i. Basic Information

S. No.	Item	Details
1	*Name of the project/s*	Modification in Environment Clearance of integrated township from 137.0 acres to 66.68 acres land at village –Singhpur Kachhar, Hindpur & Sambharpur Tehsil and district Kanpur Nagar, Uttar Pradesh of M/s Assam Entrade limited.
2	*S.No. In the schedule*	The project is categorized as 'B-1' under item 8 (b) of Schedule - Gazette Notification dated Sep 14th, 2006 and subsequent amendments issued by MoEF&CC, New Delhi.
3	*Proposed capacity/area/length/tonnage to be handled/command area/lease area/number of wells to be drilled*	Earlier the EC granted by SEIAA, UP vide Ref. no. 367/Parya/SEAC/1494/2013/DDY on dated 21.05.2013. In this EC the total land area allotted for integrated township development is 55.4419 ha or 137.00 acres. At present we are applying for modification in EC and developed the integrated township on land area on 26.99 ha (66.68 acres) instead of 55.44 ha (137 acres). **Total land area (as per previous EC) - 55.4419 ha or 137.00 acres.** **Modified/proposed land area – 26.9912 ha or 66.68 acres** Previous build-up area – 896203.5 sq.m. Modified/ proposed built-up area - 499361.15sq.m.
4	*New/Expansion/Modernization*	Modification From 137.0 acres to 66.68 acres land
5	*Existing Capacity/Area etc.*	NA
6	*Category of Project i.e. 'A' or 'B'*	Item 8 (b), Category B1 (Township and area development project)
7	*Does it attract the general*	No

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<table>
<tr><th>S. No.</th><th>Item</th><th>Details</th></tr>
<tr><td></td><td>condition? If yes, please specify.</td><td></td></tr>
<tr><td>8</td><td>Does it attract the specific condition? If yes, please specify.</td><td>No</td></tr>
<tr><td>9</td><td>Location</td><td>Latitude : 26°32'11"N
Longitude : 80°16'09"E</td></tr>
<tr><td></td><td>Plot/Survey/Khasra No.</td><td>
<table>
<tr><th>Name of villages</th><th>Arazi no</th></tr>
<tr><td>Singhpur Kachhar</td><td>178mi , 179, 182, 184mi , 189mi, 190, 191, 208, 209, 234, 235mi, 192, 193, 194kha, 194mi , 196, 197mi 198, 199, 200,200,201, 204, 202, 203, 205, 206, 207, 216, 217, 238, 236, 237, 239, 240, 241, 243, 244, 244, ,245,245kha, 246kha, 246ka, 247ka, 247kha, 248, 249, 251, 251, 252, 253, 235/843, 254,255,257, 258,258,259ka, 260ka, 260kha, 261, 262ka, 262ka, 264mi, 265, 267, 268, 273, 274, 275, 277mi, 279, 279mi, 280ka , 280kha, 282kha , 282ka , 283, 284, 285
Area = 21.16152</td></tr>
<tr><td>Hindpur</td><td>565,561,562,563,564,566,567,568,
Area = 2.5622</td></tr>
<tr><td>Sambharpur</td><td>436,437
Area = 0.892</td></tr>
<tr><td>Unaquired land at Singhpur Kachhar</td><td>185, 242, 276, 277mi, 279g, 281, 180, 183
Area = 1.0374</td></tr>
<tr><td>GS land at Singhpur Kachhar</td><td>195, 250, 256, 263, 266, 259kha, 270, 278
Area = 1.346</td></tr>
<tr><td>Total land area</td><td>21.16152+2.5622+0.892+1.0374+1.346= 26.9912</td></tr>
</table>
</td></tr>
<tr><td></td><td>Village</td><td>Singhpur Kachhar, Hindpur & Sambharpur</td></tr>
<tr><td></td><td>Tehsil</td><td>Kanpur Nagar</td></tr>
<tr><td></td><td>District</td><td>Kanpur Nagar</td></tr>
<tr><td></td><td>State</td><td>Uttar Pradesh</td></tr>
<tr><td>10</td><td>Nearest railway station/airport along with distance in kms.</td><td>Kanpur Central Railway station – 15km</td></tr>
<tr><td>11</td><td>Nearest town, city, district headquarters along with distance in kms.</td><td>Kanpur Nagar – 13.5km</td></tr>
<tr><td>12</td><td>Village Panchayats, Zilla Parishad, Muncipal corporation, Local body (complete postal addresses with telephone nos. to be given)</td><td>Kanpur Development Authority, Kanpur</td></tr>
<tr><td>13</td><td>Name of the applicant</td><td>M/s Assam Entrade Ltd.</td></tr>
<tr><td>14</td><td>Registered address</td><td>26/49, Birhana Road , Kanpur UP</td></tr>
<tr><td>15</td><td>Address for correspondence</td><td></td></tr>
</table>

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S. No.	Item	Details
	Name	Mr. J.P. Gupta
	Designation (Owner/Partner/CEO)	Project Director
	Address	26/49, Birhana Road , Kanpur UP
	Pin Code	208002
	E-mail	assamentrade1985@gmail.com
	Telephone No.	09639544447
	Fax no.	-
16	Details of Alternative sites examined, if any. Location of these sites should be shown on a toposheet.	No site alternatives are under consideration.
17	Interlinked projects	No
18	Whether separate application of interlinked project has been submitted?	No
19	If yes, date of submission	No
20	If no, reason	-
21	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 wildlife (protection) Act, 1972? (c) The C.R.Z. Notification, 1991?	 No No No
22	Whether there is any Government order/Policy relevant/relating to the site?	The Kanpur Development Authority (KDA) granted the license for development of an integrated township on 66.68 acres of land. (Under the Integrated township policy – 2014 by the Uttar Pradesh Shasanadesh no: 2711/8-1-25-34vividh/03 dated 21.5.2005).
23	Forest land involved (hectares)	No
24	Whether there is any litigation	No litigation is pending against the

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S. No.	Item	Details
	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.*	project or the project land in any court of law to the best of knowledge.
25	*Project Cost*	150 Crores

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.)

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 Kanpur Development Authority (KDA) granted the license for development of an integrated township on 66.68 acres of land. (Under the Integrated township policy – 2014 by the Uttar Pradesh Shasanadesh no: 2711/8-1-25-34vividh/03 dated 21.5.2005).
1.2	*Clearance of existing land, vegetation and buildings.*	No	Not Involved.
1.3	*Creation of new land uses?*	No	The site has been earmarked for Integrated township development as per Master Plan 2021 of Kanpur Development Authority (KDA).
1.4	*Pre-construction investigations e.g. bore holes, soil testing?*	Yes	There will be no physical impact on the locality due to the soil testing or other pre investigations. Physical impact on the locality due to the soil testing or other pre-construction.

