



सत्यमेव जयते

File No: EC/SEIAA/2024-25/3147/2024

Government of India

Ministry of Environment, Forest and Climate Change

(Issued by the State Environment Impact Assessment
Authority(SEIAA), JHARKHAND)



Date 29/10/2024



To,

Dr. K.V. Reddy
UltraTech Cement Limited
Ahura Centre, 1st Floor, 'A' Wing , Mahakali Caves Road, Andheri (E), Mumbai- 400 093 Ahura
Centre, 1st Floor, 'A' Wing , Mahakali Caves Road, Andheri (E), Mumbai- 400 093 , Mumbai,
MUMBAI, MAHARASHTRA, Ahura Centre, 1st Floor, 'A' Wing , Mahakali Cave, 400093
kvijender.reddy@adityabirla.com

Subject: Grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 -regarding.

Sir/Madam,

This is in reference to your application submitted to SEIAA vide proposal number SIA/JH/IND1/496283/2024 dated 23/09/2024 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24B1103JH5238488N
(ii) File No.	EC/SEIAA/2024-25/3147/2024
(iii) Clearance Type	Fresh EC
(iv) Category	B1
(v) Project/Activity Included Schedule No.	3(b) Cement plants Expansion in Cement Production Capacity from 0.528 Million TPA to 4.6 Million TPA (Expansion in existing Cement Mill from 0.528 to 0.60 Million TPA and additional Cement Mill of 4.0 Million TPA) at Patratu Industrial Area, Villages: Katia & Solia, Tehsil: Patratu, District: Ramgarh (Jharkhand) by M/s. UltraTech Cement Ltd. (Unit: Patratu Cement Works)
(vii) Name of Project	
(viii) Name of Company/Organization	UltraTech Cement Limited
(ix) Location of Project (District, State)	RAMGARH, JHARKHAND
(x) Issuing Authority	SEIAA
(xi) Applicability of General Conditions as per	No

EIA Notification, 2006

3. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A, B and C)/ EIA & EMP Reports were submitted to the SEIAA for an appraisal by the SEIAA under the provision of EIA notification 2006 and its subsequent amendments.
4. The above-mentioned proposal has been considered by SEIAA in the meeting held on 07/06/2024. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed from the PARIVESH portal by scanning the QR Code above or through the following web link [click here](#).
5. The brief about configuration of products and byproducts as submitted by the Project Proponent in Form-1 (Part A, B and C)/ EIA & EMP Reports / presented during SEIAA are annexed to this EC as Annexure (1).
6. The SEIAA, in its meeting held on , based on information submitted viz: Form 1 (Part A, B and C), EIA/EMP report etc & clarifications provided by the project proponent and after detailed deliberations on all technical aspects and public hearing issues and compliance thereto furnished by the Project Proponent, recommended the proposal for grant of Environment Clearance under the provision of EIA Notification, 2006 and as amended thereof subject to compliance of Specific and Standard EC conditions as given in this letter.
7. The SEIAA has examined the proposal in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the State Environment Impact Assessment Authority(SEIAA) Appraisal Committee hereby accords Environment Clearance to the instant proposal of M/s. Dr. K.V. Reddy under the provisions of EIA Notification, 2006 and as amended thereof subject to compliance of the Specific and Standard EC conditions as given in Annexure (1)
8. The Ministry reserves the right to stipulate additional conditions, if found necessary.
9. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
10. The Project Proponent is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.
11. Validity of EC is upto 29/10/2024 to the start of production operations by the project or activity. Validity of EC becomes perpetual subject to the start of production operations by the project or activity on or before the [Project_Date] In case the project proponent fails to start the production operations within the EC validity date, application for EC validity extension shall be submitted to the regulatory authority as per the provision contained in the Para 9.0 of EIA notification, 2006 and its amendment.
12. General Instructions:
 - (a) The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.
 - (b) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
 - (c) The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions.
 - (d) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during operational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.
 - (e) Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
 - (f) The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities

should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

(g) Any appeal against this EC 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.

13. This issues with the approval of the Competent Authority

Copy To

N/A

Annexure 1

Standard EC Conditions for (Cement plants)

1. Statutory Compliance

S. No	EC Conditions
1.1	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.
1.2	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

2. Air Quality Monitoring And Preservation

S. No	EC Conditions
2.1	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 04/06 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. (case to case basis small plants: Manual; Large plants: Continuous and their no's.)
2.2	The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
2.3	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.

S. No	EC Conditions
2.4	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.
2.5	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
2.6	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
2.7	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
2.8	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash.

Additional EC Conditions

N/A

Annexure 2

Details of the Project

S. No.	Particulars	Details	
a.	Details of the Project	Expansion in Cement Production Capacity from 0.528 Million TPA to 4.6 Million TPA (Expansion in existing Cement Mill from 0.528 to 0.60 Million TPA and additional Cement Mill of 4.0 Million TPA) at Patratu Industrial Area, Villages: Katia & Solia, Tehsil: Patratu, District: Ramgarh (Jharkhand) by M/s. UltraTech Cement Ltd. (Unit: Patratu Cement Works)	
b.	Latitude and Longitude of the project site	23.61703470921635,85.27291100907365 23.61877242099855,85.27489206787628	
c.	Land Requirement (in Ha) of the project or activity	Nature of Land involved	Area in Ha
		Non-Forest Land (A)	24.28
		Forest Land (B)	0
		Total Land (A+B)	24.28
d.	Date of Public Consultation	Public consultation for the project was held on	

S. No.	Particulars	Details
e.	Rehabilitation and Resettlement (R&R) involvement	NO
f.	Project Cost (in lacs)	82019.71
g.	EMP Cost (in lacs)	5000
h.	Employment Details	

Details of Products & By-products

Name of the product /By-product	Product / By-product	Existing	Proposed	Total	Unit	Mode of Transport / Transmission
Cement	Product	0.528	4.072	4.6	Million TPA	Road
D.G. Sets	Product	250	1500	1750	KVA	Captive Use



State Level Environment Impact Assessment Authority, Jharkhand.

Nursery Complex, Near Dhurwa Bus Stand, Dhurwa, Ranchi, Jharkhand-834 004.

E-mail: msseiaa.jhk@gmail.com/chr-seiaajhr@gov.in

website: www.jseiaa.org

Letter No.-EC/SEIAA/2024-25/3147/2024/

Ranchi, Date:

To: **M/s UltraTech Cement Limited,
Dr. K.V. Reddy,
(Joint President & Corporate Head - Environment),
'B' – Wing, Ahura Centre, 1st Floor,
Mahakali Caves Road,
Andheri (East) Mumbai, Maharashtra : 400093.**

Sub.: Environmental Clearance for the project “Expansion in Cement production capacity from 0.528 Million TPA to 4.6 Million TPA (Expansion in existing Cement Mill from 0.528 to 0.60 Million TPA an additional Cement Mill of 4.0 Million TPA) by M/s UltraTech Cement Ltd. (Unit : Patratu Cement Works) at Patratu Industrial Area at Villages : Katia & Solia, Tehsil : Patratu, Distt. : Ramgarh, Jharkhand” (Proposal No. : SIA/JH/IND1/496283/2024) – regarding.

