



Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

To,

The Director

UDAIPUR CEMENT WORKS LIMITED

Shripatinagar, POCFA, Village - Dabok, Tehsil - Mavli, District - Udaipur,
Rajasthan,,Udaipur,Rajasthan-313022

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number IA/RJ/MIN/260182/2021 dated 09 Mar 2022. The particulars of the environmental clearance granted to the project are as below.

- | | |
|---|--|
| 1. EC Identification No. | EC22A001RJ160489 |
| 2. File No. | J-11015/33/2021-IA-II(M) |
| 3. Project Type | Expansion |
| 4. Category | A |
| 5. Project/Activity including Schedule No. | 1(a) Mining of minerals |
| 6. Name of Project | Daroli1 Limestone Mining Project for expansion in production capacity from 1.64 Million TPA to 4.53 MTPA (Total Excavation) (Limestone- 4.10MTPA, Over burden - 0.43 MTPA,) and Expansion of crusher cap |
| 7. Name of Company/Organization | UDAIPUR CEMENT WORKS LIMITED |
| 8. Location of Project | Rajasthan |
| 9. TOR Date | 20 Oct 2021 |

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 05/07/2022

(e-signed)
Pankaj Verma
Scientist E
IA - (Non-Coal Mining sector)

Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.

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J-11015/33/2021- IA.II (M)
Government of India
Ministry of Environment, Forest and Climate Change
Impact Assessment Division

2nd Floor, Prithvi Block
Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj
New Delhi-110 003
Date: 04th July, 2022

To,

M/s Udaipur Cement Works Limited
Shripati Nagar, P.O.CFA Village - Dabok,
Tehsil - Mavli, District – Udaipur,
Rajasthan - 313022

Sub: Expansion in Environmental Clearance of Daroli Limestone Mine-1 of M/s Udaipur Cement Works Limited in the Mine Lease Area of 703.3051 ha for increase in production capacity of Limestone from 1.64 MTPA to 4.10 MTPA(Total Excavation: 4.53 MTPA i.e. Limestone- 4.10MTPA + Over burden - 0.43 MTPA)and expansion in crusher capacity from 700 TPH to 2770 TPH by installing additional crusher (2070 TPH) & expansion in Overland Belt Conveyor (OLBC) Capacity from 1100 TPH to 2770 TPH located near Villages Daroli, Manderia, Bichhiwara, Mandesar & Mandesar Ka Guda, Tehsil Vallabh Nagar, District Udaipur, Rajasthan --

Sir,

This has reference to the proposal no. IA/RJ/MIN/260182/2021 for grant of Expansion in Environmental Clearance of Daroli-1 Limestone Mine in the mine lease area of 703.3051 Ha of M/s Udaipur Cement Works Limited. There is an increase in production capacity of Limestone from 1.64 Million TPA to 4.53 Million TPA of Total Excavation (Limestone - 4.10Million TPA, Over burden - 0.43 Million TPA) and increase in Crusher capacity from 700 TPH to 2770 TPH by installing Additional Crusher (2070 TPH) & Expansion in Overland Belt Conveyor (OLBC) Capacity from 1100 TPH to 2770 TPH and increase in OLBC length from existing crusher location to proposed crusher location from 6.5 km to 11.5 km (Existing OLBC Length is 6.5 km which exists from Existing Crusher to Cement Plant and only 5.0 km additional length will increase from Existing to Proposed Crusher within lease area). The mine lease area is located near Villages Daroli, Manderia, Bichhiwara, Mandesar & Mandesar Ka Guda, Tehsil Vallabh Nagar, District Udaipur, Rajasthan.


