

**APPENDIX I  
(See paragraph - 6)  
FORM 1**

**(I) Basic Information**

S.No	Item	Details
1	Name of the project	<b>Nuvoco Vistas Corp.Limited (Formerly Lafarge India Limited) Sonadih Limestone Deposit ,ML-2</b>
2	S. No. in schedule	<b>Category 'A', Project or Activity 1(a) (As per EIA Notification dated 14.09.2006)</b>
3	Proposed capacity / area / length / tonnage to be handled / command area / lease area / number of wells to be drilled	<b>Mining Production: 9,90,113 tons per year Area: 64.815 Hectare</b>
4	New / Expansion / Modernization	<b>New</b>
5	Existing Capacity/Area etc.	<b>Area: 64.815 Hectare</b>
6	Category of Project i.e. 'A' or 'B'	<b>A</b>
7	Does it attract the general condition? If Yes, please specify.	<b>No</b>
7	Does it attract the specific condition? If Yes, please specify.	<b>No</b>
8	Location	<b>Raseda</b>
	Plot/Survey/Khasra No.	<b>Khasra No. 171/1, 173/1, 171/2.</b>
	Village	<b>Raseda</b>
	Tehsil	<b>Baloda Bazar</b>
	District	<b>Baloda Bazar - Bhatapara</b>
	State	<b>Chhattisgarh</b>
9	Nearest railway station/airport along with distance in kms.	<b>Nearest Railway Station is Nipaniya at a distance of approx. 19 km Nearest Airport is Raipur at a distance of approx. 77 km</b>
10	Nearest Town, city, District Headquarters along with distance in kms.	<b>Nearest town is Balodabazar and District Headquarter is Balodabazar-Bhatapara lies at a distance of about 8.5 km.</b>
11	Village Panchayats, Zilla Parishad, Municipal Corporation, Local body (complete postal addresses with telephone nos. to be given)	<b>Tehsil is balodabazar at a distance of 8.5 km (approx.)</b>
12	Name of the applicant	<b>Nuvoco Vistas Corp.Limited (Formerly Lafarge India Limited)</b>

13	Registered Address	<b>Equinox Business Park (Peninsula Techno Park), Tower 3, East Wing, 4<sup>th</sup> Floor, Off Bandra-Kurla Complex, LBS Marg, Kurla-West, Mumbai-400070</b>
14	Address for correspondence:	
	Name	<b>Amit Kumar Roy</b>
	Designation (Owner/Partner/CEO)	<b>VP Geo-mining</b>
	Address	<b>Sonadih Cement Plant Post-Raseda, Tehsil-Balodabazar District Balodabazar- Bhatapara(C.G.)</b>
	Pin Code	<b>493332</b>
	E-mail	<b>amitkumar .roy@nuvoco.in</b>
	Telephone No.	<b>+91-9903084989</b>
	Fax No.	<b>+91-7727-272227</b>
15	Details of Alternative Sites examined, if any. Location of these sites should be shown on a topo sheet.	<b>No other site has been considered for the project</b>
16	Interlinked Projects	<b>No</b>
17	Whether separate application of interlinked project has been submitted?	<b>N.A.</b>
18	If yes, date of submission	<b>N.A.</b>
19	If no, reason	<b>N.A.</b>
20	Whether the proposal involves approval/clearance under: If yes, details of the same and their status to be given, (a) The Forest Conservation) Act, 1980? (b) The wild life (Protection) Act, 1972? c) The C.R.Z. Notification, 1991?	<b>Yes. The proposed lease lies in forest land under bade jhad ka jungle. Application for forest clearance is under process.</b>
21	Whether there is any Government Order/Policy relevant/ relating to the site?	<b>N.A.</b>
22	Forest land involved (hectares)	<b>Yes, Proposed area is 64.815 Ha under (bade jhad ka jungle)</b>
23	Whether there is any litigation pending against the project and/or land in which the project is propose to be set up ? (a) Name of the Court, (b) Case No. (c) Orders/directions of the Court, if any and its relevance with the proposed project.	<b>No</b>