Ref: Your application no. UTCL/ENV/MUM/2024/118, dated 19.09.2024.

Sir,

It is in reference to the project “Expansion in Cement production capacity from 0.528 Million TPA to 4.6 Million TPA (Expansion in existing Cement Mill from 0.528 to 0.60 Million TPA an additional Cement Mill of 4.0 Million TPA) by M/s UltraTech Cement Ltd. (Unit : Patratu Cement Works) at Patratu Industrial Area at Villages : Katia & Solia, Tehsil : Patratu, Distt. : Ramgarh, Jharkhand”, Jharkhand submitted by you for seeking prior Environmental Clearances (EC).

This is an expansion project which has been taken for appraisal on 29.09.2024.

Project Category : B-1 - 3 (b) Cement Plants as per EIA Notification, 2006.

The State Expert Appraisal Committee, Jharkhand deliberated the project during its 113th meeting held on 30.05.2024 to 03.06.2024 and SEIAA, Jharkhand has approved the ToRs in 113th meeting held on 07th & 08th June, 2024. TOR for the project was issued by SEIAA, Jharkhand vide letter no. EC/SEIAA/2024-25/3147/2024/104, date 09.06.2024. The final EIA / EMP submitted by PP to SEAC on 19.09.2024.

This proposal is for Expansion in Cement Production Capacity from 0.528 Million TPA to 4.6 Million TPA (Expansion in existing Cement Mill from 0.528 to 0.60 Million TPA and additional Cement Mill of 4.0 Million TPA) at Patratu Industrial Area, Villages: Katia & Solia, Tehsil:

Patratu, District: Ramgarh (Jharkhand) by M/s. UltraTech Cement Ltd. (Unit: Patratu Cement Works).

Earlier, the existing Cement plant was operating by M/s. Burnpur Cement Ltd. The company had obtained NOC from Jharkhand State Pollution Control Board vide ref. no. JA/2655/W/217 dated 25th Jan., 2007 for Clinker - 800 TPD & Cement (OPC, PSC & PPC) - 800 TPD.

Thereafter, Environmental Clearance was obtained from MoEFCC, New Delhi vide letter no. J-11011/45/2009-IA. II (I) dated 30th Dec., 2010 for Cement Plant (0.528 Million TPA) at Patratu Industrial Area, District: Ramgarh (Jharkhand) by M/s. Burnpur Cement Ltd.

Thereafter, In accordance with the SARFAESI Actions under Securitization and Reconstruction of Financial Assets and Enforcement of Security Interest Act, 2002 read with Security Interest (Enforcement) Rules, 2002, UltraTech has taken control over the assets of Burnpur Cement Limited located at Patratu Industrial Area, Villages - Katia & Solia, District - Ramgarh, Jharkhand on November 29, 2023 ("Transfer Date") and now Burnpur Cement Limited is now a wholly owned unit of UltraTech Cement Limited.

Transfer EC from Burnpur Cement Ltd. to UltraTech Cement Ltd. has been obtained from SEIAA, Jharkhand on 28th May, 2024.

Project Proposal

S. No.	Particulars	Unit	Existing Capacity	Additional Capacity		Total capacity after Expansion
				Existing Line - I (By Optimization)	New Line - II	
1.	Cement (OPC, PPC and PCC)	Million TPA	0.528	0.072	4.0	4.6
2.	D.G. Sets	KVA	250	Nil	2 x 750	1750

Salient Features of the Project

S. No.	PARTICULARS	DETAILS
1.	Nature of the Project	Expansion Project
2.	Size of the Project	<ul style="list-style-type: none"> ✓ Cement (OPC/PPC/PCC) {0.528 to 4.6 Million TPA} ✓ D.G. Set (250 to 1750 KVA)
3.	Category of the Project	As per EIA Notification dated 14 th Sept., 2006 & as amended thereof; this project (Standalone Grinding Unit) falls under Category - "B", under S. No. 3 (Material Production). Project Activity "3 (b) Cement Plants.
4.	Location Details	
	Khasra Nos	Khasra List and Khasra map along with the complete land documents of 31.56 ha (78 Acre) submitted.
	Villages	Katia & Solia
	Tehsil	Patratu
	District	Ramgarh

S. No.	PARTICULARS	DETAILS
	State	Jharkhand
	Latitude	Plant: 23°37'12.62" to 23°37'09.02" Administrative Building: 23°37'01.33" to 23°37'07.57"
	Longitude	Plant: 85°16'17.31" to 85°16'42.21" Administrative Building: 85°16'22.45" to 85°16'29.61"
	Toposheet No.	Core Zone: (F45B6)73E/6 Buffer Zone: (F45B6)73E/6 & (F45B2)73E/2
5.	Area Details	
i	Total Plant Area	Total plant area is 31.56 ha; expansion will be done within existing plant premises.
ii	Greenbelt / Plantation Area (ha)	Total Greenbelt area will be 10.45 ha. (Existing - 8.09 ha has already been done i.e. 33% of the existing plant area as per EC and Additional - 2.40 ha will be developed i.e. 33% of the additional area of 7.28 ha.
6.	Environmental Setting Details (with approximate aerial distance from the nearest plant boundary and direction from the centre)	
1.	Nearest Village	<ul style="list-style-type: none"> ○ Solia (0.6 km in SW direction) ○ Katia (0.75 km in NNW direction)
2.	Nearest Town	Patratu (5.0 km in NE direction)
3.	Nearest City	Ranchi (25.0 km in South direction)
5.	Nearest National Highway / State Highway	SH - 2 (0.8 km in SE direction)
6.	Nearest Railway station	<ul style="list-style-type: none"> ○ Patratu Railway Station (5.5 km in NE direction) ○ Tokishud Railway Station (7.0 km in NW direction) ○ Bhurkhunda Railway Stations (9.5 km in ENE direction)
7.	Nearest Airport	Birsa Munda Airport, Ranchi (35.0 km in South direction)
8.	National Parks, Wildlife Sanctuaries, Biosphere Reserves within 10 km radius	No National Park, Wildlife Sanctuary, Biosphere Reserve falls within the 10 km radius area of the plant site.
9.	Reserve / Protected Forest within 10 km radius	<p>Following Protected Forest falls within 10 km radius study area</p> <ul style="list-style-type: none"> ▪ Koto PF (1.0 km in NW direction) ▪ Protected Forest (3.0 km in North direction) ▪ Protected Forest (4.0 km in East direction) ▪ Protected Forest (4.0 km in ESE direction) ▪ Protected Forest (4.0 km in West direction) ▪ Lem PF (5.0 km in SE direction) ▪ Jarad PF (5.0 km in SE direction)

