

# FORM 1

## I. BASIC INFORMATION

Sr.No.	Item	Details
1.	Name of the Project	Proposed MIG&HIG Mass Housing scheme at sector 36, Kharghar by CIDCO.
2.	S. No. in the schedule	8 (b) (Please refer <b>Annexure-I</b> )
3.	Proposed capacity/area/length/tonnage to be handled/command area/lease area/number of wells to be drilled.	Total Plot Area = 63,717.00 sq. mt. (Please refer <b>Annexure-II</b> for area statement)
4.	New/Expansion/Modernization	New
5.	Existing Capacity/Area etc.	Total Plot Area: 63,717.00 sq. mt. Construction area is - 1, 921, 48.19 sq.mt. FSI - 94,697.09 sq.mt and Non FSI is 97,451.10 sq.mt. (Please refer <b>Annexure-II &amp; III</b> for area statement)
6.	Category of Project i.e., 'A' or 'B'	B
7.	Does it attract general condition? If yes, please specify.	No
8.	Does it attract specific condition? If Yes, please specify	No
9.	Location	(Please refer <b>Annexure-III &amp; IV</b> for Google Image and Location plan)
	Plot/Survey/Khasra No.	Sector No. 36
	Village	Kharghar
	Tehsil/Town	Panvel /Navi Mumbai
	District	Raigad
	State	Maharashtra
10.	Nearest Railway Station/Airport	Nearest Railway Station: Panchnand,2.0

	along with distance in kms.	Km Nearest Airport: Mumbai International Airport,
11.	Nearest Town, City, District Headquarters along with distance in kms.	Navi Mumbai
12.	Village Panchayats, Zilla Parishad, Municipal Corporation, Local body (complete postal addresses with telephone nos. to be given)	M/S.CIDCO
13.	Name of Applicant	M/s CIDCO City and Industrial Development Corporation of Maharashtra Ltd.
14.	Registered Address	M/s CIDCO City and Industrial Development Corporation of Maharashtra Ltd. Nirmal, Second Floor, Nariman Point Mumbai – 400 021
15.	Address for correspondence:	M/s CIDCO Ltd., Office of Executive Engineer(Hsg-I),8th floor, Raigad Bhavan, CBD Belapur, Navi Mumbai – 400 614
	Name	Shri. P.B.Kale
	Designation (Owner/Partner/CEO)	Executive Engineer (Hsg-I)
	Address	M/s CIDCO Ltd., Office of Executive Engineer(Hsg-I),8th floor, Raigad Bhavan, CBD Belapur, Navi Mumbai – 400 614
	Pin Code	400 614
	Telephone No.	022-6712 1035
	Fax. No.	022-27571311
	Email	pbkale_12@yahoo.co.in
16.	Details of Alternate Sites examined, if any. Location of these sites should be shown on a topo sheet	Not Applicable

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	No
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  Not Applicable  Not Applicable  Not Applicable
22.	Whether there is any Government Order/Policy relevant/relating to the site?	No
23.	Forest Land involved (hectares)	No
24.	Whether there is any litigation pending against the product and/or land in which the project is propose to 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.	No  Not Applicable Not Applicable Not Applicable

- **Capacity corresponding to sectoral activity (such as production capacity for manufacturing, mining lease area and production capacity for mineral production, area for mineral exploration, length for linear transport infrastructure, generation capacity for power generation etc.,)**

## 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.)

Sr. 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)	Yes	This is Mass Housing project at Kharghar. Development as per development plan of Govt . Of Maharashtra
1.2	Clearance of existing land, vegetation and buildings?	No	.....
1.3	Creation of new land uses?	Yes	Residential (Please refer <b>Annexure-VI &amp; VII</b> for Layout plan & Tenement Statement)
1.4	Pre-construction investigations e.g. bore houses, soil testing?	Yes	Preconstruction investigation conducted at site.
1.5	Construction works?	Yes	Construction of residential buildings. As per prevalent DCR rules.  (Please refer <b>Annexure VIII</b> )
1.6	Demolition works?	No	.....
1.7	Temporary sites used for construction works or housing of construction workers?	No	Construction Camps will be provided for housing of the workers on the same plot.
1.8	Above ground buildings, structures or Earthworks including linear structures, cut and fill or excavations?	Yes	This is residential development project with basement floor; so excavation will be done.
1.9	Underground works including mining or tunneling?	No	.....