<b>NUVOCO</b>	<b>Application Form-1 for the Environment Clearance of SONADIH LIMESTONE DEPOSIT, ML-2 (area 64.815 Ha), District – Baloda Bazar Bhatapara (Chhattisgarh) Nuvoco Vistas Corp.Limited (Formerly Lafarge India Limited)</b>
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## (II) Activity

**1. Construction, operation or decommissioning of the Project involving actions, which will cause physical changes in the locality (topography, land use, changes in water bodies, etc.)**

<b>S. No.</b>	<b>Information/Checklist confirmation</b>	<b>Yes/ No</b>	<b>Details thereof (with approximate quantities /rates, wherever possible) with source of information data</b>
1.1	Permanent or temporary change in land use, land cover or topography including increase in intensity of land use (with respect to local land use plan)	<b>Yes</b>	<b>The site is proposed for mining in the area. The proposed lease area is covering over an area of 64.815 Hectare at village- Raseda, tehsil- Balodabazar and District- Balodabazar Bhatapara in Chhattisgarh. The proposed lease area lies in forest land (under bade jhad ka jungle). There will be permanent change in land use and topography due to mining (limestone) activity.</b>
1.2	Clearance of existing land, vegetation and buildings?	<b>Yes</b>	<b>Forest Clearance of proposed lease area will be required</b>
1.3	Creation of new land uses?	<b>No</b>	<b>No new land uses other than proposed activity will be created at the site. After the exhaustion of entire mineable limestone, part of mined out pit will be backfilled by generated OB/waste and remaining mined out pit will be converted in to water tank. The water reservoir will be properly fenced by barbed wire or a bund will be constructed outside the water reservoir during the closure of the mine.</b>
1.4	Pre-construction investigations e.g. bore houses, soil testing?	<b>No</b>	<b>No pre construction activity will be undertaken at the site.</b>
1.5	Construction works?	<b>No</b>	<b>It is a mining site and hence no construction work will be taken up.</b>
1.6	Demolition works?	<b>No</b>	<b>NA</b>
1.7	Temporary sites used for construction works or housing of construction workers?	<b>No</b>	<b>NA. Mining activities will be carried out after receiving the necessary clearances from the concerned authorities.</b>
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations	<b>Yes</b>	<b>It's a mining project and excavation will be done</b>
1.9	Underground works including	<b>No</b>	<b>Opencast mechanized mining will be done.</b>

	mining or tunneling?		
1.10	Reclamation works?	<b>Yes</b>	<b>After the exhaustion of entire mineable limestone, part of mined out pit will be backfilled by generated OB/waste and remaining mined out pit will be converted in to water tank. The water reservoir will be properly fenced by barbed wire or a bund will be constructed outside the water reservoir during the closure of the mine.</b>
1.11	Dredging?	<b>No</b>	<b>No dredging activity will be involved.</b>
1.12	Offshore structures?	<b>No</b>	<b>No offshore structures are envisaged in the proposed project.</b>
1.13	Production and manufacturing processes?	<b>Yes</b>	<b>It is a mineral mining project for production of limestone and it will be done using controlled blasting.</b>
1.14	Facilities for storage of goods or materials?	<b>Yes</b>	<b>The OB and waste will be dumped within the lease area in 6.636 Ha with a maximum height of 12.5 m in 3 tiers. These dumps will be covered by deep rooted grass, shrubs and other species and protected by retaining wall &amp; garland drain.</b>