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S. No.	PARTICULARS	DETAILS				
		<ul style="list-style-type: none"> ▪ Ghaghra PF (5.5 km in East direction) ▪ Bicha PF (6.2 km in SE direction) ▪ Protected Forest (6.5 km in NNE direction) ▪ Tokishud PF (6.5 km in North direction) ▪ Sankul PF (6.5 km in NNE direction) ▪ Protected Forest (7.0 km in ENE direction) ▪ Hariharpur PF (7.0 km in ESE direction) ▪ Rarha PF (7.0 km in SSE direction) 				
10.	Water Bodies (within 10 km radius)	<ul style="list-style-type: none"> ▪ Naikari Nadi (0.8 km in East direction) ▪ Patratu Lake (1.0 km in SE direction) ▪ Damodar River (7.0 km in North direction) ▪ Chiruwa Nala (7.0 km in SW direction) 				
11.	Archaeologically Important Site	None within 10 km radius study area				
12.	Seismic Zone	Zone II [as per IS 1893 (Part-I): 2002]				
13.	Cost Details					
	Total Cost of the Expansion Project	Rs. 500 Crores				
	Cost for Environment Management Plan	Capital Cost: Rs. 50.0 Crores Recurring Cost: Rs. 5.0 Crore / annum				
14.	Basic Requirements of the Project					
	Water Requirement (KLD)	Existin g	Additional	Total	Source	
		100	200	300	Ground Water/Rainwater Harvesting	
	Power Requirement (MW)	3.6	20	23.6	Damodar Valley Company Ltd., D.G. Sets for Emergency Back-up	
	Manpower Requirement (No. of persons)					
	Construction Phase					
	Regular	-	10	10	Preference is being/will be given to local people as per their eligibility, qualification & skills.	
	Contractual	-	500	500		
	Operation Phase					
	Regular	83	15	98		
	Contractual	109	70	179		
	Total	192	595	787		

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Land Details:

Plot No. A-8P, 9, 10, 11, B-38, 39, 40, C-7P, B.9,10,11,XP, Block-D & Block-E, Part in the Patratu Industrial Area, Consisting of Revenue Survey Nos. 24P,25P,26,27,28P,29,30P,31,32P,33P,35P, 49P, 50, 51P, 52P, 71P, 2332P, 2333, 2334, 2335P, 2336P, 2337, 2339, 2340, 2341P, 2343P, 2344, 2345, 2346, 2347, 2348P, 2349, 2350P, 2351P, 2352P, 2353P, 2354, 2355, 2356, 2357, 2358, 2359P, 2360, 2361, 2362, 2363, 2364, 2365, 2366P, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374P, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2385P, 2386P, 2387, 2388, 2389, 2390, 2391, 2392P, 2481P, 2482P, 2485P, 2486P, 2487, 2488, 2489, 2490, 2491, 2492, 2493P, 2394P, 2240P, 35P, 36P

Scope of Proposed Expansion Project

S. No.	Unit	Major facilities and associated activities proposed-
Expansion by Process optimization		
1.	Existing Line - I	<ul style="list-style-type: none">- Cement Mill (Ball Mill)- Storage Facilities for Raw Materials and Products (Covered Sheds, Silos)- Packing Plant- Truck Tipplers- Truck Parking Area- Hot Air Generator
2.	Process Optimisation in Line - I	<ul style="list-style-type: none">- Increase in mill grinding media filling from 22% to 24% by adding more grinding media into mill which improves its grinding efficiency and reduced retention time of raw material to product.- Increase in mill air velocity by optimizing mill vent fan so the fine grounded material leaves mill faster and further fresh feed is pushed into mill.
New Installation		
3.	New Line - II	<ul style="list-style-type: none">- Cement Mill (RP + Ball Mill / VRM)- Storage Facilities for Raw Materials and Products (Covered Sheds, Silos)- Packing Plant- Truck Tipplers- Truck Parking Area- Hot Air Generator- Cement Bulk Loading- Bulk Reception Unit (BRU) or Fly ash / Slag / Gypsum
4.	Other Associated facilities	<ul style="list-style-type: none">- Weigh Bridge- Diesel Generator with storage of fuel

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S. No.	Unit	Major facilities and associated activities proposed-
Expansion by Process optimization		
		- STP (15 KLD) - RMC Plant for construction activity

PRODUCT WISE RAW MATERIAL CONSUMPTION

S. No.	Name of Raw Material	Quantity (Million TPA)			Source	Distance & Mode of Transportation
		100 % Basis				
		OPC	PPC	PCC		
1.	Clinker	4.37	2.76	1.84	Hirmi Cement Works, Rawan Cement Works, Kukurdih Cement Works and other UTCL Units	450 km by Rail then 13 km by Road
2.	Gypsum	0.23	0.23	0.23	Chemical - Paradip Port Mineral - Mines in Rajasthan	600 km Rail then 13 km by Road
3.	Fly ash	-	1.61	1.15	Koderma Thermal Power Plant, Patratu Thermal Power Station, IPL Power Plant & other nearby sources	135 km by Road
4.	Slag	-	-	1.38	Steel Plants in Jharkhand - Bokaro Steel Plant, Tata Steel	120 km by Road
Total		4.6	4.6	4.6		

**Cement production will be done 4.6 Million TPA only either from various options as OPC, PPC, PCC.*

S. No.	Name of Raw Material	Raw Material Requirement - OPC (10%)			Source	Distance & Mode of Transportation
		Quantity (Million TPA)				
		Existing	Additional	Total		
1.	Clinker	0.050	0.387	0.437	Hirmi Cement Works, Rawan Cement Works, Kukurdih Cement Works	450 km by Rail then 13 km by Road

2.	Gypsum	0.00264	0.020	0.023	and other UTCL Units Chemical - Paradip Port Mineral - Mines in Rajasthan	Road 600 km Rail then 13 km by Road
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RAW MATERIAL CONSUMPTION - PPC (20%)

S. No.	Name of Raw Material	Quantity (Million TPA)			Source	Distance & Mode of Transportation
		Existing	Additional	Total		
1.	Clinker	0.0634	0.4486	0.552	Hirmi Cement Works, Rawan Cement Works, Kukurdih Cement Works and other UTCL Units	450 km by Rail then 13 km by Road
2.	Gypsum	0.005	0.0364	0.414	Chemical - Paradip Port Mineral - Mines in Rajasthan	600 km Rail then 13 km by Road
3.	Fly ash	0.036	0.286	0.322	Koderma Thermal Power Plant, Patratu Thermal Power Station, IPL Power Plant & other nearby sources	135 km by Road