1.10	Reclamation works?	Yes	.....
1.11	Dredging?	No	.....
1.12	Offshore structures?	No	.....
1.13	Production and manufacturing processes?	No	.....
1.14	Facilities for storage of goods or materials?	Yes	Only construction materials will be stored in temporary storage at site.
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	Yes	<p>Solid Waste during construction phase will be handled by the CIDCO's Public Health Department &amp; during operation phase biodegradable waste will be composted and non biodegradable waste will be handled by CIDCO's Public Health Department .</p> <p>Sewage will be treated in CIDCO's existing sewage treatment plant (25 MLD capacity) in sec-16,Kharghar.</p>
1.16	Facilities for long term housing of operational workers?	No	.....
1.17	New road, rail or sea traffic during construction or operation?	No	.....
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc?	No	.....
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	.....

1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	No	.....
1.22	Stream crossings?	No	.....
1.23	Abstraction or transfers of water from ground or surface waters?	No	.....
1.24	Changes in water bodies or the land surface affecting drainage or run-off?	No	.....
1.25	Transport of personnel or materials for construction, operation or decommissioning?	Yes	There will be transport of construction materials. Precautions will be taken to reduce the impact of the vehicular movement by trying to avoid the vehicular trips during peak hours. For details of the transportation of Constructional material. (Please refer <b>Annexure VIII</b> )
1.26	Long-term dismantling or decommissioning or restoration works?	No	.....
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	No	.....
1.28	Influx of people to an area in either temporarily or permanently?	Yes	Since this is a Residential development project of Mass Housing the influx of people will be on permanent basis.
1.29	Introduction of alien species?	No	.....
1.30	Loss of native species or genetic diversity?	No	.....
1.31	Any other actions?	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):**

Sr.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	.....
2.2	Water (expected source & competing users) unit: KLD	Yes	Construction phase – 500 m <sup>3</sup> /day Operation phase – 1223 m <sup>3</sup> /day. Source – Domestic water requirement will be supply from CIDCO . (Please refer <b>Annexure-IX</b> for Water Management)
2.3	Minerals (MT)	No	.....
2.4	Construction material – stone, aggregates, sand / soil (expected source – MT)	Yes	Raw material mostly required shall be murum, sand, stones, cement, bitumen, and earthwork will be procured from approved quarries.
2.5	Forests and timber (source – MT)	No	.....
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)	Yes	<b>Construction period:</b> Power requirement will be about 1000 kW, which will be of temporary nature, and supply will be from M/s. MSEDCL <b>Operation Period:</b> Total connected load: 10611 kw Total Max. Demand: 5894 kw. (Please refer <b>Annexure-X</b> for Energy including electricity and fuel)
2.7	Any other natural resources (use appropriate standard units)	No	.....

**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.**

Sr.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	.....
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	.....
3.3	Affect the welfare of people e.g. by changing living conditions?	Yes	Positive Impact
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.,	No	.....
3.5	Any other causes	No	.....

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

Sr.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	.....
4.2	Municipal waste (Domestic and or Commercial wastes)	Yes	Biodegradable Waste:57.12MT/Month  Non Biodegradable Waste: 36.96MT/ Month Total = 94.08 MT/ Month Biodegradable waste will be composted at Kalamboli, whereas non biodegradable will be given to authorized dumping ground(Chawl) of CIDCO .



			(Please refer <b>Annexure-XI</b> Solid Waste Management)
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	No	.....
4.4	Other industrial process wastes	No	.....
4.5	Surplus product	No	.....
4.6	Sewage sludge or other sludge from effluent treatment	Yes	Common STP is provided by CIDCO  (Please refer to <b>Annexure No. IX</b> )
4.7	Construction or demolition wastes	Yes	Construction wastes.  Debris generated will be dumped to the CIDCO dumping ground.  Solid waste generation during construction phase is mainly due to excavation in the form of rubble and soil. Part of this soil and rubble will be used for back filling and remaining material will be disposed by covered trucks to the authorized disposal sites.
4.8	Redundant machinery or equipment	No	.....
4.9	Contaminated soils or other materials	No	.....
4.10	Agricultural wastes	No	.....
4.11	Other solid wastes	No	.....

