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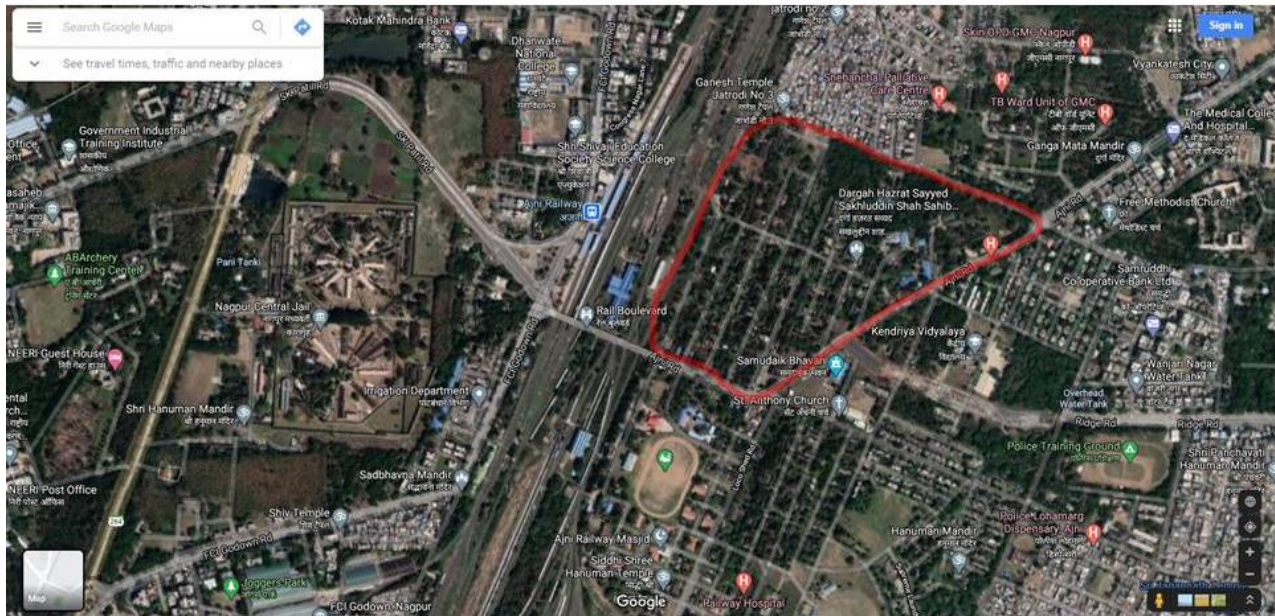
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## Ajni Van - Preliminary Ecological Survey

(Preliminary Ecological Survey incorporates a desk-top study, a Phase 1 Habitat Survey and what has been variously described as 'baseline survey', 'walkover survey'.)

### Inter- Modal Station by NHAI- Proposed site- Over 2000 Trees to be cut





In Ajni case, around 1900 trees are proposed to be cut. These trees are old growth trees. If we consider its life (can count after its 20 years of age), we can say that these trees are sequestering atmospheric CO<sub>2</sub> for almost 40-50 years.

- In simple terms -  $1900 \text{ trees} \times 40 \text{ years} \times 22.5 \text{ kg CO}_2 = 17,10,000 \text{ kg CO}_2$
- Also, trees arrests dust particles
- Creates micro-climate which attracts clouds
- Reduces atmospheric temperature (around 5 degree less temperature is observed in this area)
- Helps in water percolation
- Habitat of lots of birds, mammals, insects etc
- Acts as sound barrier



