dated		
its present status	24.11.2023 stating that there is no litigation pending against the		
Undertaking by	project and/or any direction/ order passed by any court of law		
Project Proponent	against the project and/or land in which the project is proposed		
w.r.t court case and that for any such litigation whatsoever, the			
	responsibilities will be borne by the company.		

xii. Affidavit/Undertaking details:

Affidavit	26	nor	The Project Proponent submitted the Affidavit in a nonjudicial		
		•	· · ·		
Ministry's	OM	dated	stamp paper ofRs 100 bearing no: 77AA 401395dated		
30.05.2018	3		24.11.2023 stating that the company undertakes by affidavit to		
			comply with all the statutory requirement & judgment of Hon'ble		
			Supreme Court order dated 2 nd August 2017 in Writ Petition		
			(Civil) No. 114 of 2014 in the matter of common cause versus		
			Union of India &Ors before grant of ToR/EC.		

xiii. Details of project cost and employment:

Particulars	Budget (Rs. in Crores)
Project Cost	Rs. 198.45 Crores
Employment	91 persons

3. Observation and Recommendation of the EAC: -

The EAC deliberated the instant proposal (3C1 Limestone Block) along with 3C2 Limestone Block and 3D1 Limestone Block as all these mine leases sharing common boundary and contiguous to each other. Based on the discussions held,the EAC in its meeting held during 26-28 December, 2023, under the provisions of EIA Notification, 2006 and subsequent amendments therein, **recommended** the proposal for grant of Terms of Reference to M/s. JSW Cement Ltd for mining of Limestone in 3C1 Limestone Block (Auctioned Block) with proposed Limestone Production Capacity: 1.45 Million TPA, OB/IB/Waste: 0.52 Million TPA, Top Soil: 0.07 Million TPA (Total Excavation: 2.04 Million TPA) along with installation of Crusher of 1600 TPH with Wobbler in the mine lease area of 300.7284 ha, located at Villages: Harima, Bhadana & Deh, Tehsil: Nagaur & Deh, District: Nagaur, Rajasthan for undertaking detailed EIA/EMP study subject to the following specific conditions in addition to the standard ToR conditions applicable for non-coal mining projects:-

i. The EAC was of the view that the working in the common boundary needs to be reflected in the mining plan.

- ii. The Project Proponent needs to submit the ecology restoration plan for mined out pits for using as Water reservoir/ Pisciculture as well as the plan for the backfilled area.
- iii. The Project Proponent needs to submit the year wise sequence of mining operation and plan for backfilling considering the site features and their impacts and mitigation.
- iv. The Project Proponent needs to submit the detailed scientific study on flora and fauna and also to highlight on the endangered species. The Project Proponent needs to verify the list as per the latest Wildlife Protection Amendment Act, 2022.
- v. The Project Proponent needs to submit the letter from the State Forest Department regarding whether the instant mine leases fall under Aravalli or not.
- vi. The Project Proponent needs to monitor the ambient air quality and noise level at the mine lease boundary, nearest village, crusher, predominant downwind direction and at other sensitive receptors. Accordingly, Project Proponent shall propose to install Continuous Ambient Air Quality Monitoring Station within certain timeline.
- vii. The Project Proponent should prepare the EMP considering the scenario of pollution to be generated for normative and peak total excavation for assessing air pollution, noise level and ground vibration.
- viii. The Project Proponent shall monitor the water quality in the impact zone such as water reservoir, river water with specific reference to the parameter LangelierSaturation Index which will denote the impact of calcium carbonateson water bodies and these parameters and determine the tendency of water to form calcium carbonate scaling.
- ix. The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006. PP should also submit the time bound action plan on concerns of the public through a separate budget with capital expenditure with a timeline of 3 years. The Project proponent shall ensure that the activities proposed under the public hearing shall be different from the CSR activities.
- x. The Project Proponent needs to undertake the enumeration of the species within the mine lease area before cutting. The Project Proponent also needs to submit

the compensatory afforestation plan for the no. of trees to be cut in the mine lease area and also to explore the possibility of tree transplantation.

- xi. The Project Proponent needs to submit the action plan for undertaking the plantation along the 7.5m barrier, safety zone of tar road/cart tracks, electric line etc., PP should also submit the details no of saplings to be planted, type of saplings proposed and the area to be covered under greenbelt/plantation along with the timeline and budget. The greenbelt/plantation plan shall be prepared in such a way that the ecology of the area shall be restored.
- xii. The Project Proponent shall carry out the assessment of impact due to the proposed project as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP. The project proponent shall conduct hydrological study for projects involving intersection of ground water table as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP.
- xiii. The Project Proponent shall explore the possibility of reduction of specific water requirement by optimization / technology up gradation, etc. The efforts shall be delineated in the EIA/EMP.
- xiv. The Project Proponent shall prepare the scheme for mandatory recycle/re-use of water as specified by the Central Ground Water Authority for different category areas seeking NoC for ground water withdrawal and the shall submit as part of EIA/EMP report.
- xv. The Project Proponent needs to submit the detailed R&R plan covering all the components viz. number of Project Affected Families (PAF) and details of the land owned by them, break up of total compensation to be paid including method of calculation including the sources/references adopted and mode of payment etc.
- xvi. The Project Proponent needs to submit the plan for Socio economic development of the neighbourhood habitats based on the need based survey along with the time bound action plan in consultation with the local people. Further, PP needs to submit the possession certificate and timeline for acquiring the land at the time of submission of EC proposal.

- xvii. The Project Proponent needs to submit a letter from the Department of Geology and Mining, Government of Rajasthan 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. JSW Cement Ltd or not?
- xviii. The Project Proponent shall conduct drone survey of the mine lease area and buffer area and submit during the appraisal for EC.

2.4 Proposed 3D1 Limestone Block (Auctioned Block) of M/s. JSW Cement Limited with Limestone Production Capacity: 1.0 Million TPA, Waste: 0.34 Million TPA, Top Soil: 0.06 Million TPA (Total Excavation: 1.40 Million TPA) along with installation of Crusher 1600 TPH with Wobbler in the mine lease area of 357.0937 ha, located at Villages: Harima, Sarasani&Deh, Tehsil: Nagaur&Deh, District: Nagaur, Rajasthan - [F.No: :IA-J-11015/46/2023-IA-II(NCM), Proposal No: IA/RJ/MIN/452877/2023; EIA Consultant: J.M. EnviroNet Pvt. Ltd] – Terms of Reference

The instant proposal is for mining of Limestone in 3D1 Limestone Block (Auctioned Block) of M/s. JSW Cement Limited with proposed Limestone Production Capacity: 1.0 Million TPA, Waste: 0.34 Million TPA, Top Soil: 0.06 Million TPA (Total Excavation: 1.40 Million TPA) along with installation of Crusher 1600 TPH with Wobbler in the mine lease area of 357.0937 ha, located at Villages: Harima, Sarasani&Deh, Tehsil: Nagaur&Deh, District: Nagaur, Rajasthan.

2. The details of the project as ascertained from the document submitted by the Project Proponent are given below:

- 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 as the mine lease area is greater than 250 ha and appraised at the Central level.
- The mine lease area is located between Latitude: 27°15'55.751"N to 27°16' 25.809"N and Longitude: 73°51'30.391"E to 73°53'54.280" E. The mine lease area falls under the Survey of India Toposheet No: G43B15 (45E/15) and falls in Seismic Zone-II.