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

Sr.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	No	.....
5.2	Emissions from production processes	No	.....
5.3	Emissions from materials handling including storage or transport	Yes	Very minimal, as the vehicles use will be with EURO Engine

			whereas construction machinery use will be properly maintained.
5.4	Emissions from construction activities including plant and equipment	No	.....
5.5	Dust or odours from handling of materials including construction materials, sewage and waste	Yes	Dust levels will be higher during the construction phase than operational phase. Proper measures such as sprinkling of water on the ground and construction will be done at regular intervals to reduce the spreading of the dust particles.
5.6	Emissions from incineration of waste	No	.....
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	.....
5.8	Emissions from any other sources	No	.....

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

Sr.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data with source of information data
6.1	From operation of equipment e.g. engines, ventilation plant, crushers	Yes	All construction material & equipment will be well maintained in order to minimize noise level to the acceptable levels.
6.2	From industrial or similar processes	No	.....
6.3	From construction or demolition	Yes	<b>During Construction phase:</b> During construction phase, sources of noise pollution will be due to operation of machinery as well as transportation vehicles.  Noise generated from the equipments will be nominal and to control the same the following measures shall be adopted:  Properly maintained equipments with mufflers will be used. Use of

			<p>equipment generating noise of not greater than 90 db (A) will be used.</p> <p>High noise generating construction activities would be carried out only during day time. Workers working near high noise construction machinery would be supplied with ear muffs/ear plugs.</p>
6.4	From blasting or piling	Yes	<p>Rock is available at shallow depth however if piling is required, only at the time of piling work but piling will be carried out during peak hours &amp; with new technology equipment such as rotary drilling rigs etc. so as to reduce the noise level.</p>
6.5	From construction or operational traffic	Yes	<p><b>During Construction phase:</b> There will be transport of materials for construction work. Precautions will be taken to reduce the impact of the vehicular movement such as vehicular trips will not be at peak traffic hours.</p> <p><b>Operation Phase :</b> The proposed project is of Residential development the source of air and noise pollution is vehicular noise only. The vehicular parking will be restricted only in the adequate parking area provided, which would help in reducing noise and air pollution due to vehicular movement.</p> <p>The project proponent has proposed tree plantation which will also help to reduce the noise level and enhance air quality.(Please refer <b>Annexure XII &amp; XIII</b> for green belt development and Traffic management)</p>
6.6	From lighting or cooling systems	No	.....
6.7	From any other sources	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:**

Sr.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
7.1	From handling, storage, use or spillage of hazardous materials	No	.....
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of Discharge)	No	The Sewage generated will be about 1038 m <sup>3</sup> /day and it is treated in centralised sewage treatment plant.  (Refer to <b>Annexure no. IX</b> )
7.3	By deposition of pollutants emitted to air into the land or into water	No	.....
7.4	From any other sources	No	.....
7.5	Is there a risk of long term build up of pollutants in the environment from these sources?	No	.....

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

Sr.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.	No	—
8.2	From any other causes.	No	—
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, cloudburst etc)?	Yes	Disaster Management Program will be done.

**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**

Sr. 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:		
	Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.)	Yes	<ul style="list-style-type: none"> <li>• Wide and properly surfaced internal and access roads network,</li> <li>• Supply of electricity from MSEDCL.</li> <li>• Adequate Water through CIDCO.</li> <li>• Planned sewerage network leading to existing CIDCO's Sewage treatment plant,</li> <li>• Rainwater Harvesting System</li> <li>• Proper storm water drainages,</li> <li>• Telecommunication system,/Fire fighting system,</li> <li>• Solid waste management,</li> <li>• Parking bay etc.</li> </ul>
	Housing development	Yes	Proposed MIG&HIG Mass Housing scheme at sector 36, Kharghar by CIDCO.
	Extractive industries	No	.....
	Supply industries	No	.....
	Other	No	.....
9.2	Lead to after-use of the site, which could have an impact on the environment	No	.....
9.3	Set a precedent for later developments	No	.....

9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects.	No	—
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**(I) 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	.....
2	Areas which are important or sensitive for ecological reasons – Wet-lands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	No	.....
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	.....
4	Inland, coastal, marine or underground waters	No	.....
5	State, National boundaries	No	.....
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas.	No	.....
7	Defense installations	No	.....
8	Densely populated or built-up area	Yes	The proposed project is situated at Sector No. 36, Kharghar.
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Yes	The nearest railway station is Panchnand. Community facilities in nearby area such as High School, Colleges, Gardens, Hotels, Talkies Mandir,& Church.
10	Areas containing important, high quality or scarce resources (ground water	No	.....

	resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)		
11	Areas already subjected to pollution or environmental damage. (Those where existing legal environmental standards are exceeded)	No	.....
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	.....