1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	<b>Yes</b>	<p><b>Facilities for treatment or disposal of solid waste:</b> The overburden in the area is consisting of top soil, murrum, yellow soil and clayey material and about 10% of the total ROM will be generated as intercalations. The OB and waste will be dumped within the lease area in 6.636 Ha with a maximum height of 12.5 m in 3 tiers. These dumps will be covered by deep rooted grass, shrubs and other species and protected by retaining wall &amp; garland drain.</p> <p><b>Facilities for treatment and disposal of liquid effluents:</b> The wastewater generated from the domestic front is mainly from toilets. This water is treated in septic tank followed by Soak pit. However, during rainy season, the water collected in mining area will be allowed to settle the suspended solids. Thereafter the pit will be dewatered. It will be ensured that suspended solid matter should be below CPCB/MoEF standards.</p>
1.16	Facilities for long term housing of operational workers?	<b>No</b>	<b>No, there shall not be any facility for long term housing of the labors as all the labors</b>

			<b>will come from the nearby villages.</b>
1.17	New road, rail or sea traffic during construction or operation?	<b>Yes</b>	<b>Haul road will be constructed for mining activities in proposed lease area. Water spraying will be done regularly to minimize generation of air-borne dust during movement of vehicles. For two-way traffic, the haul roads will be preferably be at least 3 times, plus 5 meters, the width of dumpers, thus the width of the road will be maintained at 17 m. An adequate net work of roads will be maintained for transportation of limestone from face to crusher site. For free movement of vehicles (dumpers); it is proposed to have one way traffic on all haul roads.</b>
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc?	<b>Yes</b>	<b>An adequate net work of roads will be maintained for transportation of limestone from face to crusher site. For free movement of vehicles (dumpers), it is proposed to have one way traffic on all haul roads.</b>
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	<b>No</b>	<b>NA</b>
1.20	New or diverted transmission lines or pipelines?	<b>No</b>	<b>NA</b>
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	<b>No</b>	<b>Not envisaged (No river or big nallah lies in the lease area) as well as the mining activities will be confined to above the aquifer level.</b>
1.22	Stream crossings?	<b>No</b>	<b>No stream crossing is involved.</b>
1.23	Abstraction or transfers of water from ground or surface waters?	<b>Yes</b>	<b>The water required for mine will be drawn from Borewell or other secondary sources</b>
1.24	Changes in water bodies or the land surface affecting drainage or run-off?	<b>No</b>	<b>No changes in water bodies and land surface are anticipated since there is no surface drainage existing within mine lease area</b>
1.25	Transport of personnel or materials for construction, operation or decommissioning?	<b>Yes</b>	<b>Transport arrangement will be made for staff coming from distant villages/towns when they commute for work and mined minerals will be transported by trucks.</b>
1.26	Long-term dismantling or decommissioning or restoration works?	<b>Yes</b>	<b>At the end of the life of the mine it is proposed that the mined out pit will be converted in to water reservoir</b>
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	<b>Yes</b>	<b>As mentioned in Para 1.26</b>
1.28	Influx of people to an area in either temporarily or permanently?	<b>Yes</b>	<b>Locals would be preferred. This would have a positive impact on the socio economic status of the people. Indirect employment opportunities</b>

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			<b>would also be generated in the area from the existing mine site.</b>
1.29	Introduction of alien species?	<b>No</b>	<b>NA</b>
1.30	Loss of native species or genetic diversity?	<b>No</b>	<b>As a part of green belt development plan native species that are suitable to that soil condition will be planted.</b>
1.31	Any other actions?	<b>No</b>	<b>Nil</b>

**2. Use of Natural resources for construction or operation of the Project (such as land, water, materials or energy, especially any resources which are non-renewable or in short supply):**

