

Baseline Summary

Standalone Grinding Unit with Cement Production Capacity of 7.0 Million TPA (Phase - I: 3.5 Million TPA and Phase - II: 3.5 Million TPA) at Industrial Area of Katoria, Village: Kharjhousa, Tehsil: Katoria, District: Banka, Bihar by M/s. UltraTech Cement Ltd. (Unit: Banka Cement Works)

Establishment of Baseline for Valued Environmental Components

Baseline data collection for the proposed project using various environmental components / parameters in the core as well as buffer zone is being collected during the study period i.e. Summer Season (March to May, 2026); details of which are given in Table below.

Baseline Data Collection

S. No.	Environmental Component	Primary data		
		Parameters	Frequency	Monitoring / Sampling Locations
1.	Land	Agriculture, Habitation, Industry, Stony waste/ Quarries, Forest area, Plantation/Vegetation, Open scrub, Water bodies etc.	Once in a Study period Season	10 km radius Buffer from Project site (Core zone)
2.	Meteorology	Temperature, Relative Humidity, Wind Speed, Wind Direction, Rainfall	Hourly	01 (Project site)
3.	Air	PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ , CO and other parameters relevant to the project shall be collected	Twice a week (24 hourly)	8
4.	Noise	Equivalent noise levels in Leq in dB (A)	Once in a season (day & night time)	8
5.	Water			
a.	Surface Water	Parameters as per IS 10500 - 2012	Once in a season	11
b.	Ground Water		Once in a season	8
7.	Soil	Parameters As per IS 2720/USDA	Once in a season	9
8.	Biological Environment	Flora and fauna	Once in a season	Study area
9.	Socio- Economic Environment	Economic Demography	Once in a season	Study area

Environmental Baseline Study for One Season i.e. Summer Season (March to May, 2026) for Air, Water, Noise and Soil along with details of flora, fauna, and socio-economic conditions within the study area is being collected. For baseline study, we have considered secondary data from IMD data [Climatological Normals (1991-2020) and validated dominant wind direction as East to West and second dominant direction as NE for the season nearest IMD station which is IMD Bhagalpur (55 km in NE Direction). Following stations have been selected for air, water, noise, soil monitoring as per their selection guidelines -

Air Quality Monitoring Stations Selected with Criteria:

S. No.	Monitoring Location	Distance & Direction from Plant site	Selection Criterion
1	Plant Site	Core Zone	Core area
2	Village Karjhausa	~0.8 Km in East direction	Upwind of the Dominant wind direction
3	Village Butwaria	~4.5 Km in East direction	Upwind of the Dominant wind direction
4	Village Dhokri	~2.9 Km in West direction	Downwind of the Dominant wind direction
5	Village Phulwariya	~0.6 Km in North direction	Crosswind of the Dominant wind direction
6	Village Sarua	~1.2 Km in South direction	Crosswind of the Dominant wind direction
7	Village Dauna	~2.3 Km in NE direction	Near National Highway
8	Radhanagar	~6.5 Km in West direction	Downwind direction and Densely Populated Habitation

Noise Level Monitoring Stations Selected:

S. No.	Monitoring Location	Distance & Direction from Plant site
1	Plant Site	Core Zone
2	Village Phulwariya Khurd	~1.0 Km in West Direction
3	Village Sarua	~1.1 Km in South Direction
4	Village Phulwariya	~0.5 Km in North Direction
5	Village Karjhaunsa	~0.8 Km in East Direction
6	Village Ranghata	~2.0 Km in SE Direction
7	Village Jamkhunt	~1.0 Km in NE direction
8	Village Deshri	~1.3 Km in WNW direction

Surface Water Sampling Stations Selected

S. No.	Sampling Station	Distance & direction from Plant site
1	Hira Nadi	~ 2.0 km in NNW direction
2	Chilkara Nadi	~ 2.5 km in SE direction
3	Darbhasan Nadi	~ 4.5 km in SSW direction
4	Odhani Dam	~ 6.0 km in North direction
5	Odhni Nadi	~ 6.5 km in NNW direction
6	Kharkan Nadi	~ 7.0 km in NNW direction
7	Kanuwajibor Nadi	~ 7.5 km in WSW direction
8	Dakwari Nadi	~ 7.9 km in South direction
9	Kudar Nadi	~ 5.0 km in East direction
10	Kariya Jhor	~ 8.1 km in North direction
11	Mohariya Nadi	~ 5.3 km in NNE direction

Ground Water Sampling Locations Selected

S. No.	Sampling Station	Distance & direction from Plant site
1	Village Karjhaunsa	~1.1 Km in East direction
2	Village Burhighat	~3.9 Km in SSW direction
3	Village Desri	~1.3 km in WNW direction

S. No.	Sampling Station	Distance & direction from Plant site
4	Village Barmasiya	~2.3 Km in South direction
5	Village Gourbaran	~5.8 Km in East direction
6	Village Targachha	~2.1 Km in WSW direction
7	Village Gobardaha	~4.3 Km in ESE direction
8	Village Dhokhri	~2.8 Km in West direction

Soil Sampling Locations Selected

S. No.	Sampling Station	Distance & direction from Plant site
1	Plant Site	Core Zone
2	Village Karjhaunsa	~1.1 Km in East direction
3	Village Burhighat	~3.9 Km in SSW direction
4	Village Desri	~1.3 km in WNW direction
5	Village Barmasiya	~2.3 Km in South direction
6	Village Gourbaran	~5.8 in East direction
7	Village Targachha	~2.1 Km in WSW direction
8	Village Gobardaha	~4.3 Km in ESE direction
9	Village Dhokhri	~2.8 Km in West direction

EIA/EMP Report will cover all the environmental aspects i.e. air pollution, noise pollution, water pollution, land environment and solid waste management etc. in terms of the impacts on the environment due to the proposed activity and the environmental management plan to reduce the impacts.

Structure of EIA will be as follows:

1. Introduction
2. Project Description
3. Description of Environment
4. Anticipated Environmental Impacts & Mitigation Measures
5. Analysis of Alternatives (Technology & Site)
6. Environmental Monitoring Programme
7. Additional Studies
8. Project Benefits
9. Environmental Cost Benefit Analysis
10. Environmental Management Plan
11. Summary & Conclusion
12. Disclosure of Consultants engaged