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<table>
<tr><th>S.No.</th><th>Information/Checklist confirmation</th><th>Yes/No</th><th>Details thereof (with approximate quantities /rates, wherever possible) with source of information data</th></tr>
<tr><td>1.5</td><td>Construction works?</td><td>Yes</td><td>The construction of integrated township on land area 269912.00 sqm (66.68 acres). The details about the land ownership record, land use, area statement/comparative area statement of proposed project are enclosed as Annexure -1. The summarized details are as follows:
Land use details
<table>
<tr><th>S.No.</th><th>Particulars</th><th>Area (sq.m.)</th><th>Percentage (%)</th></tr>
<tr><td>A</td><td>Residential plotted</td><td>43216.86</td><td>16.01</td></tr>
<tr><td>B</td><td>Residential group housing</td><td>59325</td><td>21.98</td></tr>
<tr><td>C</td><td>Land reserved for LIG & EWS</td><td>6945</td><td>2.57</td></tr>
<tr><td>D</td><td>Sector Shopping</td><td>26460.62</td><td>9.8</td></tr>
<tr><td>E</td><td>Green areas</td><td>40549</td><td>15.02</td></tr>
<tr><td>F</td><td>Industrial/public semi public/entertainment</td><td>41368</td><td>15.33</td></tr>
<tr><td>G</td><td>Residential cum commercial</td><td>4540</td><td>1.68</td></tr>
<tr><td>H</td><td>Area Under Road</td><td>47507.53</td><td>17.6</td></tr>
<tr><td></td><td>Total area under scheme</td><td>269912.00</td><td>100.0</td></tr>
</table></td></tr>
<tr><td>1.6</td><td>Demolition works?</td><td>No</td><td>No demolition work is envisaged</td></tr>
<tr><td>1.7</td><td>Temporary sites used for construction works or housing of construction workers?</td><td>No</td><td>Temporary store rooms for construction materials during construction phase will be provided, which will be later demolished. The demolition waste will be used within the site itself.
There will be no temporary housing facilities as the local lab9sors (100 nos. - peak) will be employed.</td></tr>
<tr><td>1.8</td><td>Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations</td><td>Yes</td><td>Construction of buildings for Integrated township development.
In the post construction phase, tree plantation and landscaped areas will be provided which will enhance the aesthetic beauty of the area.
The project will involve cut & fill operations. The excavated soil will be utilized within the site in a phased manner.</td></tr>
<tr><td>1.9</td><td>Underground tunneling or works including</td><td>No</td><td>No mining activity will be done at site.</td></tr>
</table>

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S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
	mining?		
1.10	Reclamation works?	No	Not required
1.11	Dredging?	No	No dredging required.
1.12	Offshore structures?	No	No off shore structures required.
1.13	Production and manufacturing processes?	No	No production/manufacturing process is involved.
1.14	Facilities for storage of goods or materials?	No	The site has minimal temporary store rooms for the storage of construction materials, which will be later demolished. During the operational phase, there will be well designated confined storage areas within the building, which will not have impact on the physical environment.
1.15	Facilities for treatment of disposal of solid waste or liquid effluents?	Yes	**Quantity of Solid Wastes:** Total solid waste – 8.0 tons per day E- waste – 8.3 kg/C/Yr) Solid wastes likely to be generated in project are of domestic nature. They will be collected from door to door and segregated into inorganic and organic wastes. For handling solid waste generated by the housing and other areas, different color coded bins will be provided. Green bins will be provided for organic waste and blue bins will be provided for inorganic waste. The organic waste will be converted into manure by bio-composting unit. The manure produced will be used for green belt. The inorganic waste generated will be segregated and will be sold to authorized recycler. The inert waste will be transported to the waste disposal site. **Liquid Effluent:**

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S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
			During construction, a very small amount of sewage will be generated which shall be treated into septic tank and soak pits. During operational phase 1335 KLD waste water will be generated, which will be treated into STP of capacity 1.49 MLD at site and recycled within campus for flushing, horticulture.
1.16	*Facilities for long term housing of operational Workers?*	No	Apart from residents, there will be maintenance team along with security. The impacts due this will be negligible.
1.17	*New road, rail or sea traffic during construction or operation?*	No	No new road and rail route is envisaged in the proposed project. Only internal road will be laid. During construction phase, traffic will be increased due to inward and outward movement of vehicles carrying construction material. In the post construction phase, there will be increase in the traffic levels due to proposed project for which adequate parking facilities has been provided as per the master plan and building byelaws.
1.18	*New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc?*	Yes	Well lit wide metalled roads ranging from 6 to 9 meters width will be built along with improved microclimate brought about by plantation of large canopy trees along roads and footpaths.
1.19	*Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?*	No	There will be no diversion of transmission and pipelines, though the project involves construction of new internal pipelines for fresh water, recycled water, rain water harvesting, sewer lines and internal power distribution lines.
1.20	*New or diverted transmission lines or*	No	There will be no shifting of transmission lines.

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S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
	pipelines?		
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	There is no stream existing.
1.23	*Abstraction or transfers of water from ground or surface waters?*	Yes	The daily fresh water demand will be met through ground water supply. Rain water harvesting with recharge pit is will be constructed, planning of rain water harvesting has been incorporated in to the report and shall be implemented accordingly. Storm water will be collected and diverted to the Rain Water Harvesting system. Recharge pits shall be provided all along the periphery of the building.
1.24	*Changes in water bodies or the land surface affecting drainage or run-off?*	Yes	Yes, since this is Integrated township development project, the land surface will be changed to paved area thereby increasing the runoff during rains.
1.25	*Transport of personnel or materials for construction, operation or decommissioning?*	Yes	**During construction phase,** there will be movements of personnel's, materials and construction machineries. The impact due to the same will be negligible as local people will be deployed and the construction material and machineries required will be mobilized from the local area. Thus, there will be contribution of marginal noise & vehicular emissions. **Post Construction:** During post construction phase, there will be transportation of personnel's and materials in and out of the project regularly.

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S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
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	Influx of people will be temporality during construction phase. However, during the operation phase, there will be regular movement of residents, visitors and related personnel's.
1.29	*Introduction of alien species?*	No	All plantations will be of indigenous species.
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):**

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)*	No	The site has been earmarked for Integrated township development by the Kanpur Development Authority (KDA).
2.2	*Water (expected source & competing users) unit:*	Yes	**Total water requirement: 1673KLD**

S.No.	Particulars	Water Demand
1	Fresh water met through ground water	1093 KLD
2	Flushing water	485 KLD
3	Landscaping demand	81 KLD
4	STP	1.49MLD

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2.3	Minerals (MT)	No	Not required.
2.4	Construction material – stone aggregates,, and / soil (expected source – MT)	Yes	Construction materials such as stone, cement, sand, bricks, marble, paints, tiles, electric ware, sanitary ware, glass is used. All the above materials will be purchased from the local market and from nearest approved quarries, as and when required. It will be stored temporarily at the site.
2.5	Forests and timber (source MT)	No	Not required.
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)	Yes	**Source of Power:** Grid Supply.
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	There will be storage of HSD in the project, which will be stored in the inbuilt storage tanks of DG sets. This will not call for approval from Oil Industry Safety Directorate as it is less than 50 KL. The significant hazard due to the same will be negligible as the exposure level will be confined within a small area in the consequence of unforeseen hazard.
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	Site is fairly plain and no water body is present at site. Suitable drainage and waste management measures will be adopted in both construction and operational phase, which will restrict stagnation of water or

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			accumulation of waste. This will effectively restrict the reproduction and growth of disease vectors.
3.3	*Affect the welfare of people e.g. by changing living conditions?*	Yes	The project will have a positive impact. Facilities such as security system & garbage unit with collection are provided for the everyday demands of the residents. Project will provide infrastructure facilities and services which will set standards for future development. It will also lead to employment of local people therefore affecting living conditions of the locals.
3.4	*Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.,*	No	This is development of Integrated township, so no adverse impact will be anticipated by this project.
3.5	*Any other causes*	No	No

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
4.1	*Spoil, overburden or mine wastes*	No	Not required
4.2	*Municipal Waste (domestic and or residential wastes)*	Yes	These solid wastes will be segregated into biodegradable and non-biodegradable wastes and collected in separate bins. Segregated biodegradable waste such as vegetables & foods waste etc) and garden litter will be converted into manure or soil conditioner by organic waste convertor (OWC). Recyclable wastes will be sold to authorized recyclers/kabariwala and inert waste will be used for construction of road & pavement.