S.no	Prospecting	Date of the	Name of	Period	Granted	Mine lease
	License/ Letter of	grant	the Mineral	of	by	area in Ha
	Intent (LoI)/ Grant		& (Major/	Grant		
	of Mine lease and		Minor)			
	Lr No					
1.	Letter of Intent	30.06.2023	Limestone	3	Govt. of	357.0937
	(LoI) for grant of			years	Rajasthan	

iii. Details of Mine Lease:

mining lease vide Lr No. P.3(10) Khan/Group- 2/2017 issued	
through e-auction process	

iv. Land Use/Land Cover of the Mine Lease Area:-

Private land	301.8498 ha
Government waste land	55.2439 ha
Forest Land	-
Total Mining lease area (MLA), Ha	357.0937 ha
Private land for crusher, workshop &	No infrastructure is proposed outside the ML
other infrastructure outside the MLA	area.
Additional information (if any)	It is proposed to install a Crusher of 1600 TPH
	within the mine lease area.

v. Details of Mining Plan:-

v. Details of Mining Plan:-		
Mining Plan including	Letter No.	E-8702-MCDR-MPC0LST/21/2023-
Progressive Mine Closure Plan		AJM -IBM_RO_AJM
was approved by Indian	Date	06.12.2023
Bureau of Mines(IBM)	Mineral &	Limestone (Major)
	(Major/Minor)	
	Mine Lease	357.0937
	Area, Ha	
	Validity	5 years from the date of Mining Lease
		deed Execution
Mining Parameters	Quantitative D	
Method of Mining		zed Opencast Mining Method.
Drilling/Blasting		done with sharp drill bits. Drill machine
		n wet drilling arrangement. Controlled
		proper spacing, burden, stemming and
	optimum charge/delay to be adopted. NONEL will be	
		I ground vibrations, noise & fly rocks.
Geological Reserves	199.15 Million Tonnes	
Mineable Reserves	158.03 Million Tonnes	
Breakup of Total Excavation		on: 1.40 Million TPA
(Topsoil/OB/SB/IB/Mineral		one: 1.0 Million TPA
Rejects/ Waste, MTPA)		0.34 Million TPA
		il: 0.06 Million TPA
Life of mine	~161 years	
Mine Bench Height & Bench	- · · · · · · · · · · · · · · · · · · ·	
Width		15 m (Minimum)
No. of Mine Benches	4 benches at conceptual stage	
Existing Depth, m bgl	It is a prop	osed mining project and hence not

	appliaghla
Lilling at a Danth of Mining up hal	applicable.
Ultimate Depth of Mining, m bgl	274.5 m AMSL (30 m bgl (maximum depth)
Ground Water Table, m bgl	124 m AMSL to 184 m AMSL (115 m to 125 m bgl)
Details of ground water	Water table will not be intersected by mine workings
intersection	at any stage of mining operation.
Individual bench slope	75°
Overall pit slope	45°
Details of existing/ proposed Crusher	Crusher of capacity 1600 TPH & wobbler
Mineral Beneficiation	Nil
	<110 mm
RoM output size	
Transportation details including	Limestone will be transported from mine face to
capacity of dumper/tipper,	crusher by 40 T dumpers via haul road.
mode of transport and distance	Crushed limestone will be transported to proposed
	Cement Plant of M/s. JSW Cement Ltd. via Overland
	belt conveyor and via road for sale to the prospective
Openantian of Tanaail/OD 9 ite	buyers.
Generation of Topsoil/OB & its Management during plan period & conceptual period.	 <u>Top Soil:</u> ➢ During the first plan period, 21255Cu.m of Topsoil will be generated which will be used for Greenbelt development/Plantation.
	At conceptual stage, total 1015336.76 Cu.m of Top Soil will be generated which willbe entirely be used for greenbelt development/ plantation.
	 <u>Waste:</u> ➢ During the plan period, no overburden in the form of Soil/ alluvium will be generated.
	At conceptual stage, about 27.51 Million Cu.m of waste generated will beutilized for back filling of mined-out area.
Generation of Mineral Rejects/	-
Waste & its Management	
during plan period &	
conceptual period	

vi. Water requirement:

Total water require	ment		Drinking & Domestic	5.0 KLD
		200 KLD	Dust suppression	170.0 KLD
			Greenbelt/Plantation	20.0 KLD
			Workshop	5.0 KLD
Source	'	Water will be sourced from Ground water (Borewells) and		
		mine sump water (as & when developed).		d).
Permission	for	Working depth during the plan period will be 301 m AMSL		
withdrawal/ inters	ection	(8.0 m bgl) and at conceptual stage, ultimate working depth		
along with deta	ls of	will be 279 m AMSL (30 m bgl). Depth of water table in the		

grant and its validity	area is at 124 m AMSL to 184 m AMSL (115 m to 125 m		
	bgl). Hence, there is no possibility of groundwater table		
	intersection by mine workings at any stage of mining		
	operation.		

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

Particulars	Particular's Name	Distance & Directions
Nearest Village	Harima	~150 m in SW direction
Nearest School	Govt. Upper Primary	~300 m in SW direction
	School, Harima	
Nearest Town	Deh	~3.0 km in NE direction
Nearest State/National	NH-58	Passing through the lease area
Highway		from North-west corner.
Interstate Boundary	None	None
Railway	Nagaur Railway Station	~15.1 km inSW direction
Station/Railway line		
Water Bodies	ChhaparNaadi	(~ 3.8 km in SE)
	JakhaliNaadi	(~ 5.4 km in NW)
	BamandaNaadi	(~ 6.6 km in SE)
	JanjolaiNaadi	(~ 7.0 km in North)
	PinsariyaNaadi	(~ 7.6 km in SE)
Forest	None	None

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

Forest Land / Protected Area / Environmental Sensitivity	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no,
Zone		date of grant and remarks
Forest Land within the mine	No	No Forest land involved in mining lease area.
lease area and (if yes) status		
of Forest Clearance		
National Park	No	No National Park, Wild Life Sanctuaries, Eco
Wildlife Sanctuary	No	Sensitive Zone (ESZ)/ Eco-Sensitive Area
Elephant/Tiger Reserve	No	(ESA) etc. within 10 km radius study area.
Eco-Sensitive Zone (ESZ)	No	
/Eco-Sensitive Area (ESA)		
Coastal Regulation Zone	No	
(CRZ)		
Schedule-I species (No.s and	-	This proposal is for ToR, study is under
name of schedule-I species		process, if any schedule - I found in the study
with authenticated letter)		area, Wildlife Conservation Plan will be
Wildlife Conservation Plan	-	prepared during the preparation of EIA/EMP Report.

ix. Green belt/Plantation details:

Proposed area for green belt/plantation and no. of saplings proposed	Total area under greenbelt and plantation will be ha 140.22 ha on backfilled area and 10.79 ha area including Greenbelt along 7.5 m Mine Periphery & Plantation in Safety Zone etc.).
Budget for green plant & plantation	Rs. 4.5 Cr.
till the end of life of mine.	
Budget for nursery	N/A
Details of existing plantation and its survival rate	It is a proposed mining project.
No. of tree cuts in the mine lease	No. of trees to be cut: 1570 (tentative figure
area and compensatory afforestation	considering entire life of mine)
	No. of trees proposed to be planted: 150
	Note: 1570 trees to be cleared and 150 trees to
	be transplanted is a tentative figure. Young trees
	are proposed to be transplanted and the figure
	may change after detailed study.
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized	43.1137 ha area including greenbelt Road, HT
zone	Line, Power line safety zone plantation etc.
50 m safety zone of nallah, roads, electric lines	

x. Rehabilitation & Resettlement (R&R):

R & R details	The Project Proponent has submitted that the total mine lease
	area is 357.0937 ha, out of which 55.2439 ha is Govt. Land and
	301.8498 ha is a Pvt land which spreads in 3 villages: Harima,
	Sarasani&Deh.Land will be purchased with negotiation and
	R&R provisions will be followed as per Central and State
	Government Rules & Notifications

xi. Court case details:

Court Case, No and	The Project Proponent submitted a undertaking vide letter dated	
its present status	24.11.2023 stating that there is no litigation pending against the	
Undertaking by	project and/or any direction/ order passed by any court of law	
Project Proponent	against the project and/or land in which the project is proposed	
w.r.t court case	and that for any such litigation whatsoever, the sole	
	responsibilities will be borne by the company.	

xii. Affidavit/Undertaking details:

Affidavit as	per	The Project Proponent submitted the Affidavit in a nonjudicial
Ministry's OM o	dated	stamp paper ofRs 100 bearing no: 77AA 401393 dated
30.05.2018		24.11.2023 stating that the company undertakes by affidavit to
		comply with all the statutory requirement & judgment of Hon'ble
		Supreme Court order dated 2 nd August 2017 in Writ Petition
		(Civil) No. 114 of 2014 in the matter of common cause versus
		Union of India &Ors before grant of ToR/EC

xili. Details of project cost and employment:		
Particulars Budget (Rs. in Crores)		
Project Cost Rs. 197.60 Crores		
Employment	82 persons	

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3. **Observation and Recommendation of the EAC: -**

The EAC deliberated the instant proposal (3D1 Limestone Block) along with 3C2 Limestone Block and 3C1 Limestone Block as all these mine leases sharing common boundary and contiguous to each other. Based on the discussions held, the EAC in its meeting held during 26-28 December, 2023, under the provisions of EIA Notification, 2006 and subsequent amendments therein, recommended the proposal for grant of Terms of Reference to M/s. JSW Cement Ltd for mining of Limestone in 3D1 Limestone Block (Auctioned Block) with proposed Limestone Production Capacity: 1.0 Million TPA, Waste: 0.34 Million TPA, Top Soil: 0.06 Million TPA (Total Excavation: 1.40 Million TPA) along with installation of Crusher 1600 TPH with Wobbler in the mine lease area of 357.0937 ha, located at Villages: Harima, Sarasani & Deh, Tehsil: Nagaur & Deh, District: Nagaur, Rajasthan for undertaking detailed EIA/EMP study subject to the following specific conditions in addition to the standard ToR conditions applicable for non-coal mining projects:-

- i. The EAC was of the view that the working in the common boundary needs to be reflected in the mining plan.
- The Project Proponent needs to submit the ecology restoration plan for mined ii. out pits for using as Water reservoir/ Pisciculture as well as the plan for the backfilled area.
- iii. The Project Proponent needs to submit the year wise sequence of mining operation and plan for backfilling considering the site features and their impacts and mitigation.
- iv. The Project Proponent needs to submit the detailed scientific study on flora and fauna and also to highlight on the endangered species. The Project Proponent needs to verify the list as per the latest Wildlife Protection Amendment Act, 2022.
- The Project Proponent needs to submit the letter from the State Forest v. Department regarding whether the instant mine leases fall under Aravalli or not.