S. No.	Information/checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
2.1	Land especially undeveloped or agricultural land (ha)	Yes	It is undeveloped land under bade jhad ka jungle and proposed for mining in area. Area: 64.815 Ha
2.2	Water (expected source & competing users) unit: KLD	Yes	About 20KL/day of water will be required for mining operations including drinking, dust suppression along haul road/faces, cleaning, washing as well as plantation.  Drilling & Dust Supression: 10 KLPD Plantation: 5 KLPD Drinking/Domestic: 3 KLPD Miscellaneous: 2 KLPD
2.3	Minerals (MT)	No	No minerals will be used for mining purpose. It is a limestone mining project.
2.4	Construction material – stone, aggregates, sand / soil (expected source – MT)	No	NA
2.5	Forests and timber (source – MT)	No	NA
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)	Yes	Diesel would be used for mining operations which will be procured from nearby petrol/diesel outlet created by IOCL/HP
2.7	Any other natural resources (use appropriate standard units)	No	NA



**3. Use, storage, transport, handling or production of substances or materials, which could be harmful to human health or the environment or raise concerns about actual or perceived risks to human health.**

<b>S. No.</b>	<b>Information/Checklist confirmation</b>	<b>Yes/ No</b>	<b>Details thereof (with approximate quantities/rates, wherever possible) with source of information data</b>
3.1	Use of substances or materials, which are hazardous (as per MSIHC rules) to human health or the environment (flora, fauna, and water supplies)	Yes	The blasting will be done by ANFO/ SME/ Slurry as column charge and slurry/cast booster explosive as booster charge. Controlled blasting will be practiced by using Nonel detonators.
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	No effect envisaged
3.3	Affect the welfare of people e.g. by changing living conditions?	Yes	Standard of living of population surrounding the project area is likely to be improved
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.,	No	No effect envisaged
3.5	Any other causes	Nil	Nil

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**4. Production of solid wastes during construction or operation or decommissioning (MT/month)**

<b>S. No.</b>	<b>Information/Checklist confirmation</b>	<b>Yes/ No</b>	<b>Details thereof(with approximate quantities/rates, wherever possible) with source of information data</b>
4.1	Soil, overburden or mine wastes	Yes	<p>The overburden in the area is consisting of top soil, murrum, yellow soil and clayey material and about 10% of the total ROM will be generated as intercalations. About 6,03,235 cum total overburden will be generated inclusive of soil.</p> <p>Top soil: The thickness of fertile top soil will be 0.5 m only, this will be stacked separately and utilized for plantation, for this about 0.5 Ha area will be marked.</p> <p>OB/waste: During the first five years, the OB/waste will be temporary dumped on the northeastern side of the Block -A.</p> <p>The OB and waste will be dumped within the lease area in 66,364 sqm or say 66,360 sqm (6.636 Ha) with 3 tiers.</p>
4.2	Municipal waste (domestic and/or commercial wastes)	Yes	Domestic waste will be generated mainly from toilets. This will be treated in septic tank followed by Soak pit
4.3	Hazardous wastes (As per Hazardous Waste Management Rules)	No	None
4.4	Other industrial process wastes	No	Not Applicable



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4.5	Surplus product	<b>No</b>	<b>Not Applicable</b>
4.6	Sewage sludge or other sludge from effluent treatment	<b>No</b>	<b>Not Applicable</b>
4.7	Construction or demolition wastes	<b>No</b>	<b>Not Applicable</b>
4.8	Redundant machinery or equipment	<b>No</b>	<b>None</b>
4.9	Contaminated soils or other materials	<b>No</b>	<b>None</b>
4.10	Agricultural wastes	<b>No</b>	<b>None</b>
4.11	Other solid wastes	<b>Yes</b>	<b>The OB and waste will be generated and it will be dumped within the lease area in 66,364 sqm or say 66,360 sqm (6.636 Ha) with 3 tiers.</b>

