



Eco-Housing Registration Form New Construction

Dear Sir,

We, _____ (*Name of Company*), wish to register our residential project, _____ (*Name*) at _____ (*Location*), *Mumbai* for Eco-housing certification.

Necessary particulars are provided as below:

Date:

Applicants' Information:

First Name: Last Name:

Mobile: E-mail:

Organization:

Postal Address of the organization:

Telephone: Email:

Project Details:

Project:

Title:

Location:

Developer:

Architect:

Project Address:

CS/ CTS No.

Plot Area

Certification Fees:

The certification fee for new construction is Rs. 20 / Sq.mt

Certification fee for project is Rs. 20 x _____sq. mt (Total built up area)

= Rs. _____

Payment Information:

Demand Draft: Payable to 'Municipal Corporation of Greater Mumbai'

We are enclosing registration phase submittal requirements (*As indicated in the table below*) as per the "Eco-housing Assessment Criteria norms". We request you to scrutinize our case for grant of provisional Eco-housing certification.

Registration Stage Submittal Requirements New Construction

Criteria No.	Criteria	Submittal Requirement (At Registration Stage)
1. Site Planning		
1.1	Mandatory	
	Site selection to protect Eco sensitive zones of the city	Location map showing site and its surrounding area up to 2 km radius on the city Development Plan.
1.2	Non Mandatory	
	Locate the site so that basic amenities are within ½ km of housing and amenities such as i) Convenience grocery ii) healthcare facility iii) Community hall within site premises.	Location map showing site and the listed facilities within 1/2 km. Photographs of the facilities need to be attached and locations to be marked on the plan
1.3	Mandatory	
	Implement measures prescribed in the Biodiversity Conservation for Eco-housing to restore and promote the biodiversity of the area, for sites located in the vicinity of ecologically sensitive areas	Inventory Report on existing Flora & Fauna of site. Narrative and supporting concept landscape drawings on proposed biodiversity conservation measures
1.4	Non Mandatory	
	For projects larger than 1.00 hectare, remove topsoil, and preserve for re use on site or send to MCGM designated sites.	Site plan (CAD drawing) along with a narrative to demarcate areas on site from which topsoil has to be gathered (Colour coded Red). Location of designate area where it will be stored (Colour coded brown) and indicative areas where it will be reapplied after construction is complete (Colour coded green) Top soil Analysis report showing pH, organic content and mineral content
1.5	Mandatory	
	Prevent soil erosion for large sites during construction by providing sedimentation basin, contour trenching, mulching, as required.	Conceptual CAD drawing showing site plan details and sections of existing slopes and site drainage pattern, erosion and sedimentation control measures proposed on site
1.6	Mandatory	
	Preserve existing vegetation on site; land rich in bio diversity; follow detailed guidelines of tree preservation as per draft NBC; Part 10	CAD drawing showing proposed landscape plan with identification of trees (different colour coding to be used for trees protected, preserved, transplanted and removed) corresponding to a tabular tree survey (to be included in dwg). List details about species, which existed, and the species that will be replanted on site.

		Landscape plan, indicating the existing trees removed, if applicable, with the location and number of newly planted trees in the proportion of 1:5
1.7	Mandatory	
	Existing drainage pattern to be surveyed, documented. Proposed drainage pattern should not alter the existing drainage pattern.	Pre construction site survey plan showing existing drainage patterns, slopes and contours. Site plans for proposed construction to show compliance. MCGM approval certificate on proposed surface drainage system has to be submitted.
1.8	Non Mandatory	
	Measures shall be followed for collecting runoff from construction areas and material storage sites; diverting water flow away from such polluted areas, so that pollutants do not mix with storm water runoff from undisturbed areas. Temporary drainage channels, perimeter dike/swale, etc shall be constructed to carry the pollutant-laden water directly to treatment device or facility/municipal drains. The plan shall indicate how the above is accomplished on site, well in advance of the commencing of the construction activity.	Concept drawings showing material storage sites, proposed diversion channels and location of treatment devices or connection with municipal drains as applicable. Photographs
1.11	Non Mandatory	
	Site should be properly planned to mitigate the 'heat island effect'	Site drawings showing paved/unpaved areas and parking lots.
	Provide shade on at least 40% of non-roof impervious surfaces on the site, including parking lots, walkways, plazas etc.	Show shading plans proposed for paved surfaces from 10 a.m- 3 p.m (by built form / vegetation)
	Place a minimum of 50% of parking space underground OR plan covered parking with a reflective roof (net impervious area of less than 50%) for a minimum of 50% of the parking area.	Show parking layouts Please provide details of proposed trees to demonstrate that 100% shading shall be obtained by 5 years of establishment of proposed trees.
2. Environmental Architecture		
2.1	Non Mandatory	
	Set up an integrated design team with following members: architect, structural, electrical, mechanical, plumbing/water/waste, landscape architect, and energy/environmental consultant.	Name and profile of consultants appointed in project team
2.2	Non Mandatory	
	Adopt climate responsive design practices to achieve thermal comfort criteria as specified in National Building Code Part 8, section 1 lighting and ventilation; subsection 5.2.3.1 (under revision). Strategies may include (but not limited to) the following:	Narrative (maximum 500 words with supporting drawings and sketches) should include climate responsive strategies for 1) thermal comfort 2) air movement and natural ventilation 3) day lighting 4) solar and rain protection control to ensure maximum thermal and visual comfort
2.3		
	Roof should be protected against excessive heat	Narrative indicating the methods adopted for

