

**FORM - 1**

**i. Basic Information**

Sl.	Item	Details
1	Name of the project/s	Proposed Group Housing Project “ <b>One World Belvedere-I</b> ” located inside integrated Township “ <b>One World</b> ” at Village-Baghamau, Distt.-Lucknow (U.P)
2	S.No. In the schedule	<b>Category B, Activity 8 (a)</b>
3	Proposed capacity/area/length/tonnage to be handled/command area/lease area/number of wells to be drilled	Total Project area – 0.90 ha (2.258 Acre)
4	New/Expansion/Modernization	New
5	Existing Capacity/Area etc.	Nil
6	Category of Project i.e. ‘A’ or ‘B’	Item 8, Category B (Building and Large Construction)
7	Does it attract the general condition? If yes, please specify.	No
8	Does it attract the specific condition? If yes, please specify.	No.
9	Location	Integrated Township “One World”
	Plot/Survey/Khasra No.	347,361,395&436 KA
	Village	Baghamau
	Tehsil	
	District	Distt-Lucknow
	State	U.P.
10	Nearest railway station/airport along with distance in kms.	Malhaur Railway Station 3.5 km Charbagh Railway Station -11 km and Amausi International Airport-16 km
11	Nearest town, city, district headquarters along with distance in kms.	Nearest City Barabanki - 18 km Mohanlalganj - 16 km Raebareilly - 70 km Sitapur - 88 km
12	Village Panchayats, Zilla Parishad, Muncipal corporation, Local body (complete postal addresses with telephone nos. to be given)	Lucknow Development Authority Gomti Nagar, Lucknow, UP
13	Name of the applicant	M/s Shalimar Lakecity Pvt. Ltd.
14	Registered address	11th Floor, Titanium, Shalimar Corporate Park, Vibhuti Khand, Gomti Nagar, Lucknow, Uttar Pradesh 226010
15	Address for correspondence	11th Floor, Titanium, Shalimar Corporate Park, Vibhuti Khand, Gomti Nagar, Lucknow, Uttar Pradesh 226010

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Sl.	Item	Details
	<b>Name</b>	Mr Anwar Rizvi
	<b>Designation (Owner/Partner/CEO)</b>	Director
	<b>Address</b>	302, 3 <sup>rd</sup> Floor, Shalimar Square, BN Road, Lalbagh, Lucknow
	<b>Pin Code</b>	226001
	<b>E-mail</b>	-
	<b>Telephone No.</b>	-
	<b>Fax no.</b>	
16	<b>Details of Alternative sites examined, if any. Location of these sites should be shown on a topo sheet.</b>	No site alternatives are under consideration.
17	<b>Interlinked projects</b>	Integrated township “ <b>One World</b> ” at village – Baghamau, Lucknow, U.P.
18	<b>Whether separate application of interlinked project has been submitted?</b>	Environment clearance for this township project has already been issued vide letter no. <b>2003/Parya/SEAC/1665/2013/TA (J) dated 22/10/2013</b> and application for expansion of the project has been appraised by EAC and recommended for Environmental clearance.
19	<b>If yes, date of submission</b>	N.A.
20	<b>If no, reason</b>	N.A.
21	<b>Whether the proposal involves approval/clearance under: If yes, details of the same and their status to be given.</b> (a) <b>The forest (conservation) Act, 1980?</b> (b) <b>The wildlife (protection) Act, 1972?</b> (c) <b>The C.R.Z. Notification, 1991?</b>	No No No
22	<b>Whether there is any Government order/ Policy relevant/ relating to the site?</b>	The project lies in the residential zone of proposed Master Plan of Lucknow 2021. Master Plan Lucknow, 2021 is enclosed as <b>Annexure – I</b> .
23	<b>Forest land involved (hectares)</b>	No
24	<b>Whether there is any litigation pending against the project and/or land in which the project is propose to be set up?</b> (a) <b>Name of the court</b> (b) <b>Case No.</b> (c) <b>Orders/directions of the court, if any and its relevance with the proposed project.</b>	Nil