**5. Release of pollutants or any hazardous, toxic or noxious substances to air (Kg/hr)**

S. No.	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
5.1	Emissions from combustion of fossil fuels from stationary or mobile sources	Yes	No combustion of fossil fuel is required during mining operation. However, the emission of SO <sub>x</sub> and NO <sub>x</sub> may be due to use of diesel operated Excavator, Dumper/Tipper etc. The better maintenance of equipment will help to reduce such emissions and maintain below permissible limit. The vehicle used will have PUC certificate.
5.2	Emissions from production processes	Yes	Major impact from mining operation is envisaged in PM <sub>10</sub> and PM <sub>2.5</sub> .
5.3	Emissions from materials handling including storage or transport	Yes	There will be some fugitive emission during loading and transport of material. The fugitive emission during loading and transportation on haul road will be suppressed by water spray. The emission of SO <sub>x</sub> and NO <sub>x</sub> may be due to use of diesel- operated Excavator / Dumper/ Truck etc. The better maintenance of equipment will help to reduce such emissions and maintain their level below permissible limit and all the trucks will have valid PUC certificate.
5.4	Emissions from construction activities including plant and equipment	No	Nil



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5.5	Dust or odors from handling of materials including construction materials, sewage and waste	<b>Yes</b>	<b>Dust will be generated during drilling, blasting and loading. Dust suppression will be done by sprinkling of water.</b>
5.6	Emissions from incineration of waste	<b>No</b>	<b>Not applicable</b>
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	<b>No</b>	<b>Not applicable</b>
5.8	Emission from any Other sources	<b>No</b>	<b>Nil</b>

**6. Generation of Noise and Vibration, and Emissions of Light and Heat:**

S. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data with source of information data
6.1	From operation of equipment e.g. engines, ventilation plant, crushers	Yes	There is likelihood of some increase in noise level due to operation of machinery like excavators and dumpers that generate high noise level at source in the ranges of 80-90 dBA. However persons working just close to machines will be provided with ear plugs/ear muffs for further protection and proper maintenance of machines will be carried out periodically. Crusher do not lie within the proposed lease area. Vibrations due to blasting will be reduced by use of controlled blasting technique.
6.2	From industrial or similar processes	No	Not applicable
6.3	From construction or demolition	No	Not Applicable
6.4	From blasting or piling	Yes	Blasting will be done for the mining of limestone, which may generate some noise. Controlled blasting technique will reduce the noise and vibration to considerable extent and no blasting will be done during night hours.
6.5	From construction or operational traffic	Yes	During vehicular movement, the noise is likely to be in the range of 50-55 dBA which is intermittent/slow process. All the vehicles will have proper silencers installed in good condition.
6.6	From lighting or cooling systems	No	Not applicable
6.7	From any other sources	No	Not applicable

**7.Risks of contamination of land or water from releases of pollutants into the ground or into sewers, surface waters, groundwater, coastal waters or the sea:**

S. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
7.1	From handling, storage, use or spillage of hazardous materials	No	Not applicable
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	No	Not applicable
7.3	By deposition of pollutants emitted to air into the land or into water	No	<b>The dust generated will be suppressed by sprinkling of water. The emission of SO<sub>x</sub> and NO<sub>x</sub> may be due to use of diesel operated Excavator/ Dumper/ Truck etc. The better maintenance of equipments will help to reduce such emissions and maintain their level within permissible limit. The fugitive emission on haul road will be suppressed by water spray. Impact referred above is localized, transitory and intermittent in nature and hence their effect on environment will not be significant.</b>
7.4	From any other sources	No	Not applicable
7.5	Is there a risk of long term build up of pollutants in the environment from these sources?	No	<b>Impact of air quality is localized, transitory and intermittent in nature.</b>

**8.Risk of accidents during construction or operation of the Project, which could affect human health or the environment**

<b>S. No.</b>	<b>Information / Checklist confirmation</b>	<b>Yes / No</b>	<b>Details thereof (with approximate quantities / rates, wherever possible) with source of information data</b>
8.1	From explosions, spillages, fires etc from storage, handling, use or production of hazardous substances	<b>Yes</b>	<b>The blasting will be carried out in controlled manner by competent person having certification, area barricading and deputing guards all along the periphery to watch that no person/animals enters into the mining area during controlled blasting.</b>
8.2	From any other causes	<b>No</b>	<b>Not applicable</b>
8.3	Could the project be affected by natural disasters causing environmental damage (e.g floods, earthquakes, landslides, cloudburst etc)?	<b>No</b>	<b>No significant impact is envisaged during natural disaster as the area is open and easily approachable by roads. Also it is an open cast mining limited to a small depth.</b>



**9.Factors which should be considered (such as consequential development) which could lead to environmental effects or the potential for cumulative impacts with other existing or planned activities in the locality**


S. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities / rates, wherever possible) with source of information data
9.1	Lead to development of supporting utilities, ancillary development or development stimulated by the project which could have impact on the environment e.g.: <ul style="list-style-type: none"> <li>Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.)</li> <li>Housing development</li> <li>Extractive industries</li> <li>Supply industries</li> <li>Other</li> </ul>	No	Not envisaged
9.2	Lead to after-use of the site, which could have an impact on the environment	Yes	At the end of the mine; after the exhaustion of entire mineable limestone, part of mined out pit will be backfilled by generated OB/waste and remaining mined out pit will be converted in to water tank. The water reservoir will be properly fenced by barbed wire or a bund will be constructed outside the water reservoir during the closure of the mine.
9.3	Set a precedent for later developments	Yes	A better after use scenario which is likely to increase aesthetic beauty of area in addition to benefit of better water regime & greenery would set a precedence for subsequent entrepreneurs who venture such projects
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	Yes	The area contains limestone a deposit, so similar mining activities is being carried out. This projects/mining will create ponds/water bodies which will be beneficial for tree plantation and pisciculture. Hence a better planned and executed project will yield a better result individually; which in turn will give better cumulative effect also.

### III. Environmental Sensitivity

S. No.	Areas	Name / Identity	Aerial distance (within 15 km.) Proposed project location boundary
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	No	NIL
2	Areas which are important or sensitive for ecological reasons -Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	No	Shivnath river lies within the study area at a distance of about 2.0 km from the lease area. Canal lies at a distance of about 180 meter from the lease area. Mohatara RF lies at a distance of 1.8 km Sonbarsa RF lies at a distance of 3.2 km Latwa RF lies at adistance of 5.3 km The proposed lease area lies in forest land (under bade jhad ka jungle)
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	NIL
4	Inland, coastal, marine or underground waters	No	NIL
5	State, National boundaries	No	State and National Boundaries do not lie within the study area
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	No	NIL
7	Defense installations	No	NIL
8	Densely populated or built-up area	Yes	Village Raseda lies at a distance of approx 950 meters and Tehsil – Balodabazar is at a distance of about 8.5 km (approx).
9	Areas occupied by sensitive man- made land uses( <i>hospitals, schools, places of worship, community facilities</i> )	Yes	School lies at a distance of about 0.98 km (980 meter) at Raseda and hospital also lies at a distance of about 1 km atRaseda
10	Areas containing important, high quality or scarce resources ( <i>ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals</i> )	No	NIL

11	Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards are exceeded)	No	NIL
12	Areas susceptible to natural hazard which could cause the project to present environmental problems (earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions)	No	NIL

"I hereby give under taking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be revoked at our risk and cost.

Signature of the Applicant (Project proponent/ Authorized signatory)	
Name	Ramesh Warke
Designation	Senior Vice President
Address	Sonadih Cement Plant Post - Raseda, Tehsil - Balodabazar Dist . Balodabazar- Bhatapra , CG 493 332