	gain by appropriate insulation to give U-value as specified by Draft 'ECBC'2005.	protecting the roofs from excessive heat gains (roof garden / insulation/ shading)
	Alternately provide roof garden for 100% of exposed roof area or provide 100% shading for 100% of exposed roof area	
	Provide double skin material for roof with a gap in between to provide convectional air currents or Provide china mosaic floor finish, which offers good reflectance and high emittance.	

3. Energy Conservation & Management:

3.13	Non Mandatory	
	Use renewable energy based lighting system for minimum 25% external lighting requirement on site or for common/ circulation areas within the building with the provision of back up system for lighting.	Demarcate renewable energy based lighting systems in landscape layout for outdoor lighting. Specify RE application used and indicate if 50 % or 100% lighting is based on RE
3.14	Non Mandatory	
	Out of total electric consumption (indoor & outdoor both) certain % needs to be managed by using renewable sources of energy	Narrative (maximum 500 words with supporting drawings and sketches) should include strategies for utilization of renewable energy
3.16	Non Mandatory	
	Provide water heating systems using recovered waste heat, heat pumps, Piped Natural Gas (PNG), solar water heaters and other renewable energy to cater to a) Minimum 40% of total hot water requirement b) Between 60%-75% c) Between 76%-100%	Plan showing SWH installation and sizing calculation for a typical household.

4. Energy Efficient Building material:

4.4	Non Mandatory	
	Alternative Structural System: a. Ferro cement and / or Precast components ¹ for columns, beams, slabs, staircases, lofts, balconies, roofs etc. b. Ready Mix Concrete	Identify areas or places of construction where alternative structural system is being used. Please mark on template provided.

5. Water Conservation:

5.5	Mandatory	
	Install a treatment system based on non-energy intensive and eco-friendly technology for treatment of total volume of grey water.	Location site plan showing proposed treatment facility
5.6	Non Mandatory	
	Install an eco-friendly treatment system for combined stream of grey water and black water	Location site plan showing proposed treatment facility

6. Water Conservation:

6.3	Mandatory	
	Set up decentralized treatment plant based on	Site plan with location and capacity for

	non-energy intensive and ecofriendly technology for the treatment of 100% of organic wastes.	decentralized treatment of organic waste
6.6	Mandatory	
	For Re-development project,, prepare a debris recycling and reuse plan indicating minimum 70% of debris being recycled and its onsite application during construction.	Narrative (not more than 200 words) for each measure.
7. Other Innovative Measures:		
7.3	Mandatory	
	Buildings shall comply to IS codes for Earthquake resistance. (IS 1893/ IS4326/ IS13920)	Structural design basis report including structural design drawings, software simulated analysis drawings for earthquake vulnerability. Hazard impact and mitigation statement/ report and management plan
7.4	Mandatory	
	Provide minimum level of sanitation on site as per DC Rules during construction.	Areas on site demarcating labour camps with sanitation facilities.
7.5	Non Mandatory	
	Provide facilities for handicap access as per DC rules	Municipal approval drawing for handicap access per DC rule
7.8	Non Mandatory	
	Other innovative eco friendly measures not listed	Narrative (not more than 250 words) for each measure.

Please note: Submittal Requirements for other stages of construction will be indicated on project registration