ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲ್ ನಿಗಮ ನಿಯಮಿತ
(ಸಹಭಾಗಿತ್ವದ – ಕರ್ನಾಟಕ ಸರ್ಕಾರ ಹಾಗೂ ಕೇಂದ್ರ ಸರ್ಕಾರ ಉದ್ಯಮ)
ನೊಂದಾಯಿತ ಕಚೇರಿ : ಬಿ.ಎಂ.ಟಿ.ಸಿ. ಕಾಂಪ್ಲೆಕ್ಸ್, 3ನೇ ಮಹಡಿ, ಕೆಂಗಲ್ ಹನುಮಂತಯ್ಯ ರಸ್ತೆ, ಶಾಂತಿನಗರ
ಬೆಂಗಳೂರು – 560 027, ಭಾರತ

namma metro

Bangalore Metro Rail Corporation Ltd.
(A Joint Venture of Government of Karnataka & Government of India)
Regd. Office : B.M.T.C. Complex, 3rd Floor, K.H. Road, Shanthinagar, Bangalore - 560 027. INDIA

No. BMRCL/GM/SEMU/Quarterly Report/ 2022/16969 **Date:** 01.02.2023

To,

The Tree officer and DCF,
BBMP, N R Square,
Bengaluru -560002

Subject: -Forwarding of Quarterly progress report regarding Translocation & Compensatory Plantation of trees by Bangalore Metro Rail Corporation Ltd, Bengaluru.

Ref: -
1. OM No. DCF/BBMP/PR-1790/2020-21 Dated: 01.03.2021
2. OM No.A9/Tree Cutting/BMRCL/CR-154/2021-22 Dated: 02.03.2021
3. OM No.A7/Land/BMRCL. Kadugodi/CR-13/2017-18/3636 Dated: 26.03.2021
4. OM No. DCF/BBMP/PR-1923/2020-21 Dated: 23.03.2021
5. OM No.A9/Tree Cutting/BMRCL/CR-34/2020-21 Dated: 08.04.2021
6. OM No.A9/Tree Cutting/BMRCL/CR-341/2020-21/371 Dated: 18.05.2021
7. OM No.A9/Tree Cutting/BMRCL/CR-195/2020-21/1279 Dated: 26.08.2021
8. OM No.A9/Tree Cutting/BMRCL/CR-195/2020-21/361 Dated: 07.05.2021
9. OM No.A7/Land/BMRCL/CR-39/2018-19 Dated: 08.09.2021
10. OM No.A9/Tree Cutting/BMRCL/CR-480/2020-21 Dated: 26.08.2021
11. OM No. DCF/PR-2196A/2021-22 Dated: 07.03.2022
12. OM No. A9/Tree Cutting/CR-698/2021-22 Dated: 10.06.2022
13. OM No. DCF/PR-1673/2021-22 Dated: 26.11.2021
14. OM No. DCF/PR-1750/2021-22 Dated: 10.12.2021
15. OM No. A9/Tree Cutting/ BMRCL/ CR-543/2020-21/1107 Dated: 10.06.2022
16. OM No. A9/Tree Cutting/BMRCL/CR543/20220-21/2454 dated 09.12.2021
17. OM No. DCF/PR-2213/2021-22 Dated: 10.03.2022
18. OM No. DCF/PR-198/2022-23 Dated :26.07.2022

As per the above referred OM, BMRCL has to submit the quarterly reports regarding condition of the Translocated trees and Compensatory Plantation for a period of 03 years. Accordingly, Quarterly progress report from Oct to Dec of 2022 showing the condition of the Translocated trees and Compensatory Plantation is attached here with for necessary action.

(Divya S Hosur)
General Manager, SEMU

Enclosure-As above
Copy to:
1.Managing Director, BMRCL
2. Chief Conservator of Forests, Bengaluru circle

Phone : +91-(0)80-2296 9300 / 22969301, Fax : + 91-(0)80-2296 9222, E-mail : bmrcl@dataone.in Web : www.bmrc.co.in
CIN No. : U16286KA1994GOI016286

Quarterly report on implementation of Official Memorandum dated 01.03.2021 (Reach – 5 RV Road to HSR Layout) by Bengaluru Metro Rail Corporation Limited

Name of the project	: Reach 5 Package 3 of Bangalore Metro Rail Project
Location of the project	: Between R V Road and HSR Layout via Marenahalli Road
OM issued date by the Tree Officer, BBMP	: **01.03.2021**
Court Permission Date	: **25.03.2021**