EC - M/s Udaipur Cement Works Limited, Rajasthan

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1. Project details:

Location	Latitudes	24°34'22.38"to 24°37'25.73"N
	Longitudes	73°55'08.50"to 73°56'32.05"E.
	SoI Topo sheet No.	45 H/14
Accredited Consultant and certificate no.	Enkay Enviro Services Pvt. Ltd., Jaipur. NABET/EIA/2023/RA 0183 valid till 21.12.2023	
KML file	Submitted	
Seismic zone	II	

2. Category details:

Category of the project	Category "A", Project or Activity 1(a) – 3 for Mining of Mineral
Provisions	As per EIA Notification S.O. 1533 (E), dated 14th September 2006 and subsequent amendments
Mining lease Area	703.3051 ha (Private land - 267.4470 ha, Govt. Waste Land -253.4637 ha & Grazing Land - 182.3944 ha)

3. Terms of Reference and Previous Environmental Clearance Details:

ToR Proposal No.	IA/RJ/MIN/204654/2021
Online application date for Form-I	19.03.2021
ToR Letter No.	IA-5-11015/33/2021-IA-II(M)
ToR Letter Date	20.10.2021
Production capacity	4.10 Million TPA
Top Soil	Nil
Waste (OB)	0.43 Million TPA
Total Excavation	4.53 Million TPA
Crusher	Expansion of crusher capacity from 700 TPH to 2770 TPH, by installing additional crusher (2070 TPH) & expansion in Overland Belt Conveyor (OLBC) Capacity from 1100 TPH to 2770 TPH and increase in OLBC length from 6.5 km to 11.5 km (Existing OLBC length is 6.5 km which exists from Existing Crusher to Cement Plant and only 5.0 km additional length will increase from existing crusher to proposed crusher within lease area (From 6.5 km to 11.5 km).
Previous EC	<ul style="list-style-type: none"> Previous Environment Clearance was obtained from MoEF&CC, New Delhi vide letter no. J-11015/460/2006-IA. II (M) dated 02.01.2009 for Production Capacity for 1.64 Million TPA of Limestone in an area of 704.944 Ha. Amended EC dated 06.09.2018 for reduction in mine lease area from 704.944 ha to 703.3051 ha.

Previous EAC Meetings for appraisal of the EC application	The proposal was earlier considered in the 48 th EAC (Non-Coal Mining) Meeting held during 28 th to 30 th March, 2022 wherein the Committee deferred the proposal.
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4. ADS details:

ADS details.		ADS Reply by project proponent dated 07.04.2022																		
S.N o	ADS dated 06.04.2022																			
1	The project proponent submitted the certified compliance report dated 24.06.2021 along with the EIA/EMP report. PP needs to submit the latest compliance report certified by the integrated Regional Office, MOEF&CC.	The project proponent submitted the latest certified compliance report dated 10.05.2022 duly certified by IRO, Jaipur.																		
2	The project proponent needs to revise the project cost and submit. The project cost is 271.585 Crores. An EMP budget of about 3 crores with capital expenditure within 3 years in the areas of water body rejuvenatio	<div>The revised project cost along with revised EMP budget of about 7368.357 Lacs in areas of water body rejuvenation, water supply, heath facilities, sport facilities, monitoring equipment's, infrastructure creations including road, communication, WiFi and schools. This is also with reference to the project proponent's letter dated 12.05.2022.</div> <div>PROJECT COST INCLUDING OLBC AND MACHINERY</div> <table><tr><th colspan="4">Proposed Project Cost (Including Plant Machinery, Infrastructure, Statutory Fees for Govt. Approvals, EMP, CER, Greenbelt Development)</th></tr><tr><th colspan="2">Break-up of Project Cost</th><th>Capital (Rs. in Lakhs)</th><th>Recurring (Rs. In Lakhs)</th></tr><tr><td>1</td><td>Plant Machinery (Crusher, Bag Filters and Atomized jet water sprinkler etc.) , Infrastructure & Fees for Govt. Approvals</td><td>10,353.643</td><td>808.0</td></tr><tr><td>2.</td><td>EMP Cost (including CER budget & Greenbelt Development, Air & Water</td><td>7368.357</td><td>70.25</td></tr></table>			Proposed Project Cost (Including Plant Machinery, Infrastructure, Statutory Fees for Govt. Approvals, EMP, CER, Greenbelt Development)				Break-up of Project Cost		Capital (Rs. in Lakhs)	Recurring (Rs. In Lakhs)	1	Plant Machinery (Crusher, Bag Filters and Atomized jet water sprinkler etc.) , Infrastructure & Fees for Govt. Approvals	10,353.643	808.0	2.	EMP Cost (including CER budget & Greenbelt Development, Air & Water	7368.357	70.25
Proposed Project Cost (Including Plant Machinery, Infrastructure, Statutory Fees for Govt. Approvals, EMP, CER, Greenbelt Development)																				
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2.	EMP Cost (including CER budget & Greenbelt Development, Air & Water	7368.357	70.25																	

