

# **Municipal Corporation Faridabad**

## **Adopt Green Area Policy, 2022 to save 'greenery' across city**

Any institute or company or organization that adopts a park or area will be able to advertise in exchange for maintenance of the greenbelt (including chowks, parks, etc). Besides, there is a provision of imposing fine on the violators.

### **1.0 Introduction - Adopt Green Area Policy:**

Green Areas include greenbelts, parks, roundabouts, central verge and footpaths. Greenbelt means planting of special types of plants suitable to that particular agroclimate zone and soil characteristics in a place which will make the area cooler, reduce air pollution, prevent soil erosion and further improve the soil fertility status. A green belt around the periphery of the boundary and road side will be created to avoid erosion of soil, prevention of landslides, minimize the air pollution and noise pollution in the project area. The green plants are capable of absorbing air pollutants and forming sinks for pollutants. Leaves with their vast area in a tree crown absorb pollutants on their surface, effectively reducing their concentration and noise level in the ambient.

According to the CPCB guideline there are Agro Climatic regions, each of these regions is further divided into sub zones based on annual rainfall, climatic condition and soil types. The species recommended for the Greenbelt (i.e. species quite adapted to climatic conditions and grow well in the soil types) are also provided in this policy.

### **1.1 Existing & New Green Belt**

Adequate green belt has already been developed in and around the existing ULB area. Locally available types of trees which are resistant to pollutants should be planted. In addition to above, all open spaces can be developed as nursery, park, gardens and other forms of greenery.

### **2.0 Proposals and ULB-level committee for granting permission**

In a bid to protect parks and green belt areas, the Municipal Corporation Faridabad has prepared the Adopt Green Area Policy, 2022. In order to keep the city clean and green, the Municipal Corporation Faridabad has made roundabouts and wide green belts along the streets. Apart from this many small parks have been built in various sectors. But due to lack of supervision of the Horticulture Department, the parks, and green belts are being ruined.

Under this policy, social or educational institutes, housing societies, shopping malls, commercial complexes, eminent citizens, civil society organizations and private companies under CSR in the city can adopt parks or roundabouts. The individuals or organizations willing to adopt a green area (park/greenbelt/roundabout) may submit their proposals to the Horticulture wing,

Municipal Corporation Faridabad. Along with the application, the green area adopter (individual or organization) is required to submit a detailed plan to the horticulture department.

For reviewing and approving the proposals received under Adopt Green Area Policy, 2022, a committee with the following members shall be constituted:

1. APMC, MCF
2. CE(H), MCF
3. XEN (H), MCF
4. XEN, FMDA
5. XEN, HSVP
6. EO, HSIIDC

**For the proposals approved by the committee, the ownership of the greenbelt / green area shall remain with the Municipal Corporation Faridabad. The minimum time limit for adoption (development and maintenance) should not be less than 3 years.**

**Also, the water requirement for development and maintenance of the green belt must be covered from treated waste water only** and not the freshwater or tap water or water from tubewell. All the expenses to develop and maintain the green area shall be borne by the adopting individual / organization. No expense shall be incurred from the Municipal Corporation budget. If the green area assigned to any individual/ organisation is found to be mismanaged / undermaintained the right of the adopter to maintain the greenbelt may be revoked at anytime and no compensation shall be given for any expenditure done by the adopter in the past.

### **2.1 Advertisement rights and provision of penalty**

A company or organization that adopts a park or roundabout or greenbelt area as per the norms outlined below will be able to advertise in exchange for maintenance of the park or roundabout or greenbelt area. Besides, there shall be a provision of imposing fine on the violators. To exercise the same, the adopter of the greenbelt may submit a complaint against the defaulters causing trouble in effective development and maintenance of the green belt to the Horticulture department, MCF. The Horticulture Department , MCF shall take necessary action against the violator.

### **3.0 Guidelines & Techniques for Green Belt Development to be followed by greenbelt adopting individual/organization:**

Extensive surveys may be undertaken. A combination of plants is selected depending upon the topographical suitability and species selected as per SPCB Guideline. The soil characteristics should be kept in mind. Based on this survey and environmental conditions suitable native plants may be proposed for green belt development.

Plantation along roads must take into account visibility aspects on curves so as to ensure safe driving. Plantation will be done in a three-tier system consisting of large trees, smaller trees and shrubs, Whereas some grasses and flowering plants are grown on lawns and gardens.

1. First layer consists of shrubs and grasses.
2. Second layer consists of smaller trees.
3. Third layer consists of larger trees.

### **3.1 Development of Green Belt by greenbelt adopting individual/organization:**

The plantation matrix adopted for the green belt development should include pits of 0.3 m x 0.3 m size with a spacing of 2 m x 2 m. In addition, earth filling and manure may also be required for the proper nutritional balance and nourishment of the sapling. It is also recommended that the plantation has to be taken up randomly and the landscaping aspects could be taken into consideration.

Multi-layered plantations consisting of medium height trees (7 m to 10 m) and shrubs (5 m height) are proposed for the green belt. In addition creepers may be planted along the boundary wall to enhance its insulation capacity.