**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.)**

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data																					
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)	No	The proposed Project envisages the construction of new group housing project “ <b>One world Belvedere-I</b> ” on vacant plot of land earmarked for Residential use inside Integrated Township “ <b>One World</b> ” as per proposed Master Plan of Lucknow, 2021. Hence proposed project does not anticipate any permanent or temporary change in land use, land cover or topography of the area.																					
1.2	Clearance of existing land, vegetation and buildings.	No	This Project is a part of Integrated Township which is under construction and clearing of land has already been done. Plots of group housing has already been earmarked, no further land clearing is required.																					
1.3	Creation of new land uses?	No	No new land use will be created. Site will be developed as per Master Plan of Lucknow Development Authority & Local Building byelaws.																					
1.4	Pre-construction investigations e.g. bore holes, soil testing?	Yes	Soil Investigation has been carried out through bore holes and soil tests.																					
1.5	Construction works?	Yes	<p>All construction activities will be confined within project area. There will be no physical changes outside the project boundary. Construction of proposed project will be done as per applicable norms/byelaws.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">S.no.</th> <th style="text-align: center;">Description</th> <th style="text-align: center;">Area in sqm.</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>Plot Area</td> <td style="text-align: right;">9139.60</td> </tr> <tr> <td style="text-align: center;">2.</td> <td>Permissible Ground Coverage</td> <td style="text-align: right;">3198.86</td> </tr> <tr> <td style="text-align: center;">3.</td> <td>Achieved Ground Coverage</td> <td style="text-align: right;">2126.02</td> </tr> <tr> <td style="text-align: center;">4.</td> <td>Permissible FAR(2.50 )</td> <td style="text-align: right;">22849.00</td> </tr> <tr> <td style="text-align: center;">5.</td> <td><b>Achieved FAR (2.49)</b></td> <td style="text-align: right;"><b>22754.18</b></td> </tr> <tr> <td style="text-align: center;">6.</td> <td>Open Area(Plot Area- Ground Coverage) (9139.60-2126.02)</td> <td style="text-align: right;">7013.58</td> </tr> </tbody> </table>	S.no.	Description	Area in sqm.	1.	Plot Area	9139.60	2.	Permissible Ground Coverage	3198.86	3.	Achieved Ground Coverage	2126.02	4.	Permissible FAR(2.50 )	22849.00	5.	<b>Achieved FAR (2.49)</b>	<b>22754.18</b>	6.	Open Area(Plot Area- Ground Coverage) (9139.60-2126.02)	7013.58
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S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data																														
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1.6	Demolition works?	No	Not required																														
1.7	Temporary sites used for construction works or housing of construction workers?	No	All the constructions activities including storage of raw materials will be confined within the project site only. Temporary sheds shall be constructed as per requirement for the construction workers which will be dismantled after construction phase.																														
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations.	Yes	This is a Building & Large construction Project which includes erection of structures like water storage tank, piping, electric substations, temporary site offices, maintenance workshop facilities & other infrastructures to support all these activities. Entire excavated quantity will be used at site for development of landscape, road construction, backfilling and filling of low-lying area.																														
1.9	Underground tunneling? works including mining or	No	No underground work.																														
1.10	Reclamation works?	No	No reclamation work.																														
1.11	Dredging?	No	No dredging required.																														
1.12	Offshore structures?	No	No off shore structures.																														
1.13	Production and manufacturing processes?	No	No production / manufacturing process is involved. RMC will be used for construction.																														

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1.14	Facilities for storage of goods or materials?	Yes	<p><b>Construction Phase:</b> Separate raw material storage yard will be made. Cement will be separately stored under cover in bales. Sand will be stacked neatly under tarpaulin cover. Bricks and steel will be laid in open.</p> <p><b>Operation Phase:</b> Not required except for common cleaning and maintenance equipment and material.</p>
1.15	Facilities for treatment of disposal of solid waste or liquid effluents?		<p><b>Construction Phase:</b> Construction activities causes generation of debris, brick bats, plaster falls, battered stone mixture, aggregate leftovers, sand leftovers, empty cement bags, cartons, etc. Most of the construction waste generated will be reused in road construction and filling.</p> <p><b>Quantity of Solid Waste: Operation Phase</b> Domestic Waste: 298 kg/Day Horticulture Waste: 5.31 Kg/Day E- waste : &lt;1kg/day</p> <p>Solid wastes likely to be generated in the project are of domestic in nature. It will be collected from designated locations and segregated into inorganic and organic wastes as far as possible. Municipal solid waste including garden litter will be collected at earmarked garbage collection centre. Biodegradable waste will be processed in on site organic waste converters for manure production and rest non bio-degradable waste/recyclable waste will be picked by the hired agency. All the solid waste generated during construction and operational phase will be treated and disposed as per Solid Waste Management Rules 2016.</p> <p><b>Liquid Effluent:</b></p> <p><b>Construction Phase:</b> Sewage generated during construction phase will be managed through septic tank with soak pits.</p> <p><b>Operation Phase:</b> The total wastewater in operation phase will be 45 KLD. CSTP 2 of capacity 2500 KLD of One World based on <b>SAFF (Submerged Aerobic Fixed Film Reactor)</b> technology will be set up to get 20 KLD tertiary treated recycled water for low end uses including flushing and Horticulture.</p>