RAW MATERIAL CONSUMPTION - COMPOSITE CEMENT (70%)

S. No.	Name of Raw Material	Quantity (Million TPA)			Source	Distance & Mode of Transportation
		Existing	Additional	Total		
1.	Clinker	0.118	0.912	1.030	Hirmi Cement Works, Rawan Cement Works, Kukurdih Cement Works and other UTCL Units	450 km by Rail then 13 km by Road
2.	Gypsum	0.0184	0.1426	0.161	Chemical - Paradip Port Mineral - Mines in Rajasthan	600 km Rail then 13 km by Road

S. No.	Name of Raw Material	Quantity (Million TPA)			Source	Distance & Mode of Transportation
		Existing	Additional	Total		
3.	Fly ash	0.1145	0.8837	0.9982	Koderma Thermal Power Plant, Patratu Thermal Power Station, IPL Power Plant & other nearby sources	135 km by Road
4.	Slag	0.1182	0.9058	1.024	Steel Plants in Jharkhand - Bokaro Steel Plant, Tata Steel	120 km by Road

TOTAL RAW MATERIAL REQUIREMENT

S. No.	Name of Raw Material	Total raw material requirement considering OPC - 10%, PPC - 20% and PCC - 70% (MTPA)	Source	Distance & Mode of Transportation
1.	Clinker	2.019	Hirmi Cement Works, Rawan Cement Works, Kukurdih Cement Works and other UTCL Units	450 km by Rail then 13 km by Road
2.	Gypsum	0.598	Chemical - Paradip Port Mineral - Mines in Rajasthan	600 km Rail then 13 km by Road
3.	Fly ash	1.32	Koderma Thermal Power Plant, Patratu Thermal Power Station, IPL Power Plant & other nearby sources	135 km by Road
4.	Slag	1.38	Steel Plants in Jharkhand - Bokaro Steel Plant, Tata Steel	120 km by Road

Product will be manufactured in any of the combination (OPC, PPC and PCC) considering the maximum capacity as per the market demand.

RAW MATERIAL CONSUMPTION MAXIMUM

S. No.	Name of Raw Material	Quantity (Million TPA)			Source	Distance & Mode of Transportation
		Existing	Additional	Total		
1.	Clinker	0.312	3.8	4.112	Hirmi Cement Works, Rawan Cement Works, Kukurdih Cement Works and other UTCL Units	450 km by Rail then 13 km by Road
2.	Gypsum	0.021	0.2	0.221	Chemical - Paradip Port Mineral - Mines in Rajasthan	600 km Rail then 13 km by Road
3.	Fly ash	0.063	1.4	1.463	Koderma Thermal Power Plant, Patratu Thermal Power Station, IPL Power Plant & other nearby sources	135 km by Road
4.	Slag	0.132	1.0	1.132	Steel Plants in Jharkhand - Bokaro Steel Plant, Tata Steel	120 km by Road

Product will be manufactured in any of the combination (OPC, PPC and PCC) considering the maximum capacity as per the market demand

Fuel Requirement

S. No.	Name	Quantity (Million TPA)			Source	Distance & Mode of Transportation
		Existing	Additional	Total		
1.	Coal (Imported/Indigenous)	0.012	0.1	0.112	Mines in Jharkhand -CCL and CIL mines	300 km by Rail then 13 km by Road

** Coal will be used in HAG (Hot Air Generator) and Hot air will be used for slag drying as we are proposing manufacturing of Portland composite cement (PCC).*

Resources optimization/recycling and reuse envisaged in the project, if any, should be briefly outlined

- The proposed Grinding Unit is being/will be utilize waste generated from other industries mainly Fly Ash from Thermal Power Plant and Blast Furnace Slag from Steel Plant for manufacturing Cement. These waste products comprise of 35-65% of Raw materials this will minimize the clinker usages and ultimately will lead to sustainability.

- Dust collected from various pollution control equipment's like Bag house and Bag filters is being/ will be recycled into the process.
- Currently there is no STP, soak pits are utilized. 15 KLD STP of MBBR technology will be installed for treatment of waste water generated from Administrative Building/ Plant.
- Sludge from STP (~ 15 kg/month) will be used as manure in greenbelt development/ plantation.
- Domestic waste water (11 KLD) generated from the plant & the colony will be treated in STP (15 KLD capacity) and treated water will be re-used for greenbelt development.
- Water used for cooling is being / will be partially absorbed in the process and partially subjected to evaporation & recycling; hence, no wastewater is being/ will be discharged from the plant premises.
- Water conservation measures implemented are like Permanent water sprinklers, use of air cooling in place of water cooling in process fans, Installation of screw compressors in place of conventional compressors.
- Roof top rainwater harvesting by recharge tube wells. Surface rainwater runoff available from roads, cemented area and open land inside the colony area shall be used for recharging through existing dug cum borewells/ dry tube wells.

Availability of water and its source, energy /power requirement and source should be given.

a) Water Requirement and Source

The total fresh water requirement for the existing plant is 100 KLD and additional requirement for proposed expansion will be 200 KLD; thus, total water requirement after proposed expansion project will be 300 KLD.

Source: Ground Water and Rainwater harvested in pond

Status of Approval:

- The CGWA NOC has been obtained for abstraction of 300 KLD ground water vide Letter dated 18/07/2024 valid up to 05/11/2026.

Break- up of Total Water Requirement

Purpose	Requirement (KLD)			Source
	Existing	Additional	Total after Expansion	
Cement Plant	40	100	140	Ground Water / Rainwater harvested
Dust Suppression	30	50	80	
Drinking & Domestic	10	20	30	
Green Belt Development / Plantation	20	30	50	
TOTAL	100	200	300	

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Land Use Planning (Break-up along with green belt etc.)

Total plant area is 31.56ha (Part - A 28.32 ha is for Plant Area & Part - B 3.0 ha is for Administrative Building). Present land use of the plant site is industrial. Total project area is 31.56ha (24.28 ha existing and 7.28ha additional), out of the total project area; 33% i.e., 10.45 ha area will be covered under greenbelt development & plantation.

However, at present Greenbelt / plantation have been done over an area of about 8.09 ha (33% of exiting plant area of 24.28 ha) and in additional area of 2.40 ha out of the total proposed plant area of 31.56ha greenbelt & plantation will be done.

