



SOUTH WESTERN RAILWAY

Office of the Deputy Chief Engineer,
Construction, Station Development,
18, Millers Road, Bangalore – 560 046
Mob.- 9731665261
dycesdbnc@gmail.com

No.W.572/CN/BNC/Station Development

Date: 13.03.2023

Deputy Conservator of Forests,
BBMP Office,
Hudson circle,
Bengaluru- 560002.



Sub: Proposed compensatory plantation plan for raising 3150 number of plants by the railway in lieu of removal of 289 number of trees and translocation of 26 number of trees at BNC Railway Station - reg.

Ref: OM No. DCF/PR-1912/2022-23 Dated: 04.03.2023 issued by DCF/BBMP

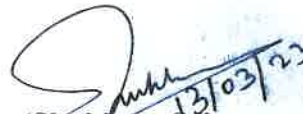
<<>>

In connection with the above subject, Office Memorandum vide letter under ref. above was issued on 04.03.2023 for felling of 289 no. of trees out of the proposed 387 no. of trees at Bengaluru Cantonment Railway Station.

Compensatory afforestation plan and project description is enclosed herewith as document dated 13.03.2023.

Hence, it is requested to kindly issue tree cutting permission along with valuation/cost of the trees to the undersigned at the earliest.

Encl: As above (page 1 to 5)


(Shubham Srivastava)
Dy.CE/Stn.Dev/CN/BNC

Copy to: CE/I/CN/BNC for kind information please.

Date : 13.03.2023

BENGALURU CANTONMENT RAILWAY STATION REDEVELOPMENT

PROPOSED COMPENSATORY PLANTATION PLAN FOR RAISING 3150 NUMBER OF PLANTS BY THE RAILWAY IN LIEU OF REMOVAL OF 289 AND TRANSLOCATION OF 26 NUMBER OF TREES IN BNC.

(Ref: OM No. DCF/PR-1912/2022-23 Dated: 04.03.2023)

CONTENTS

1. Introduction
2. Location Plan & Approval of land owner
3. Agency for compensatory plantation
4. Scheme of plantation/Technique
5. Up keep of plantation & Maintenance
6. Conclusion

PROPOSED COMPENSATORY PLANTATION PLAN FOR RAISING 3150 NUMBER OF PLANTS BY THE RAILWAY IN LIEU OF REMOVAL OF 289 AND TRANSLOCATION OF 26 NUMBER OF TREES IN BNC.

I. Introduction

South Western Railway is implementing the Bengaluru Cantonment Railway Station Redevelopment as part of Station redevelopment of existing Railway Stations all over India.

There are a total 387 number of trees standing along the complete stretch of around 700m along the east side (market side) and 300m along the west side (metro side) which are in the premises planned for execution. Out of 387 numbers of standing trees, 72 trees are retained on site, 26 trees proposed to be removed by means of translocation and 289 by felling which are infringing construction works in order to implement the project. These trees are coming under jurisdiction of Deputy Conservator of Forest (DCF)/Tree Officer, BBMP, Bengaluru.

As per OM No. DCF/PR-1912/2022-23 Dated: 04.03.2023 issued by DCF/Tree Officer BBMP, Bengaluru. Tree Office/DCF BBMP has given permission to the Railway for removal of 26 trees by translocation and 289 trees by means of felling. Tree officer in his order page 3 of condition no. 8 directed to raise compensatory plantation in 1:10 ratio i.e 3150 number of Saplings against 315 number of trees for felling.

Hereby propose to raise compensatory plantation as per technique/scheme described here in this plan.

II. Location plan & Approval of land owner

Officials from the Railway Construction Unit had approached for allotment of open land at Avathihalli, Thanisandra & Yeshwantpur. Sr.DEN.Co-ord/SBC vide letter No.B/W.403/YPR/ Redevelopment dated 16.11.2022 has permitted for taking up Compensatory Plantation in the above mentioned land. The Railway has planned compensatory plantation of a total 3150 number of saplings of various species as per Forest Department Guidelines and Compensatory plantation plan is also submitted to the Trees Officer.

Compensatory plantation Plan in lieu of removal of trees in Bengaluru Cantonment Railway Station			
1	Total land available for Compensatory Plantation	Acre	10
2	Total Sapling Planned by the Railway	Nos	3150

III. Agency for compensatory plantation

The Railway will engage & take service of expert horticulture plantation agency for implementing the proposed compensatory plantation including three years comprehensive maintenance. An agreement will be entered with the approved agency for raising the plantation as per the plan ensuring good survival rate.

IV. Scheme of plantation/Technique:

The Railway has taken the responsibility of raising compensatory plantation at the location suggested above as per standard practice & techniques through an expert agency in horticulture/ plantation field.

The Forest Department, Government of Karnataka has issued "General Guidelines for Species and plantation Technique Models".

The Railway has finalized a Scheme/technique for plantation considering these guidelines relevant for Bangalore Urban Transitional Zone and institutional/ office premises plantation model.