"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 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: **Kharghar**

**Signature of the Applicant**  
(Project Proponent/ Authorized Signatory)

# FORM-1 A

(Only For Construction Projects Listed Under Item 8 of the Schedule)

## CHECK LIST OF ENVIRONMENTAL IMPACTS

(Project proponents are required to provide full information and wherever necessary attach explanatory notes with the Form and submit along with proposed environmental management plan & monitoring Programme)

1. LAND ENVIRONMENT		
(Attach panoramic view of the project site and the vicinity)		
1.1	Will the existing land use get significantly altered from the project that is not consistent with the surroundings? (Proposed land use must conform to the approved Master Plan / Development Plan of the area. Change of land use if any and the statutory approval from the competent authority be submitted). Attach Maps of (i) site location, (ii) surrounding features of the proposed site (within 500 meters) and (iii) the site (indicating levels & contours) to appropriate scales. If not available attach only conceptual plans.	No, The Proposed project is Mass Housing project at sector No. 36, Kharghar and It is consistent with the surroundings.
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.	<p><b>Land Area:</b> Total Plot Area = 63717 sq. mt.</p> <p>Total built up Area= 94697.09 sq. mt.</p> <p><b>Water requirement:</b> Total – 1223 m<sup>3</sup>/day.</p> <p><b>Power requirement:</b> During Operation: Total connected load – 10611 kW Total Max. Demand: 5894 kw Power Supply – MSEDCL</p> <p><b>Parking:</b> Total Parking area: 32091.55 sq. mt.</p>



		<p><b>Connectivity:</b> Proposed project is situated on sector 36, Kharghar.</p> <p>The nearest railway station is Panchnand. railway station and nearest Airport is Mumbai International Airport.</p> <p>(Please refer <b>Annexure – I to XIII.</b>)</p>
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 land use, disturbance to the local ecology).	The project is residential development i.e. Mass Housing project. The Proposed area will be now developed into well organized Housing area which will have Good living conditions. Also green features such as Rain water harvesting, additional tree plantation, etc shall be practiced. Hence this project will have overall positive impact.
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).	No disturbance
1.5	Will the proposal involve alteration of natural drainage systems? (Give details on a contour map showing the natural drainage near the proposed project site).	No Alteration to the natural drainage. All along the road storm water drains will be provided to collect water during rains. The storm water drains adequately sized to prevent over flooding of the site. The excess run off will be directed towards the nearest storm water drain.
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.)	Solid waste generation during construction phase is mainly due to excavation in the form of rubble and soil. Part of this soil and rubble will be used for back filling and remaining material will be disposed by covered trucks to the authorized sites.  The quantum of earthwork required for reclamation at site is estimated to be 1,90,000 cum.

1.7	Give details regarding water supply, waste handling etc during the construction period.	<p>The water supply for domestic purpose will depend on CIDCO water supply, where as tanker water will also be made available as and where required.</p> <p>The sewage generated will be treated in CIDCO's central sewage treatment plant located at 5 Km from site.</p> <p>(Please refer <b>Annexure IX.</b>)</p>
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)	<p>No permanent impacts will be there on the existing facilities, only some temporary changes will occur only during construction phase, which will be properly mitigated.</p> <p>Therefore there will be no low-lying areas and wetlands get altered.</p>
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)	<p>No health hazard. Minor quantity of construction debris will be generated which will be used as filling in the site</p> <p>Normal debris, waste concrete, excavation soil, broken bricks, waste plaster etc. will be generated, metallic waste, wood, and oil also generated.</p> <p>Food waste and other bio-degradable waste will be generated from the labour camp.</p> <p>Reuse for land filling in the project premises. Solid waste generation during construction phase will be used for back filling and remaining material will be disposed by covered trucks to the authorized sites. There will be no requirement to bring materials for filling from outside.</p>
<b>2.</b>	<b>WATER ENVIRONMENT</b>	
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.	<p>Water requirement for domestic purpose will have to tap from adequate source of CIDCO water supply.</p> <p>The arrangement such as Rain water harvesting also provided to have better water table so that requirement of water can be made within the project area. The</p>