Greenbelt is a set of rows of trees planted in such a fashion, to create an effective barrier. The greenbelt helps to capture the fugitive emissions, attenuate the noise levels in the existing project and simultaneously improve aesthetics of the surroundings. The greenbelt should be developed in keeping view of the following objectives.

1. Planting of trees in each row will be in a staggered pattern.
2. The short trees will be planted in the first rows and the tall trees in the outer rows.
3. Since the trunks of the trees are generally devoid of foliage, it will be useful to have shrubs in front of the trees so as to give coverage to this portion.
4. Sufficient spacing shall be maintained between the trees to facilitate effective height of the greenbelt.
5. Plants of native origin, fast growing type with canopy and large leaf index shall be preferred.

### **3.2 Selection of Plant Species for Green Belt Development by greenbelt adopting individual/organization:**

The selection of plant species for the development depends on various factors such as climate, elevation and soil. The plants would exhibit the following desirable characteristics in order to be selected for plantation.

1. The species should be fast growing and provide optimum penetrability.
2. The species should be wind-firm and deep rooted.
3. The species should form a dense canopy.
4. As far as possible, the species should be indigenous and locally available.
5. Species tolerance to air pollution like SO<sub>2</sub> and NO<sub>2</sub> should be preferred.
6. The species should be permeable to help create air turbulence and mixing within the belt
7. There should be no large gaps for the air to spill through.

8. Trees with high foliage density, leaves with larger leaf area on both the surfaces.
9. Ability to withstand conditions like inundation and drought.
10. Soil improving plants (Nitrogen fixing rapidly decomposable leaf litter).
11. Attractive appearance with good flowering and fruit bearing.
12. Bird and insect attracting tree species.
13. Sustainable green cover with minimal maintenance.

The table provided below enlists the tree species selected for Greenbelt as per CPCB

**Table No. 1: Tree species selected for Greenbelt as per CPCB**

<b>TYPE</b>	<b>Botanical Name</b>	<b>Common Name</b>
<b>SCHEDULES OF TREES</b>		
T1	Caesalpinia pulcherrima	Krushnachuda
T2	Peltophorum ferrugineum	Radhachuda
T3	Mesua feria	Nageswar
T4	Azadirachta indica	Neem
T5	Millingtonia hortensis	Akash neem
T6	Calophyllum inophyllum	Polango
T7	Saraca indica	Ashok
T8	Pongamia glabra	Karanja

T9	<i>Michelia champaca</i>	Champa
T10	<i>Mimusops elengi</i>	Bakul
T11	<i>Morus australis</i>	Tuta
T12	<i>Thespesia populnea</i>	Umbrella tree
T13	<i>Aegle marmelos</i>	Bela
T14	<i>Mangifera indica</i>	Mango
T15	<i>Phyllanthus emblica</i>	Amla
T16	<i>Psidium guava</i>	Guava
T17	<i>Tamarindus indica</i>	Tentuli
T18	<i>Sansevieria saman</i>	Bada chakunda
T19	<i>Syzygium cumini</i>	Jamu
T20	<i>Alstonia scholaris</i>	Chatina
T21	<i>Leucaena leucocephala</i>	Su Babul

T22	<i>Annona squamosa</i>	Sitaphala
T23	<i>Saraca asoca</i>	Ashoka
<b>SCHEDULES OF LARGE SHRUB</b>		
S1	<i>Thevetia peruviana</i>	Kaniar
S2	<i>Ervatamia divaricata</i>	Tagar
S3	<i>Hibiscus chinensis</i>	Mandar

S4	<i>Nerium oleander</i>	Karabik
S5	<i>Murraya exotica</i>	Kamini
S6	<i>Cassia fistula</i>	Sunari
S7	<i>Spathodea campanulata</i>	Mysore green
S8	<i>Cestrum nocturnum</i>	Hena
S9	<i>Bouhaminvilla spectalillis</i>	Kagaj phool

### **3.3 Preparation for Seedlings & post care facilities by greenbelt adopting individual/organization:**

To undertake plantation on site, following steps will be taken:

1. Obtaining Healthy seedlings from nursery
2. Preparation of pits and preparing them for transfer of seedlings
3. Take care of seedlings after plantation in pits

Pit and Soil Preparation:

1. The pit size has been recommended as 45 cm x 45 cm x 45 cm for trees and 30 cm x 30 cm x 30 cm for shrubs.
2. The spacing for trees is proposed 2 m while 1 m for shrubs plantation.
3. The pits should be watered prior to planting of seedlings.

Post Care Facilities:

1. The growing plants are cared for at least for the first 3 years under favorable conditions of climate and irrigation.
2. For healthy and vigorous growth adequate nutrients will be supplied.
3. To avoid water stress conditions regular watering should be done.

**4.0 Best Practices to be opted by greenbelt adopting individual/organization:**

- A. Setting up of composting units for parks, green belts and other green areas.
- B. Installation of vertical gardens.
- C. Developing bio-diversity stretches in greenbelts.
- D. Developing cycle tracks (less than 3 feet) in greenbelts on major highways/roadsides.
- E. Fencing on roadsides / central verge.
- F. Installation of benches in parks and other green areas.

In addition to the above, the green area adopting individual or organisation may initiate any other project only with prior permission from the approving committee (as given in clause 2.0).