- vi. The Project Proponent needs to monitor the ambient air quality and noise level at the mine lease boundary, nearest village, crusher, predominant downwind direction and at other sensitive receptors. Accordingly, Project Proponent shall propose to install Continuous Ambient Air Quality Monitoring Station within certain timeline.
- vii. The Project Proponent should prepare the EMP considering the scenario of pollution to be generated for normative and peak total excavation for assessing air pollution, noise level and ground vibration.
- viii. The Project Proponent shall monitor the water quality in the impact zone such as water reservoir, river water with specific reference to the parameter LangelierSaturation Index which will denote the impact of calcium carbonateson water bodies and these parameters and determine the tendency of water to form calcium carbonate scaling.
- ix. The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006. PP should also submit the time bound action plan on concerns of the public through a separate budget with capital expenditure with a timeline of 3 years. The Project proponent shall ensure that the activities proposed under the public hearing shall be different from the CSR activities.
- x. The Project Proponent needs to undertake the enumeration of the species within the mine lease area before cutting. The Project Proponent also needs to submit the compensatory afforestation plan for the no. of trees to be cut in the mine lease area and also to explore the possibility of tree transplantation.
- xi. The Project Proponent needs to submit the action plan for undertaking the plantation along the 7.5m barrier, safety zone of tar road/cart tracks, electric line etc., PP should also submit the details no of saplings to be planted, type of saplings proposed and the area to be covered under greenbelt/plantation along with the timeline and budget. The greenbelt/plantation plan shall be prepared in such a way that the ecology of the area shall be restored.
- xii. The Project Proponent shall carry out the assessment of impact due to the proposed project as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP. The project proponent shall conduct hydrological study for projects involving intersection of ground water table as per the guidelines issued by the Central

Ground Water Authority from time to time and submit the same as a part of the EIA/EMP.

- xiii. The Project Proponent shall explore the possibility of reduction of specific water requirement by optimization / technology up gradation, etc. The efforts shall be delineated in the EIA/EMP.
- xiv. The Project Proponent shall prepare the scheme for mandatory recycle/re-use of water as specified by the Central Ground Water Authority for different category areas seeking NoC for ground water withdrawal and the shall submit as part of EIA/EMP report.
- xv. The Project Proponent needs to submit the detailed R&R plan covering all the components viz. number of Project Affected Families (PAF) and details of the land owned by them, break up of total compensation to be paid including method of calculation including the sources/references adopted and mode of payment etc..
- xvi. The Project Proponent needs to submit the plan for Socio economic development of the neighbourhood habitats based on the need based survey along with the time bound action plan in consultation with the local people. Further, PP needs to submit the possession certificate and timeline for acquiring the land at the time of submission of EC proposal.
- xvii. The Project Proponent needs to submit a letter from the Department of Geology and Mining, Government of Rajasthan 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. JSW Cement Ltd or not?
- xviii. The Project Proponent shall conduct drone survey of the mine lease area and buffer area and submit during the appraisal for EC.

Day 3: 28th December, 2023 (Thursday)

3.1 Proposed Rata - Mandha Limestone Mine (Auctioned Block) of M/s. Deccan Cements Limited with Limestone Production Capacity: 1.5 Million TPA along with installation of Crusher 750 TPH in the mine lease area of 420.0 ha, located at Village: Rata Mandha, Tehsil: Mohangarh, District: Jaisalmer, Rajasthan – [IA-J-11015/48/2023-IA-II(NCM), Proposal No: IA/RJ/MIN/453669/2023; EIA Consultant: J.M. EnviroNet Pvt. Ltd] – Terms of Reference (ToR)

The instant proposal is for mining of Limestone in Rata - Mandha Limestone Mine (Auctioned Block) of M/s Deccan Cements Limited with proposed Limestone Production Capacity: 1.5 Million TPA along with installation of Crusher 750 TPH in the mine lease area of 420.0 ha, located at Village: Rata Mandha, Tehsil: Mohangarh, 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 as the mine lease area is greater than 250 ha and appraised at the Central level.
- ii. The mine lease area is located between Latitude: 27°18'31.2441" N to 27°19'37.24040" N and Longitude: 70°52'13.80922" E to 70°53' 31.2778" E. The mine lease area falls under the Survey of India Toposheet No: G42E15 and falls in Seismic Zone-V.

S.	Prospecting	Date of the	Name of the	Period	Granted	Mine lease
No	License/ Letter of	grant	Mineral &	of	by	area in Ha
	Intent (Lol)/ Grant	-	(Major/	Grant	-	
	of Mine lease and		Minor)			
	Lr No		,			
1.	Letter of Intent	08.03.2023	Limestone	2	Govt. of	420.00 ha
	(Lol) for grant of		(Major)	years	Rajasthan	
	mining lease			-	-	
	granted vide LrNo.					
	P.3(1)					
	Khan/Group-					
	2/2022through e-					
	auction process					
	conducted by the					
	Govt. of					
	Rajasthan.					

iii. Details of Mine Lease:

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

Private land	57.21 ha
Government waste land	362.79 ha
Forest Land	-
Total Mining lease area (MLA), Ha	420.0 ha
Private land for crusher, workshop &	No infrastructure is proposed outside the ML
other infrastructure outside the MLA	area.

v. Details of Mining Plan:-

v. Details of Mining Plan:-	1			
Mining Plan including	Letter No.	MCDR-MPC0LST/11/2023-AJM-		
Progressive Mine Closure Plan		IBM_RO_AJM		
was approved by Indian	Date	08.09.2023		
Bureau of Mines	Mineral &	Limestone (Major)		
	(Major/Minor)			
	Mine Lease	420.00 ha		
	Area, Ha			
	Validity	5 years from the date of Mining Lease		
		registration		
Mining Parameters	Quantitative D			
Method of Mining	Fully Mechania	zed Opencast Mining Method.		
Drilling/Blasting		done by mechanized opencast method		
	using Hydrau	Ilic excavator/loader. Drilling will be		
	carried out wi	th the help of hydraulic drill machines		
	equipped with	n arrangement for wet drilling, dust		
		sample collection. Controlled blasting		
	will be carried	out. No secondary blasting is proposed.		
		r will be deployed for breaking the		
	oversized bou	Iders. To control the ground vibration as		
	well as fly rock only 100% Non-Electric (NONEL)			
	detonators will be used.			
Geological Reserves	209.71 Million TPA (As on 10.08.2023)			
Mineable Reserves	168.83 Million TPA (As on 10.08.2023)			
Breakup of Total Excavation	Total Excavation: 1.56Million TPA			
(Topsoil/OB/SB/IB/Mineral	Breakup of To	tal Excavation:		
Rejects/ Waste, MTPA)	1. Limesto	one: 1.50 Million TPA		
	2. Over Bu	urden: 0.06 Million TPA		
Life of mine	116 years (As	on 10.08.2023)		
Mine Bench Height & Bench	Bench height: 9 m (During plan period), 8 m (During			
Width	conceptual stage).			
		25 m (During plan period), 9 m (During		
No. of Mire Develope	conceptual sta			
No. of Mine Benches		uring plan period], 5 (In Pit 3) and 4 (In		
Evicting Depth in hal		During conceptual stage]		
Existing Depth, m bgl		d project and hence not applicable.		
Ultimate Depth of Mining, m bgl	· · ·	m) (In Pit no 1 & 2)		
	132 m RL (40	m) (in Pit 3)		
Ground Water Table, m bgl	70 m bgl	In the area is also (70 - 1 - 1		
Details of ground water		le in the area is about 70 m deep and		
intersection		vorking depth will be 40 m bgl. Thus,		
		I not be intersected during mining at any		
	stage.			
Individual bench slope	80°			
Overall pit slope	45°			