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S.No	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	Yes	The only hazardous waste is spent oil from DG Sets which is managed as per Hazardous Wastes (Management & Handling) Amendments Rules, 2016. They will be carefully stored in under isolated storages, and periodically sold to authorize recyclers. All precautions will be taken during its storage.
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	Yes	Will be used as manure for horticulture.
4.7	Construction or demolition wastes	Yes	The construction waste consists of construction debris along with cement bags, steel in bits and pieces, insulating and packaging materials etc. Cement bags, waste paper and cardboard packing material are sold off to recyclers. Unusable steel scrap is also collected at site and sold to recyclers.
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	Not applicable
4.10	Agricultural wastes	Yes	Landscape waste will be generated, which includes cutting, trimmings, dry leaves & grasses etc. Garden waste including biodegradable waste will be transported to the compost site for bio-composting/OWC.
4.11	Other solid wastes	No	Not applicable

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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	The operation of proposed project will not envisage any major air pollutant generation due to combustion of fossil fuels, except vehicular movement (mobile source) and operation of DG Sets (stationary source) in case of power backup during power failure.
5.2	*Emissions from production processes*	No	Not Applicable
5.3	*Emissions from materials handling including storage or transport*	Yes	The only source of pollution from material handling including storage and transport is dust emission due to vehicles movement. Water sprinkling will be done during construction phase at regular intervals to settle dust.
5.4	*Emissions from construction activities including plant and equipment*	Yes	No major emission from construction activity will take place. The only source of pollution will be from running of mixer and grinder. This will operate for short duration as and when required.
5.5	*Dust or odours from handling of materials, including construction materials sewage and waste.*	Yes	**Construction Phase:** • Dust will be generated during construction activity. Water sprinkling will be carried out to minimize dust suppression. • On site sanitary facilities (septic tank and soak pit) will be provided during the construction phase. • Temporary solid waste storage will be provided at site and recyclable material sold off to recyclers. **Operation Phase:** The sewage generated during operation phase will be treated in STP of capacity 1.48MLD and it will be used in greenbelt. Therefore no odour will be expected from the proposed project.
5.6	*Emissions from*	No	The project is township and area development

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S.No.	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
	incineration of waste		project therefore no incinerator facility will be provided.
5.7	*Emissions from burning of waste in open air (e.g. slash materials, construction debris)*	No	Domestic waste will be generated during operational phase of the project which will be disposed as per Solid Waste Management Rule 2016.
5.8	*Emissions from any other sources*	No	Adequate height of stack shall be provided

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	The noise levels (dB) generated from construction equipment at a distance of 50 ft. from the source are given below: Concrete Mixer Truck - 85 dB Mobile cranes - 81 dB Hammering - 86 dB Loader - 81 dB However, all the equipments will be kept in temporary acoustic enclosures and hence the noise levels will be well within permissible standards.
6.2	*From industrial or similar processes*	No	
6.3	*From construction or demolition*	Yes	During construction work, noise will be generated from construction machinery; however, adequate precautions shall be taken to reduce noise generation.
6.4	*From blasting or piling*	No	No blasting or piling will be done.

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6.5	From construction or operational traffic	Yes	It shall be restricted within a limited area. Some amount of noise will be generated in the construction and operational phase, however, adequate precautions will be taken to reduce noise generation i.e. development of green area which will act as barrier to control noise/air pollution.
6.6	From lighting or cooling systems	No	During power failure, operation of DG sets will generate noise. However, these shall be housed in acoustically enclosed chambers.
6.7	From any other sources	No	No

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 DG Sets. Which will be carefully stored in under isolated storage and periodically sold to authorize recyclers? All precautions will be taken during the storage.
7.2	*From discharge of sewage or other effluents water or the land (expected mode and place of discharge) to*	No	NA
7.3	*By deposition of pollutants emitted to air into the land or into water*	No	Deposition of dust on land & plants from air due to transportation will be there, both during operational & construction phase but will be minimal. Water sprinkling and good housekeeping shall be regularly carried out.
7.4	*From any other sources*	No	No
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

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			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*	Yes	This is basically a construction project and does not involve major hazardous construction activity. Hence, chances of explosions, spillages, fires are minimal. All construction workers will be provided with suitable personal protective equipment (PPE) as per the health & safety norms. Training and awareness about the safety norms will be provided to all supervisors and workers involved in construction activities. An agreement will be signed with the contractor, which will clearly deal safety aspects during construction. No major hazardous waste is being stored within 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*	No	For accidental fires, fire fighting pumps are to be installed.
8.3	*Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, cloudburst etc)?*	No	The project falls under Seismic Zone III. Design and architecture of building will be earthquake resistant and will comply with the required IS Specifications Proper measures shall be taken in detailed design to minimize the impact of any disaster. Area is not flood prone. Building to be designed as per seismic zone requirements.

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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	*Lead to development of supporting facilities, ancillary development or development stimulated by the project which could have impact on the environment e.g.:*		This is a development of Integrated township project. The existing infrastructure is adequate to meet the requirement of proposed project.
	• *Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.)*	Yes	In order to support, power lines will be drawn, roads will be constructed within the proposed project as well as for access. Water supply and sewage systems will be laid down extensively.
	• *housing development*	No	It's Integrated township project.
	• *extractive industries*	No	
	• *supply industries*	Yes	In order to meet the requirement, the supply industry will grow to meet the demand for vegetable, processed food, gas, cloth, groceries, stationary and several other items.
	• *other*	No	
9.2	*Lead to after-use of the site, which could have an impact on the environment*	No	It is township and area development project.
9.3	*Set a precedent for later developments*	No	No illegal activity is predicted and development of the entire region is anticipated as per local bye laws.
9.4	*Have cumulative effects due to proximity to other existing or planned projects with similar effects*	No	It will improve the environment by creating a more attractive and inter active environment for living, leisure & recreation, create an urban landmark.

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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	Yes	• Ganga River – 3.15 Km (E)
3.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	Kanpur Zoo – 5.12Km (SE)
4.	Inland, coastal, marine or underground waters	No	-
5.	State, National boundaries	No	Not applicable
6.	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	Yes	Mainwati Marg – 120m (S) NH- 91 by-pass- 700m (W)
7.	Defense installations	Yes	No
8.	Densely populated or built-up area (aerial distances)	Yes	Azad Nagar – 3.50 Km (E) Deen Dayal Nagar – 2.07km (S) Singhpur kachar village –0.82km (W)
9.	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Yes	***Schools/College :*** Chandra Shekhar Azad University of agriculture – 7.20km (ES) Kanpur University – 6.21km (S) ***Hospital:*** Aastha health centre – 1.7km (w) ***Places of worship*** Iscon Temple : 1.6(E)
10.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries,	No	Nil

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S. No.	Areas	Name/ Identity	Aerial distance (within 15 km) proposed project location boundary
	tourism, minerals)		
11.	Areas already subjected to pollution or environmental damage. (Those where existing legal environmental standards are exceeded).	Nil	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	According to the Indian Standard Seismic Zoning Map, the area under study falls in Zone-III. 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: 24.06.2022
Place: Kanpur

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

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signatory only. The authorized signatory should also submit a document in support of his claim of being an authorized signatory for the specific project".

FORM-1A

1. **Land Environment**

S.No.	Information	Details with source of information/data
1.1	Will the existing landuse get significantly altered from the project that is not consistent with the surroundings? (Proposed landuse must conform to the approved Master Plan/Development Plan of the area. Change of landuse if any and the statutory approval from the competent authority is submitted). Attach Maps of (i) site location (ii) surrounding features of the proposed site (within 500 m) (iii) The site (indicating levels & contours) to appropriate scales. If not available attach only conceptual plans.	Modification in Environment Clearance of integrated township from 137.0 acres to 66.68 acres land at village – Singhpur Kachhar, Hindpur & Sambharpur, Tehsil and district Kanpur Nagar, Uttar Pradesh of M/s Assam Entrade limited. The Kanpur Development Authority (KDA) granted the license for development of an integrated township on 66.68 acres of land. (Under the Integrated township policy – 2014 by the Uttar Pradesh Shasanadesh no: 2711/8-1-25-34vividh/03 dated 21.5.2005).