	Construction of Rain water Harvesting Structure within consultation with relevant Department	10.0	1.0		
V.	Social Aspects				
	Environmental Awareness Program (Vocational Training, SHG's etc.)	4.5	0.5		
VI.	Public Hearing Action Plan (Community Development Activities)				
	Public Hearing Action Plan (CER Activities)	239.5	25.25		
	Total	7368.357	70.25		
REVISED BUDGET FOR PH ACTION PLAN**					
Budget for PH Issues Old (in Lakh.)		Revised Budget for PH Issues ** (in Lakh.)			
81.0		239.5			
S.N o.	Activity Head	CSR Project or activities	Time bound Action Plan with Budgetary allocation	Amount Rs. In Lakhs 2022-23 to 2024-2025	Recurring Rs. In Lakhs (Every Year From 2022 to 2030)
1	Community Infrastructure Development	Beautification of edge of the Daroli pond (Talab ki Paal) in village Daroli.	Beautification of pond will be undertaken by creating a promenade of 300m length and 3.0 m width on SW side of the Daroli pond. There will be circular walkway with 1.0m width. This will be	63.0	6.3

					completed in 2022-2023 with a budget of Rs. 21 Lakhs		
				Maintenance & Repair of Road from Mandesar Village to Mine.	Mandesar is about 800m from the Western periphery of the mine. The village road towards western periphery will be repaired by filling up potholes with gravel gitti. Total budget of Rs. 1.0 is laid down for repair of the potholes of this road of 800 m length. The repair budget for 3 years will be 3.0 lacs. The activity will be undertaken from 2022-23 onwards.	9.0	3.0
				Provision of Barbed Wire Fencing around cemetery at Village Daroli	Total budget of Rs. 16.0 Lacs is laid down for Barbed wire	26.0	1.0

				in consultation with local administration.	fencing (50x50 m) around cemetery at Village Daroli to be completed by year 2023-24.		
				Development of Playground (Area cleaning and leveling). Plantation will be done nearby School.	Total budget of Rs. 5.0 Lakh is laid down for development of Playground and Plantation to be completed in the year 2023-24.	20.0	1.5
				Facility will be provided in Bhamrasiyab avaji temple i.e. Drinking water facility Provision of 2 nos. Toilet for Male & Female. Provision of Rest Shelter Plantation nearby temple.	An RO system with fitted water wank along with 2 numbers of toilet for male and female each along will be done. Rest shelter of 50 x50 sq.ft will be done with green belt development around the temple. Total budget of Rs. 20 lacs have been taken up and it will	60.0	6.5

					be done by year 2023-24.		
		2	Drinking Water	<p>We are providing drinking water through PHED to Daroli, Mandesar, Ghanoli & Maharaj ki Khedi Villages with regular water testing under by PHED. Apart from this, RO system will be provided at requisite locations in consultation with local administration.</p>	<p>We are proposing to install RO system in School at village Mandesar ka Ghuda and Bus Stand at village Daroli in this FY 2024-25 with a capital budget of Rs. 1.0 lacs. In the precedent year 2024-2025, we are proposing installation of RO plant in villages Majawada, Gupri and Daroli with a capital budget of Rs. 3.5 lacs.</p>	15.5	3.5
		3	Education	<p>02 nos. Computer with table and chair, 01 no. Printer will be provided. Company will take initiative for computer coaching</p>	<p>Provision of Rs. 2.0 lac has been taken for computer, computer table and printer. It will be done by year 2023-24.</p>	6.0	

