





(Individual Green Homes)





IGBC's NESTPLUS

(Individual Green Homes)



IGBC Initiative - Residential Sector









New Launch











'To facilitate self-developed residential projects to implement green measures and become sustainable and healthy'





All individual homes with built up area less

than 3,000 sq.ft

- *****Rating Levels
 - Certified, Silver, Gold
 - Certificate of Award
- Certification based on photographic evidence & checklist based









Mandatory Requirements



1. Local Building Regulations

2. Waste Segregation of Dry & Wet Waste

3. Rainwater Harvesting:

Storage of 500 Liters





* Passive Architecture

> Provide any two features:

Courtyard, Vernacular materials, Local Vernacular Elements, Any other passive cooling/Heating system, Skylights

*** Topsoil Preservation**

Preserve top 150-200 mm soil during excavation

* Setbacks

Provide minimum of 3 ft setback or as per local norms whichever is higher

*** Basic Amenities**







* Vegetation and Natural Topography

- Provide the vegetation either on
 Ground/ built up structures
- *** Vegetables / Fruits 2 varieties**
 - Grow a minimum of two vegetable/Fruit species.
- *** Medicinal Plants- 2 varieties**
 - Grow a minimum of two medicinal species
- *** Indoor Plants 5 Plants**
 - Grow Indoor Plants















- Provide shade for vehicles using either by tree shade or covered parking space
- * Bicycle for commuting
 - Use at least one bicycle for commuting purpose and provide dedicated parking space
- * E Vehicle/Renewable fuel-based vehicle
 - > Use at least one of the following vehicle type
 - E vehicle, CNG based vehicle, LPG based vehicle,
 Any other renewable fuel-based vehicle











* Best Practices during Construction

- Implement the following measures during the construction
 - Barrication
 - Dust Suppression
 - Material Stacking
 - Drinking Water and First Aid
 - Designated waste material storage space
 - □ Soil cover with tarpaulin

* White finish

 Use materials with china mosaic/light colored paint/reflective coating/terrace landscaping









Enhanced Rainwater Harvesting and Reuse

- Capture at least 750 Liters for every entire site area runoff
- > Reuse provision for harvested water
- *** Water Saving Fixtures**
 - Provide efficient water fixtures
- * Water Metering, Water Level Controllers
 - > Water metering
 - Automatic water level controllers for Overhead tank







- Wall: AAC Blocks/ Fly ash Bricks/Equivalent Thermal Properties
- Roof: RCC + Brickbat coba/Filler slabs/Insulation/ Equivalent Thermal Properties
- Energy Saving Appliances: LED Light Fixtures, Ceiling Fans (BEE 3 star/BLDC), Min BEE 3 Star rated appliances
- Sun-shades/Chajjas: sun-shades/ chajjas of minimum 400mm
- * Alternate Hot Water System
- * On-site Solar Power: 0.5 kW, 1.5 kW, 2.5kW
- * Electric vehicle charging





* Kitchen waste composting

- Provide khamba /compost pit for each home.
- The generated manure shall be utilised as appropriate

* Green Procurement – Ecolabelled

 Use of Green certified/GreenPro Construction Materials

* Local Materials

 Procure the materials from manufacturers within 500 KM range







* Daylighting

 Ensure a minimum daylighting of 110 Lux during the daytime.

* Ventilation

 Provide openable windows to the exterior in all regularly occupied spaces

* Exhaust System

> Provide exhaust systems in kitchen and bathrooms

* Cross Ventilation

 Ensure two openings (window/ventilator) in each space

*** Exterior Views**

 Ensure connectivity between the interior and exterior spaces to achieve visual delight







Home Automation



- Install the home automation devices / BMS for the items listed below.
 - > Air Conditioner / Washing machine
 - Lighting Controls
 - > CCTV
 - > Solar meter
 - Sensors (Motion, Daylight)
 - IAQ Monitoring
 - Dashboard for Energy and water consumption











Implementation



App based information

Basic calculations Automated Savings



Geo-tag Photographs

Stage wise

Certification level	New	Existing
Points Available	85	75
Certified	40	35
Silver	50	45
Gold	65	60



Measures – No Investment

- *** Topsoil Preservation**
- *** Design elements**
 - Good Daylighting
 - Cross Ventilation
 - > Tree cover
- *** Low VOC paints**
- Water efficient fixtures
- *** Waste segregation and management**

Measures - Marginal Investment

- * High SRI Paint on Roof
- * Rainwater Harvesting
- * On-site Renewable energy
- ***** Exhausts for Toilets & Kitchen
- * Water metering
- *** Home Automation**













Simple Documentation



oted		Pa	Ар	Applicability		1		Page 8	
Attempted	Not Attempted	NEST PLUS Crit <mark>e</mark> ria	New	Existing	Mandatory /Credit	Requirements		Documents	MET MAST
Y		Local Building Regulations	1	1	м	Approved Plan from local municipal authority	☑	Approved Plans	
Y		Waste Segregation - Dry & Wet	1	1	М	Provide 2 separate bins to collect dry waste (paper, plastic, metals, glass, etc.,) and wet waste (organic).	•	Photographs of 2 separate bins	
Y		Rainwater Harvesting 500 Liters	1	~	M	Rainwater harvesting system to capture at least 500 litres from the entire site area runoff. Or Project can have rainwater harvesting pit to capture run-off from roof.		Photograph of rainwater harvesting pits	Kaveri
	4	Passive Architecture	4	2	с	Provide any two features mentioned below. For each feature two points (max 4 points): 1. Courtyard 2. Vernacular materials 3. Local Vernacular Elements		Concept description of features	
						 Any other passive cooling/Heating system Skylights 		Photographs of the passive architecture measure	
1		Top soil Preservation	1	۲	С	Preserve top 150-200 mm soil during excavation	•	Photographs of top soil preservation	
2		Setbacks	2	2	с	Provide minimum of 3 ft setback or as per local norms whichever is higher on 2 sides (1 point) More than 2 sides (2 points)	2	Photographs of setback areas	

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