Site Connectivity

Kanpur is accessible from every part of India through air, rail and road. It is directly connected with New Delhi, Patna, Kolkata, Mumbai, Varanasi and other major cities by Kanpur airport and Amausi airport. Similarly city is linked to north, east, south and west through rail and road links.

The site is located on Mainawati Road. The site is well connected with Kalyanpur Railway station 4.42 km (w) from the project site. The Kanpur airport is situated at a distance 19.65 (SE) from the project site. The site surroundings on all four sides are as follows:

- **East:** NRI city temple and residential colony lie towards Eastern boundary of the project.
- **West:** Open land lie towards western boundary of the project.
- **North:** Open land lie towards the northern boundary of the project.

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- **South:** Mainwati road lie towards the southern boundary of project site.

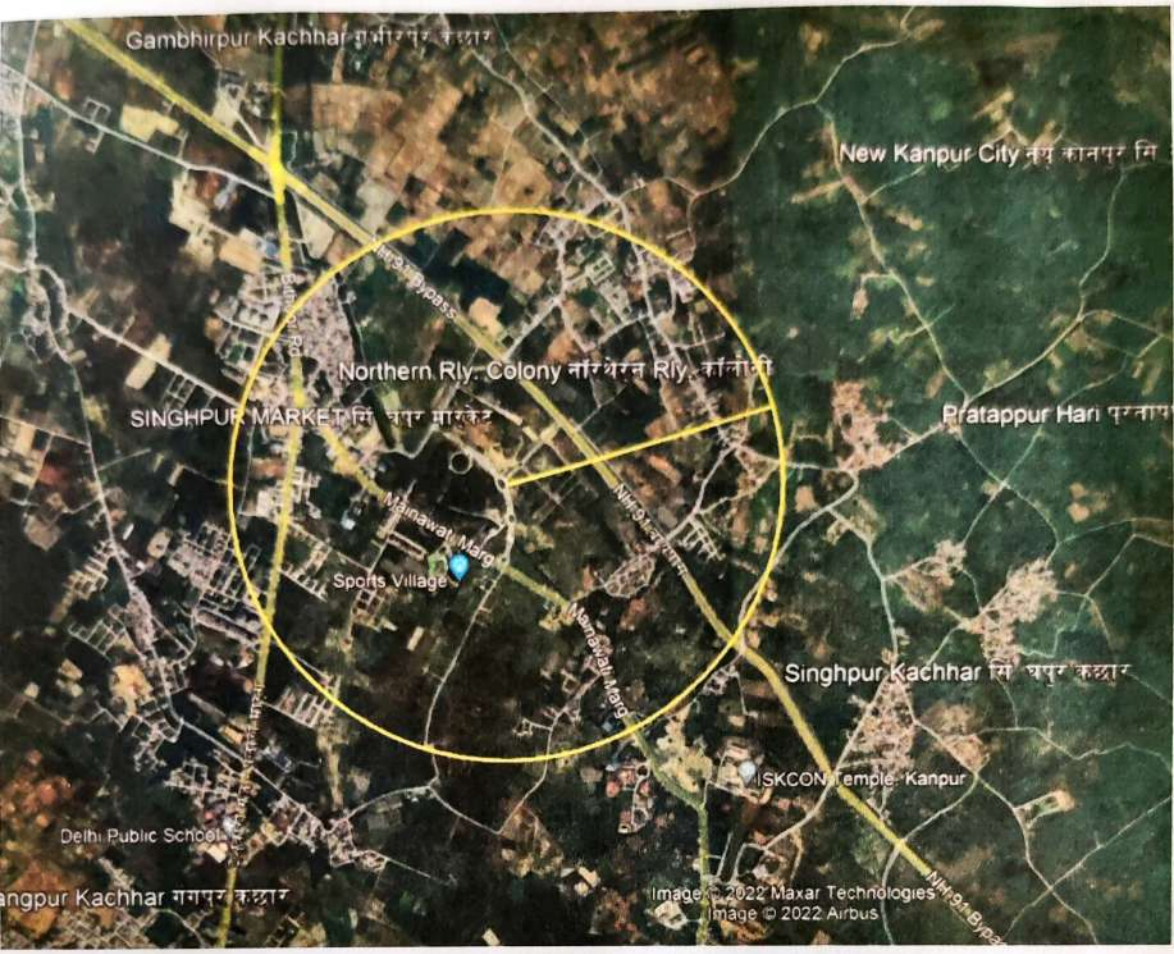

Figure 1 (b): 1km Google map of the project site

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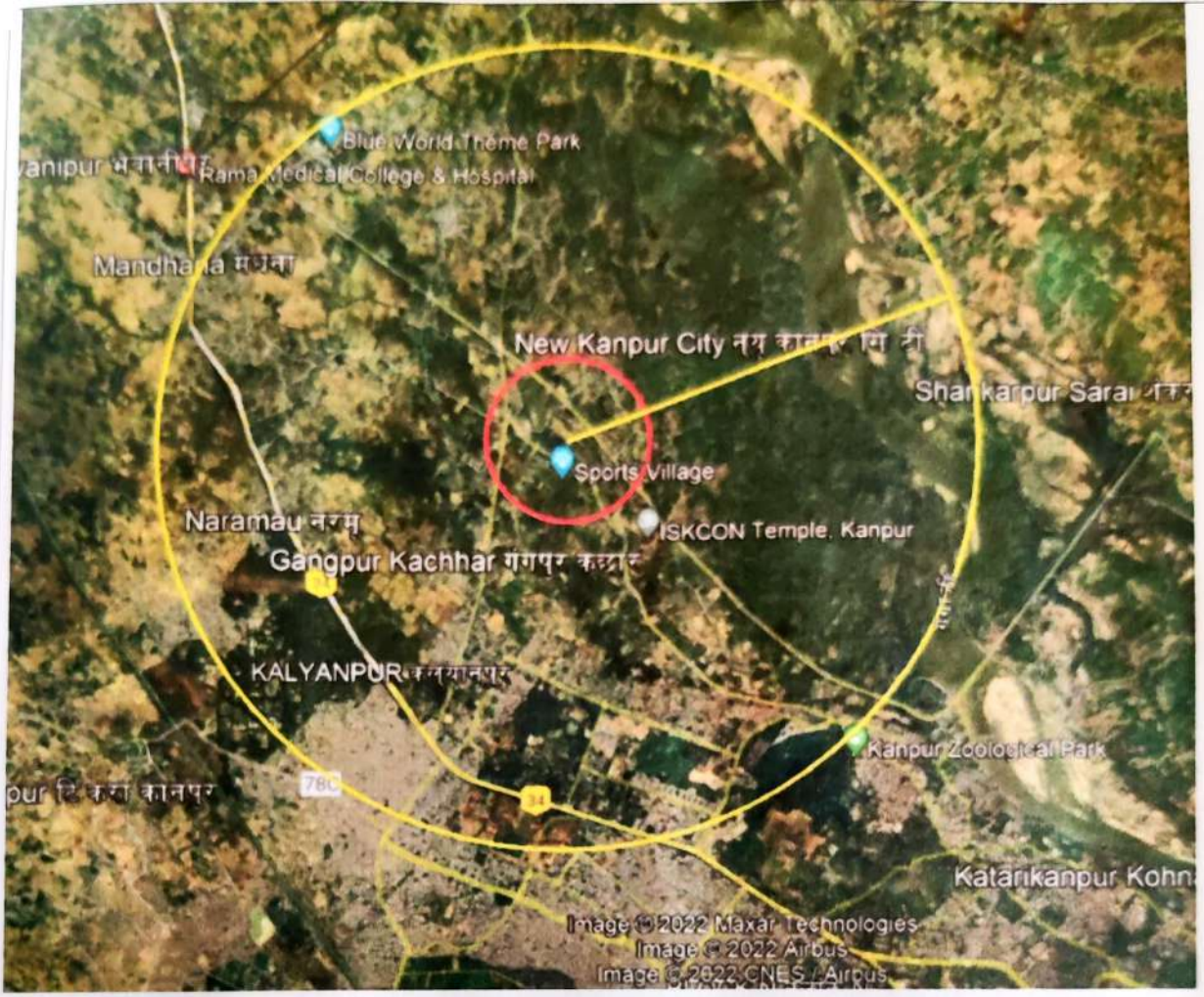