Details of the OM dtd.: 01.03.2021

Total number of trees removed as per OM	: 13 No. trees
Total Number of Trees Recommended for the Retention on site	: 2 No. trees
Total Number of Trees Recommended for the Translocation on site	: Nill
Number of Trees Recommended for the Felling on site	: 13 No. trees

Details of Translocation:

-Nil-

Details of compensatory Plantation

Agency entrusted for the raising and maintenance of the plantation by BMRCL	: Nursery Men Co-operative Society
Location of Compensatory plantation	: ASC North (Training area), Iblur
Procedure of agency selection	: Work don certificate and through open quotations method
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 130 No. saplings
Number of Saplings planted	: 130 No. saplings
Year and Month of plantation Completed	: 2021 and Oct-Nov
Present servility rate of the plantation	: 130 No. saplings (100%)
Supervision of plantation	: General Manager (SEMU), Environmental officer, AM/AE (SEMU) Asst.

	Environmental Officer, SEMU, Section Environmental Engineer, SEMU.
Officers in-charge for Compensatory plantation	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU).
Supervision by BBMP	: BBMP Tree Officer or Officer Deputed by Tree Officer BBMP

A. COMPENSATORY PLANTATION:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy saplings. Hence BMRCL had raised the plantation of 130 no. saplingsat ASC North (Training area), Iblur.

BMRCL has to rise the compensatory plantation of 57,320 No. saplings as per the 18 official memorandums issued by the tree officer BBMP from March 2021 to November 2022. BMRCL had completed the raising 25,730 saplings.

A1. Maintenance of the plantation

Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

Causality replacement: From Oct to Dec 2022, 0% causality was observed in the 130 saplings afforestation pertaining to the OM dtd. 01.03.2022.

A2. Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from Oct 2022 to Dec 2022 for the plantations at ASC North (Training area), Iblur.

Soil works: Hoeing and other soil works has been completed in Oct 2022.

Saucer Bharav: Preparation of Saucer Bharav for the saplingshas been started from Nov 2022, still is in progress.

Watering: Due to heavy rains in the Bengaluru no watering activity has carried out in quarter Oct to Dec 2022 in the plantations.

Application of Fertiliser to plants: 50g of DAP and approximately 2 kg of FYM has been given to each sapling at the root zone from Nov 2022, still is in progress.

Survival rate: In the quarter Oct to Dec 2022 100 % survival rate has been observed, the sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation at ASC North (Training area), Iblur.

Numbering and Geo tagging: Coding of Each sapling ASC North (Training area), Iblur, plantation has been started. Geo tagging of each sapling has been completed on Dec 2021.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. Maintenance of 130 saplingsat ASC North (Training area), Iblur was in progress.	1. Activities like weeding, Soil works, nutrient supplements have been carried out in the plantation.

Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till Dec 2022	Balance	Remarks
1.	Compensatory plantation	130	130	Nil	Work is completed

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter Oct, Nov & Dec 2022 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