Details of existing/ proposed	Capacity of 750 TPH crusher is proposed.		
Crusher			
Mineral Beneficiation	Nil		
RoM output size	Nil		
Transportation details including	Limestone will be transported from mine face to head		
capacity of dumper/tipper,	by dumpers via haul road and it will be transported to		
mode of transport and distance	end users via road or belt conveyor.		
Generation of Topsoil/OB & its	Over Burden:		
Management during plan	During the plan period 0.064 Million Tonnes of		
period & conceptual period.	waste will be generated which will be stacked		
	temporarily and will be utilized further for		
	backfilling.		
	During conceptual stage, 18.83 Million Tonnes of		
	waste will be generated, out of which 18.45 million		
	tonnes of waste will be backfilled over an area of		
	23.07 ha and remaining 0.38 million tonnes of		
	waste will be stacked in dump over an area of		
	5.04 ha which will be rehabilitated by plantation.		
Generation of Mineral Rejects/	-		
Waste & its Management			
during plan period &			
conceptual period			

vi. Water requirement:

Total water requirement		Domestic	10.0 KLD	
	70 KLD	Dust suppression	35.0 KLD	
		Plantation	20.0 KLD	
		Workshop	5.0 KLD	
Source	IGNP canal (SagarmalGopa Branch) and mine sump as and			
	when developed.			
	Permission will be taken from competent authority for using			
	of canal water.			
Permission for	The water table in the area is about 70 m deep and the			
withdrawal/ intersection	ultimate working depth will be 40 m bgl. Thus, water table will			
along with details of	not be intersected during mining at any stage and hence			
grant and its validity	permission is not required.			

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

Particulars		Particular's Name	Directions	
Nearest Village		Kinya	~1.2 km in NW direction	
Nearest Town		Jaisalmer	~111 km in SE direction	
Nearest	State/National	MDR-103	~4.3 km in NNE direction	
Highway		MDR-19	~5.4 km in NW direction	

Interstate	Boundary	None			None	
Railway	Station/Railway	Jaisalmer Railway Station		Station	~44 km in SSE Direction	
line						
Water Bodies		Indira	Gandhi	Canal	~4.5 km in NNE direction	
		(SagarmalGopa Branch)		anch)		
Forest		None			None	

viii. Presence of Environmentally Sensitive areas in the study area

Forest Land / Protected Area /	Yes/No	Details of Certificate/letter issued by the
Environmental Sensitivity		concerned Department mentioning the Lr no,
Zone		date of grant and remarks
Forest Land within the mine	No	No Forest land involved in mining lease area.
lease area and (if yes) status		Letter from competent authority will be taken.
of Forest Clearance		
National Park	No	No National Park, Wildlife Sanctuary,
Wildlife Sanctuary	No	Elephant/Tiger Reserve involved in study
Elephant/Tiger Reserve	No	area. Letter from competent authority will be
Eco-Sensitive Zone (ESZ)	No	taken.
/Eco-Sensitive Area (ESA)		
Coastal Regulation Zone	No	
(CRZ)		
Schedule-I species (No.s and	-	This proposal is for ToR, study will be carried
name of schedule-I species		out, if any schedule - I species found in the
with authenticated letter)		study area Wildlife Conservation Plan will be
Wildlife Conservation Plan	-	prepared during the preparation of EIA/EMP
		Report.

ix. Green belt/Plantation details:

Proposed area for green belt/plantation and no. of saplings proposed	Total area under greenbelt and plantation will be under 76.052 ha (6.127 ha area on 7.5 m lease periphery +5.04 ha on waste dump + 23.07 ha on backfilled area + 20.94 ha on 2 no of top most benches + 20.875 ha on 45 m safety one of tar road).	
Budget for green plant & plantation till the end of life of mine.	Rs. 2.30 Crore	
Budget for nursery	N/A	
Details of existing plantation and its	It's a greenfield project.	
survival rate		
No. of tree cuts in the mine lease	50no.s	
area and compensatory afforestation		
Particulars for Green belt/plantation	Area covered (in Ha)	
7.5 m barrier & non-mineralized	6.127 ha	
zone		
50 m safety zone of nallah, roads,	20.875 ha	

electric lines	
500 m safety zones of nearest habitation villages	Nil
Habitation villages	

x. Rehabilitation & Resettlement (R&R):

R & R details	The Project Proponent has submitted that the total mine lease				
	rea is 420 ha, out of which 57.21 ha is private land. Land will				
	be purchased with negotiation and R&R provisions will be				
	followed as per Central and State Government Rules &				
	Notifications.				

xi. Court case details:

Court Case, No and its present status	The e-auction organized for a Rata Mandha Limestone block. The initial attempt dida't reactive any hide at the 10% reactive
	 The initial attempt didn't receive any bids at the 10% reserve price. In the second attempt of auction, DCL and SCL participated in which the highest bid of 10.40 percent was proposed by SCL which was declared as Preferred Bidder. Considering that the bid submitted by SCL was relatively less received by the State Government and considering the revenue interest involved in the matter and wider public interest and government revenue,
	 the bid submitted by M/s Shree Cement Limited was rejected. Following the rejection, Shree Cement Limited filed a case (Civil Writ Petition No. 16345/2018) before the Honourable High Court in Jodhpur against the government's order dated July 23, 2019. As of now, no stay order has been issued by the Honourable Court, and the case remains pending. In the third attempt of auction, M/s Deccan Cements Limited declared as the Preferred Bidder with a winning bid of 15.25% in the e-auction conducted on 16.12.2021 and LOI has been issued by Government of Rajasthan vide letter No. P.3(1) Khan/Group-2/2022 dated 08.03.2023 for grant of Mining Lease for the said Block for a period of 2 years.
Undertaking by Project Proponent w.r.t court case	N/A

xii. Affidavit/Undertaking details:

Affidavit as pe	The Project Proponent submitted the Affidavit in a non judicial
Ministry's OM date	I stamp paper of Rs 100 bearing no: AN 756550 dated
30.05.2018	01.12.2023 stating that the company undertakes by affidavit that
	it will comply with all the statutory requirement & judgment of
	Hon'ble Supreme Court order dated 2 nd August 2017 in Writ
	Petition (Civil) No. 114 of 2014 in the matter of common cause
	versus Union of India & Ors before grant of ToR/EC

xili. Details of project cost and employment:				
Particulars Budget (Rs. in Crores)				
Project Cost	Rs. 45 Crores			
Employment 68 persons				

Detaile of any lost point and should be made

3. **Observation and Recommendation of the EAC: -**

The Project Proponent/EIA Consultant presented the KML file to indicate the site features in the study area of 10 km radius. The Project Proponent showed the boundary of the mine lease area. The Project Proponent informed the EAC that One HT line passes through mine lease area. Safety barriers are left in both sides of HT line and the same will not be disturbed at any stage of mining activity. Tar road of length of 2.20 km exists within the mine lease area. Nearest village is Khinya Village located at a distance of ~1.2 km in NW direction. A School is also located in Khinya Village. Nearest water body is Indira Gandhi Canal (~4.5 km, NNE). Dumpers of 20 Tonnes capacity bucket capacity will be used for transportation of mineral from mine face to the crusher. During the initial period of 2 years, Limestone produced from this mine will be directly sold in open market and then in fourth/fifth year Limestone will be used in upcoming cement plant which will be installed in the year 2030. During the first two years, Limestone will be transported by road at a distance of 50 km to the Sanu railway siding. The EAC was of the view that the Project Proponent needs to double the width of road. The Project Proponent informed the EAC that at the end of conceptual stage, an area of 329.45 ha will be excavated out of which 285.44 ha will be converted into water reservoir, 23.07 ha will be backfilled and an area of 20.94 ha will be reclaimed on top most 2 benches. During conceptual stage, about 18.83 Million Tonnes of waste will be generated, out of which 18.45 million tonnes of waste will be backfilled over an area of 23.07 ha and remaining 0.38 million tonnes of waste will be stacked in dump over an area of 5.04 ha which will be rehabilitated by plantation. Till 30 years, mining will be carried out in Govt. land.