Figure 1(c): 5 km Google map of the project site

1.2	List out all the major project requirements in terms of the land area, built up area, water consumption, power requirement, connectivity, community facilities, parking needs etc.	Fresh Water Consumption 1093KLD from ground water through bore wells. The permission shall be obtained from UPGWD. Power demand- 8239kVA Connectivity – The Site is located Mainawati Marg. • Mainawati Marg

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Table 1: Project area details (as per previous EC)

S.No.	Particulars	Area (sq m)	Area (Acres)
A.	Total Land area	554419.33	137.0
B.	Deduction for road widening		
i	Bandha side	39337.85	
ii	Mainwati marg side	351697	
B	Total	42854.82	10.59
A-B	Net scheme area	511564.51	126.41

Table 1.0: Comparative land use details (previous and proposed)

S.No.	Particulars	Area (sq.m.) (as per previous EC)	(%)	Area (sq.m.) (proposed details)	(%)
1	Residential plotted development	95721.99	18.71	43216.86	16.01
2	Residential Group housing	169227.66	33.08	59325.00	21.98
3	Land reserved for LIG & EWS	18607.77	3.63	6945.00	2.57
4	Sector Shopping	43575.54	8.51	26460.62	9.8
5	Green areas	62470.81	12.21	40459.00	15.08
6	Industrial	62090.30	12.13	41368.0	15.33
7	Residential cum commercial	-	-	4540	1.68
8	Area under road	59870.44	11.70	47507.53	17.60
	Total	511564.51		**269912.00**	
9.	**Built-up area detail**	**8,96,203.5**		499361.15sq	

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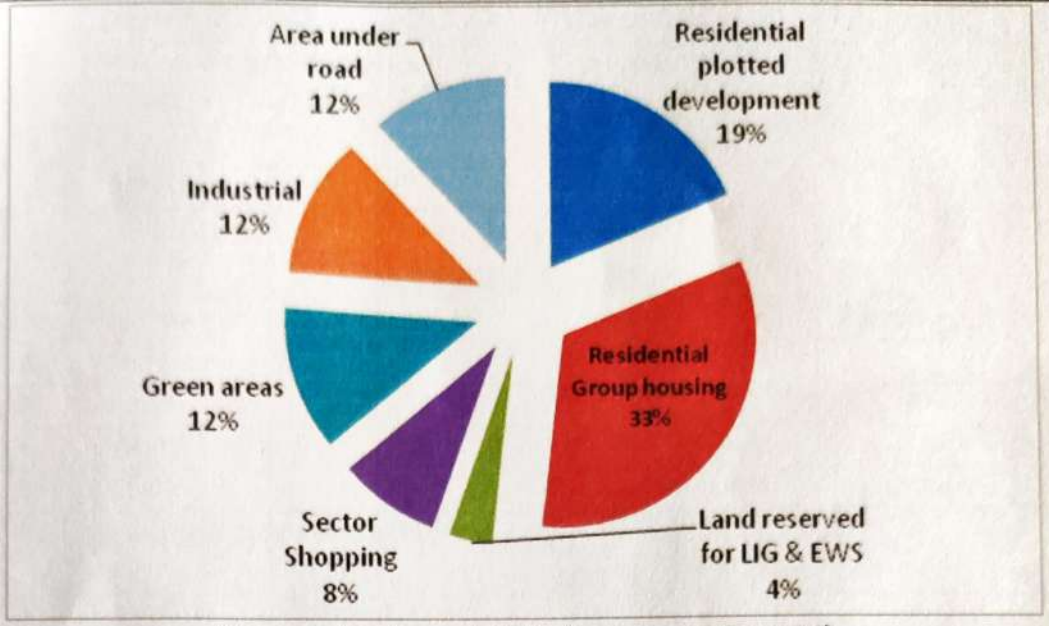

Figure 1: Land use details (as per previous EC)

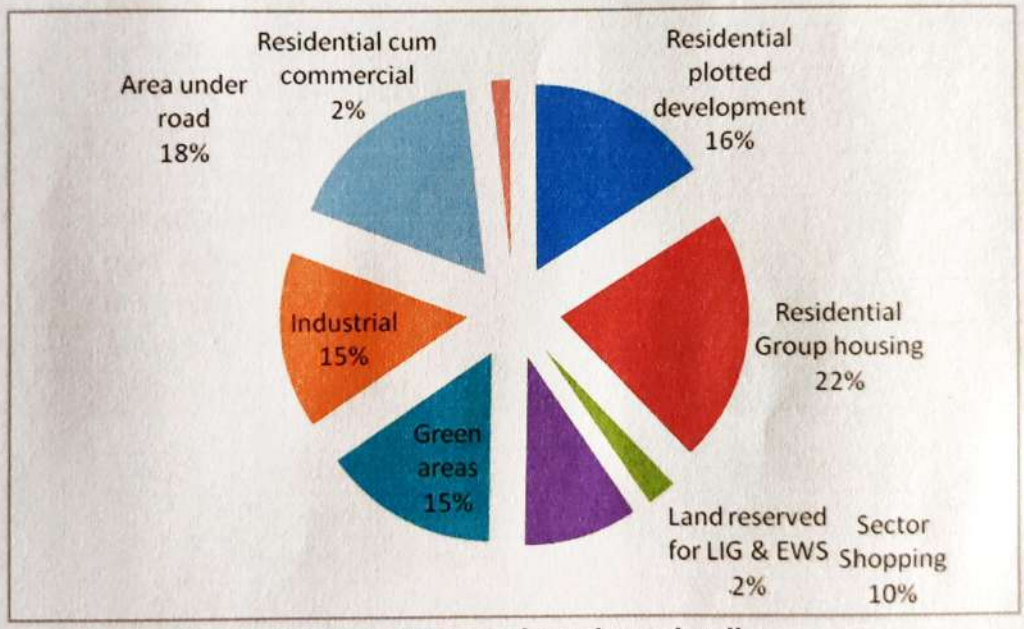

Figure 2: Proposed Land use details

Table 1.0 (a): Comparative Details about the Water and waste water generation

	Particulars	Previous Details	Proposed details
1	Total water requirement	2720KLD	1673 KLD
2	Fresh water requirement	1765 KLD	1093 KLD
3	Total waste water generation	2000 KLD	1335KLD
4	Capacity of STP	3000 KLD	1.48MLD

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5	Treated water	1600 KLD	1031KLD
6	Solid waste generation rate	14347kg/day	8.0 tons per day
7	Power Requirement	7252kVA	8239kVA
8	DG sets	4×500nos (kVA)	
9	RWH pits	25nos	10nos

Table 2(a): Proposed details

S.No.	Scheme Area /License Area	Sq.mt	Acre	Percentage (%)
A	Land area in license	269912	66.68	
B	Acquired land	236004	58.3	87.4
C	Un-acquired land	20498	5.06	7.6
D	GS land	13460	3.326	5
E	Total mortgaged land in license area	32343	7.99	12