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1.16	Facilities for long term housing of operational Workers?	Yes	Temporary labour camps provided with in the project area. All the facilities i.e. Drinking water, sanitation, fuel and electricity will be provided inside the camp area.
1.17	New road, rail or sea traffic during construction or operation?	No	Internal roads within the project area will be developed and main access road is nearby to provide access to the main city and highway.
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc?	No	Not required as the site is in well-developed region.
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	No	-
1.20	New or diverted transmission lines or pipelines?	No	There will be no shifting of transmission lines.
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	No	No impounding, damming, culverting, realignment or other changes to the hydrology of surface watercourses is proposed.
1.22	Stream crossings?	No	Not required.
1.23	Abstraction or transfers of water from ground or surface waters?	Yes	<b>Construction Phase:</b> During the construction stage, water will be sourced primarily through tankers arranged by the contractor. <b>Operational Phase:</b> Water will be drawn from the existing tube wells located in the project site. Water from these tube-wells shall be supplied only after primary treatment comprising of filtration and softening. Water Balance diagram and water requirement calculation are in Form 1A.
1.24	Changes in water bodies or the land surface affecting drainage or run-off?	No	Since this is a Building & Large Construction project, the land surface will be changed. Paved area will increase thereby increasing the runoff during rains. There will be no alteration of natural drainage system. Provisions as per EMP shall be kept to capture this runoff and harvest the rain water from the project area. Well planned storm water drainage system has been designed for internal storm

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			water drainage
1.25	Transport of personnel or materials for construction, operation or decommissioning?	Yes	<p><b>Construction:</b></p> <p>There will be movement of personnel, materials and machineries during the construction phase. The impact due to the same will be negligible as local people will be deployed and the construction material and machinery required will be mobilized from the local vendors. Thus, there will be contribution of marginal noise &amp; vehicular emissions which will be mitigated by implementation of effective EMP.</p> <p><b>Post Construction:</b></p> <p>After commissioning, there will be transportation of personnel and materials in and out of the project regularly. Parking provisions as per norms will be provided during operational phase. Well planned &amp; design roads have been provided in the township.</p>
1.26	Long-term dismantling or decommissioning or restoration works?	No	Not applicable
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	No	Not applicable
1.28	Influx of people to an area in either temporarily or permanently?	Yes	<p>During the construction phase, majority of workers will be hired locally and temporarily hence there will be no major influx of people during construction phase of project. During operational phase permanent population will come to reside for which all amenities and supporting infrastructure is proposed to accommodate this influx of personnel.</p>
1.29	Introduction of alien species?	No	Indigenous and Native species will be planted.
1.30	Loss of native species or genetic diversity?	No	No loss of native species or genetic diversity is envisaged.
1.31	Any other actions?	No	No

**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):**

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2.1	Land especially undeveloped or agricultural land (ha)		This is a Building and large construction Project on vacant plot of land earmarked for Integrated Township Development as per proposed Master Plan of Lucknow, 2021. This is a group housing Project located inside an integrated township “ <b>One World</b> ”.														
2.2	Water (expected source & competing users) unit:		<table border="1"> <thead> <tr> <th colspan="2">Water/Waste Water Details</th> </tr> </thead> <tbody> <tr> <td>Fresh Water for domestic uses</td> <td>37 KLD</td> </tr> <tr> <td>Flushing</td> <td>13 KLD</td> </tr> <tr> <td>Horticulture / Landscape</td> <td>7 KLD</td> </tr> <tr> <td>Total Water Requirement</td> <td>57 KLD</td> </tr> <tr> <td colspan="2">Source of water - Ground Water Supply</td> </tr> <tr> <td colspan="2"><b>Waste water:</b> 45KLD , which will be treated in CSTP 2 of “<b>One World</b>” an integrated Township having capacity of 2500 KLD</td> </tr> </tbody> </table>	Water/Waste Water Details		Fresh Water for domestic uses	37 KLD	Flushing	13 KLD	Horticulture / Landscape	7 KLD	Total Water Requirement	57 KLD	Source of water - Ground Water Supply		<b>Waste water:</b> 45KLD , which will be treated in CSTP 2 of “ <b>One World</b> ” an integrated Township having capacity of 2500 KLD	
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2.3	Minerals (MT)	Yes	Bricks, aggregate sand and murram will be required for the construction and development works. These will be purchased from various vendors.														
2.4	Construction material – stone aggregates and / soil (expected source – MT)		Stone, aggregate, sand, cement and steel will be required for the construction and development works. These will be purchased from various vendors.														
2.5	Forests and timber (source MT)	Yes	Small quantity of timber will be required and sourced from authorized vendors.														
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)		<b>Power Requirement:</b> - 975 KW <b>Source:</b> U.P Power corporation Ltd. Backup power supply is planned for the project through DG Set with capacity of 250 KVA (silent type with anti-vibration pads).														
2.7	Any other natural resources (use appropriate standard units)	No	Not required														