Plant Area Break-up

S. No.	Particulars	Existing	Proposed	Total	% Area
1	Plant and Machineries (Existing)	2.53	-	2.53	8.08
2	Plant and Machineries (Proposed)	-	4.88	4.68	14.94
3	Greenbelt Area (33 % of total plant area)	8.09	2.40	10.45	33.37
4	Open Area	13.66		13.66	43.61
Total		24.28	7.28	31.56	100.00

Baseline Environmental Studies

Period	Winter Season (Dec., 2023 to Feb., 2024)	Additional Study (if any)
AAQ parameters at 8 locations (min and max)	PM _{2.5} - 22.6 to 50.8 µg/m ³ PM ₁₀ - 47.5 to 86.7 µg/m ³ SO ₂ - 5.5 to 15.6 µg/m ³ NO _x - 10.6 to 28.5 µg/m ³ CO - BDL To 0.85 mg/m ³	-
Incremental GLC level for plant only	PM ₁₀ - 2.15 µg/m ³ (120 m within the Plant Site in SE Direction) PM _{2.5} - 0.93 µg/m ³ (150 m within the Plant Site in SE Direction)	-
Ground water quality at 08 locations	pH - 7.4 to 7.74 Total Hardness - 177.88 to 350.97 mg/l Chlorides - 48.5 to 94.97 mg/l Fluoride - 0.14 to 1.11 mg/l Heavy Metals - Iron as Fe: 0.1 to 0.8 mg/l	-
Surface water quality at 04 location	pH - 7.43 to 7.76 mg/l DO - 7 to 7.2 mg/l BOD - BDL to 2 mg/l COD - BDL to 8.0 mg/l	-
Noise levels Leq (Day and	50.2 to 53.3 Leq dB (A) for day time and 40.7 to 42.9 Leq dB (A) for the night time.	-

Night) at 08 locations																						
Traffic assessment study findings	<ul style="list-style-type: none"> Traffic study has been conducted at SH - 2 (which is ~ 0.8 km towards SE direction) Transportation of raw material & finished product: <ul style="list-style-type: none"> ➤ Clinker* - 100% by Road ➤ Fly ash/ Pond Ash- 100% by Road ➤ Gypsum - 100% by Road ➤ Slag - 100 % by Road ➤ Cement - 100 % by Road Clinker, Gypsum & Coal is transported ~ 450 km by railways to the nearest railway siding (Barakhunda Railway Siding is 9.5 km n ENE direction), from where it is transported ~ 13 km by road to the plant site. <p>Existing PCU is 230.50 PCU/hr on SH - 2 road and existing level of service (LOS) is B.</p> <table border="1"> <thead> <tr> <th>Road</th> <th>V (Volume in PCU/hr.)</th> <th>C (Capacity in PCU/hr.)</th> <th>Existing V/C Ratio</th> <th>LOS</th> </tr> </thead> <tbody> <tr> <td>SH - 2</td> <td>230.50</td> <td>625</td> <td>0.37</td> <td>B</td> </tr> </tbody> </table> <p>* Note - Capacity as per IRC: 64-1990 Guideline for capacity of roads.</p> <ul style="list-style-type: none"> PCU load for SH - 2 after proposed project will be 355.12 (Existing) +124.62 (Additional) PCU/hr and level of service (LOS) will be C. <table border="1"> <thead> <tr> <th>Road</th> <th>V (Volume in PCU/hr.)</th> <th>C (Capacity in PCU/hr.)</th> <th>Existing V/C Ratio</th> <th>LOS</th> </tr> </thead> <tbody> <tr> <td>SH -2</td> <td>124.62 + 230.50 = 355.12</td> <td>625</td> <td>0.56</td> <td>C</td> </tr> </tbody> </table> <p>* Note - Capacity as per IRC: 64-1990 Guideline for capacity of roads.</p> <p>Conclusion: The level of service is "C" after including the additional traffic due to the proposed project for SH -2.</p>	Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Existing V/C Ratio	LOS	SH - 2	230.50	625	0.37	B	Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Existing V/C Ratio	LOS	SH -2	124.62 + 230.50 = 355.12	625	0.56	C	-
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Wildlife Conservation Plan for Schedule - I species -																						
Flora and fauna	Wildlife Conservation for Schedule - I species has been made and submitted to DFO, Ramgarh vide letter No. UTCL/Env./PACW/2024-25/11, dated 14.08.2024. Details of	-																				

	<p>the same given below -</p> <p>Twenty-four faunal species was listed which are Asiatic Elephant (<i>Elephas maximus</i>), Sloth Bear (<i>Melursus ursinus</i>), Jackal (<i>Canis aureus</i>), Jungle Cat (<i>Felis chaus</i>), Common Fox (<i>Vulpes bengalensis</i>), Asiatic Wild Dog or Dhole (<i>Cuon alpinus</i>), Indian Grey Mongoose (<i>Herpestes edwardsii</i>), Striped Hyena (<i>Hyaena hyaena</i>), and Small Indian Civet (<i>Viverricula indica</i>), White-eyed Buzzard (<i>Butastur teesa</i>), Lesser Adjutant Stork (<i>Leptoptilos javanicus</i>), Common Pochard (<i>Aythya ferina</i>), Cotton Teal (<i>Nettapus coromandelianus</i>), Fulvous Whistling Duck (<i>Dendrocygna bicolor</i>), Tufted Pochard (<i>Aythya fuligula</i>), Brahminy Kite (<i>Haliastur indus</i>), Crested Serpent Eagle (<i>Spilornis cheela</i>), Western Marsh Harrier (<i>Circus aeruginosus</i>), Osprey (<i>Pandion haliaetus</i>), Common Greenshank (<i>Tringa nebularia</i>), Peafowl (<i>Pavo cristatus</i>), River Tern (<i>Sterna aurantia</i>), Indian Rat Snake (<i>Ptyas mucosus</i>), and Python (<i>Python molurus</i>). The budget allocated for Wildlife Conservation Plan is 24 Lakhs.</p>	
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The details of Solid waste hazardous generation along with its mode of treatment/ disposal is furnished as below:

Plant Unit	Section	Type of Waste	Waste	Approx. Quantity	Treatment / Disposal
Grinding Unit	APCE	SW	Dust	450 TPD	Dust collected from various APCEs is being / will be totally recycled into the process.
STP	-	SW	STP Sludge	~15 kg/month	Used as manure for greenbelt development/ plantation.
Plant Maintenance	Different sections	HW	Used / Spent Oil (5.1)	28 TPA	Is being / will be Sold to the CPCB/ SPCB authorized recyclers.
			Waste Residues containing oil (5.2)	2 TPA	
			Lead Acid batteries	3 TPA	
			Empty barrels (Cat 33.1)	1 TPA	
			Contaminated cotton rags &	0.5 TPA	

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Plant Unit	Section	Type of Waste	Waste	Approx. Quantity	Treatment / Disposal
			other cleaning material		
MSW	Plant Canteen & Rest room	Dry / Wet	Bottles, paper, cans, textile, etc. Kitchen and canteen/ Green waste	5 TPA	Is being / will be sold to authorized recyclers. Is being / will be disposed after segregating into bio-degradable and non-degradable waste. Bio-degradable waste is being / will be composted & utilized for greenbelt development/plantation and non-degradable wastes is being / will be disposed of suitably. Concept of waste minimization 3R's (Recycle, Reduce & Recover) scheme will be adopted.
Plant	Plant & Office	E - waste	Discarded electrical equipment, cables, CFL / LED Lights	0.5 TPA	Sold to registered vendors as per E - waste Management Rules, 2020

Public consultation

Details of advertisement given	“Prabhat Khabar” and “Hindustan Times” on 26 th June..2024. ”
Date of Public Consultation	26 th July, 2024 (Friday) at 11:30 AM
Venue	M/s. Ultratech Cement Limited (Unit: Patratu Cement Work - Premises), Tehsil: Patratu, District: Ramgarh (Jharkhand).
Presiding Officer	<ul style="list-style-type: none"> ➤ Ms. Kumari Geetanjali (Additional Collector) ➤ Mr. Jitendra Prasad Singh (Regional Officer) ➤ Kumar Manibhushan (Environmental engineer)
Major issues raised	Environment & Pollution, Socio-economic Development, Water Pollution, Education, etc.