				classes, environmental conservation and management and road safety awareness sessions for students in consultation with School Principal of Govt. Middle School, Mandesar Ka Guda, with WiFifacilites			1.0
		4	Health	Bed, Stretcher, Wheelchair and Bench in waiting hall will be provided in health center of Mandesar Village in consultation with local Administration.	Total budget of Rs. 3.5 Lakh is laid down for providing bed, stretcher, bench and wheelchair for hospital. It will be done by year 2024-25	20.0	1.25
		5	Environment	To improve the soil quality camp for guidance from experts of Krishi Vighyan Kendra (KVK), Udaipur is already initiated and will continue to do so.	The budget for Rs. 1.0 Lakh is laid out for these camps by year 2022-23.	5.00	0.45



		6	Other	Company will facilitate in consultation with local administrator for fodder in the lean season for livestock.	Provision of Rs. 5.0 Lakhs per year has been taken by the year 2023-24.	15.00	0.75
		Total				239.5	25.25
3	The project proponent needs to submit the EMP cost including the cost of OLBC, noise and vibration and monitoring at the edge of the villages for measuring impacts due to mine	Reply is submitted in ADS Reply Point No.2					

5. Lease Details:

Granted Prospecting Licence	Area	703.3051 ha
	Execution date	16.04.1969
	PL No.	ML No. 186/08
Prospecting operation, Commence date	16.04.1969	
Application for the Mining lease area and Date	30.01.1968	
Validity of mine lease	31.03.2030	
Grant of ML & Area	Letter No.	P-24 (58) Khan/68,
	Date	30.01.1968

6. Mining plan details:

Mining Plan(approved by Indian Bureau of Mines/DMG)	Letter No.	584(4)(3)(1834)/2020 RCOM-AJM
	Date	23/10/2020

	Validity	2020-21 to 2023-2024
Mining Parameters	Quantitative Description	
Bench Height	8.0 m	
Bench Width	20-30 m	
Method of Mining	Fully-Mechanized Opencast Mining	
Individual bench slope	80° from vertical	
Overall pit slope	52°	
Drilling/Blasting	Drilling- 2 No. (1+ 1 STANDBY) of drills to be provided @ drilling rate 8m/ hour <u>Blasting Factors:</u> Burden (m)-3.0, Spacing (m)-4.5 Volume (cu.m.)- $3 \times 4.5 \times 8.0 = 108 \text{ cu.m}$ Tonnage Yield (t)- $108 \times 2.73 = 294.84 \text{ Tons}$	
RoM output size	700 mm	
Life of mine	34Years	
Transportation details	By dumper, tipper/OLBC	
Dumper's capacity	25/35 Tonne	

7. Nearest village / town/ highway/railway station / water bodies:

Particular	Distance (Km)	Direction
	From Lease Boundary/Proposed Working Pit	
Village/Town		
MandesarKaGudha	0.30	S
Nearest Town- Dabok	5.19	W
Nearest City- Udaipur	16.65	W
Nearest District Headquater – Udaipur	22.60	W
Highway		
NH – 27	Lease area interception is 250 Mtrs diagonally	N
SH – 09	5.12	WNW
Railway Station		
Debari	11.40	W
Water Bodies		
Berach River	0.19	N
Vela Nala	1.08	NW
GadelaNadi	2.48	NE
KataraNadi	2.53	NE

Udaisagar	8.78	W
Khemli Talav	8.92	NW
Sukli Nadi	9.92	SSW

8. Water requirement:

Total water requirement	325 KLD	Fresh water	35 KLD (Ground Water)
		Treated water	290 KLD (Mine Pit Water)
Source	Ground Water & Mine Pit Water		
Permission	NOC for ground water withdrawal has been obtained from CGWA vide letter no. CGWA/NOC/IND/REN/2/2022/6673 dated 22/04/2021 valid till 21/04/2024		

9. Presence of Environmentally Sensitive areas in the study is:

Forest Land/Protected Area/Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter/Remarks
Forest Land	No	The same is authenticated from DCF, Udaipur, vide letter No. F Survey/DCF-North/2021-22/491, date- 28.01.2022.
National park	No	
Wildlife Sanctuary	No	

Schedule-1 species	Yes/No	Details of Certificate/letter/Remarks
Schedule-I species	No	It is authenticated from DCF, Udaipur, vide letter No. F () Survey/DCF-North/2021-22/491, date- 28.01.2022.