The EAC asked about the status of court case. The Project proponent informed the EAC that initially e-auction organized for the Rata Mandha Limestone block. The initial attempt didn't receive any bids at the 10% reserve price. In the second attempt of auction, Deccan Cements Limited (DCL) and Shree Cement Limited (SCL) participated in which the highest bid of 10.40 percent was proposed by SCL and declared as a Preferred Bidder. Considering that the bid submitted by SCL was relatively less and considering the revenue interest involved in the matter and wider public interest and government revenue, the bid submitted by Shree Cement Limited was rejected. Then, the Shree Cement Limited filed a case (Civil Writ Petition No. 16345/2018) before the Hon'ble High Court in Jodhpur against the Govt. order dated July 23, 2019. As of now,

no stay order has been issued by the Hon'ble Court, and the case remains pending. Next date of hearing is 23.04.2024. In the third attempt of auction, M/s Deccan Cements Limited declared as the Preferred Bidder with a winning bid of 15.25% in the e-auction conducted on 16.12.2021 and accordingly Letter of Intent (LoI)for grant of mining lease was granted by the Govt. of Rajasthan vide letter dated 08.03.2023 for the said block for a period of 2 years. The EAC opined that the instant Terms of Reference would be subject to the outcome of the court case filed before the Hon'ble High Court in Jodhpur in Civil Writ Petition No. 16345/2018.

Based on the discussions held, the EAC in its meeting held during 26-28 December, 2023, under the provisions of EIA Notification, 2006 and subsequent amendments therein, **recommended** the proposal for grant of Terms of Reference to M/s Deccan Cements Limited for mining of Limestone in Rata - Mandha Limestone Mine (Auctioned Block) with proposed Limestone Production Capacity: 1.5 Million TPA along with installation of Crusher 750 TPH in the mine lease area of 420.0 ha, located at Village: Rata Mandha, Tehsil: Mohangarh, District: Jaisalmer, Rajasthan for undertaking detailed EIA/EMP study subject to the following specific conditions in addition to the standard ToR conditions applicable for non-coal mining projects:-

- i. The instant Terms of Reference would be subject to the outcome of the court case filed before the Hon'ble High Court in Jodhpur in Civil Writ Petition No. 16345/2018.
- ii. The Project Proponent needs to submit the timeline and action plan for transporting the Limestone through OLBC.
- iii. The Project Proponent needs to submit the ecology restoration plan for mined out pits for using as Water reservoir/ Pisciculture as well as the plan for the backfilled area.
- iv. The Project Proponent needs to submit the year wise sequence of mining operation and plan for backfilling considering the site features and their impacts and mitigation.
- v. The Project Proponent needs to monitor the ambient air quality and noise level at the mine lease boundary, nearest village, crusher, predominant downwind direction and at other sensitive receptors. Accordingly, Project Proponent shall propose to install Continuous Ambient Air Quality Monitoring Station within certain timeline.

- vi. The Project Proponent should prepare the EMP considering the scenario of pollution to be generated for normative and peak total excavation for assessing air pollution, noise level and ground vibration.
- vii. The Project Proponent shall monitor the water quality in the impact zone such as water reservoir, river water with specific reference to the parameter Langelier Saturation Index which will denote the impact of calcium carbonates on water bodies and these parameters and determine the tendency of water to form calcium carbonate scaling.
- viii. The Project Proponent needs to submit the map showing the transport route of the mineral from the mine lease area to the destination, impact of details of habitation at a distance of 100m from the center on both sides of road, details of no. of trips/day to and fro, capacity of the dumper/tipper to be deployed and the dimensions of the road, existing and additional traffic load to the NH/SH/MDR and the carrying capacity of the road. Project Proponent needs to submit SOP for transportation.
- ix. The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006. PP should also submit the time bound action plan on concerns of the public through a separate budget with capital expenditure with a timeline of 3 years. The Project proponent shall ensure that the activities proposed under the public hearing shall be different from the CSR activities.
- x. The Project Proponent needs to undertake the enumeration of the species within the mine lease area before cutting. The Project Proponent also needs to submit the compensatory afforestation plan for the no. of trees to be cut in the mine lease area and also to explore the possibility of tree transplantation.
- xi. The Project Proponent needs to submit the action plan for undertaking the plantation along the 7.5m barrier, safety zone of tar road/cart tracks, electric line etc., PP should also submit the details no of saplings to be planted, type of saplings proposed and the area to be covered under greenbelt/plantation along with the timeline and budget. The greenbelt/plantation plan shall be prepared in such a way that the ecology of the area shall be restored.
- xii. The Project Proponent needs to submit employment based skill development plan for the local people and thrust should be to provide employment to local people after imparting training.

- xiii. The Project Proponent shall carry out the assessment of impact due to the proposed project as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP. The project proponent shall conduct hydrological study for projects involving intersection of ground water table as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP.
- xiv. The Project Proponent shall explore the possibility of reduction of specific water requirement by optimization / technology up gradation, etc. The efforts shall be delineated in the EIA/EMP.
- xv. The Project Proponent shall prepare the scheme for mandatory recycle/re-use of water as specified by the Central Ground Water Authority for different category areas seeking NoC for ground water withdrawal and the shall submit as part of EIA/EMP report.
- xvi. The Project Proponent needs to submit the detailed R&R plan covering all the components viz. number of Project Affected Families (PAF) and details of the land owned by them, break up of total compensation to be paid including method of calculation including the sources/references adopted and mode of payment etc. The Project Proponent needs to submit the plan for Socio economic development of the neighbourhood habitats based on the need based survey along with the time bound action plan. An action plan for land acquisition in consent with the local people also needs to be submitted. Further, PP needs to submit the possession certificate and timeline for acquiring the land at the time of submission of EC proposal.
- xvii. The Project Proponent needs to submit a letter from the Department of Geology and Mining, Government of Rajasthan 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. Deccan Cement Ltd or not?
- xviii. The Project Proponent shall submit the action plan along with timeline for doubling the width of the village road which is to be used for transportation.
- xix. The Project Proponent shall conduct drone survey of the mine lease area and buffer area and submit during the appraisal for EC.

3.2 Mahulsukha Iron and Manganese Ore Block of M/s Patnaik Minerals Private Ltd for mining of Iron and Manganese Ore in the mine lease area of 390.317 ha (as per DGPS)/399.838 ha (as per ROR), with proposed production capacity of Iron Ore: Total Excavation: 1.662977 MTPA; ROM: 1.0MTPA and Manganese Ore: Total Excavation: 1.407519 MTPA; ROM: 0.15MTPA, located at Villages Randa, Rantha and Bhutuda under Bonai Sub-Division and Lahunipada Tehsil, Sundargarh District, Odisha - [F. No: J-11015/75/2020-IAII(M), Proposal No: IA/OR/MIN/180360/2020] – Environmental Clearance (EC)

The instant proposal is for mining of Mahulsukha Iron and Manganese Ore Block of M/s Patnaik Minerals Private Ltd for mining of Iron and Manganese Ore in the mine lease area of 390.317 ha (as per DGPS)/399.838 ha (as per ROR), with proposed production capacity of Iron Ore: Total Excavation: 1.662977 MTPA; ROM: 1.0MTPA and Manganese Ore: Total Excavation: 1.407519 MTPA; ROM: 0.15MTPA, located at Villages Randa, Rantha and Bhutuda under Bonai Sub-Division and Lahunipada Tehsil, Sundargarh District, Odisha.

2. Observation and Recommendation of the EAC: -

The EAC noted that the Project Proponent vide letter dated 12.12.2023 informed that due to unavoidable circumstances they are not in position to present the technical presentation and hence requested to defer the proposal. Based on the request of the Project Proponent letter dated 12.12.2023, the EAC **deferred** the proposal.