**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.**

S.No.	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
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)	No	No storage of hazardous chemicals (as per MSIHC rules) will be done, except HSD (low sulphur variety) required to run standby DG set. Also, the quantity stored will be below the threshold limit specified in the MSIHC rules. Cooking gas will be used for cooking in kitchen by residents.



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			<p>Suitable management practice for Handling, Storage and Disposal will be adopted for the same.</p> <p>During construction paints, solvents, thinner, oil and lubricants will be stored for use which is hazardous to health. Suitable management practice will be adopted for the same.</p>
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	<p>Suitable drainage and waste management measures will be adopted in both construction and operational phase, which will restrict stagnation of water or accumulation of waste. This will effectively restrict the reproduction and growth of disease vectors.</p>
3.3	Affect the welfare of people e.g. by changing living conditions?	Yes	<p>Use, storage, transport, handling or production of any harmful product is not envisaged from the proposed project. Thus, no major adverse impacts on the human health/environment are envisaged.</p> <p>Local workers will be employed during construction of the project and the project has beneficial impacts. Socioeconomic standards and Public welfare will improve. It will create a more interactive environment for living, leisure and recreation.</p>
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.,	No	<p>This is Building and Large Construction Project, so no adverse impact will be anticipated by this project.</p>
3.5	Any other causes	No	Not applicable

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

S.No	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
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4.1	Spoil, overburden or mine wastes	No	<p>It is estimated that approximately 20000 m<sup>3</sup> of earth material will be excavated during initial construction phase for foundations, basement. 80-90 % shall be reutilized into backfilling and leveling.</p> <p>The top soil excavated during construction will be temporarily stored in an area earmarked and then shall be used for landscape/horticulture development and surplus soil (if any) will be transported to the designated disposal site in tune with the local norms.</p>
4.2	Municipal Waste (domestic and or commercial wastes)	Yes	<p>Domestic Waste: 298 kg/Day Horticulture Waste: 5.31 Kg/Day E- waste : &lt;1kg/day</p> <p>Solid wastes likely to be generated in the project are of domestic in nature. It will be collected from designated locations and segregated into inorganic and organic wastes as far as possible.</p> <p>Municipal solid waste including garden litter will be collected at earmarked garbage collection centre.</p> <p>Biodegradable waste will be processed in on site organic waste converters for manure production and rest non bio-degradable waste/recyclable waste will be picked by the hired agency.</p> <p>All the solid waste generated during construction and operational phase will be treated and disposed as per Solid Waste Management Rules 2016.</p>

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4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	Yes	The only hazardous waste in the project will be used/spent oil from standby DG set, which is classified as hazardous waste category 5.1 as per Hazardous & Other Wastes (Management & Transboundary Movements) Rules, 2016. The spent oil will be carefully stored in HDPE drums under isolated storages, and periodically sold to authorize recyclers. All precautions will be taken to avoid spillage from the storage. The disposal of e-waste from proposed project shall be done as per the three R’s rule of reduce, reuse and recycle. CPCB has a list of authorized vendors for e-waste management. A suitable vendor will be opted for disposal of e waste.
4.4	Other industrial process wastes	No	Not applicable
4.5	Surplus product	No	Not applicable
4.6	Sewage sludge or other sludge from effluent treatment	No	There will be no sludge as such as the sewage is disposed in CSTP 2 of the Township.