S.No.	Particulars	Area (sq.m.)	Percentage (%)
A	Residential plotted	43216.86	16.01
B	Residential group housing	59325	21.98
C	Land reserved for LIG & EWS	6945	2.57
D	Sector Shopping	26460.62	9.8
E	Green areas	40549	15.02
F	Industrial/public semi public/entertainment	41368	15.33
G	Residential cum commercial	4540	1.68
H	Area Under Road	47507.53	17.6
	Total area under scheme	269912.00	100.0

S. No.	Particulars	Area (sq.m.)
A	Residential Plotted	43216.36
B	Residential group housing	59325
i	GH-01	39945
ii	GH-02	15810
iii	GH-03	3570
C	Land reserved for LIG and EWS	6945

Built-up are details

Sl. No.	Use	Perm. Far	FAR sq.m	Approx. BUA
1	Residential Plotted	2	86,433.71	99,399
2	Residential Group Housing	2.5	148,312.50	185,391
3	Land Reserved For LIG & EWS	2.5	17,362.50	21,703
4	Sector Shopping	2.5	66,151.55	82,689

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5	Green Areas			
6	Industrial/Public Semi Public/Entertaiment	2	82,736.00	99,283
7	Residential Cum Commercial	2	9,080.00	10,896
8	Area Under Road			
Net Scheme Area				**499361.15**

Table 2b: Area Details of Group housing plots

S. No.	Plots	Area (sq.m.)	Green area (sq.m.)	Net plot area (sq.m.)	Units	Population	FAR @ 2.5 (sq.m.)	Built-up area (sq.m.)
1	**GH-01**	42615.00	2670	39945	999	4993	99862.5	119835
2	**GH-02**	18600.00	2790	15810	522	2609	39525	47430
3	**GH-03**	4200.00	630	3570	71	357	8925	10710
	Total	**65415.00**	**6090.0**	**59325.00**	**1592**	**7959**	**148312.5**	**177975**

Table 2c: Population Details

Population Details			
Particulars	**No of Units**	**Unit Population**	**Populations (persons)**
Residential Plotted	566	5	2830
Residential GH units	1592	5	7958
LIG and EWS units	432	5	2160
Commercial Area	529	5	2646
Public/Semi public	827	5	4137
Residential cum commercial	91	5	454
		Total	**20186**

Table 2d: Area details of commercial area

Sector Shopping	Area (sqm)
Comm-01	10010
Comm-02	2915
Comm-03	1535
Comm-04	5000
Comm-05	6250
Comm-06	750.62
Total	**26460.62**

Table 2e: Area details of green area

Green area	Area (sq.m.)
Park 1	2445
Park 2	2432
Park 3	933
Park 4	1396
Park 5	462
Park 6	367

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Park 7	1088
Park 8	231
Park 9	24450
Park 10	625
Park 11	860
Area of park in group housing	6090
Garbage points	60
ESS transformers	420
pump room	200
RWH Pits	150
Total	40549

Table 3: Water calculation

Description	Population/area		FrW		FlW	TW	Flow to sewer	
	Nos.	LPCD	KLD	LPCD	KLD	KLD	Domestic 80%	Flushing 95%
Residential plotted	2830	90	255	45	127	382	204	121
Residential GH units	7958	65	517	21	167	684	414	159
LIG and EWS units	2160	65	140	21	45	186	112	43
Commercial area	2646	25	66	20	53	119	53	50
Public/Semi public	4137	25	103	20	83	186	83	79
Residential cum commercial	454	25	11	20	9	20	9	9
Landscape development	40549	2				81		
DG set cooling	500*4 kVA	0.9l/kVA/hr				14		
L			1093		485	1673	875	460

FrW : Fresh water , FlW: Flushing water , TW : Total water

Note: Fresh Water @ 65 LPCD Flushing Water @ 21 LPCD for group housing, Fresh Water @ 30 LPCD Flushing Water @ 15 LPCD for staff, Fresh Water @ 5 LPCD Flushing Water @ 10 LPCD for visitors

Table 4 Solid waste generation rate

S.No.	Category	Waste Generation rate (kg/day)	Population	Waste Generated (kg/day)
A	Residential Population			
1	Residential plotted	0.5	2830	1415
2	Residential GH units	0.5	7958	3979
3	LIG and EWS units	0.5	2160	1080
4	Commercial area	0.2	2646	529.2
5	Public/Semi public	0.2	4137	827.4
6	Residential cum	0.2	454	90.8

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	commercial			
B	Landscape development	0.0037kg/sqm/day	40549	150
			Total solid waste generated	**8071~ 8.0** tons per day
C	E-Waste (0.15 kg/C/Yr) + obsolete machinery			8.3

1.3	What are the likely impacts of the proposed activity on the existing facilities adjacent to the proposed site? (Such as open spaces, community facilities details of the existing landuse disturbance to the local ecology).	The proposed project is the construction of Integrated township. Mitigation measures will be taken to reduce the impacts created due to the project during the Construction and Operation phase. Proposed project will be provided with provisions for parking which will be easier for the people to access. Greeneries will be developed for aesthetic appearance and also for sorption of pollutants. Adequate mitigation measures will be adapted to reduce the negative impacts.
1.4	Will there be any significant land disturbance resulting in erosion, subsidence & instability? (Details of soil type, slope analysis, vulnerability to subsidence, seismicity etc may be given).	Vulnerability to subsidence and erosion will be less. The proposed site has good load bearing capacity. The site receives only moderate amount of rainfall. Trees and shrubs shall be planted in and around the site and the runoff will be made to drain into the Storm Water Drains proposed all along the road side will help in reducing soil erosion. There will not be any instability. The proposed site falls under Zone III of seismic zone classification. However the proposed building will be an earthquake resistant structure.
1.5	Will the proposal involve alteration of natural drainage systems? (Give details on a contour map showing the natural	The proposed project site is a flat terrain and the storm water network has been planned inside the proposed

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	drainage near the proposed project site).	project. Rainwater will be collected through storm water drain and will be recharged though recharge pits. There will not be any alteration of natural drainage system. The Contour plan showing the natural drainage of the project site is enclosed.
1.6	What are the quantities of earthwork involved in the construction activity cutting, filling, reclamation etc. (Give details of the quantities of earthwork involved, transport of fill materials from outside the site etc).	Excavated earth during construction phase will be stored for use in landscape development within the project site. The lower strata earth excavated frumpily foundation is either used for filling the plinths, road substructure and leveling.
1.7	Give details regarding water supply, waste handling etc. during the construction period.	The quantity of water required during construction phase will be 50-80 KLD which will be outsourced with water supply agency. The concrete debris will be used for site grading and road filling.
1.8	Will the low-lying areas & wetlands get altered? (Provide details of how low lying and wetlands are getting modified from the proposed activity).	No, there is no low lying area or wetlands within the Project Site.
1.9	Whether construction debris & waste during construction cause health hazard? (Give quantities of various types of wastes generated during construction including the construction labour and the means of disposal).	No, the waste does not contribute to any health hazards. **Construction Waste:** The construction debris such as the waste mortar and sand etc will be used in secondary concrete or in landscaping. Mild steel scrap, empty gunny bags, packing materials will be sold to

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		vendors.

2. **Water Environment**

S. No.	Information	Details with source of information/data
2.1	Give the total quantity of water requirement for the proposed project with the breakup of requirements for various uses. How will the water requirement met? State the sources & quantities and furnish a water balance statement.	During operation phase water requirement will be met through Ground water supply. Fresh/domestic water demand is 1093KLD. The Water Balance Chart is given in the Conceptual Plan.
2.2	What is the capacity (dependable flow or yield) of the proposed source of water?	The quantity of water required during construction phase will be 50-80 KLD which will be met through tanker. Total quantity of water required during the operation phase will be 1673 KLD. The quantity of fresh water required during operation phase will be 1093 KLD and shall be sourced through Ground water.
2.3	What is the quality of water required, in case, the supply is not from a municipal source? (Provide physical, chemical, biological characteristics with class of water quality).	Total quantity of water required during operation phase of the project will met through Ground water supply. The quality of water will be as per IS 10500-1991 (Drinking water standard).
2.4	How much of the water requirement can be met from the recycling of treated wastewater? (Give the details of quantities, sources and usage).	Quantity of wastewater (1335KLD) likely to be generated from the proposed project will be treated through sewage treatment plant (1.49MLD). The Water Balance Chart is given in the Conceptual Plan.
2.5	Will there be diversion of water from other users? (Please assess the impacts of the project on other existing uses and quantities of	There will be no diversion of water from other users.