3.3 Gojoli-Somanpalli Dongargaon Limestone Block (Auctioned Block) of M/s Dalmia Cement (Bharat) Ltd. for mining of Limestone with Limestone Production Capacity 1.0 Million TPA, Soil: 0.10 Million TPA, OB: 0.15 Million TPA & Waste: 0.25 Million TPA (TotalExcavation-1.50 Million TPA) along with installation of Impact Crusher-500 TPH Capacity with Screen/Wobbler in the mine lease area of 646.55 Villages: Somanpalli, ha. located at Dhaba. ChakDubarpeth. ChakNavegaon, GojoliMakta and ChakGojoli, Tehsil: Gondpipri, District: Chandrapur, Maharashtra – [Proposal No: IA/MH/MIN/285399/2022, F.No: IA-J-11015/31/2022-IAII(NCM), EIA Consultant: M/s Aditya Environmental Services Pvt.Ltd] – Terms of Reference (ToR)

The instant proposal is for grant of Terms of Reference for mining of Limestone in Gojoli-SomanpalliDongargaon Limestone Block (Auctioned Block) of M/s Dalmia Cement (Bharat) Ltd. with Limestone Production Capacity 1.0 Million TPA, Soil: 0.10 Million TPA, OB: 0.15 Million TPA & Waste: 0.25 Million TPA (Total Excavation-1.50 Million TPA) along with installation of Impact Crusher-500 TPH Capacity with Screen/Wobbler in the mine lease area of 646.55 ha, located at Villages: Somanpalli, Dhaba, ChakDubarpeth, ChakNavegaon, GojoliMakta and ChakGojoli, Tehsil: Gondpipri, District: Chandrapur, Maharashtra. 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 2(b) Mineral Beneficiation and falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.
- ii. The mine lease area is located between Latitude: 19°35'50.61"N to 19"40'40.89"N and Longitude: 79°38'40.56"E to 79°40'00.39"E. The mine lease area falls under the Survey of India Toposheet No: 56 M/10 and falls in Seismic Zone II.
- The proposal was earlier considered in the 2ndEAC (Non-Coal Mining) meeting iii. held during 16 - 18 August, 2022 wherein the EAC noted that the instant proposal located at an environmental sensitivity area due to presence of 185.83 ha of forest land involved in the mine lease area, Tiger corridor (Kanha-Navegaon-Nagzira-Tadoba-Indravati), Kanhargaon Wildlife Sanctuary (~450 m, W), area of 11.12 ha under seasonal nalla/pond, 17.95 ha under road and 1.09 Ha under settlement inside the mine lease area. Kanhargaon Wildlife Sanctuary situated at 450 meters from lease boundary is a part of identified tiger corridor connecting tiger meta populations in the existing tiger reserves of the landscape. Some forest and Govt. lands near the lease area may also be playing similar role for meta population management. In view of the above, the EAC opined that the comment from the National Tiger Conservation Authority (NTCA) is a prerequisite for further consideration of the instant proposal for Terms of Reference (ToR). Therefore, the EAC deferred the proposal and asked the Project Proponent to submit the comments from the National Tiger Conservation Authority (NTCA) w.r.t Tiger corridor and State authority for wildlife corridor. Then, the Project Proponent submitted the information on 09.08.2023 and 04.12.2023 in Parivesh portal and accordingly the proposal was considered in the 24th EAC (Non-Coal Mining) meeting held during 26-28 December, 2023.

Based on observation of EAC in its EAC meeting held during 16-18 August, 2022 and compliance of observation of EAC made by Project Proponent are detailed below:

S. No	Observation of EAC in its meeting heldduring 16-18 August, 2022	Reply by Project Proponent					
1	Comments from the National Tiger Conservation Authority (NTCA) w.r.t Tiger corridor	 The NTCA Division gave their comments on 21.09.2023 which are as follows: 1. The ML area is located at approximate distances of 40 km from TadobaAndhari Tiger Reserve (TATR), 51 km from Kawal Tiger 					

Reserve and 86 km from Indravati
Tiger Reserve. Nearest Protected Areas to the ML area are
Kanhargaon WLS (approximately
450 m) and Chaprala WLS
(approximately 14 km). Moreover, the
ML area is at an approximate
distances of 7.5 km from
IndravatiTadoba tiger (least cost
pathway) corridor and 46 km from
IndravatiNavegaonNagzira tiger
(least cost pathway) corridor
delineated by NTCA and Wildlife
Institute of India. A map is enclosed
in this regard.
The ML area is part of tiger corridors delineated for Eastern Vidharbha
Landscape (EVL) by Wildlife Institute
of India and is adjacent to the tiger
corridor delineated by Maharashtra
Forest Department in the Tiger
Conservation Plan for
TadobaAndhari Tiger Reserve. A
map is enclosed in this regard.
3. The ML area has presence of tigers
in its vicinity as per all India tiger
estimations carried out in 2022 and 2018. Maps showing tiger distribution
are enclosed in this regard.
4. As per 2022 cycle of all India tiger
estimation, the ML area had
presence of large mammals and
major tiger prey species such as
leopard, sloth bear, dhole, gaur,
chital and sambar in its vicinity. Many
of these species are endangered and
under Schedule I of the Wildlife (Protection) Act, 1972.
5. Currently, both Kawal and Indravati
Tiger Reserves support low density
tiger populations below their
potential. Recovery of tigers in these
Tiger Reserves are possible only
when the habitat connectivity with
major source populations in the
landscape such as Tadoba and

	1	
		 Nagzira are maintained. Kanhargaon WLS, Junonah RF and Chichpalli Range of Chandrapur Forest Division are important stepping stone habitat connectivity in between Kawal and Tadoba which got further strengthened by declaration of Kanhargaon as a Protected Area. Permeability of these corridors are currently already under fragmentation threats from urban sprawls and many linear infrastructures such as railway tracks, highways and mining. Impact of any further developmental project in this landscape will be cumulative and detrimental for the persistence of corridor functionality. EAC observed that about 11.12 ha of ML area is under seasonal nalla/pond. The area is drained by few first/second order seasonal nallas. Some originates within the lease area. All drains into DabhaNalla which further merges into Wardha River. Abstraction of water for mining should be subject to thorough understanding on its impact on minimum ecological flow for these nallahs and Wardha river. EAC may like to take cognizance of these ecological concerns before granting any statutory clearance to the proposed limestone mining project.
2	Comments from State authority for wildlife corridor.	The Project Proponent submitted the letter from the Office of the Additional Principal
		Chief Conservator of Forests (Wildlife) East,
		Nagpur vide No: Desk-1(B)/Survey/2022-
		23/1340 Dated: 24.03.2023 stating that the
		office of the Principal Chief Conservator of Forests (Wildlife), M.S. Nagpur has attested
		the maps. The distance of the Wildlife
		Sanctuary, Tiger Corridor and Reserve
		Forest from the mine lease area as per
		theauthenticated location map are given

below in table:			
S.	Particulars	Distance &	
No		Direction	
		from mining lease	
1	Kanhargaon WLS	0.45km, W	
2	Tiger Corridor (WII)	7.4 km, W	
3	Dongargaon RF	0.6 km, NE	
4	Watrana RF	0.04 km, NE	
5	Dabha RF	1.6 km, W	
6	Khararpet RF	2.4 km, NE	
7	Karinji RF	0.05 km, NW	
8	Panchgaon RF	2.5 km, NW	
9	Ghanpur RF	8.9 km, NW	
10	Muthampet RF	9 km, SE	
11	Kadamba RF	9.5 km, SW	
12	Dongargaon PF	1.1 km, NE	
13	Palsori PF	8 km, NW	
14	Wamapalli RF	5.79 km, W	

2. Observation and Recommendation of the EAC: -

The Project Proponent briefed the EAC about the distance of the Wildlife Sanctuary, Tiger Corridor and Reserve Forest from the mine lease area within 10 km radius of the study area. The EAC also noted the comments given by the National Tiger Conservation Authority (NTCA) on 21.09.2023. The Project Proponent also informed the EAC that mining plan was approved by Indian Bureau of Mines(IBM), Nagpur vide letter dated 19.03.2021, prior to declaration of Kanhargaon Wildlife Sanctuary. About 54.5 ha of LoI area falling within the 1 km buffer from the Kanhargaon Wildlife Sanctuary, has been demarcated as Non-Mining Zone as per Hon'ble Supreme Court Judgement dated 03/06/2022. Life of the mine will be reduced to 33 years from 37 years due to blocking of 3.61 Million Tonnes of Reserves. Accordingly, Modified Mining Plan is under preparation and approved Modified Mining Plan will be submitted during EC. Further, the Project Proponent informed the EAC that application for Wild Life Clearance has been re-submitted vide Proposal No.WL/MH/MIN/QRY/448509/2023 dated 19/10/2023 on PARIVESH 2.0. The EAC also noted the comments of NTCA which are as follows: -

- i. The ML area is part of tiger corridors delineated for Eastern Vidharbha Landscape (EVL) by Wildlife Institute of India and is adjacent to the tiger corridor delineated by Maharashtra Forest Department in the Tiger Conservation Plan for TadobaAndhari Tiger Reserve.
- ii. The ML area has presence of tigers in its vicinity as per all India tiger estimations carried out in 2022 and 2018.