Action plan as per MoEF&CC O.M. dated 30th Sept., 2020

The company has allocated Rs 1.1 Crores for implementation of the commitments made during Public Hearing as per MoEFCC OM dated 30th Sept., 2020 & OM dated 20th Oct., 2020. The detailed Socio-economic Development plan is given below:

Socio- Economic Development Plan - Patratu Cement Plant								
Concerns raised during the Public Hearing	Physical activity to be done	Location / Area	Ist Year	2nd Year	3rd Year	4th Year	5th Year	Total Cost
			Budget in Lakhs	Budget in Lakhs	Budget in Lakhs	Budget in Lakhs	Budget in Lakhs	
<i>Employment</i>	Setting up of skill development training center (Providing short duration training programs for unemployed youth in the field of domestic electrician, plumber, motor mechanic etc.)	Girbatta, Solia, Katia, Hesla, Palani	3	7				10
	Absorbing competent persons after training as per requirement basis under skilled/semi-skilled / un-skilled/professionals.	Girbatta, Solia, Katia, Hesla, Palani	1	2	2.5	2.5	3	11
<i>Infrastructure Related</i>	Installation of solar power system in schools, Govt building and Village Panchayat Bhawan. Provide solar street light in nearby villages.	Girbatta, Solia, Katia, Hesla, Palani	3	3	3	3	3	15
	Rural infrastructure development for repairing/ restoring the village pathway/ roads	Girbatta, Solia, Katia, Hesla, Palani	3	5	7			15
<i>Education Related</i>	Upgradations of Classrooms in Schools of nearby Villages. installation of smart	Girbatta, Solia, Katia, Hesla.	5	5	5	4.5		19.5

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Socio- Economic Development Plan - Patratu Cement Plant

Concerns raised during the Public Hearing	Physical activity to be done	Location / Area	Ist Year	2nd Year	3rd Year	4th Year	5th Year	Total Cost
			Budget in Lakhs	Budget in Lakhs	Budget in Lakhs	Budget in Lakhs	Budget in Lakhs	
	classes and computers in the Government schools to promote Digital education etc.	Palani						
	Strengthening of school by providing quality study materials and stationery to the children.	Girbatta, Solia, Katia, Hesla, Palani	1.5	1.5	1.5	1.5	1.5	7.5
Health Related	Preventive health checkup/ camps programme (Gyne, Eye, Ortho etc) for women & Children health checkup.	Girbatta, Solia, Katia, Hesla, Palani	1.5	1.5	1.5	1.5	1	7
	Installation of RO Plants to provide safe drinking water at community places.	Girbatta, Solia, Katia, Hesla, Palani	2	2	2		2	8
Water Related	Restoration and cleaning of rivers by implementing Restoration actions like replant native vegetation, stabilize riverbanks and improve ecological functions.	Girbatta, Solia, Katia, Hesla, Palani	3	3	3	3	3	15
Agriculture Related	Distribution of good quality seeds to farmers, encouragement for organic farming.	Girbatta, Solia, Katia, Hesla.	1	1	1			3

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Socio- Economic Development Plan - Patratu Cement Plant

Concerns raised during the Public Hearing	Physical activity to be done	Location / Area	Ist Year	2nd Year	3rd Year	4th Year	5th Year	Total Cost
			Budget in Lakhs	Budget in Lakhs	Budget in Lakhs	Budget in Lakhs	Budget in Lakhs	
	linkage of farmers to the source to get Organic materials and fertilizers.	Palani						
Total			21	24	26.5	16	13.5	101

NOTE: Nature of the activities & village can be interchanged from village to village may vary based on the outcome of need base analysis during the execution phase in coordination with local Gram Panchayat within the overall budget proposed here for Socio- Economic Development Plan.

Budgetary provision for environment management protection

The capital cost of the proposed expansion project is Rs. 500 Crores and the capital cost for Environmental Protection Measures is proposed as Rs. 50 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs. 5.0 Crores/ annum. The details of cost for environmental protection measures are as follows:

S. No.	Particulars	Capital cost (in Crores)	Recurring cost (in Crores / annum)
1.	Air pollution control systems	40	3.7
2.	Sewage Treatment Plan water	0.5	0.15
3.	Noise pollution control	5	0.05
4.	Environment monitoring and Environment Cell	1.5	0.25
5.	Occupational Health (Initial & Periodical Medical Check-ups)	0.25	0.1
6.	Greenbelt and Plantation	0.75	0.25
7.	Others (Housekeeping and Vacuum Sweeping Machine, Environmental Awareness Program)	2	0.5
8.	Cost PH Issues adressal	1.1	-
Total		51.1	5

Greenbelt Development

Total project area is 31.56ha (24.28 ha existing and 7.28ha additional), out of the total project area: 33% i.e., 10.45 ha area will be covered under greenbelt development & plantation.

However, at present Greenbelt / plantation have been done over an area of about 8.09 ha (33% of exiting plant area of 24.28 ha) and in additional area of 2.40 ha out of the total proposed plant area of 31.56ha greenbelt & plantation will be done. The total existing saplings available in the project area is 8.09 ha with approx. 12135 samplings / ha. Now, Company has planned to proposed greenbelt development / plantation in the additional area of 2.40 ha with 1855 Sapling / ha and gap filling in the existing plantation considering the survival rate of 80%.

Certified Compliance Report from Regional Office

The status of compliance of EC was obtained IRO, Ranchi Vide File No. 103-332/ROR -2024, dated 10th September, 2024.

As per the Certified Compliance Report of existing Environment Clearance Letter No. J-11011/45/2009-IA-II (I) dated 30th September, 2010 and Extension of Validity of EC letter no. - EC/SEIAA/2017 -18/2068/2017/261 Ranchi dated 05th Nov, 2018; all the general and specific conditions are compiled and agreed to comply.