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	consumption).	
2.6	What is the incremental pollution load from wastewater generated from the proposed activity? (Give details of the quantities and composition of wastewater generated from the proposed activity).	No incremental pollution loads due to wastewater generation because it will be treated and then recycled. The quantity of recycled water used for horticulture, flushing is shown in Water Balance Chart of Conceptual Plan.
2.7	Give details of the water requirements met from water harvesting? Furnish details of the facilities created.	Rainwater Harvesting System will be provided and the details are given in **Conceptual Plan.** 10 No of RWH pits shall be provided for recharge. Recharge pits shall be provided all along the periphery of the building with 2 no. of recharge pits to harvest the surface run-off.
2.8	What would be the impact of the land use changes occurring due to the proposed project on the runoff characteristics (quantitative as well as qualitative) of the area in the post construction phase on a long-term basis? Would it aggravate the problems of flooding or water logging in any way?	The storm water drains and the rain water harvesting structures will be provided so that the rain water will be properly collected and utilized. So there will no flooding and water logging in the area.
2.9	What are the impacts of the proposal on the ground water? (Will there be tapping of ground water; give the details of ground water table, recharging capacity, and approvals obtained from competent authority, if any).	Groundwater shall be withdrawal after taking the NOC from CGWA.
2.10	What precautions/measures are taken to prevent the run-off from	No surface runoff will generate from the construction activities.

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	construction activities polluting land & aquifers? (Give details of quantities and the measures taken to avoid the adverse impacts).	
2.11	How is the storm water from within the site managed? (State the provisions made to avoid flooding of the area, details of the drainage facilities provided along with a site layout indication contour levels).	The storm water during the operation phase will be collected through the collection centers placed around the site and flows into the filtration chamber where the sediments are filtered and the filtered water will be let into the storm water drains. The excess storm water will be let out into nearby public storm water drain.
2.12	Will the deployment of construction laborers particularly in the peak period lead to unsanitary conditions around the project site (Justify with proper explanation).	Most of the laborers will be deployed locally and the adequate sanitary facilities will be provided for workers residing there temporarily.
2.13	What on-site facilities are provided for the collection, treatment & safe disposal of sewage? (Give details of the quantities of wastewater generation, treatment capacities with technology & facilities for recycling and disposal).	During construction phase, septic tanks and soak pit will be provided to treat the sewage generated from construction laborer camp. During operational phase, Sewage Treatment Plant with a capacity of 1.48MLD will be adequate to treat the sewage generated. The details of STP and the treatment process are provided in Conceptual Plan.
2.14	Give details of dual plumbing system, if treated waste is used for flushing of toilets or any other use.	The treated waste water will be pumped to separate overhead tanks from where it will be re-lifted to flush water tanks. From there the treated wastewater will be supplied to Water Closet and Urinals through separate flushing down take pipes. Flushing lines (using recycled treated effluent) shall be painted with a

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		suitable demarcating colour as per IS Codes to differentiate the pipeline for end usages. Thus dual plumbing system will be adopted.

3. VEGETATION

S. No.	Information	Details with source of information/data
3.1	Is there any threat of the project to the biodiversity? (Give a description of the local ecosystem with its unique features, if any).	The project site is a barren land with certain weeds/ vegetation. It is observed that there is no ecologically important species of flora & fauna in the local ecosystem of the project site. Thus, there will not be any threat to the biodiversity.
3.2	Will the construction involve extensive clearing or modification of vegetation? (Provide a detailed account of the trees & vegetation affected by the project).	The proposed project site is devoid of any vegetation. However, there shall be minor clearing activities which will take place to clear the thorny shrubs and there will not be any significant loss of trees. However green belt will be developed using native species around the site during operational phase which will enhance the aesthetic nature.
3.3	What are the measures proposed to be taken to minimize the likely impacts on important site features? (Give details of proposal for tree plantation, landscaping, creation of water bodies etc along with a layout plan to an appropriate scale).	Green belt/landscaping in an area of about 40,459m^2 will be developed inside and periphery of the project site as per the norms of CPCB.

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4. FAUNA

S. No.	Information	Details with source of information/data
4.1	Is there likely to be any displacement of fauna both terrestrial and aquatic or creation of barriers for their movement? Provide the details.	The proposed activity is neither displacing any terrestrial or aquatic fauna. The land is not coming in the migration route or does not intercept any corridor of fauna movement.
4.2	Any direct or indirect impacts on the avifauna of the area? Provide details.	No, any direct or indirect impact on the avifauna of the area will not be envisaged.
4.3	Prescribe measures such as corridors, fish ladders etc to mitigate adverse impacts on fauna.	Not applicable.

5. AIR ENVIRONMENT

S. No.	Information	Details with source of information/data
5.1	Will the project increase atmospheric concentration of gases & result in heat islands? (Give details of background air quality levels with predicted values based on dispersion models taking into account the increased traffic generation as a result of the proposed constructions).	Due to the operation of Integrated township there would be no significant increase in the load of atmospheric gases. DG set is the only possible source of emission. The emission will be dispersed with adequate height of stack.
5.2	What are the impacts on generation of dust, smoke, odorous fumes or other hazardous gases? Give details in relation to all the meteorological parameters.	Since the proposed project is construction of Integrated township there are no chances of generation of odorous fumes and hazardous gases except little amount of dust from construction & road activities which will be suppressed by sprinkling of water in the activity zone and insignificant level of smoke will arise from the

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		construction equipment & vehicles which will be mitigated by proper maintenance. During operational phase, the only point source of emission is operation of DG set which will be mitigated by adequate height of stack. Besides, the trees in the green belt development will help in the sorption and dispersion of gaseous pollutants.
5.3	Will the proposal create shortage of parking space for vehicles? Furnish details of the present level of transport infrastructure and measures proposed for improvement including the traffic management at the entry & exit to the project site.	Adequate parking facilities will be provided inside the site. The parking areas are shown in the site layout. The site is well connected to the existing road network which is feasible. This infrastructure does not cause any bottleneck.
5.4	Provide details of the movement patterns with internal roads, bicycle tracks, pedestrian pathways, footpaths etc., with areas under each category.	The whole area will be connected with well maintained internal roads and pedestrian pathways will be constructed. The roads are shown clearly in the site layout.
5.5	Will there be significant increase in traffic noise & vibrations? Give details of the sources and the measures proposed for mitigation of the above.	The noise level inside the site will be increased slightly due to the movement of vehicles and from the machines used in construction activities. The noise level will be reduced by the slow movement of vehicles. Installation of speed humps will reduce the speed of the vehicles. Properly well maintained vehicles will be used to reduce the noise. If Required Proper enclosures will be provided for D.G. sets.
5.6	What will be the impact of power generator sets & other equipment on noise levels & vibration in & ambient air quality around the project site?	The DG sets shall be provided with inbuilt acoustic enclosures, which shall be designed to allow the maximum aspiration and cooling airflow required.

