## Site Selection and Planning

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<td><strong>Total</strong></td>
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SSP Mandatory Requirement 1
Local Building Regulations

✈ Intent

- Ensure that the building complies with necessary statutory & regulatory codes

✈ Compliance Options

- Approved site plan (and/or) building plans for construction, as applicable
- Status of completion or Completion certificate signed by Architect/Engineer/Owner or Third party Commissioning Authority (OR) Occupancy certificate from Local Authority

SSP Mandatory Requirement 2
Soil Erosion Control

✈ Intent

- Control soil erosion and sedimentation thereby reducing negative impacts to the site and surroundings
Top Soil Preservation

Top soil stacking

Soil Erosion Control

Temporary seeding

Permanent seeding
Sedimentation Control

- Earth dikes
  - Divert water to sediment traps and basins
- Silt fencing
  - Filter media to remove sediments
- Sediment traps
  - Embankment to allow settling of sediment from stormwater
- Sediment basins
  - Pond with controlled water release

SSP Credit 1
Basic Amenities

- Intent
  - Provide access to basic amenities
    - To reduce negative impacts caused from automobile use
SSP Credit 1
Basic Amenities

- Compliance Options

- At least seven basic amenities, within a walking distance of 1 km from the building entrance

List of Basic Amenities

1) ATM / Bank
2) Clinic/ Hospital
3) Crèche/ School
4) Grocery store / Supermarket
5) Laundry/ Dry cleaners
6) Park/ Garden
7) Pharmacy
8) Post office / Courier service
9) Restaurant / Cafeteria
10) Service apartment/ Hotel
11) Sports club/ Fitness center
12) Theatre
13) Utility bill payment center (Electricity / Water)
SSP Credit 1
Basic Amenities

SSP Credit 2
Proximity to Public Transport

**Intent**

- Encourage use of public transport
  - To reduce negative impacts caused from automobile use
**SSP Credit 2**

**Proximity to Public Transport**

- **Compliance Options**
  - **Option 1: Public Transport**
    - Locate the building within 800 meters walking distance from Intra-city railway station, Bus-stop.
  - **Option 2: Provide Shuttle Service**
    - From/to the nearest Intra-city railway station (Or) Bus-stop, for at least 25% of the building occupants.

**SSP Credit 3**

**Low-emitting Vehicles**

- **Intent**
  - Encourage the use of non-fossil fuel vehicles
    - thereby reducing negative impacts resulting from fossil fuel based automobiles.
Low-emitting Vehicles

Compliance Options:

- **Option 1:** Electric vehicles or Compressed Natural Gas (CNG) powered vehicles within the site
  - To cater at least 5% of the building occupants
  - Charging facility or CNG filling pump within 5 km

- **Option 2:** Electric charging Facilities for Low-emitting Vehicles
  - To cater at least 5% of the parking capacity (excluding visitor parking)
SSP Credit 4
Natural Topography or Vegetation

✈ Intent

➢ Minimise disturbances or restore the site
  ❑ To reduce long-term negative environmental impacts, thereby promoting habitat and biodiversity

✈ Compliance Options:

➢ Option 1 : Retain Natural Topography and/or Vegetation
➢ Option 2 : Install Vegetation over Built Structures
## Option 1

<table>
<thead>
<tr>
<th>Retaining of Site Area with Natural Topography and/or Vegetated Area</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>≥ 15%</td>
<td>1</td>
</tr>
<tr>
<td>≥ 20%</td>
<td>2</td>
</tr>
</tbody>
</table>

MoUD Township, New moti bagh, New Delhi

## Option 2

<table>
<thead>
<tr>
<th>Percentage of Site Area with Vegetation over built structures and on the ground</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>≥ 30%</td>
<td>1</td>
</tr>
<tr>
<td>≥ 40%</td>
<td>2</td>
</tr>
</tbody>
</table>

La Residency, Thane Platinum Rated

Vegetation Natural Swales

© Confederation of Indian Industry
**SSP Credit 5**

**Preservation or Transplantation of Trees**

- **Intent**
  - Preserve existing fully grown trees and plant new tree saplings
  - To promote habitat and biodiversity

- **Case 1: Preservation or Transplantation of Existing Trees**
  - Preserve or transplant at least 75% of existing fully grown trees
Case 2: Plantation of Tree Saplings

- Plant tree saplings that can mature into fully grown up trees within the next 5 years

<table>
<thead>
<tr>
<th>Site Area (Including development footprint)</th>
<th>Number of Tree Saplings (Including Existing and Transplanted Trees)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 1 Acre</td>
<td>8 or more</td>
</tr>
<tr>
<td>&gt; 1 Acre</td>
<td>12 per Acre or more</td>
</tr>
</tbody>
</table>

SSP Credit 6
Heat Island Reduction, Non-roof

- Intent
  - Minimise heat island effect to reduce negative impact on micro-climate

Sketch of an Urban Heat-Island Profile
SSP Credit 6
Heat Island Reduction, Non-roof

Compliance Options

- Option 1: Non-roof Impervious Areas
  - Cover at least 50% of exposed non-roof impervious areas
    - Shade from existing tree cover/ newly planted saplings within 5 to 8 years of planting
    - Open grid pavers or grass pavers
    - Hardscape materials (including pavers) with SRI of at least 29 (and not higher than 64)