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4.7	Construction or demolition wastes	Yes	<p>It is estimated that approximately 20000 m<sup>3</sup> of earth material will be excavated during initial construction phase for foundations, basement. 80-90 % shall be reutilized into backfilling and leveling.</p> <p>The soil excavated during construction will be first temporarily stored in an area earmarked and then shall be used for landscaping and road construction and surplus soil (if any) will be transported to the designated disposal site in tune with the local norms.</p> <p align="center"><b>Quantification of construction waste material</b></p> <table border="1"> <thead> <tr> <th>Construction waste material</th> <th>Total construction waste generated @ 40 Kg/sq.m of builtup area (29909.58)</th> <th>(MT)</th> </tr> </thead> <tbody> <tr> <td></td> <td align="center"><b>=1197.33 MT</b></td> <td></td> </tr> <tr> <td><b>Soil, Sand &amp; Gravel</b></td> <td align="center">0.35</td> <td align="center">418.73</td> </tr> <tr> <td><b>Bricks &amp; Masonry</b></td> <td align="center">0.3</td> <td align="center">358.91</td> </tr> <tr> <td><b>Concrete</b></td> <td align="center">0.25</td> <td align="center">299.09</td> </tr> <tr> <td><b>Metal</b></td> <td align="center">0.05</td> <td align="center">59.82</td> </tr> <tr> <td><b>Bitumen</b></td> <td align="center">0.0204</td> <td align="center">24.41</td> </tr> <tr> <td><b>Wood</b></td> <td align="center">0.0204</td> <td align="center">24.41</td> </tr> <tr> <td><b>Other</b></td> <td align="center">0.01</td> <td align="center">11.96</td> </tr> </tbody> </table> <p align="right"><i>Source: TIFAC</i></p>	Construction waste material	Total construction waste generated @ 40 Kg/sq.m of builtup area (29909.58)	(MT)		<b>=1197.33 MT</b>		<b>Soil, Sand &amp; Gravel</b>	0.35	418.73	<b>Bricks &amp; Masonry</b>	0.3	358.91	<b>Concrete</b>	0.25	299.09	<b>Metal</b>	0.05	59.82	<b>Bitumen</b>	0.0204	24.41	<b>Wood</b>	0.0204	24.41	<b>Other</b>	0.01	11.96
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<b>Soil, Sand &amp; Gravel</b>	0.35	418.73																												
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<b>Concrete</b>	0.25	299.09																												
<b>Metal</b>	0.05	59.82																												
<b>Bitumen</b>	0.0204	24.41																												
<b>Wood</b>	0.0204	24.41																												
<b>Other</b>	0.01	11.96																												
4.8	Redundant machinery or equipment	No	There will be no generation of redundant machinery or equipment for disposal.																											
4.9	Contaminated soils or other materials	No	Proper care will be taken to avoid contamination of soil and if oil spillage found, it will be scrapped and disposed as per the norms.																											

S.No	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
4.10	Agricultural wastes	Yes	5.31kg/day Horticulture waste will be generated during operation phase, which includes cutting, trimmings, dry leaves & grasses etc. Garden waste including biodegradable waste will be transported to the composting site for bio-composting.
4.11	Other solid wastes	No	Not applicable

**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	During construction, emissions will be generated from vehicles, construction machineries and D.G. set. During operational phase, D.G. set emissions and vehicular emissions will be there. DG set will be installed with stack height as per CPCB norms. Vehicles will be maintained properly resulting in negligible emission of pollutant.
5.2	Emissions from production processes	No	Not applicable
5.3	Emissions from materials handling including storage or transport	Yes	The emission expected from construction phase will be dust arising from material handling and vehicular emission from transport vehicles. These include the emissions due to idling of the vehicles, during loading and unloading activities. <b>Management:</b> Construction waste will be reutilized within the site itself to reduce the emissions during transportation. Further, idling of the vehicles will be reduced to the extent possible and PUC certified vehicles will be used. Water sprinkling will be carried out regularly at construction and camp sites. Vehicles delivering construction materials will always be covered with tarpaulin cover to avoid spillage of construction materials.
5.4	Emissions from construction activities including plant and equipment	Yes	The dust emission sources during construction phase will be: <ul style="list-style-type: none"> <li>• Haul-road movements</li> <li>• Construction</li> <li>• Material Handling</li> <li>• Finishing</li> </ul> Emissions factors for construction equipment are