The scheme is summarized as follows:

1. Translocation will be done in the identified locations and Compensatory afforestation will be carried out at available land in Avathihalli, Thanisandra & Yeshwantpur.
2. Plantation work will be taken up through an expert horticulture/plantation agency recommended by the forest department/BBMP forest division.
3. Water required during the rainy season i.e. from May-June to Oct-Nov in Bangalore Urban area would be minimal/nil. During the dry season from November to April watering will be regularly done as per the standard practice specified in above guidelines and as per requirement of plantation species.
4. Aligning, marking of pits of size 1m x 1m x 1m shall be done at the identified location.
5. Excavation of pits of size 1m x 1m x 1m at 5m x 5m or 7m X 7m grid interval will be taken up as per the general guidelines given for City and Town Planting Model by the Karnataka Forest Department.
6. The pit will be vertically cut and straight in shape. All loose materials will be removed from the pit.
7. Supply of saplings of min 12 months old of 7-8 feet height of species suitable for the one as specified in the guidelines.
8. Supply of 10% Red earth required for refilling the pits after saplings.
9. Refilling of pit to 75% of the pit with excavated soil after breaking the clods and formation of saucer shaped mound. Conveyance of polythene bag seedlings to the planting location including watering polythene bagged seedlings at site.
10. Supply of 2.5 to 2m length wooden sticks for supporting saplings.
11. Planting seedlings including scooping the soil to required depth pressing the soil gently around the seedlings after planting.
12. Carrying out de-weeding around the plants for a radius of 0.6m.
13. Hoeing and soil working with pickaxe around the plant to a depth of 15cm and to a radius of 60cm.
14. Application of chemical fertilizers around the plant about 15 cm away in furrow duly covering with soil as and when required.
15. Scraping of grass and weeds to a radius of 0.5m around the plants.
16. Application of FYM (Farm Yard Manure), watering the plants using a water tanker with available water inside the premises/ water from outside as required.

V. Up keep of plantation & Maintenance

The agency entrusted with the compensatory plantation will be responsible for comprehensive maintenance also. The plantation being done will be maintained for 3 years from the

date of plantation. During the maintenance period of 3 years, following activities will be carried out by the agency and shall be monitored by the Railway.

1. Maintenance activities for 1st year, 2nd year and 3rd year to be carried out by the agency responsible for plantation in order to ensure 100% success rate. In case of failure of any plant, immediate replacement will be done by the agency.
2. In summer season i.e. From December to May watering will be done at regular intervals of once in a week. During Monsoon season i.e. from June to November watering required may be minimal/Nil. However, watering needs to be done for any dry spell as and when required. During monsoon season whenever there is scanty rainfall, the agency shall do watering to make a shortfall.
3. Removing weeds/grass surrounding the plantation area as and when required.
4. Preparing reports on growth of plants with photographs/videography and submission to authorities on a quarterly basis.
5. The entire compensatory plantation and maintenance to be done under supervision of the Railway Environmental officer and under the direction of Tree officer.
6. Replacement of causality plants to ensure maintaining 100% survival.

VI. Conclusion

The Railway has accepted to take over compensatory plantation for 3150 Saplings at Avathihalli, Thanisandra & Yeshwantpur as per OM dated 04.03.2023 as per the guidelines of Forest Department, GoK through an expert horticultural/forestry agency with aim to ensure good survival rate of plantation with regular maintenance and adequate supervision.

List of Tree Species for Compensatory Plantation


Location: Open land at Avathihalli, Thanisandra & Yeshwantpur


OM Order No: DCF/PR. 1912/2022-23 dtd 04.03.2023

Total Number of Saplings = 3150 Nos

Sl. No.	Tree Species Name	Category	No. of Saplings proposed for plantation
1.	Neem	Timber	150
2.	Honge	Timber	150
3.	Tare	Timber	150
4.	Red Tamarind	Timber	150
5.	Sihi hunse	Timber	150
6.	Basari mara	Timber	150
7.	Hole matti	Timber	150
8.	Mahogany	Timber	150
9.	Ala	Timber & Fruit	150
10.	Arali mara	Timber & Fruit	150
11.	Atti mara	Timber & Fruit	150
12.	Tamarind	Fruit	150
13.	Jackfruit	Fruit	150
14.	Indian Almond	Fruit	150
15.	Indian Fig Tree	Fruit	150
16.	Gooseberry Tree	Fruit	150
17.	Nerale	Fruit	150
18.	Wild Mango	Fruit	150
19.	Kadamba mara	Flower and Timber	150
20.	Hole dasavala	Flower	150
21.	Champaka	Flower	150
	Total		3150




 → proposed land.


SE/10/01/10/10/10/10

AVATHIHALLI STATION






 ⇒ proposed
Road.

THANNISANDRA


 j/w/s/d/s/w/c




TUMKUR END


1.5 km

YESVANTPUR STATION (TK END)

DC Golden Lotus Apartments

Image © 2022 Maxar Technologies
© 2022 Google

13°02'21.79" N 77°32'34.67" E

 ⇒ proposed land

YESVANTPUR STATION (TK END)


S E / W / S / O / C / M / B / C


S E / W / S / O / C / M / B / C


S E / W / S / O / C / M / B / C