

## ***Greenbelt Plan***

### *Objective*

The OTPC Palatana plant is spread over 197.15 acres of land. Area under Phase I plant is approximately 54.4 acre; non-plant building and road area is 51 acres. OTPC has earmarked 69 acres for greenbelt development.

### *Implementation Strategy*

#### *Status update*

Based on the current greenbelt layout map, OTPC has developed 69 acres for greenbelt development.

The total area demarcated for greenbelt plantation within the plant is approximately 69 acres; i.e. 33% of the total area. Plantation is completed in 69 acres area. Tripura Forest Dept has been carried out 37.08 acres greenbelt plantation and balance 32 ha greenbelt plantation has been developed by OTPC. Species present with numbers is presented below.

### ***Greenbelt Plantation at Site***

<b>Year</b>	<b>No of Sapling Planted</b>	<b>Area Under Plantation (Acre)</b>	<b>Survival Rate (%)</b>
2013-14	13,400	25.66	89.55
2014-15	10,000	16.7	86.00
2015-16	870	4.64	83.56
2016-17	10,008	13.12	98.93
2017-18	5750		98.95
Total	40,028	69.00	91.40

[Source: OTPC]

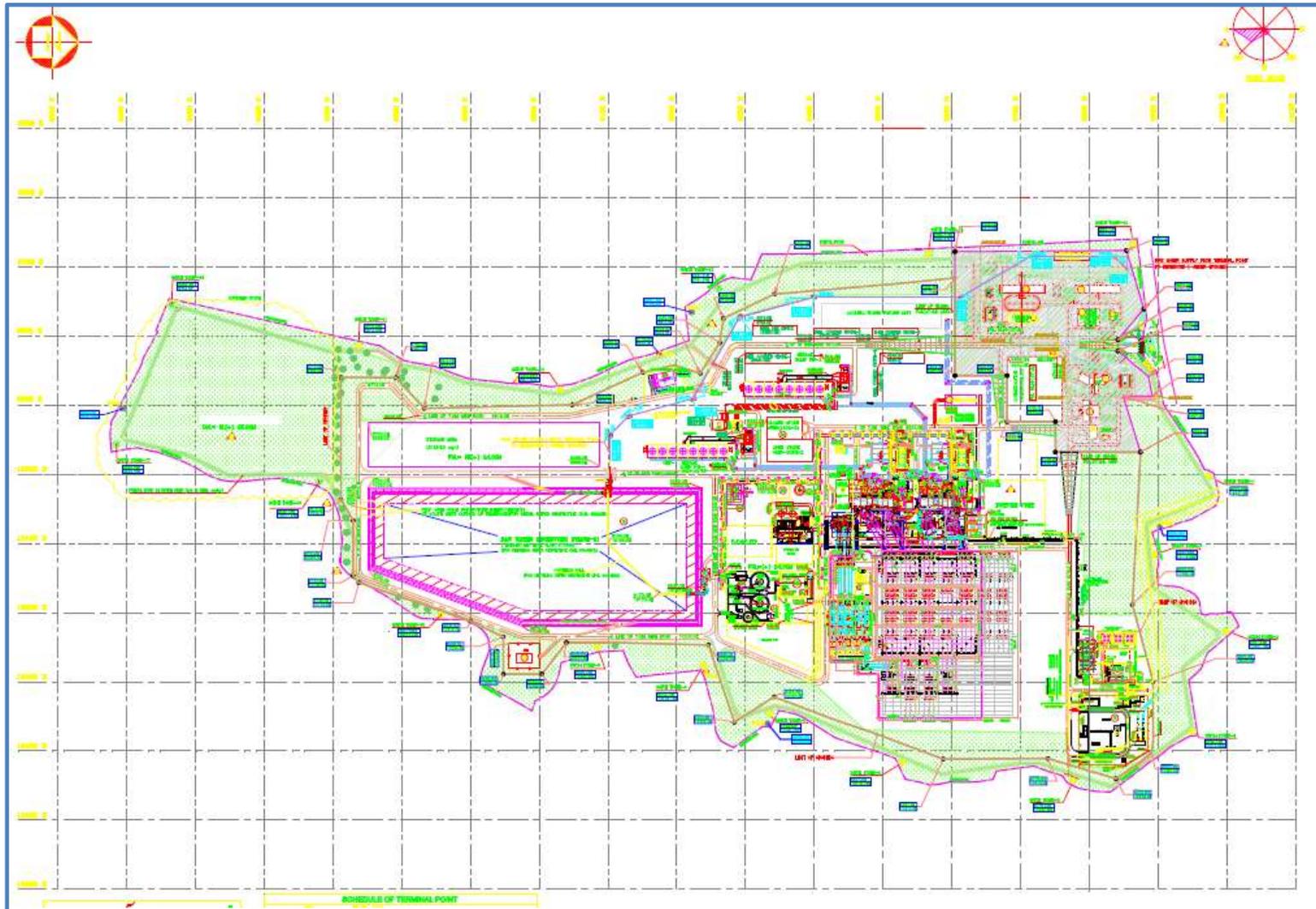
### *Improvement of existing plantation area*

It is proposed to improve the greenbelt plantation within the project site with plantation of pollutant (PM, NOx) tolerant plant species recommended for industrial areas. The existing plant list of floral species within the OTPC plant indicates the presence of about 25 plant species. Recommended new plant species to be planted within the existing and future greenbelt areas are listed in *Table 2.16*. The existing and proposed plantation map is presented in Figure 2.21.

### *Plantation Community Land:*

OTPC will provide sapling to the schools, and panchayat for plantation. OTPC will supply 2000 sapling to the local people. The preferred species will be fruit trees and timber plant.

*Greenbelt Plantation Area*



## ***Recommended Plant Species for Greenbelt with the Plant***

<b>Plant Species</b>		
<i>Ailanthus excelsa</i>	<i>Diasporus melanoxylon</i>	<i>Moringa oleifera</i>
<i>Butea monosperma</i>	<i>Madhuca indica</i>	<i>Shorea robusta</i>
<i>Citrus medica</i>	<i>Mimusops elengi</i>	<i>Tamarindus indica</i>
<i>Clerodendron infortunatum</i>	<i>Holoptelia integrifolia</i>	

### *Follow up Action*

The following actions apply to habitat conservation program within OTPC project site:

- Planting of pollutant tolerant species to replace lost recruits if the rate of loss is higher than the rate of establishment;
- Continue monitoring of the growing plants and maintain a flexible approach.
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### *Monitoring Parameters and Timing*

The following actions apply to habitat conservation program within OTPC project site:

- Continue monitoring of the growing plants and maintain a flexible approach.

### *Plantation maintenance*

***Clearing other vegetation:*** It is important to clear or cut the unnecessary vegetation “weed”, or the disturbing vegetation at least twice a year. This action will allow the seedlings to grow without competing with other trees that may cause mortality. The vegetation is not removed from the sites and serves as natural mulch.

***Selecting trees that should be removed:*** It is necessary to perform selected cutting in order to keep a healthy growth and to maintain an optimal distance for canopy expansion and to build enough space for the growing mature trees. The selected cutting is usually conducted when the plantation is 3 (three) years old. After that, no cutting is done nor required.

### *Replanting*

Replacing the dead trees with the new seedlings will be conducted at least twice a year to allow a stable high density of trees in the field.