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			<p>given in table below:</p> <table border="1"> <thead> <tr> <th rowspan="2">Equipment</th> <th colspan="5">Emissions Factors (g/hr)</th> </tr> <tr> <th>CO</th> <th>VOC</th> <th>NO<sub>x</sub></th> <th>SO<sub>x</sub></th> <th>PM<sub>10</sub></th> </tr> </thead> <tbody> <tr> <td>Excavator</td> <td>214.09</td> <td>43.99</td> <td>516.18</td> <td>3.31</td> <td>27.21</td> </tr> <tr> <td>Backhoe/ Front end loader</td> <td>190.05</td> <td>56.69</td> <td>370.13</td> <td>1.58</td> <td>37.64</td> </tr> <tr> <td>Rubber tired crane</td> <td>161.02</td> <td>39.00</td> <td>464.02</td> <td>2.67</td> <td>23.58</td> </tr> <tr> <td>Hydraulic Crane</td> <td>161.02</td> <td>39.00</td> <td>464.02</td> <td>2.67</td> <td>23.58</td> </tr> <tr> <td>Concrete Vibrator</td> <td>72.57</td> <td>13.60</td> <td>122.46</td> <td>0</td> <td>4.53</td> </tr> <tr> <td>Paving Equipment</td> <td>186.42</td> <td>48.53</td> <td>412.31</td> <td>1.95</td> <td>29.93</td> </tr> <tr> <td>Roller/ Compactor</td> <td>165.10</td> <td>34.92</td> <td>316.15</td> <td>1.90</td> <td>23.13</td> </tr> </tbody> </table> <p><i>*Source: SCAQMD CEQA Handbook</i></p> <p><b>Impacts:</b> Increase levels of PM<sub>10</sub>, PM<sub>2.5</sub>, NO<sub>x</sub>, HC, VOC etc. from the above activities.</p> <p><b>Mitigation</b> measures like: minimizing drop heights of debris, enclosures, covered transport, use of barriers, wetting surface, plantation, avoiding idling of vehicles etc. will be adopted.</p>	Equipment	Emissions Factors (g/hr)					CO	VOC	NO <sub>x</sub>	SO <sub>x</sub>	PM <sub>10</sub>	Excavator	214.09	43.99	516.18	3.31	27.21	Backhoe/ Front end loader	190.05	56.69	370.13	1.58	37.64	Rubber tired crane	161.02	39.00	464.02	2.67	23.58	Hydraulic Crane	161.02	39.00	464.02	2.67	23.58	Concrete Vibrator	72.57	13.60	122.46	0	4.53	Paving Equipment	186.42	48.53	412.31	1.95	29.93	Roller/ Compactor	165.10	34.92	316.15	1.90	23.13
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5.5	Dust or odours from handling of materials, including construction materials sewage and waste.	Yes	<p>Dust will be generated during construction, which will be water sprinkled, and stored raw material will be covered with tarpaulin covers to reduce dust emissions.</p> <p>Dense tree cover (especially night blooming flowers) will be provided around waste storage area and all channels carrying wastewater will be covered and cleaned prior to the monsoon.</p> <p>Odour will be generated due to solid waste and sewage generation and handling during and post construction; their impact and Mitigation measures are listed below:</p> <ul style="list-style-type: none"> <li>• During construction, waste will be collected and stored at earmarked places and transferred to the disposal site.</li> <li>• In post-construction phase color coded bins will be provided for collection and transportation of biodegradable and non-biodegradable waste.</li> <li>• Waste will be collected and transferred on regular basis with proper safety measures to avoid odor nuisance.</li> </ul>																																																					

S.No .	Information/Checklist confirmation	Yes /No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
			<ul style="list-style-type: none"> <li>Covering loads to limit materials or litter blowing off and reducing smells.</li> </ul> Low VOC products (paints, adhesives, sealants) will be used to avoid sick building syndrome.
5.6	Emissions from incineration of waste	No	Not applicable
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	Will not be allowed in the project.
5.8	Emissions from any other sources	No	Not applicable

**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 ventilation plant, crushers e.g. engines,	Yes	Noise will be generated from the construction equipment’s and operation of DG sets. During construction work, following will be the tentative sources of noise: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Name of source</th> <th>Noise Level at 16 m (50 ft) from Source in db (A)</th> <th>Noise level at 1 m from source in dB (A)</th> </tr> </thead> <tbody> <tr> <td>Back hoe/ Loader</td> <td>81</td> <td>105</td> </tr> <tr> <td>Cranes-mobile</td> <td>81</td> <td>105</td> </tr> <tr> <td>Dump truck</td> <td>83</td> <td>107</td> </tr> <tr> <td>Generator</td> <td>Not considered</td> <td>75 (as prescribed by CPCB)</td> </tr> </tbody> </table> The following measures will be taken: <ul style="list-style-type: none"> <li>EPA/CPCB certified DG sets conforming to the standards for noise will be used. Silent type DG sets with anti -vibration pads will be provided.</li> <li>All construction equipment and machineries will be maintained in good conditions.</li> <li>Personal protective equipment like ear muffs, ear plugs will be provided to the workers.</li> </ul>	Name of source	Noise Level at 16 m (50 ft) from Source in db (A)	Noise level at 1 m from source in dB (A)	Back hoe/ Loader	81	105	Cranes-mobile	81	105	Dump truck	83	107	Generator	Not considered	75 (as prescribed by CPCB)
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6.2	From industrial or similar processes	No	Not applicable															