		wastewater generated will be conveyed & treated in central sewage treatment Plant.  (Please refer <b>Annexure IX &amp; XI.</b> )
2.2.	What is the capacity (dependable flow or yield) of the proposed source of water?	During operation 1223m <sup>3</sup> /day. (Please refer <b>Annexure IX.</b> )
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)	Not Applicable
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)	Not Applicable
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 consumption)	No
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)	During operation phase about 1038 m <sup>3</sup> /day sewage will be generated. (Please refer <b>Annexure IX.</b> )
2.7.	Give details of the water requirements met from water harvesting? Furnish details of the facilities created.	Not Applicable
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?	There will be creation of residential land use as per Approved development plan of Navi Mumbai by Government of Maharashtra. The project will have proper storm water drainage facility. There is a central Detention pond of 30 Ha. area adjacent to the project site where the storm water drainage will be discharged. The diversion channel will be provided from this detention pond leading to the natural river (Taloja river). So there will be no problem of water logging due to this project. (Please refer <b>Annexure IX.</b> )

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)	The water demand will be met from the CIDCO water supply source. In any case, water demand for construction is temporary in nature.
2.10.	What precautions/measures are taken to prevent the run-off from construction activities polluting land & aquifers? (Give details of quantities and the measures taken to avoid the adverse impacts)	<p>During construction phase proper sewage collection system will be provided, which will be treated to avoid any adverse impact on the environment.</p> <p>Proper Storm drainage pattern will be provided and project boundary will be there. All along the road storm water drains would be provided to collect water during rains. They would be adequately sized to prevent over flooding of the site. The excess run off will be directed towards the nearest storm water drain leading to Detention pond.</p> <p>(Please refer <b>Annexure IX.</b>)</p>
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)	<p>The project will have proper storm water drainage facility to avoid water logging. The Storm Water Drain shall lead to adjacent Detention pond So there will no problem of water logging due to this project</p> <p>(Please refer <b>Annexure IX.</b>)</p>
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)	Construction labour camp with proper civil facilities will be provided.
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)	Septic tank will be provided Effluent will be discharged through existing network
2.14.	Give details of dual plumbing system if treated waste used is used for flushing of toilets or any other use.	No.

3.	<b>VEGETATION</b>	
3.1.	Is there any threat by the project to the biodiversity? (Give a description of the local ecosystem with its unique features, if any)	No, There will be no significant impact of the project on flora and other vegetation due to any of the pollution parameters during operational phase of the project
3.2.	Will the construction involve extensive clearing or modification of vegetation? (Provide a detailed account of the trees & vegetation affected by the project)	No.
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)	<p>The proposed project land will be converted to evergreen piece of environment friendly settlement.</p> <p>It is proposed to develop green belt with various types of trees, plants etc. The care will be taken to minimize the air pollution due to other sources by help of this Green Belt Cover. (Please refer <b>Annexure XII.</b>)</p>
4.	<b>FAUNA</b>	
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.	No, There will be no significant impact of the project on fauna due to any of the pollution parameters during operational phase of the project. No significant impact is envisaged on the local fauna during the operational phase of the project.
4.2.	Any direct or indirect impacts on the avifauna of the area? Provide details.	No
4.3.	Prescribe measures such as corridors, fish ladders etc to mitigate adverse impacts on fauna	Not Applicable
5.	<b>AIR ENVIRONMENT</b>	
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)	No
5.2.	What are the impacts on generation of dust, smoke, odorous fumes or other hazardous gases? Give details in	No, The proposed Project is a construction of residential building project there will not be any type of dust, smoke, odorous fumes

	relation to all the meteorological parameters.	or other hazardous gases generated.
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.	No, propose project will provide adequate no. of parking, well entry & exit point to avoid traffic congestion.  (Please refer <b>Annexure XIII.</b> )
5.4.	Provide details of the movement patterns with internal roads, bicycle tracks, pedestrian pathways, footpaths etc., with areas under each category.	As per Layout plan.
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.	No
5.6.	What will be the impact of DG sets & other equipment on noise levels & vibration in & ambient air quality around the project site? Provide details.	DG set will be used in operation phase only in case of power failure. The DG Sets shall be as per the guide lines laid down by EPR for specific noise emission standards. Measures shall be taken for reduction of noise by using acoustic enclosures.
6.	<b>AESTHETICS</b>	
6.1.	Will the proposed constructions in any way result in the obstruction of a view, scenic amenity or landscapes? Do the proponents take these considerations into account?	No, the proposed project will indeed increase the aesthetic value of the area.
6.2.	Will there be any adverse impacts from new constructions on the existing structures? What are the considerations taken into account?	No.
6.3.	Whether there are any local considerations of urban form & urban design influencing the design criteria? They may be explicitly spelt out.	No.