Shade from Tree Cover
Grid and Grass Pavers

Grass Pavers

Grid Pavers

ISRO's IMGEOS & NDEM Facility, National Remote Sensing Centre (NRSC), Shadnagar
Platinum Rated

MoUD Township, New moti bagh, New Delhi

Points Distribution

<table>
<thead>
<tr>
<th>Non-roof Impervious Area as a Percentage of Total Non-roof Area</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 50%</td>
<td>1</td>
</tr>
<tr>
<td>&gt; 75%</td>
<td>2</td>
</tr>
</tbody>
</table>
SSP Credit 6
Heat Island Reduction, Non-roof

Compliance Options

- **Option 2: Covered Parking**
  - At least 50% of the parking under cover

### Points Distribution

<table>
<thead>
<tr>
<th>Percentage of Parking under Cover</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>≥ 50%</td>
<td>1</td>
</tr>
<tr>
<td>≥ 75%</td>
<td>2</td>
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</tbody>
</table>
SSP Credit 7
Heat Island Reduction, Roof

Intent

- Minimise heat island effect to reduce negative impact on micro-climate

Compliance Options

- Option 1: High Reflective Materials
  - Install high SRI materials to cover at least 75% of the exposed roof areas, including covered parking

<table>
<thead>
<tr>
<th>Roof Type</th>
<th>Slope</th>
<th>Minimum SRI Value</th>
<th>Maximum SRI Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low-sloped roof</td>
<td>≤ 2:12</td>
<td>78</td>
<td>-</td>
</tr>
<tr>
<td>Steep-sloped roof</td>
<td>&gt; 2:12</td>
<td>29</td>
<td>64</td>
</tr>
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High SRI Materials

ISRO’s Imgeos & NDEM Facility,
National Remote Sensing Centre (NRSC), Shadnagar
Platinum Rated

High SRI Paint

Eicher Good Earth, Corporate office, Gurgaon
Platinum Rated

China Mosaic Tiles

Points Distribution
Option 1: High Reflective Materials

<table>
<thead>
<tr>
<th>Percentage of area covered with High Reflective Material</th>
<th>Points</th>
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<tbody>
<tr>
<td>≥ 75%</td>
<td>1</td>
</tr>
<tr>
<td>≥ 95%</td>
<td>2</td>
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</table>
Option 2: Vegetation

- Install vegetation to cover at least 50% of the exposed roof areas

<table>
<thead>
<tr>
<th>Percentage of area covered with Vegetation</th>
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<tr>
<td>≥ 50%</td>
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<tr>
<td>≥ 75%</td>
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Option 3: Combination of High Reflective Materials and Vegetation

- Install high reflective materials and vegetation to cover at least 75% of the exposed roof areas

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<td>≥ 95%</td>
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SSP Credit 8
Outdoor Light Pollution Reduction

✓ Intent
  - Reduce light pollution to increase night sky access and enhance the nocturnal environment

SSP Credit 8
Outdoor Light Pollution Reduction

✓ Compliance Options:
  - Option 1: Prescriptive Approach
  - Option 2: Simulation Approach
Option 1: Prescriptive Approach

- **Upward Lighting:**
  - No external light fixture emits more than 5% of the total initial designed fixture Lumens
  - at an angle of 90 degrees or higher from nadir (straight down)

- **Lighting Power Density:**
  - Reduce by 30% vis-à-vis the ASHRAE Standard 90.1-2010 baselines

Option 2: Simulation Approach

- **Upward Lighting:**
  - Maximum initial illuminance values, as defined in ASHRAE Standard 90.1-2010
  - Classify the project under one of the lighting zones, as defined in ASHRAE Standard

- **Lighting Power Density:**
  - Reduce by 30% vis-à-vis the ASHRAE Standard 90.1-2010 baselines
Outdoor Light Pollution Reduction

Beary’s Global Research Triangle, Bengaluru
Platinum Rated

Eicher Good Earth, Gurgaon
Platinum Rated

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SSP Credit 9
Universal Design

Intent

- Ensure that the building design caters to differently abled and senior citizens

Access Ramp

Toilet facility with hand rail

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Compliance Options

Preferred car park spaces

Easy access to the main entrance of the building

Non-slippery ramps with handrails

Braille and audio assistance in lifts

Seating area near lift lobbies

Restrooms (toilets) in common areas

Main walkways/ pathways with adequate width

Visual warning signage in common areas & exterior areas

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SSP Credit 10
Basic Facilities for Construction Workforce

❖ Intent

➢ Promote welfare of the construction workforce
   □ By providing safe and healthy work conditions

❖ Compliance Options

➢ Provide basic facilities for construction workforce to exceed the guidelines of ‘The Building and other Construction Workers Act, 1996 & Rules, 1998’

Basic Facilities for Construction Workforce

Adequate housing
Sanitary facilities
First-aid and emergency facilities
Adequate drinking water facilities
Basic Facilities for Construction Workforce

- Personal protective equipment
- Emergency Alarm
- Adequate illumination levels in construction work areas
- Day care/ crèche facility for workers’ children
- Dust suppression measures

SSP Credit 11
Green Building Guidelines

- **Intent**
  - Provide building occupants, prospective tenants and the facility team with descriptive guidelines that educate and help them implement & maintain green design features

- **Compliance Options**
  - Case 1: Owner-occupied Buildings
  - Case 2: Tenant-occupied Buildings

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