6.3	From construction or demolition	Yes	During construction work, there will be short term noise impacts in the immediate vicinity of the project site due to various construction activities such as excavation, concreting and mixing, vehicular movement and various construction machinery; Following precautions shall be taken to control noise pollution : <ul style="list-style-type: none"> <li>• High noise generating construction activities would be carried out only during day time</li> <li>• Installation, use and maintenance of mufflers on equipment</li> <li>• Workers working near high noise construction machinery would be supplied with ear muffs/ear plugs.</li> </ul>
6.4	From blasting or piling	No	No blasting or piling will be done.
6.5	From construction or operational traffic	Yes	There may be increase in the noise levels due to constructional /operational traffic arising due to the project, which will be minimized by: <ul style="list-style-type: none"> <li>• Effective traffic management including sufficient width of driveways to avoid traffic congestions especially during the peak hours.</li> <li>• Encouraging the residents for the car pooling and use of mass transportation facilities.</li> <li>• Provisions of designated visitors parking for smooth traffic movement near the entry/ exit points.</li> </ul> Effective green belt will help in reducing the noise propagation.
6.6	From lighting or cooling systems	No	There will be change in the light pollution level of the project area. Use of focused lights to the active areas is envisaged. Further, there will be no sky-lighting during the construction as well as post-construction phase. Cooling towers are not proposed so there will be no noise generation from them. During power failure, operation of DG set will generate noise, but it will be managed by providing silent type DG Sets with anti-vibration pads.
6.7	From any other sources	No	No other source is significant.

**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, hazardous materials use or Spillage of hazardous materials	Yes	The only hazardous waste is spent oil from standby DG sets. The spent oil will be carefully stored in HDPE drums under isolated storage, and periodically sold to authorized recyclers. All precautions will

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			be taken to avoid spillage from storage. During construction paints, solvents, thinner, oil and lubricants will be stored for use which is hazardous to health. Suitable management practice will be adopted for the same.
7.2	From discharge of sewage or other effluents water or the land (expected mode and place of discharge) to	No	There will be no discharge of untreated sewage on water or land, as the wastewater will be treated in the CSTP.
7.3	By deposition of pollutants emitted to air into the land or into water	No	Dust will be generated during construction phase from earthworks and movement of vehicles. Appropriate fugitive dust control measures, including watering, water sprinkling of exposed areas and dust covers for trucks, will be provided to minimize any impacts. DG stack height shall be provided as per CPCB guidelines.
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	There is no risk of long term build up of pollutants in the environment from handling, storage, use or spillage of hazardous materials, discharge of sewage or other effluents to water or the land and by deposition of pollutants emitted to air into the land or into water sources.

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

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
8.1	From explosions, spillages, fires etc from storage, handling, use or production of hazardous substances		<p>This is basically a construction project and does not involve major hazardous construction activity. Hence, chances of explosions, spillages, fires are minimal.</p> <p>All construction workers will be provided with suitable personal protective equipment (PPE) as per the health &amp; safety norms. Training and awareness about the safety norms will be provided to all supervisors and workers involved in construction activities.</p> <p>An agreement will be signed with the</p>

			contractor, which will clearly deal safety aspects during construction. No major hazardous waste is being stored with in the project site. No industrial or process activity is involved in this project hence chances of chemical hazards and accidents are minimal. However, suitable fire-fighting measures will be provided.
8.2	From any other causes	Yes	<p>The major risks involved in the project would be working at different construction heights and mishaps due to human errors, bad construction practices and associated electric hazards.</p> <p>All safety measures will be in place prior to commencement of operations so as to avoid any risk of human life and as per the prevailing local by laws.</p> <ul style="list-style-type: none"> <li>• All safe construction practices &amp; precautionary measures will be adopted and use of PPE will be mandatory.</li> <li>• First-aid measures will be provided at site.</li> <li>• Adequate fire-fighting arrangements will be as per National Building Code - 2005 &amp; conditions laid in fire NOC.</li> <li>• All applicable IS standards for electricity will be followed in construction phase.</li> </ul> <p>Indian Electricity Act of 1910 and rules issued and revised up to date will be followed.</p>
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, cloudburst etc)?	No	<p>As per the secondary data available no such precedents has been reported. However the possibility of such incidents cannot be ruled out.</p> <p><b>Earthquakes:</b> The project falls under seismic Zone III. Design and architecture of building is earthquake resistant and comply with the required IS Specifications Suitable seismic coefficients in horizontal and vertical directions respectively, are being adopted while designing the structures to minimize the impact of any disaster.</p> <p>Landslide: Area is not land slide prone</p> <p><b>Floods:</b> Now the area is not flood prone as the</p>