10. Status of CTE/CTO.

Consent to operate for mining of mineral was granted vide order no. 2019-20/Mines/9977, dated 22.07.2019 which is valid up to 30.04.2024.

Consent to operate for Limestone Crusher was granted vide order no. 2017-18/SCMG/4497, dated 23.03.2018 which is valid up to 31.01.2023.

11. Green belt/plantation details:

Proposed area for green belt/plantation	142.32 ha
Budget for green plant & plantation till the end of life of mine.	793.857 Lakhs

Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	Plantation has already been done in 4.20 ha area out of the total peripheral area of 12.489

	Ha and by Sept 30th 2021, PP shall cover additional 4.0 Ha area and balance will be completed by Dec 2022
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12. Baseline details:

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)	
Period of baseline data collection	March to May, 2019 and Additional Monitoring in October to December, 2021
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Summer Season and Post Monsoon Season

13. Public Hearing details:

Advertisement for PH with date	Indian Express & Dainik Bhaskar dated 30.12.2021
Date of PH	01.02.2022
Venue	Rajeev Gandhi Seva Kendra-Daroli, Tehsil-Vallabhnagar, District- Udaipur (Raj)
Chaired by	Mr. O.P Bunkar, Additional District Collector and Additional District Magistrate, Udaipur and under the auspices of Mr. Vinay Katta, Regional Officer, Rajasthan State Pollution Control Board, Udaipur
Main issues raised during PH	Employment, Infrastructure Development, Drinking Water Facility Education, Health, Environment and other local social needs.
Budget proposed for addressing issues raised during PH	239.5 Lacs

14. Court case details:

Court Case	A case against the unit at ACJM Court Mavli, District- Udaipur (Raj.) is pending under the provision of section 15 read with Section 19 of the Environment (Protection) Act, 1986. Case No. 107/2017.
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15. Affidavit/Undertaking details:

Affidavit	The project proponent submitted the Affidavit dated 19.03.2021 in accordance with 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 & Ores is submitted to MoEF&CC.
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EC - M/s Udaipur Cement Works Limited, Rajasthan

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Undertaking	<p>The project proponent has submitted an undertaking dated 12.05.2022 stating that:</p> <ol style="list-style-type: none"> 1. Out of the total Grazing land of 182.3944 ha, mining operations will be as per approved mining plan in only 60.0 ha of the grazing land after obtaining permission from competent authority for the first 10 years. Subsequently, if any additional requirement of the grazing land is required, requisite permission as per provision of the State Land and Revenue Department will be done progressively. 2. That the village roads passing through the lease area and connecting Pandu Mata temple situated in the Daroli 2 Mine Lease will be diverted and avenue plantation will be carried out. 3. That dedicated roads for the movement of mining equipment/machineries will be developed along the lease boundary to connect Daroli 2 Mine working pit/s to the proposed crusher in Daroli 1 Mine Lease area. Plantation on the either side of the dedicated road will be carried out. 4. That adequate safety measures such as traffic signal, speed breaker etc. will be provided at all existing village road intersections with the dedicated road within the Mine Lease area. 5. That no mining activity is proposed and will not be undertaken in future in undisturbed area within the Mine Lease area.
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16. Previous EC compliance and production details:

Particulars	Letter no. and date
Certified EC compliance report	The project proponent submitted the latest certified compliance report dated 10.05.2022 duly certified by IRO, Jaipur.
Certified past production	ME/UDI/ASN/M.L No.2/88/477 - dated 11.8.2016 (From 1976- 77-1998-99) ME/UDI/2018-19/196 - dated 11.02.2019. (From 1999-2000 to 2017-18) ME/UDAI/STATICAL/2020-21/73, date-31.03.2021. ME/UDAI/STATICAL/2021/24, date-18.08.2021.

17. Details of project cost and employment:

Particulars	Details
Budget for addressing the Public Hearing issues	239.5 Lakhs
Capital Cost for EMP	7368.357 Lakhs
Recurring Cost for EMP	70.25 Lakhs/annum

Project Cost	Existing Cost: 95.95 Crore. Proposed Cost: 177.22 Crores. Total Cost after Expansion: 273.17 Crores
Employment	169persons

18. The Ministry has examined the proposal in accordance with the Environmental Impact Assessment Notification, 2006 and further amendments thereto; and hereby accords the above mentioned Environmental Clearance after accepting the recommendation of 50th EAC meeting held during 12th to 13th May 2022 for expansion in Environmental Clearance of Daroli Limestone Mine-1 of Udaipur Cement Works Limited in the Mine Lease Area of 703.3051 ha for increase in production capacity of Limestone from 1.64 MTPA to 4.10 MTPA (Total Excavation: 4.53 MTPA i.e. Limestone - 4.10 MTPA + Over burden - 0.43 MTPA) and expansion in crusher capacity from 700 TPH to 2770 TPH by installing additional crusher (2070 TPH) & expansion in Overland Belt Conveyor (OLBC) Capacity from 1100 TPH to 2770 TPH located at Villages Daroli, Manderia, Bichhiwara, Mandesar & Mandesar Ka Guda, Tehsil Vallabhnagar, District Udaipur, Rajasthan subject to compliance of the following terms & conditions and the environmental safeguards mentioned below:

A. Specific conditions:

- i. The Project Proponent should install the continuous ambient air quality monitoring stations in such numbers as per the scientific study and in consultation with CPCB.
- ii. The project proponent shall monitor water quality with specific reference to Langelier Saturation Index to assess the impact of calcium carbonate on water quality.
- iii. The budget of Rs. 239.5 Lacs to address the concerns raised by the public including in the public hearing 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.
- iv. The project proponent to comply the outcome of the Court cases.
- v. The Project Proponent shall carry out the gap plantation with 10 ft tall seedlings within one year in such a way that the density of the plantation should be uniform and the survival rate should not be less than 95%. Local species should be planted after consultation with local forest officer and as per CPCB/SPCB guidelines. The Project Proponent shall implement the practice of drip irrigation for plantation.



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- vi. The Project Proponent shall strictly follow the mitigation measures provided in MoEF&CC Office Memorandum No. Z-11013/57/2014-IA.II(M), dated 29th October, 2014.
- vii. 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.
- viii. The Project Proponent should explore the possibility for shifting to clean energy using electric equipment for cleaner production options to reduce the emission generated from various machineries.
- ix. 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 Silicosis shall be carried through regular occupational health check-up every year for mine workers.
- x. The village roads are not permitted to be used for the purpose of transportation of the mineral.

B. Standard conditions for Mining of Mineral:

I. Statutory compliance

- 1) This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.
- 2) The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.
- 3) The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.

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- 4) This Environmental Clearance shall become operational only after receiving formal NBWL Clearance from MoEF&CC subsequent to the recommendations of the Standing Committee of National Board for Wildlife, if applicable to the Project.
- 5) This Environmental Clearance shall become operational only after receiving formal Forest Clearance (FC) under the provision of Forest Conservation Act, 1980, if applicable to the Project.
- 6) Project Proponent (PP) shall obtain Consent to Operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining Consent to Establish / Consent to Operate from the concerned State Pollution Control Board/Committee.
- 7) The PP shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.
- 8) The Project Proponent shall obtain consents from all the concerned land owners, before start of mining operations, as per the provisions of MMDR Act, 1957 and rules made there under in respect of lands which are not owned by it.
- 9) The Project Proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".
- 10) The Project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of ground water for the project.
- 11) A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.
- 12) State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.
- 13) The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change (www.parivesh.nic.in). A copy of the advertisement may be forwarded to the concerned MoEFCC Regional Office for compliance and record.
- 14) The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is

transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.