- iii. As per 2022 cycle of all India tiger estimation, the ML area had presence of large mammals and major tiger prey species such as leopard, sloth bear, dhole, gaur, chital and sambar in its vicinity. Many of these species are endangered and under Schedule I of the Wildlife (Protection) Act, 1972.
- iv. Currently, both Kawal and Indravati Tiger Reserves support low density tiger populations below their potential. Recovery of tigers in these Tiger Reserves are possible only when the habitat connectivity with major source populations in the landscape such as Tadoba and Nagzira are maintained. Kanhargaon WLS, Junonah RF and Chichpalli Range of Chandrapur Forest Division are important stepping stone habitat connectivity in between Kawal and Tadoba which got further strengthened by declaration of Kanhargaon as a Protected Area. Permeability of these corridors are currently already under fragmentation threats from urban sprawls and many linear infrastructures such as railway tracks, highways and mining. Impact of any further developmental project in this landscape will be cumulative and detrimental for the persistence of corridor functionality.

After detailed deliberations made by the Project Proponent and the Consultant, the EAC opined that the Project Proponent needs to submit the proposal for obtaining approval of the National Board for Wildlife for Tiger reserves under Section 38 (O) (1) (g) of the Wildlife (Protection) Act, 1972. The EAC also opined that the Ministry may seek comments from the Wildlife Institute of India (WII) since the mine lease area is part of tiger corridors delineated for Eastern Vidharbha Landscape (EVL) by Wildlife Institute of India (WII). The EAC also asked the Project Proponent to refer the report prepared by Wildlife Institute of India/Maharashtra Forest Department/All India tiger estimationswith respect to Tiger distribution and also to submit the point wise reply to the comments of NTCA. Owing to the environmental sensitivity of the mine lease area, the EAC **deferred** the proposal for want of following additional information: -

- i. The Ministry may seek comments from the Wildlife Institute of India (WII) since the mine lease area is part of tiger corridors delineated for Eastern Vidharbha Landscape (EVL) by Wildlife Institute of India (WII).
- ii. The Project Proponent needs to submit the copy of proposal for obtaining approval of the National Board for Wildlife for Tiger reserves under Section 38 (O) (1) (g) of the Wildlife (Protection) Act, 1972.
- iii. The Project Proponent needs to refer the report prepared by Wildlife Institute of India/Maharashtra Forest Department/All India tiger estimationswith respect to Tiger distribution and also to submit the point wise reply to the comments of NTCA.

iv. The Project Proponent needs to submit the approved Modified Mining Plan.

3.4 Mining of Bajri (Minor Mineral) with proposed production capacity 5.60 MTPA (ROM) in the mine lease area of 3843.098 Ha (19011.89 Bigha), located at Villages Annapurna, Arjiyana, Indrana, Kundal, etc. of Tehsil Siwana, District Barmer, Rajasthan by M/s Ridhi Siddhi Associates [File No. J-11015/427/2013-IA.II(M); Proposal No. IA/RJ/MIN/20595/2013] – Reconsideration of Environmental clearance

The instant proposal is for mining of Bajri (Minor Mineral) with proposed production capacity 5.60 MTPA (ROM) in the mine lease area of 3843.098 Ha (19011.89 Bigha)., located at Villages Annapurna, Arjiyana, Indrana, Kundal, etc. of Tehsil Siwana, District Barmer, Rajasthan by M/s Ridhi Siddhi Associates.

2. Observation and Recommendation of the EAC: -

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

Additional Agenda: -

3.5 Amendment in existing Environmental Clearance dated 2ndNovember.2007 w.r.t Amalgamation of Korumanipalli&Thollamadugu Limestone Mine(ML Area 205.212 ha) and Korumanipalli Limestone Mine (49.64 ha) of M/s.Penna Cement Industries Ltd with combined production capacity of 2.30 MTPAover an amalgamated mine lease area of 254.856 ha,located at villagesKorumanipalli&Thollamadugu, Mandal-Kolimigundla, District-Kurnool, Andhra Pradesh [F.No:J-11015/654/2007-IA.II(M), IA/AP/MIN/276997/2022] - Amendment in EC

The instant proposal for amendment in EC was earlier considered in the 5thEAC (Non-Coal Mining) meeting held during 18-20, October, 2022 wherein the EAC noted that the instant proposal for amendment in EC dated 02.11.2007 is w.r.t amalgamation of Korumanipalli&Thollamadugu Limestone Mine (ML Area 205.212 ha) and Korumanipalli Limestone Mine (49.64 ha) of M/s. Penna Cement Industries Ltd with combined production capacity of 2.30 MTPA over an amalgamated mine lease area of 254.856 ha. The EAC also noted that the Project Proponent having two separate valid EC's dated 02.11.2007 (ML Area 205.212 ha) and 07.01.2020 (49.64 ha) for the above said mine leases. Further, the EAC noted that the Project Proponent amalgamated the mine lease on 16.03.2021 over an area of 254.856 ha and continued to operate the mines after 16.03.2021 without obtaining amendment in EC.

2. The EAC observed that as per Ministry's SOP dated 07.07.2021, "Violation" means cases where projects have either started the construction work or installation or excavation, whichever is earlier, on site or have expanded the production capacity and /or project area beyond the limit specified in the Environmental Clearance (PriorEC) without obtaining Prior-EC or change of scope without prior approval from the Ministry. The EAC also observed that in the instant case, the Project Proponent has increased the mine lease area from 205.212 ha to 254.856 ha beyond the limit specified in the Environmental Clearance (Prior-EC) dated 02.11.2007 and continued to operate the mines after 16.03.2021 without obtaining amendment in EC.The EAC was of the view that the instant case attracts the violation of the EIA Notification, 2006.

3. During the EAC meeting, the Project Proponent informed the EAC that there was no excess of production has been done and the production capacity is well within the limits of the EC capacity dated 02.11.2007 (ML Area 205.212 ha) and 07.01.2020 (49.64 ha) and there is no violation. PP also informed the EAC that the certificate from the Department of Mines & Geology has been obtained vide letter dated 22.08.2022 stating that the "No Mining has been done in ML-2 after Amalgamation of Mine lease". The EAC asked the Project Proponent that why the PP has approached the Ministry for amendment in EC after one year of amalgamation of mining lease. The Project Proponent/consultant accepted that it was the fault of the Project Proponent and apologized for not applying for amendment in EC well in time after the amalgamation of mining lease on 16.03.2021. Thus, the EAC opined that the instant case attracts the violation of the EIA Notification, 2006 and the EAC advised the Project Proponent to apply for fresh Terms of Reference (ToR) under Ministry's SOP dated 07.07.2021. The EAC also asked the Ministry to take action against the Project Proponent under section 19 of the Environment (Protection) Act, 1986. In view of the above, the EAC returned the proposal in the present form.

4. As per the recommendation of EAC, the Ministry vide letter dated 19.12.2022 requested the Secretary, Environment, Forests, Science & Technology Department, Govt. of Andhra Pradesh to initiate action under the provisions of section 19 of the Environment (Protection) Act, 1986 against the Project Proponent and also to intimate the details of the action taken against the Project Proponentto the Ministry for further necessary action.

5. Then, the Project Proponent vide letter dated 01.12.2023 and 22.02.2023 urged the Ministry that the violation should not be considered in light of the following facts:

- i. No construction work or installation or excavation was done in both the mine without getting EC.
- ii. The Company has not expanded the production capacity mentioned in both the ECs separately (2.1 + 0.2 = 2.30 million TPA). Certificate from DMG has been

taken on 22.08.2022 stating that "No Mining has been done in ML-2 after Amalgamation of Mine lease"

- iii. Company has not expanded the ML area from 205.212 ha to 254.856 ha beyond the limit specified in the EC dated 02.11.2007. Both the leases (49.64 ha and 205.012 ha) are contiguous and share common boundary and EC for both the mine has been obtained separately from MoEFCC on 02.11.2007 (205.212 ha) and 07.01.2020 (49.64).
- iv. Also, Company didn't change their scope of work w.r.t technology and others.

6. The Project Proponent also submitted that same matter was heard in the court and the Hon'ble High Court of Andhra Pradesh vide order dated 02.11.2023 in Writ Petition No 22715 of 2023 has directed that "According to the learned counsel, the said representation has not been disposed of so far. Taking into consideration the nature of controversy and keeping in view the pendency of the representation dated 22.02.2023, said to have been submitted by the petitioner, this court deems It appropriate to dispose of the writ petition, without expressing any opinion on the merits of the matter, with a direction to Respondent No 5 to verify the representation dated 22.02.2023, said to have been submitted by the petitioner, this court deems it appropriate to dispose of the writ petition, without expressing any opinion on the merits of the matter, with a direction to Respondent No 5 to verify the representation dated 22.02.2023 said to have been submitted by the Writ petitioner and take appropriate action/pass appropriate orders, as expeditiously as possible, after affording opportunity of hearing to the writ petitioner, preferably within a period of four (04) weeks from the date of receipt of a copy of this order".