Existing Clearances / Consents & Implementation Status

S. No.	Particulars	Granted Capacity	Implementation Status
A.	Environment Clearance (EC)		
1.	<ul style="list-style-type: none"> o EC from MoEFCC, New Delhi <i>vide</i> Letter No. J-11011/45/2009-IA. II (I) dated 30th Dec., 2010 o Extension of Validity of EC from SEIAA, Jharkhand <i>vide</i> letter no.-EC/SEIAA/2017-18/2068/2017/261 Ranchi dated 05th Nov. 2018 o Corrigendum in Extension of Validity of Environment Clearance form SEIAA, Jharkhand <i>vide</i> letter no.-EC/SEIAA/2017-18/2068/2017/186 Ranchi dated 30th April, 2019 	Clinker - 0.528 Million TPA Cement - 0.528 Million TPA (OPC, PSC, PCC & PPC)	Clinker - 0.264 Million TPA <i>(Currently not in operation)</i> Cement - 0.528 (OPC, PSC, PCC & PPC) Partially implemented
B.	Consent to Establish (CTE) / NOC		
1.	NOC from Jharkhand State Pollution Control Board (JSPCB) <i>vide</i> ref. no. JA/2655/W/217 dated 25 th Jan., 2007	Clinker: 800 TPD, OPC: 80 TPD, PSC: 400 TPD, PPC: 320 TPD	Implemented
2.	CTE for Cement (OPC, PSC, PCC & PPC) Production Capacity JSPCB <i>vide</i> letter No. JSPCB/HO/RNC/CTE-4963863/2020/223 dated 02 nd June, 2020	Cement (OPC, PSC, PCC & PPC) - 800 TPD	
C.	No Increase in Pollution Load		
1.	No increase in the Pollution Load certificate by change in product mix by inclusion of PCC	Cement (OPC, PSC, PCC & PPC)- 800	Implemented

S. No.	Particulars	Granted Capacity	Implementation Status
	along with the production of OPC, PPC & PSC dated 16 th March, 2020	TPD	
D.	Consent to Operate (CTO)		
1.	Consent to Operate (CTO) Vide JSPCB Consent Ref No. D-441(C) dated 20 th March, 2015	Cement - OPC: 80 TPD, PSC: 400 TPD, PPC: 320 TPD	Implemented
2.	Consent to Operate (CTO) Vide JSPCB Consent Ref No. D-2325(C) dated 02 nd Sept, 2015	Cement - OPC: 80 TPD, PSC: 400 TPD, PPC: 320 TPD and Clinker: 800 TPD	Implemented
3.	Consent to Operate (CTO) Vide JSPCB Consent Ref No. JSPCB/HO/RNC/CTO-526047/2016/ 153 dated 27 th June, 2016. Valid up to 31 st March, 2017.	Cement - OPC: 80 TPD, PSC: 400 TPD, PPC: 320 TPD and Clinker: 800 TPD	Implemented
4.	Consent to Operate (CTO) Vide JSPCB Consent Ref No. JSPCB/HO/RNC/CTO-1271759/2018 /770 dated 25 th April, 2018. Valid up to 31 st March, 2019.	Cement (OPC, PSC & PPC) - 800 TPD	Implemented
5.	Consent to Operate (CTO) Vide JSPCB Consent Ref No. JSPCB/HO/RNC/CTO-4370288/2019 /974 dated 10 th May, 2019. Valid up to 31 st March, 2020.	Cement (OPC, PSC, PCC & PPC)- 800 TPD	Implemented
6.	Consent to Operate (CTO) Vide JSPCB Consent vide Ref No. JSPCB/HO/RNC/CTO-8168156/ 2020 /1077, dated 4 th July, 2020 valid upto 30 th June, 2021.	Cement (OPC, PSC, PCC & PPC)- 800 TPD (in expansion)	Implemented
7.	Consent to Operate (CTO) Vide JSPCB Consent Ref No. JSPCB/HO/RNC/CTO-7726490/ 2020/ 907 dated 10 th June, 2020. Valid up to 31 st March, 2024.	Cement (OPC, PSC & PPC) - 800 TPD	Implemented
8.	Consent to Operate (CTO) from JSPCB vide their letter no. JSPCB/HO/RNC/CTO-10366082 /2022 /222 dated 27th Feb., 2022 valid upto 31st March, 2024.	Cement (OPC, PSC, PCC & PPC)- 1600 TPD (after expansion)	Implemented
9.	Consent to Operate (CTO) from JSPCB vide their letter no. JSPCB/HO/RNC/CTO-17945908/2024 /885 dated 18th May, 2024 valid upto 31st March, 2025.	Cement (OPC, PSC, PCC & PPC)- 1600 TPD (unexpended part)	Implemented

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STATUTORY CLEARANCES:

1	Land docs	:	Ownership Land.
2	CO	:	The CO, Patratu vide letter no. 1730, dated 04.09.2018 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyani & Register II.
3	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 906, dated 17.05.2024 certified that the proposed project site is outside Eco Sensitive Zone of Hazaribagh Wildlife Sanctuary.
4	DFO Forest Distance	:	DFO, Ramgarh Forest Division vide letter no. 1006, dated 29.05.2024 certified that the distance of demarcated forest is 900 meters from project site.
5	Transfer of Environmental Clearance (EC)	:	Transfer of Environmental Clearance (EC) granted by SEIAA vide letter no. 74, dated 27.05.2024.
6	Public Hearing	:	JSPCB vide ref. no. PH/02/2024/B-1871, dated 21.08.2024 informed that Public Hearing conducted on 26.07.2024.
7	Compliance Report	:	Compliance report certified by Regional Office, MoEF&CC, Govt. of India vide file no. 103-332/ROR-2024, dated 10.09.2024.
8	CGWA	:	No Objection Certificate for Ground Water Abstraction issued by CGWA vide NOC No. CGWA/NOC/IND/EXP/2024/61, dated 18.07.2024 valid up to 05.11.2026.
9	Baseline Study Period	:	December, 2023 to February, 2024.

The proposal was appraised by State Level Expert Appraisal Committee (SEAC) and recommended for grant of Environmental Clearance in its 117th meeting held on 27th, 28th, 29th, 30th September, 2024 and 01st October, 2024.

State Level Environment Impact Assessment Authority (SEIAA), Jharkhand in its 117th meeting held on 15th & 16th October, 2024 discussed the project proposal along with recommendations made by SEAC and decided to grant EC to the project.

Following the decision of SEIAA, as mentioned above, Environmental Clearance is hereby issued to the "Expansion in Cement production capacity from 0.528 Million TPA to 4.6 Million TPA (Expansion in existing Cement Mill from 0.528 to 0.60 Million TPA an additional Cement Mill of 4.0 Million TPA) by M/s UltraTech Cement Ltd. (Unit : Patratu Cement Works) at Patratu Industrial Area at Villages : Katia & Solia, Tehsil : Patratu, Distt. : Ramgarh, Jharkhand" alongwith the following specific conditions as recommended by SEAC.