## List of tree species found in Ajni Railway Colony

Sr.No.	Botanical name	Family	Common name	Local Name	Naative/ Exotic	नाव	Abundance
1	<i>Cassia fistula</i>	Caesalpiniaceae	Indian Laburnum	Bahava / Amaltash	Native	बहावा	Several
2	<i>Albizia lebbeck</i>	Mimosaceae	Parrot Tree	Shirish / Siris	Native	शिरिष	Abundant
3	<i>Azadirachta indica</i>	Meliaceae	Neem	Kadulimb	Native	कडुलिंब	Abundant
4	<i>Ficus religiosa</i>	Moraceae	Peepal	PimpaL	Native	पिंपळ	Several
5	<i>Dalbergia sisoo</i>	Fabaceae	Sisso	Shisvi	Native	सिसू	Several
6	<i>Pithecellobium dulce</i>	Leguminosae	Monkeypod	Vilayti Chinch / Chichbilai	Exotic	चिजबिलाई	Several
7	<i>Polyalthia longifolia</i>	Annonaceae	Mast Tree / False Ashok	Ashok	Exotic	अशोक	Abundant
8	<i>Delonix regia</i>	Caesalpiniaceae	Flamboyant Tree	Gulmohar	Exotic	गुलमोहर	Several
9	<i>Tamarindus indica</i>	Fabaceae	Tamarind	Chinch	Native	चिंच	Several
10	<i>Mangifera indica</i>	Anacardiaceae	Mango	Amba	Native	आंबा	Abundant
11	<i>Leucaena leucocephala</i>	Leguminosae	Horse Tamarind	Subabhool	Exotic	सुबाभूळ	Several
12	<i>Albizia saman</i>	Mimosaceae	Rain Tree	Parjanya Vruksha	Exotic	रेन ट्री	Several
13	<i>Holoptelia integrifolia</i>	Ulmaceae	Monkey Biscuit Tree	VavaL / Chilbil	Native	वावळ	Abundant
14	<i>Sapindus emarginatus</i>	Sapindaceae	Indian Soapberry	Reetha	Native	रिठा	Abundant

15	<i>Ziziphus mauritiana</i>	Rhamnaceae	Chinese Date / Indian Jujube	Bor / Ber	Native	बोर	Several
16	<i>Ailanthus excelsa</i>	Simaroubaceae	Indian Tree of Heaven / Mahaneem	Maharukh	Native	महारूख	Several
17	<i>Acacia nilotica</i>	Mimosaceae	Babool	Babhool	Native	बाभूळ	Several
18	<i>Sterculia foetida</i>	Sterculiaceae/Malvaceae	Wild Indian Almond	Junglee Badaam	Native	जंगली बदाम	Few
19	<i>Peltophorum pterocarpum</i>	Caesalpiniaceae	Copper Pod	Son-mohar	Exotic	सोनमोहर	Several
20	<i>Senna siamea</i>	Caesalpiniaceae / Leguminosea	Sayami Cassia	Kashid	Exotic	काशीद	Abundant
21	<i>Ficus racemosa</i>	Moraceae	Indian Fig Tree	Umbar	Native	उंबर	Several
22	<i>Citrus X sinensis</i>	Rutaceae	Orange	Santra	Native/Cultivated	संत्रा	Few
23	<i>Terminalia catappa</i>	Combretaceae	False Almond	Badam	Exotic	बदाम	Several
24	<i>Tectona grandis</i>	Lamiaceae	Teak	Sagvan	Native	साग	Several
25	<i>Kigelia africana</i>	Bignoniaceae	African Sausage Tree	Brahmadanda	Exotic	ब्रह्मदंड	Several
26	<i>Phyllanthus emblica</i>	Phyllanthaceae	Indian Gooseberry	AvaLa	Native	आवळा	Several
27	<i>Nyctanthes arbor-tristis</i>	Oleaceae	Nightflowering Jasmine/ Tree of Sorrow	Parijatak	Native	पारिजातक	Several
28	<i>Manilkara zapota</i>	Sapotaceae	Sapodilla Plum / Noseberry	Chikoo	Exotic	चिक्	Several
29	<i>Bombax ceiba</i>	Bombacaceae / Malvaceae	Red Silk Cotton Tree	Katesavar	Native	काटेसावर	Few

30	<i>Bauhinia variegata</i>	Caesalpiniaceae	Orchid Tree	Kanchan / Kachnar	Native	कांचन	Several
31	<i>Moringa oleifera</i>	Moringaceae	Drumstick Tree	Shevga	Native	शेवगा	Several
32	<i>Mitragyna parvifolia</i>	Rubiaceae	Mundi	KaLam	Native	कळम	Several
33	<i>Plumeria spp.</i>	Apocynaceae	Frangipani	Chapha	Exotic	चाफा	Several
34	<i>Artocarpus heterophyllus</i>	Moraceae	Jackfruit	PhaNas	Native	फणस	Few
35	<i>Terminalia bellirica</i>	Combretaceae	Beach Almond	Behada	Native	बेहडा	Few
36	<i>Bambusa vulgaris (Green)</i>	Poaceae	Bamboo	Green Baamboo/ kalaka	Native	बांबू	Several
37	<i>Eucalyptus spp.</i>	Myrtaceae	Eucalyptus	Nilgiri	Exotic	निलगिरी	Several
38	<i>Pongamia pinnata</i>	Fabaceae	Indian Beech	Karanj	Native	करंज	Several
39	<i>Albizia procera</i>	Mimosaceae	White Shirish	Kinhaii	Native	किन्हाई	Several
40	<i>Alstonia scholaris</i>	Apocynaceae	Devil's Tree	Saptparni	Native	सप्तपर्णी	Several
41	<i>Mimusops elengi</i>	Sapotaceae	Spanish Cherry / Asian Bulletwood	Bakul	Native	बकुळ	Few
42	<i>Cassia grandis</i>	Caesalpiniaceae	Coral Shower Tree	Pink Cassia	Exotic	पिंक कॅसिया	Few
43	<i>Cocos nucifera</i>	Arecaceae	Coconut	NaraL	Native	नारळ	Few
44	<i>Euphorbia nivulia</i>	Euphorbiaceae	Indian Spurge	Nivdung	Native	निवडुंग	Few
45	<i>Cordia dichotoma</i>	Boraginaceae	Indian Cherry /Gund	Bhokar	Native	भोकर	Several

46	<i>Vitex negundo</i>	Verbenaceae/Lamiaceae	Nirgundi/ Five Leaf Chaste Tree	Nirgudi	Native	निर्गुडी	Several
47	<i>Annona squamosa</i>	Annonaceae	Custard Apple	Sitaphal	Exotic	सीताफल	Abundant
48	<i>Putranjiva roxburghii</i>	Putranjivaceae / Euphorbiaceae	Putranjiva/ Lucky Bean Tree	Putranjeeva	Native	पुत्रांजीव	Several
49	<i>Psidium guajava</i>	Myrtaceae	Guava	Peru	Exotic	पेरू	Several
50	<i>Ficus benghalensis</i>	Moraceae	Bargad / Banyan Tree	Vad	Native	वड	Few
51	<i>Spathodea campanulata</i>	Bignoniaceae	African Tulip Tree	Pichkari / Pachodia	Exotic	पिचकारी	Several
52	<i>Annona reticulata</i>	Annonaceae	Wild Sweetsop / Bullock's Heart	Ramphal	Exotic	रामफल	Several
53	<i>Ficus hispida</i>	Moraceae	Wild Fig Tree	Katumber	Native	काटुंबर	Abundant
54	<i>Murraya paniculata</i>	Rutaceae	Madhukamini	Kunti	Native	मधूकमीनी	Several
55	<i>Aegle marmelos</i>	Rutaceae	Golden Apple	Bel	Native	बेल	Several
56	<i>Neolamarckia cadamba</i>	Rubiaceae	Burflower Tree	Kadamb	Native	कदंब	Few

It is found that out of 56 noted species 39 species are Native. These trees are full grown and having dense canopy. These trees are the habitats of a number of birds and arboreal animals. Shy birds like Tickell's Blue Flycatcher are also found there.

In almost all the projects it is seen that compensatory plantation is done with wrong species and at wrong places too. In this Ajni case, NHAI has given a list of trees which they are going to plant. This list provided by NHAI create several serious issues

1. There is no place to plant so many trees
2. The proposed list of plants which is given by NHAI contains not only exotic species but some are invasive species too which are proven harmful species for the local biodiversity. Eg. Lantana, Samania saman etc



3. The proposed tree list contains some of the most easily grown, invasive plants which don't require being planted at all. Eg. Ficus hispida.... Some of these invasive species in fact have to be eradicated periodically.
4. The proposed tree list contains shrubs like Hibiscus, Duranta, Custard Apple (Sitaphal), etc. which can not compare with trees like Mango, Peepal, Chilbil, Behada etc. in size or usability or ecological value.
5. Existing full grown flora is being removed and replaced by unwanted invasive flora on the name of development.
6. Residents of the colony are directly connected with the trees and using them in their day to day life. Introduced landscape gardens not only disconnect man from nature but also create a mindset where nobody is responsible for taking care of Nature.

Recently Hon. Madras High court has decided to ban planting and nurturing exotic and invasive species in western ghats. Similarly this should be implemented strictly in all the parts of India.

In a very recent decision the Hon. Supreme Court held that, Felling of of trees “in the name of Lord Krishna” cannot be allowed, the Supreme Court on Wednesday said and asked the UP government to evaluate the plants proposed to be cut for its Krishna-Govardhan road project in Mathura. Such evaluation should take place in the current project proposed by the NHAI as well.