7. In view of the above order of Hon'ble High Court of Andhra Pradesh vide order dated 02.11.2023, an opportunity for hearing has been given to the Project Proponent to discuss the matter before the EAC (Non-Coal Mining) in its meeting scheduled to be held on 28.12.2023. The Ministry also issued meeting notice to the Project Proponent vide letter dated 20.12.2023.

8. Observation and Recommendation of the EAC: -

The Project Proponent briefed about their representation letter dated 22.02.2023. The Project Proponent informed the EAC that no construction work or installation or excavation was done in both the mine without getting EC.The production capacity in both the ECs (2.1 + 0.2 = 2.30 million TPA) was not increased and Certificate from Dept. of Mining and Geology was obtained on 22.08.2022 stating that *"No Mining has been done in ML-2 after Amalgamation of Mine lease"*.The Project Proponent also informed the EAC that the mine lease area from 205.212 ha to 254.856 ha was not increased beyond the limit specified in the EC dated 02.11.2007. Both the leases (49.64 ha and 205.012 ha) are contiguous and share common boundary and Environment

Clearance's for both the mine was obtained separately from MoEF&CC on 02.11.2007 (205.212 ha) and 07.01.2020 (49.64). There is no change in the scope of work w.r.t technology and others. Further, the Project Proponent requested the EAC to allow the amendment in EC w.r.t amalgamation in existing EC for Korumanipalli & Thollamadugu Limestone mine over an area of 254.856 Ha without considering violation.

The Project Proponent also informed the EAC that the same matter was heard in the Hon'ble High Court of Andhra Pradesh and the Hon'ble High Court vide order dated 02.11.0223 in Writ Petition No 22715 of 2023 directed that "According to the learned counsel, the said representation has not been disposed of so far. Taking into consideration the nature of controversy and keeping in view the pendency of the representation dated 22.02.2023, said to have been submitted by the petitioner, this court deems It appropriate to dispose of the writ petition, without expressing any opinion on the merits of the matter, with a direction to Respondent No 5 to verify the representation dated 22.02.2023, said to have been submitted by the petitioner, this court deems it appropriate to dispose of the writ petition, without expressing any opinion on the merits of the matter, with a direction to Respondent No 5 to verify the representation dated 22.02.2023 said to have been submitted by the Writ petitioner and take appropriate action/pass appropriate orders, as expeditiously as possible, after affording opportunity of hearing to the writ petitioner, preferably within a period of four (04) weeks from the date of receipt of a copy of this order". The EAC noted that in view of the above order of Hon'ble High Court of Andhra Pradesh order dated 02.11.2023, an opportunity for hearing has been given to the Project Proponent by the Ministry letter dated 20.12.2023 to discuss the matter before the EAC (Non-Coal Mining).

The EAC reiterated the earlier minutes of 5thEAC (Non-Coal Mining) meeting held during 18-20, October, 2022. The relevant extract of the minutes are as follows "The EAC noted that the instant proposal is for amendment in EC dated 02.11.2007 w.r.t Amalgamation of Korumanipalli&Thollamadugu Limestone Mine (ML Area 205.212 ha) and Korumanipalli Limestone Mine (49.64 ha) of M/s. Penna Cement Industries Ltd with combined production capacity of 2.30 MTPA over an amalgamated mine lease area of 254.856 ha. The EAC also noted that the Project Proponent having two separate valid EC's dated 02.11.2007 (ML Area 205.212 ha) and 07.01.2020 (49.64 ha) for the above said mine leases. Further, the EAC noted that the Project Proponent amalgamated the mine lease on 16.03.2021 over an area of 254.856 ha and continued to operate the mines after 16.03.2021 without obtaining amendment in EC".PP also informed the EAC that the certificate from the Department of Mines & Geology has been obtained vide letter dated 22.08.2022 stating that the "No Mining has been done in ML-2 after Amalgamation of Mine lease". The EAC observed that as per Ministry's SOP dated 07.07.2021, "Violation" means cases where projects have either started the construction work or installation or excavation, whichever is earlier, on site or have expanded the

production capacity and /or project area beyond the limit specified in the Environmental Clearance (PriorEC) without obtaining Prior-EC or change of scope without prior approval from the Ministry. The EAC also observed that in the instant case, the Project Proponent has increased the mine lease area from 205.212 ha to 254.856 ha beyond the limitspecified in the Environmental Clearance (Prior-EC) dated 02.11.2007 and continued to operate the mines after 16.03.2021 without obtaining amendment in EC. The EAC was of the view that the instant case attracts the violation of the EIA Notification, 2006. The Project Proponent informed the EAC that there is no any excess of production has been done and the production capacity is well within the limits of the EC capacity dated 02.11.2007 (ML Area 205.212 ha) and 07.01.2020 (49.64 ha) and there is no any violation. The EAC asked the Project Proponent that why the PP has approached the Ministry for amendment in EC after one year of amalgamation of mining lease. The Project Proponent/consultant accepted that it was the fault of the Project Proponent and apologized for not applying for amendment in EC well in time after the amalgamation of mining lease on 16.03.2021. Thus, the EAC opined that the instant case attracts the violation of the EIA Notification, 2006 and the EAC advised the Project Proponent to apply for fresh Terms of Reference (ToR) under Ministry's SOP dated 07.07.2021. The EAC also asked the Ministry to take action against the Project Proponent under section 19 of the Environment (Protection) Act, 1986. In view of the above, the EAC returned the proposal in the present form".

After detailed deliberations made by the Project Proponent and the EIA Consultant, the EAC opined that the decision made in the earlier EAC (Non-Coal Mining) meeting held during 18-20, October, 2022 shall remain unchanged. Thus, the EAC propounded that the instant case attracts the violation of the EIA Notification, 2006 and advised the Project Proponent to apply for fresh Terms of Reference (ToR) under Ministry's SOP dated 07.07.2021.

S.No	Member Name	Member Address	Designation	26 th Dec., 2023	27 th Dec., 2023	28 th Dec., 2023
1		Plot No 65, Sector 8, Gandhinagar, Gujarat, 382 008	Chairman	Yes	Yes	Yes
2	, , , , , , , , , , , , , , , , , , ,	816, Shanti Nagar, Opposite Durgapur Railway Station, Jaipur-	Member	Yes	Yes	Yes

List of members of Expert Appraisal Committee participated through VC

		Rajasthan, 302018				
3	Dr. Asha Rajvanshi Scientist 'G' (Retd.) WII	B/104/106 Rock Valley	Member	Yes	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	Yes
5	Shri. BandiRamchandra Reddy (Former CMD-South Eastern Coalfields Limited)-(Retd.)		Member	Yes	Yes	Yes
6		Shri Aurobindo College, University of Delhi 1372, B- 1, Vasant Kunj, New Delhi- 110070	Member	No	No	No
7		Department of Environmental Studies, NEHU,Shillong- 793022 Meghalaya	Member	Yes	No	No
8	Dr. Suresh Tiwari Scientist-F	Indian Institute of Tropical Meteorology, Pune, New Delhi Branch, Prof. Ram NathVij Marg Rajinder Nagar, New Delhi – 110060	Member	Yes	Yes	Yes
9	Professor, University	,10/B, "SPARSHA", 2nd Main, 2 nd Cross,BhogadilInd Stage, Mysore-570026, Karnataka	Member	Yes	Yes	Yes
10	Prof. Dev Dutt	Sardar Patel University, Mandi H.P. 175001	Member	No	No	No
11	Shri V. K. Soni, Representative of India Meteorological Department	Government of India, Ministry of Earth Sciences, India Meteorological Department, MausamBhawan, Lodi Road, New Delhi – 110003	Member	No	No	No
12	•	Controller of Mines, IBM Block D, Second Floor, Indira Bhavan, Civil Lines, Nagpur - 440001	Member	No	Yes	Yes

13	Representative of	Directorate General of Min	nes Member	Yes	Yes	Yes
	Directorate General of	Safety				
	Mines Safety					
14	Shri Rakesh Kumar	Wildlife Division, MoEF&C	C, Special	-	-	Yes
	Jagenia, DIG, MoEF &	Jorbagh, New De	lhi- Invitee			
	CC, New Delhi	110003.				
15	Shri Hemant Singh,	CGO Complex, New Del	lhi- Special	-	-	Yes
	AIG (NTCA), MoEF &	110003.	Invitee			
	CC, New Delhi					
16	Shri Pankaj Verma	3 rd Floor, Vayu Block, Ind	lira Member	Yes	Yes	Yes
	_	ParyawaranBhawan,	Secretary			
		MoEF&CC, Jorbagh, N	ew			
		Delhi- 110003.				