I. Specific Conditions :

1. This Environmental Clearance is valid subject to the following condition below –
That this project has-
 - a. Obtained all legal rights to operate at concerned place.
 - b. Complied with all existing concerned laws of the land and
 - c. Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.
2. **In compliance of OM no.F.No. IA3-22/3/2024-IA.III (E-241594) dated 24.07.2024 of MoEF&CC, Govt. of India plantation of saplings shall be carried out in the earmarked green belt area as the part of tree plantation campaign “*Ek Ped Ma Ke Naam*” and the details of the same shall be uploaded in the MeriLiFE Portal (<https://merilife.nic.in>).**
3. **Wildlife Conservation Plan has been submitted to DFO, Ramgarh vide letter no. UTCL/ENV/PACW/2024-25/11, dated 14.08.2024. The PAs are required to get the Wildlife Conservation Plan approved within six months of the grant of EC and the copy of the same to be submitted to SEIAA / SEAC.**
4. **The ground water quality and surface water quality is to be done for all the location given in EIA report and same to be submitted alongwith the first EC compliance report.**
5. **Ground water to be drawn for use in the project only after obtaining permission from the Competent Authority.**
6. **Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.**
7. **All raw material to be stored only under covered shed.**
8. **Trees should be developed & maintained not less than 33% of project area.**
9. **Developers/Company to conduct and submit carbon footprint study report including mitigation measures as a part of EC compliance**

II. Statutory Compliance :

1. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
2. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
3. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area)



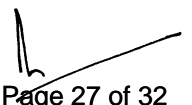




4. In the writ petition (Civil) no. 202/1995, T.N. Godaverman Thirumulpad vs union of India and ors. the Hon'ble Supreme Court passed an order dated 03.06.2022 " National Park or Wildlife Sanctuary must have an ESZ of minimum 01 km in which the activities prescribed and prescribed in the guidelines of 09th February, 2011 shall be strictly adhered to".
5. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act. 1981 and the Water (Prevention & Control of Pollution) Act. 1974 from the concerned State pollution Control Board/ Committee.
6. The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
7. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.

III. Air quality monitoring and preservation :

1. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. no. 612 (E) dated 25 August, 2014 (Cement) and subsequent amendment dated 9th May, 2016 (Cement) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act. 1986 or NABL accredited laboratories.
2. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act. 1986.
3. The project proponent shall install system carryout to Ambient Air Quality monitoring for common / criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120^o each), covering upwind and downwind directions. (case to case basis small plants: Manual; Large plants: Continuous)
4. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality / fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six- monthly monitoring report.
5. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.



6. The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.
7. Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.
8. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
9. Ensure covered transportation and conveying of raw material to prevent spillage and dust generation: Use closed bulkers for carrying fly ash.
10. Provide wind shelter fence and chemical spraying on the raw material stock piles: and
11. Have separate truck parking area and monitor vehicular emissions at regular interval.
12. Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by the use of covered conveyor belts/railways as a mode of transport
13. Ventilation system shall be designed for adequate air changes as per ACGIH Document for all tunnels, motor houses, cement bagging plants

IV. Water quality monitoring and preservation:

1. The project proponent shall install effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25th August, 2014 (Cement) and subsequent amendment dated 9th May, 2016 (Cement) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. (case to case basis small plants: Manual: Large plants: Continuous).
2. The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.
3. The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
4. Adhere to 'Zero Liquid Discharge'.
5. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
6. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
7. The project proponent shall practice rainwater harvesting to maximum possible extent.
8. Water meters shall be provided at the inlet to all unit processes in the cement plant.

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9. The project proponent shall make efforts to minimise water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water.

V. Noise monitoring and prevention:

1. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
2. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

VI. Energy Conservations measures:

1. Provide solar power generation on rooftops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.
2. Provide the project proponent for LED lights in their offices and residential areas.
3. Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS Standards.

VII. Waste Management:

1. The waste oil, grease and other hazardous shall be disposed of as per the Hazardous & other waste (Management & Trans boundary Movement) Rules, 2016.
2. Kitchen waste shall be composted or converted to biogas for further use. *(to be decided on case to case basis depending on type and size of plant).*


VIII. Green Belt:

1. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.
2. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration including plantation.

IX. Public Hearing and Human Health issues:

1. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
2. The PP shall provide Personal Protection Equipment (PPE) as per the norms of factory Act.
3. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
4. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.







X. Corporate Environment Responsibility:

1. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
2. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements / deviation / violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and/or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
3. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry Regional Office along with the Six Monthly Compliance Report.
5. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
6. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented.

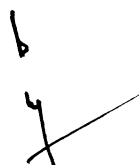
XI. Miscellaneous:

1. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
2. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
3. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
4. The project proponent shall monitor the criteria pollutants level namely: PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.



5. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
6. The project proponent shall submit the environmental statement for each financial year in Form- V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
7. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
 - i. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
 - ii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
8. It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard copies and soft copies to the regulatory authority concerned SEIAA, Regional Office of MoEF & CC at Ranchi, Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi, and Central Pollution Control Board (CPCB).
9. 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 attract action under the provisions of Environment (Protection) Act, 1986.
10. The SEIAA, Jharkhand or any other competent Authority may alter modify the above conditions or stipulate any further condition in the interest of Environment Protection.
11. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
12. Concealing factual data or submission of false / fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
13. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
14. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
15. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
16. The above conditions shall 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 Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016 and the





Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

17. Any appeal against this EC 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
18. The Prescribed EC is valid as per Notification no. S.O. 1807(E) dated 12.04.2022 of MoEF&CC, Govt. of India.

Sd/-
Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.

Memo No.-EC/SEIAA/2024-25/3147/2024/ 325

Dated: 21/10/2024

Copy to:

1. Principal Secretary, Department of Forests, Environment & Climate Change, Govt. of Jharkhand.
2. Deputy Commissioner, District – Ramgarh, Jharkhand.
3. Divisional Forest Officer, Ramgarh Forest Division, Ramgarh, Jharkhand.
4. Divisional Forest Officer, Wildlife Division, Hazaribagh, Jharkhand.
5. Director IA Division, Monitoring Cell, MoEF and Climate Change, Indira Paryavaran Bhavan, Jorbag Road, Aliganj, New Delhi – 110003.
6. Regional Office, Ministry of Environment, Forest and Climate Change, Govt. of India, 2nd Floor, Jharkhand State Housing Board (HQ), Harmu Chowk, Ranchi, Jharkhand – 834002.
7. Member Secretary, Jharkhand State Pollution Control Board, Ranchi.
8. Member Secretary, Jharkhand State Expert Appraisal Committee, Ranchi.
9. Website.
10. Guard file.


Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand