

GREEN BELT DEVELOPMENT PLAN

Extensive greenbelt is already been developed within the plant premises by **M/s. Hindupur Steel & Alloys Pvt. Ltd.** This will further mitigate the pollution impacts. **5 M to 10 M** wide greenbelt is already been developed around the plant periphery. A detailed greenbelt plan will be developed in as per CPCB guidelines in consultation with local DFO.

Greenbelt plantation

Greenbelt has been developed in a set of rows of trees planted in such a way that they form an effective barrier between the plant and the surroundings. The main purpose of greenbelt development is to contribute to the following factors.

- To maintain the ecological homeostatus.
- To attenuate the air emissions from the stacks and the fugitive dust emissions.
- To prevent the soil erosion.
- To attenuate the noise levels.

Plantation of grass, flowers, bushes and trees will be taken up to reduce the generation of dust from the bare earth and to enhance the aesthetic value.

Plantation species

Plantation species will be considered based on the following.

- Suitable to the Geo-climatic conditions of the area.
- Mix of round, spreading, oblong and conical canopies.
- Ever green trees.
- Different heights ranging from 4m to 20m.

Plantation to absorb SO₂ emissions

The following plants are suggested for plantation to absorb SO₂ in the air.

- Azadirachta indica
- Albizia lebbeck
- Alstonia scholaris
- Lagerstroemia flosreginae
- Melia azedarach

- *Minusops elangi*
- *Poloyalthia longifloia*

Plantation to reduce noise pollution

Trees having thick and flushy leaves with petioles are suitable. Heavier branches and trunks of trees also deflect the sound waves. The following plant species are suggested to reduce noise pollution.

- *Alstonia scholaris*
- *Azadirachta indica*
- *Grevillea peridifolia*
- *Greavillea robusta*
- *Melia monosperma*
- *Tamarindus indica*

Plantation for Arresting dust

Trees particularly having compact branching closely arranged leaves of simple elliptical and hairy structure, shiny or waxy leaves and hairy twigs are efficient filters of dust. The following species are suggested to arrest the dust

- *Alstonia Scholaris*
- *Azadirachta indica*
- *Bauhinia purpurea*
- *Butea monosperma*
- *Cassia siamea*
- *Peltoferrum ferrugineum*
- *Tamarindus indica*

Plantation along the roads (Avenue plantation)

- *Alstonia scholaris*
- *Bauhinia purpurea*
- *Cassia fistula*
- *Cassia siamea*.
- *Lagerstroemia flosreginea*

- Mimusops elangi
- Pongamia pinnata
- Polyalthia longifolia
- Poluferrum ferrugineum

PROPOSED ACTION PLAN FOR GREENBELT DEVELOPMENT

- Local DFO was consulted in developing the green belt.
- A greenbelt of **1.34 Ha. (3.3 Acres)** has already been will be developed in the plant premises.
- 5 M to 10 M wide greenbelt around the plant has been developed around the plant periphery & within the plant premises.
- Greenbelt have been developed as per CPCB guidelines.
- More than **1500 plants have been planted per hectare.**

Details of Green belt developed in the Plant Premises

S.No.	PLANT NAME	Total
1	NEEM	206
2	ALMOND	324
3	KARANJ	215
5	PELTAFORM	154
6	ASHOK	18
7	PUTRANJIVA	77
8	JAM (GUAVA)	68
9	SUBABUL	358
10	ACASSIA	93
11	PALM	15
12	MOUHA	88
13	ALASTONIA	154
14	KASSOD TREE	54
15	LASORA	115
16	HARDA	78
TOTAL		2017