			<p>flood protection works have been constructed on the left bank of Gomti river and a metaled road has been constructed on it. For effective functioning, pre-monsoon and post-monsoon checks of the drainage structures will be undertaken.</p> <p>The project has planned storm water layout in regards to the peak intensity of the rainfall so far received as recorded by IMD.</p>
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**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	<p>Lead to development of supporting facilities, ancillary development or development stimulated by the project which could have impact on the environment e.g.:</p> <ul style="list-style-type: none"> <li>• Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.)</li> </ul>	Yes	<p>This is a Building and Large Construction project. The existing infrastructure is adequate to meet the requirement of proposed project.</p> <p>In order to support the project power lines will be drawn, roads will be constructed within the proposed site as well as for access. Water supply and sewage systems with STP will be laid extensively in the Township.</p>
	<ul style="list-style-type: none"> <li>• housing development</li> <li>• extractive industries</li> <li>• supply industries</li> <li>• other</li> </ul>	<p>Yes</p> <p>No</p> <p>Yes</p> <p>No</p>	<p>Building and Large Construction project.(Group Housing Project)</p> <p>In order to meet the demand of the residents, the local supply industries will grow like vegetables, fruits, and other daily needs.</p>
9.2	Lead to after-use of the site, which could have an impact on the environment	No	

**Proposed Group Housing “One World Belvedere – I” at Baghamau Village, Distt.- Lucknow  
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9.3	Set a precedent for later developments	No	The area falls under Residential zone of Master Plan of LDA, therefore, no illegal activity is predicted and development of the entire region is anticipated as per Master Plan.
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects		It will improve the environment by creating a more attractive and inter active environment for living, leisure & recreation, create an urban landmark.

**ii. 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		Gomti River - 400 m* (S) Kathauta lake – 4.8 km* (N)
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	Project lies in U.P State and Delhi boundaries are within 500 km.
6.	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	No	
7.	Defense installations	Yes	Cantonment of Lucknow - 6 km* (SE)
8.	Densely populated or built-up area (aerial distances)		Gomti Nagar – 2 km* (NW)
9.	Areas occupied by sensitive man-made land uses ( <i>hospitals, schools, places of worship, community facilities</i> )	Yes	There are several medical health care and institutional centers near site. Dr. Ram Manohar Lohiya Institute of Medical Science -5.6 km (NW), Sahara Hospital 2.8 km (NW), National Homeopathic

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(U.P)**

**FORM I**

S.No	Areas	Name/ Identity	Aerial distance (within 15 km.) Proposed project location boundary
			Medical college 3 km (NW), Amity International University-3.8 km (N) IILM Academy 3 km (NW) & Delhi Public School 2.5 km(W) Dr.Bhim Rao ambedkar university 10.0km(SW), UP State Dial 100- 2.0km (SW) Ekana International Stadium- 1.25Km. (SW)
10.	Areas containing important, high quality or scarce resources ( <i>ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals</i> )	No	Gomti river - 400 m* (S) Kathauta lake - 4.8 km* ( N ) Indira canal - 4 km* (NE)
11.	Areas already subjected to pollution or environmental damage. ( <i>Those where existing legal environmental standards are exceeded</i> ).	Nil	
12	Areas susceptible to natural hazard which could cause the project to present environmental problems ( <i>earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions</i> )	No	The project falls under seismic Zone III. This Zone has been recognized as Moderate Seismic Zone. Suitable seismic coefficients in horizontal and vertical directions will be adopted while designing the structures.

“I hereby given undertaking 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 give, if any to the project will be revoked at our risk and cost.

Date:

Place: Lucknow

Signature of the applicant  
With Name and Full Address  
(Project Proponent/ Authorized Signatory)

NOTE:

1. The Projects involving clearance under Coastal Regulation Zone Notification, 1991 shall submit with the application a C.R.Z map duly demarcated by one of the authorized agencies, showing the project activities, w.r.t. C.R.Z. and the recommendations of the state Coastal Zone management Authority. Simultaneous action shall also be taken to obtain the requisite clearance under the provisions of the C.R.Z. Notification, 1991 for the activities to be located in the CRZ.
2. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden thereon.”
3. All correspondence with the Ministry of Environment & Forests including submission of application for TOR/ Environmental Clearance, subsequent clarifications, as may be required from time to time, participation in the EAC Meeting on behalf of the project proponent shall be made by the authorized signatory only. The authorized signatory should also submit a document in support of his claim of being an authorized signatory for the specific project”.