6.4.	Are there any anthropological or archaeological sites or artifacts nearby? State if any other significant features in the vicinity of the proposed site have been considered.	No.
<b>7. SOCIO-ECONOMIC ASPECTS</b>		
7.1.	Will the proposal result in any changes to the demographic structure of local population? Provide the details.	Yes. There will be increase in the demographic structure of local population.
7.2.	Give details of the existing social infrastructure around the proposed project.	There are social infrastructure provided by CIDCO in the form of Central Park, Golf Course & other facilities etc.
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
<b>8. BUILDING MATERIALS</b>		
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)	<p><b>Energy Conservation – a priority feature.</b></p> <ul style="list-style-type: none"> <li>• Proper signage's for Energy conservation wherever applicable.</li> <li>•</li> <li>• Use of Tinted Glass</li> <li>• For construction Ready Mix Concrete will be used.</li> <li>•</li> <li>• Optimum use of fly ash in construction.</li> <li>• Siporex type blocks are used for masonry work</li> <li>•</li> <li>• External walls are painted with the painting system having reflection of solar radiation.</li> </ul>

8.2.	Transport and handling of materials during construction may result in pollution, noise & public nuisance. What measures are taken to minimize the impacts?	<p>During construction phase vehicles carrying construction material will be covered by traps to avoid spilling and blowing by wind.</p> <p>Ready mix concrete will also reduce the trucks trips</p> <p>Water sprinkling on ground and new construction will be done at regular intervals to reduce spreading of dust particles.</p> <p>Vehicular trips will not be in peak traffic hours. This will reduce the load on transport systems.</p>
8.3.	Are recycled materials used in roads and structures? State the extent of savings achieved?	No
8.4.	Give details of the methods of collection, segregation & disposal of the garbage generated during the operation phases of the project.	<p>Segregation or sorting of waste at its source will be practiced in order to encourage reuse/ recycling and to minimise the negative effects of the waste and increase its economic value.</p> <p>(Please refer <b>Annexure XI.</b>)</p>
<b>9. ENERGY CONSERVATION</b>		
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?	<ul style="list-style-type: none"> <li>• Variable frequency drive for Pumps &amp; Air Handling units.</li> <li>• Automatic capacitors to maintain higher power factor.</li> <li>• Use of energy efficient motors for fans and air handling units.</li> <li>• Use of tinted glass.</li> <li>• Construction with aerated concrete block instead of normal brick construction.</li> <li>• CFL/T5 Lamps instead of T-8 lamps.</li> </ul>
9.2.	What type of, and capacity of, power back up to you plan to provide?	Emergency Power Through D.G. Sets with acoustic enclosure for the entire DG room to avoid noise pollution.



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?	Tinted glass will be used.
9.4.	What passive solar architectural features are being used in the building? Illustrate the applications made in the proposed project.	--
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.	--
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?	--
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.	--
9.8	What are the likely effects of the building activity in altering the micro-climates?  Provide a self assessment on the likely impacts of the proposed construction on creation of heat island & inversion effects?	No any adverse impact of building activity.
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.	Brick Bat Coba will be provided at roof level.  Siporex block for masonry work  Tinted glass for fenestration

9.10	What precautions & safety measures are proposed against fire hazards? Furnish details of emergency plans.	Proper fire fighting system will be provided. (Please refer <b>Annexure XIV.</b> )
9.11	If you are using glass as wall material provides details and specifications including emissivity and thermal characteristics.	--
9.12	What is the rate of air infiltration into the building? Provide details of how you are mitigating the effects of infiltration.	--
9.13	To what extent the non-conventional energy technologies are utilised in the overall energy consumption? Provide details of the renewable energy technologies used.	(Please refer <b>Annexure X.</b> )
<b>10.</b>	<p><b>Environment Management Plan</b></p> <p>The Environment Management Plan would consist of all mitigation measures for each item wise activity to be undertaken during the construction, operation and the entire life cycle to minimize adverse environmental impacts as a result of the activities of the project. It would also delineate the environmental monitoring plan for compliance of various environmental regulations. It will state the steps to be taken in case of emergency such as accidents at the site including fire.</p>	Proper Environmental Monitoring Plan will be provided.