II. Air quality monitoring and preservation

- 15) The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatologically data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO₂, CO and SO₂ etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/I, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.
- 16) Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEFCC/ Central Pollution Control Board.

III. Water quality monitoring and preservation

- 17) In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEFCC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.
- 18) Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the

pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.

- 19) Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.
- 20) The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby/ adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout regular monitoring w.r.t. pH and included the same in monitoring plan. The parameters to be monitored shall include their water quality vis-à-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEFCC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.
- 21) Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J- 20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.

- 22) Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEFCC annually.
- 23) Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.
- 24) The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board/Committee.

IV. Noise and vibration monitoring and prevention

- 25) The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.
- 26) The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.
- 27) The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.

V. Mining plan

- 28) The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc.. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz.

method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form to Short Term Permit (STP), Query license or any other name.

- 29) The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology as required under the Provision of the MMDR Act, 1957 and Rules/ Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change for record and verification.
- 30) The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-à-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the MoEFCC and its concerned Regional Office.

VI. Land reclamation

- 31) The Overburden (O.B.) generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by D.G.M.S w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of top soil/OB dumps. The topsoil shall be used for land reclamation and plantation.
- 32) The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.
- 33) The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan.
- 34) The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be

adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.

- 35) The Project Proponent shall carry out slope stability study in case the dump height is more than 30 meters. The slope stability report shall be submitted to concerned regional office of MoEF&CC.
- 36) Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.
- 37) Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.
- 38) The top soil, if any, shall temporarily be stored at earmarked site(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like height, width and angle of slope shall be governed as per the approved Mining Plan and as per the guidelines framed by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of dumps. The topsoil shall be used for land reclamation and plantation purpose.

VII. Transportation

- 39) No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load

on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.

- 40) The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.

VIII. Green Belt

- 41) The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.
- 42) The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.
- 43) The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.
- 44) The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-I species during mining

operation. A Wildlife Conservation Plan shall be prepared for the same clearly delineating action to be taken for conservation of flora and fauna. The Plan shall be approved by Chief Wild Life Warden of the State Govt.

- 45) And implemented in consultation with the State Forest and Wildlife Department. A copy of Wildlife Conservation Plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry.

IX. Public hearing and human health issues

- 46) The Project Proponent shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be maintained properly. PP shall also carryout Occupational health check-ups in respect of workers which are having ailments like BP, diabetes, habitual smoking, etc. The check-ups shall be undertaken once in six months and necessary remedial/ preventive measures be taken. A status report on the same may be sent to MoEFCC Regional Office and DGMS on half-yearly basis.
- 47) The Project Proponent must demonstrate commitment to work towards 'Zero Harm' from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby community. The proponent shall maintain accurate and systematic records of the HRA. The HRA for neighborhood has to focus on Public Health Problems like Malaria, Tuberculosis, HIV, Anaemia, Diarrhoea in children under five, respiratory infections due to bio mass cooking. The proponent shall also create awareness and educate the nearby community and workers for Sanitation, Personal Hygiene, Hand washing, not to defecate in open, Women Health and Hygiene (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The Proponent shall carryout base line HRA for all the category of workers and thereafter every five years.
- 48) The Proponent shall carry out Occupational health surveillance which be a part of HRA and include Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust a X-Ray chest; For Noise Audiometric; for Lead Exposure Blood Lead, For Welders Full Ophthalmologic Assessment; for Manganese Miners a complete Neurological Assessment by a Certified Neurologist, and Manganese (Mn) Estimation in Blood; For Inorganic Chromium- Fortnightly skin inspection of hands and forearms by a responsible person. Except routine tests all tests would be carried out in a Lab accredited by NABH. Records of Health Surveillance must be kept for 30 years, including the results of and the records of Physical examination and tests. The record of exposure due to materials like Asbestos, Hard Rock Mining, Silica, Gold, Kaolin, Aluminium,

Iron, Manganese, Chromium, Lead, Uranium need to be handed over to the Mining Department of the State in case the life of the mine is less than 30 years. It would be obligatory for the State Mines Departments to make arrangements for the safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record purposes and not the digital one). X-Ray must meet ILO criteria (17 x14 inches and of good quality).