❖ **Proposed Terms of Reference for EIA**

**studies BASELINE DATA COLLECTION:**

**AMBIENT AIR QUALITY**

- ✓ BASELINE DATA WILL BE COLLECTED FROM THE PROPOSED SITE.
- ✓ A STUDY AREA OF 10 KM RADIUS HAS BEEN CHOSEN.
- ✓ 5 NOS. OF SAMPLING STATIONS HAVE BEEN CHOSEN BASED ON PREDOMINANT WIND DIRECTION, UPWIND DIRECTION, CROSS WIND DIRECTION, RURAL AREA REPRESENTATION AND URBAN AREA REPRESENTATION
- ✓ PARAMETERS MONITORED ARE RPM, SPM, SO<sub>2</sub>, NO<sub>x</sub>
- ✓ FREQUENCY OF MONITORING 2 DAYS A WEEK FOR 3 MONTHS AFTER MONSOON SEASON

**WATER QUALITY**

- ✓ GROUND WATER QUALITY WILL BE MONITORED AT 5 LOCATIONS WITHIN THE STUDY AREA
- ✓ GROUND WATER QUALITY WILL BE MONITORED FOR PARAMETERS AS PER IS: 10500
- ✓ SURFACE WATER QUALITY WILL BE MONITORED AT ONE LOCATION AND ANALYZED FOR VARIOUS PARAMETERS.

**NOISE LEVELS**

- ✓ NOISE LEVELS WILL BE MONITORED (DAY TIME & NIGHT TIME) AT 10 LOCATIONS WITHIN THE STUDY AREA.

**MICRO METEOROLOGICAL DATA**

WIND DIRECTION, WIND SPEED, TEMPERATURE, RELATIVE HUMIDITY AND RAINFALL, CLOUD COVER WILL BE MONITORED ON HOURLY BASIS FOR ONE SEASON.

**SOCIO-ECONOMIC DETAILS**

- ✓ SOCIO ECONOMIC DETAILS OF PEOPLE IN THE STUDY AREA WILL BE COLLECTED.

**FLORA & FAUNA**

- ✓ LIST OF FLORA & FAUNA IN THE STUDY AREA WILL BE COLLECTED.

**PREDICTION OF IMPACTS**

- ✓ PREDICTION OF GLC'S OR SPM, SO<sub>2</sub> & NO<sub>x</sub>, USING AIR QUALITY MODEL
- ✓ FINDING OUT THE NET RESULTANT GLC'S BY SUPERIMPOSING PREDICTED INCREMENTAL RISE IN CONCENTRATIONS OVER THE BASELINE CONCENTRATIONS AND COMPARING THEM WITH NATIONAL AMBIENT AIR QUALITY STANDARDS.
- ✓ PREDICTION OF IMPACTS ON WATER ENVIRONMENT, LAND ENVIRONMENT, NOISE ENVIRONMENT, FLORA & FAUNA, SOCIO-ECONOMIC ENVIRONMENT



**Application Form-1 for the Environment Clearance of  
SONADIH LIMESTONE DEPOSIT, ML-2 (area 64.815 Ha),  
District – Baloda Bazar Bhatapara (Chhattisgarh)  
Nuvoco Vistas Corp.Limited (Formerly Lafarge India Limited)**

**ENVIRONMENTAL IMPACT STATEMENT**

- ✓ PREPARATION ENVIRONMENT IMPACT STATEMENT COMPRISING OF AIR ENVIRONMENT , WATER ENVIRONMENT , LAND ENVIRONMENT, NOISE ENVIRONMENT , FLORA & FAUNA , SOCIO ECONOMIC ENVIRONMENT.

**ENVIRONMENT MANAGEMENT PLAN**

- ✓ AIR EMISSION MANAGEMENT INCLUDING THE CONTROL OF SECONDARY FUGITIVE EMISSIONS
- ✓ EFFLUENT TREATMENT & DISPOSAL
- ✓ SOLID WASTE GENERATION , STORAGE & DISPOSAL
- ✓ GREEN BELT DEVELOPMENT PLAN
- ✓ RAINWATER HARVESTING
- ✓ POST PROJECT ENVIRONMENTAL MONITORING

**YOUR'S FAITHFULLY  
FOR NUVOCO VISTAS CORP. LIMITED**

**AUTHORISED SIGNATORY**