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	Provide details.	Weather louvers, acoustic louvers, splitter and baffles are provided to suppress the noise where required. The outer walls of the Acoustic Enclosure shall be 1.6 - 2 mm thickness of CRCA steel sheeting. The inner lining material shall be of Rockwool covered with GI perforated sheet. The Rock wool will also serve as fire resistant material which shall be further secured with cover sheet. DG set will be placed on the wooden platform to minimize the vibration. The green belt development will also help in reducing noise levels in the site.

6. AESTHETICS

S. No.	Information	Details with source of information/data
6.1	Will the proposed constructions in any way result in the obstruction of a view, scenic amenity or landscapes? Are these considerations taken into account by the proponents?	The proposed project will not affect obstruction of the view, scenic amenity or landscapes and importantly there are no such activities around the project site. In fact this project will exhibit green belt development around the periphery of the project site.
6.2	Will there be any adverse impacts from new constructions on the existing structures? What are the considerations taken into account?	As the proposed project will be carried out within the confined area, there will not be any adverse impacts from new constructions on the existing structures.
6.3	Whether there are any local considerations of urban form & urban design influencing the design criteria? They may be explicitly spelt out.	There exist no local considerations.
6.4	Are there any anthropological or archaeological sites or artifacts nearby? State if any other significant features in the vicinity of the	There are no anthropological, archaeological, artifact sites nearby the site area.

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	proposed site have been considered.	

7. SOCIO-ECONOMIC IMPACTS

S. No.	Information	Details with source of information/data
7.1	Will the proposal result in any changes to the demographic structure of local population? Provide the details.	Since the proposed project is construction of Integrated township.
7.2	Give details of the existing social infrastructure around the proposed project.	The people living in the vicinity of the project areas have been employed. Many residential and commercial complexes and educational institute are located within 5 km radius.
7.3	Will the project cause adverse effects on local communities, disturbance to sacred sites or other cultural values? What are the safeguards proposed?	No, the proposed project will not cause any disturbance to the local communities. There are no sacred sites or places with cultural importance nearby.

8. BUILDING MATERIALS

S. No.	Information	Details with source of information/data
8.1	May involve the use of building materials with high-embodied energy. Are the construction materials produced with energy efficient processes? (Give details of energy conservation measures in the selection of building materials and their energy efficiency).	Standard list of building materials will be used and their use is inevitable. Some of them have high embodied energy like cement, steel, etc., Selection of energy efficient material in the proposed project, wherever feasible, has been considered. Efforts have been taken to minimize the use of virgin wood and Building materials, to the possible extent materials with high recycle content are proposed to be used in the project.
8.2	Transport and handling of materials during construction may result in pollution, noise & public nuisance. What measures are taken to minimize	• Use of well maintained vehicles for construction activities. • Vehicles carrying construction materials should be properly covered.

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	the impacts?	• Equipment like earmuffs, earplugs etc., will be used for hearing protection for workers. • Cover piles of building materials like cement, sand and other materials. • Limitation of vehicle speeds. • Control dust through fine water sprays.
8.3	Are recycled materials used in roads and structures? State the extent of savings achieved?	• Excavated top soil will be used for green expanses in the site. • Lower soil will be used for landscaping and in playgrounds. • Broken concrete will be used for erosion control.
8.4	Give details of the methods of collection, segregation & disposal of the garbage generated during the operation phases of the project.	The method of collection, segregation & disposal of the garbage generated during the operation phases is detailed in the Conceptual Plan.

9. ENERGY CONSERVATION

S. No.	Information	Details with source of information/data
9.1	Give details of the power requirements, source of supply, backup source etc. What is the energy consumption assumed per square foot of built-up area? How have you tried to minimize energy consumption?	Electricity will be availed from Uttar Pradesh Power Corporation Limited. Total Electric load for the proposed project is 8239kVA If required 4×500kVA capacity of DG Set will be used as backup power. Proposed energy consumption reduction techniques: • All the electrical appliances proposed to be used in the campus will be highly efficient and to the possible extent energy star rated. • Solar architectural Features:

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		(i) The microclimatic conditions of the project site are analyzed and the designs are developed based on the same. (ii) The window wall ratio of the Building envelope is also maintained to enhance the entry of required daylight and limit the entry of heat. (iii)The balcony areas are projected, and hence act as a permanent shading device for the spaces. • Proposed to ensure proper utilization of daylight and control glass from windows. • Lighting: Energy efficient internal and external lighting luminaries (as applicable) which are at least three star rated under BEE labeling.
9.2	What type of and capacity of power back up to you plan to provide?	If Required 4×500kVA of DG Set will be used as backup power for power requirement during emergency conditions in operation phase of the proposed buildings.
9.3	What are the characteristics of the glass you plan to use? Provide specifications of its characteristics related to both short wave and long wave radiation?	We propose to provide good quality glass for window panels.
9.4	What passive solar architectural features are being used in the building? Illustrate the applications made in the proposed project.	• The window wall ratio of the building envelope is also maintained to enhance the entry of required daylight and limit the entry of heat. • Use of energy efficient lamps and solar water heaters. • Windows will be provided to reduce both heating/cooling energy

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		consumption. • The building envelope is designed in an energy efficient way by limiting the heat entry through the building envelope.
9.5	Does the layout of streets & buildings maximize the potential for solar energy devices? Have you considered the use of street lighting, emergency lighting and solar hot water systems for use in the building complex? Substantiate with details.	Solar water heaters will be made applicable for hot water uses. CFL/LED lamps will be used in reducing energy and maintenance cost.
9.6	Is shading effectively used to reduce cooling/heating loads? What principles have been used to maximize the shading of Walls on the East and the West and the Roof? How much energy saving has been effected?	Green belt with native trees will be developed in the periphery of the project.
9.7	Do the structures use energy-efficient space conditioning, lighting and mechanical systems? Provide technical details. Provide details of the transformers and motor efficiencies, lighting intensity and air-conditioning load assumptions? Are you using CFC and HCFC free chillers? Provide specifications.	Variable Refrigerant Flow Air Conditioning System will be provided.
9.8	What are the likely effects of the building activity in altering the microclimates? Provide a self-assessment on the likely impacts of the proposed construction on creation of heat island & inversion effects?	No effects.

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9.9	What are the thermal characteristics of the building envelope? (a) Roof; (b) external walls; and (c) fenestration? Give details of the material used and the U-values or the R-values of the individual components.	The U value and the R value for roof, external walls and fenestration will be designed as per the standards of Energy Building Code
9.10	What precautions & safety measures are proposed against fire hazards? Furnish details of emergency plans.	The fire fighting system, Emergency evacuation plan at regular interval will be prepared and is detailed in **Conceptual Plan.**
9.11	If you are using glass as wall material provides details and specifications including emissivity and thermal characteristics.	Glass is not proposed to be used as a wall material.
9.12	What is the rate of air infiltration into the building? Provide details of how you are mitigating the effects of infiltration.	This is a construction project with no significant pressure difference inside and outside of the building. Infiltration will be reduced by sealing cracks and gaps and by properly placed plants near the buildings. Better indoor air quality will be provided by incorporating superior fresh air in the air-conditioning systems, better filtration, use of low VOC (volatile organic compounds) materials such as paints, adhesives, carpet, composite wood materials, excellent day lighting and views for the occupants thereby ensuring better indoor air quality and environment for the occupants.
9.13	To what extent the non-conventional energy technologies are utilized in the overall energy consumption? Provide details of the renewable energy technologies used.	By using the solar water heaters, there will be reduction in the overall energy consumption.

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ENVIRONMENT MANAGEMENT PLAN

S. No.	Information	Details with source of information/data
10.1	Environmental Management Plan would consist of all mitigation measures pertaining to the anticipated impacts raised due to the various activities related to the project during construction and operation phase. Along with that, Environmental Monitoring Plan will be proposed in such a way to monitor the impacts during operation phase for the entire period.	The brief description of EMP is given in the Conceptual Plan.