- 49) The Proponent shall maintained a record of performance indicators for workers which includes (a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5 -24.9, (b) the Final Chest X-Ray compared with the base line X-Ray should not show any capacities ,(c) At the end of their leaving job there should be no Diminution in their Lung Functions Forced Expiratory Volume in one second (FEV1), Forced Vital Capacity (FVC), and the ratio) unless they are smokers which has to be adjusted, and the effect of age, (d) their hearing should not be affected. As a proof an Audiogram (first and last need to be presented), (e) they should not have developed any Persistent Back Pain, Neck Pain, and the movement of their Hip, Knee and other joints should have normal range of movement, (f) they should not have suffered loss of any body part. The record of the same should be submitted to the Regional Office, MoEFCC annually along with details of the relief and compensation paid to workers having above indications.
- 50) The Project Proponent shall ensure that Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
- 51) Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.
- 52) The activities proposed in Action plan prepared for addressing the issues raised during the Public Hearing shall be completed as per the budgetary provisions mentioned in the Action Plan and within the stipulated time frame. The Status Report on implementation of Action Plan shall be submitted to the concerned Regional Office of the Ministry along with District Administration.

X. Corporate Environment Responsibility (CER)

- 53) The activities and budget earmarked for Corporate Environmental Responsibility (CER) as per Ministry's O.M No 22-65/2017-IA. II (M) dated 01.05.2018 or as proposed by EAC should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner and annual report

of implementation of the same along with documentary proof viz. photographs, purchase documents, latitude & longitude of infrastructure developed & road constructed needs to be submitted to Regional Office MoEF&CC annually along with audited statement.

- 54) Project Proponent shall keep the funds earmarked for environmental protection measures in a separate account and refrain from diverting the same for other purposes. The Year wise expenditure of such funds should be reported to the MoEFCC and its concerned Regional Office.

XI. Miscellaneous

- 55) The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC.
- 56) The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- 57) The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MoEFCC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.
- 58) A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEFCC.
- 59) The concerned Regional Office of the MoEFCC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEFCC officer(s) by furnishing the requisite data / information / monitoring reports.

19. The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

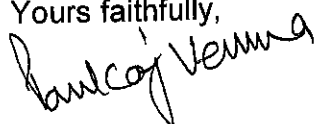
20. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attracts action under the provisions of Environment (Protection) Act, 1986.

21. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of

Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Rajasthan and any other Court of Law relating to the subject matter.


22. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

23. This issues with the approval of Competent Authority.

Yours faithfully,

(Pankaj Verma)
Scientist E

Copy to:

1. The Secretary, Ministry of Mines, Government of India, Shastri Bhawan, New Delhi-110 001.
2. The Secretary, Department of Mines & Geology, Government of Rajasthan, Secretariat, Jaipur.
3. The Secretary, Department of Environment, Government of Rajasthan, Secretariat, Jaipur.
4. The Secretary, Department of Forests, Government of Rajasthan, Secretariat, Jaipur.
5. The Chief Wildlife Warden, Government of Rajasthan, Jaipur.
6. The Deputy Director General of Forests (C), Ministry of Env., Forest and Climate Change, Integrated Regional Office, A-209&218, Aranya Bhawan, Mahatma Gandhi Road, Jhalana Institutional Area, Jaipur – 304 002, Rajasthan.
7. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110 032.
8. The Member Secretary, Central Ground Water Authority, 18/11, Jam Nagar House, Man Singh Road, New Delhi-110 011.
9. The Chairman, Rajasthan State Pollution Control Board, Jaipur, Rajasthan.
10. The Controller General, Indian Bureau of Mines, Indira Bhawan, Civil Lines, Nagpur-440 001.
11. The District Collector, Udaipur.
12. Guard File.
13. PARIVESH.


(Pankaj Verma)
Scientist E