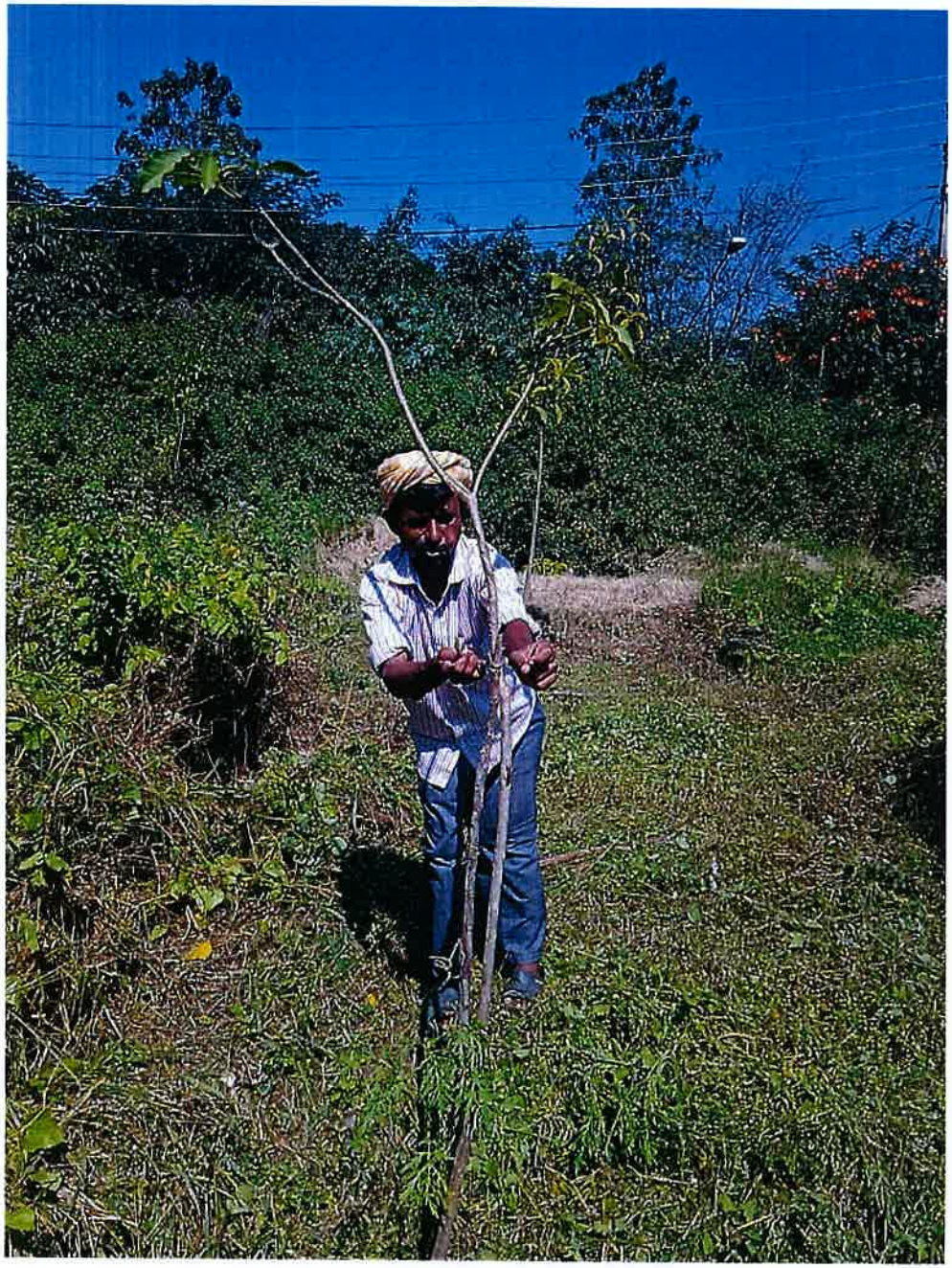
Divya S Hosur

General Manager,
SEMU-BMRCL

Divya S Hosur
General Manager
Social & Environmental Management Unit (SEMU)
Bangalore Metro Rail Corporation Ltd.
3rd Floor, BMTC Complex, K.H. Road
Shanthinagar, Bengaluru - 560 027

Compensatory Plantation			
OM dated 03.03.2021 court premission date: 25.03.2021 Location: ASC, North Ibluru - 130 trees			
Sl.No	Name of the Saplings	Number of saplings planted	Remarks
1	ALLA	19	Healthy 1/2 fel
2	BASARI	6	1/2 fel
3	BURGA	44	1/2 fel
4	CONOCARPUS	3	2 fel
5	HALASU	1	1/2 fel
6	HONGEY	19	1/2 fel
7	KADAMBA	1	1/2 fel
8	MAHAGONY	10	1/2 fel
9	NAGALINGA	7	1/2 fel
10	SIMARUBA	13	1/2 fel
11	SPATHODEA	3	1/2 fel
12	TORIMATTI	4	1/2 fel
	Total	130	

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.,
Shanthinagar, Bengaluru



Quarterly Report on implementation of Official Memorandum dated 02.03.2021 (R1A - Benaganahalli Lake Bund Area) by Bengaluru Metro Rail Corporation Limited

Name of the project	: Reach 1A Benaganahalli Lake Bund Area of Bangalore Metro Rail Project
Location of the project	: Benaganahalli Lake Bund Area
OM issued date by the Tree Officer, BBMP	: **02.03.2021**
Court Permission Date	: **25.03.2021**

Details of the OM dtd.: 02.03.2021

Total number of trees removed	: 91 No. Trees
Total Number of Trees Recommended for the Retention on site	: Nill
Total Number of Trees Recommended for the Translocation on site	: 52 No. Trees
Number of Trees Recommended for the Felling on site	: 39 No. Trees

Details of Translocation:

Agency entrusted for the tree translocation	: TMRH Plantations
Location of Receptor site	: 1. Benniganahalli Tank bund area – 36 No. Trees 2. KR Puram Metro station (Along Lowry school compound) – 8 No. Trees 3. Lowry School area – 8 No. Trees
Total number of trees to be translocated as per OM	: **52 No. Trees**
Translocation completed Month and Year	: **July 2021**
Total number of tree translocation completed	: **52 No. Trees**
Total number of tree translocation balance	: **0 No. Trees**
Total number of trees observed with survival Symptoms	: **07 No. Trees**
Total number of trees not encounter with any type of survival symptoms	: **45 No. Trees**

Procedure of agency selection	: Through open quotations method as per the KPTT Act 1999 of emergency section.
Methodology adopted for the tree translocation	: Root Ball Method as per the UAS, GKVK, guidelines 2020
Supervision of translocation by BMRCL	:Environmental officer (SEMU), AM/AE-SEMU Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU
Officers in-charge for tree translocation By BMRCL	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU)
Supervision by Forest Dept.	: BBMP Tree officer or officer deputed by tree officer BBMP

Details of Compensatory Plantation:

Agency entrusted for the raising and maintenance of the plantation by BMRCL	: 1. Nursery Men Co-operative Society, Bengaluru. 2. Indus Herbs, Bengaluru
Location of Compensatory plantation	: 1. CMP (Training) Iblur, Bengaluru – **360 No. Tree.** 2. CMP (Training) Neelasandra, Bengaluru – **550 No. Tree.**
Procedure of agency selection	: Through open quotations method as per the KPTT Act 1999 of emergency section.
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 910 No. Saplings
Number of Saplings planted	: 910 No. Saplings
Year and Month of plantation Completed	: Oct 2021
Present servility rate of the plantation	: 910 No. saplings (100%)
Supervision of Compensatory plantation by BMRCL	:Environmental officer (SEMU), AM/AE- SENU Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU
Officers in-charge for Compensatory Plantation By BMRCL	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU)
Supervision by BBMP	: BBMP Tree officer or officer deputed by tree officer BBMP

A. TREE TRANSLOCATION

A1. Competent Agency Selected for Translocation:

Bangalore Metro Rail Corporation Limited Engaged TMRH Plantations for tree Translocation and maintenance for a period of 3 years. BMRCL has entered an agreement with TMRH Plantations.

A2. Survival Rate of transplanted trees as per the official memorandum:

The transplanted tree needs to be observed frequently for its survival, growth, pests, diseases and other physiological symptoms/expressions. It is possible to witness temporary wilting of leaves for few days, leaf fall also can happen and the tree may even decide to go in for 'Transitory Dormancy' phase, to avoid moisture loss and desiccation. But can show revival symptoms within six months like, new sprouts, turgid leaves, arrest of leaf fall, etc., It is also possible that sometimes, there will be a 'Distress' reaction in the form of premature flowering and fruiting. Also, some trees will exhibit new sprouts within few weeks which may be due to the presence of adequate stored food reserves. Under such circumstances, the new sprouts will not survive for a long and may wither soon. If the tree has not acclimatized, then there will not be any revival symptoms. It should be kept in mind that the transplanted tree has to withstand the tests of at least one years (covering all the three seasons) to declare it as 'surviving or successful'. Hence, any premature conclusions and certifications are being restrained.

From March 2021 BMRCL has translocated 52 trees which are given way for the metro construction. Morphological characteristics showing the survival symptoms likes leaf buds, leaf initiation, new shoots, tree branchlets, flowers and new leaves were observed in the 07 translocated trees which evident trees are responding to the translocation shock and trying to adopt for the new location and surrounding microclimate. Remaining 45 translocated trees have not encountered with any survival symptoms.

A.3 Maintenance of Transplanted trees:

A3.1 Time period: The plantation has maintained for a period of three years form the date of completion of transplantation.

A3.2.Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from Oct 2022 to Dec 2022 at receptor sites.

Soil works: Hoeing and other soil works has been carried out in Oct 2022.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been carried Oct 2022.

Watering: Due to heavy rains in the Bengaluru no watering activity has carried out in quarter Oct to Dec 2022 in the receptor site.

B. Compensatory Plantation:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy saplings. Hence BMRCL had raised the plantation of 910 no. saplings at CMP (Training) Neelasandra, Bengaluru – 550 No. CMP (Training) Iblur, Bengaluru – 360 No. Saplings.

BMRCL has to rise the compensatory plantation of 57,320 No. saplings as per the 18 official memorandums issued by the tree officer BBMP from March 2021 to November 2022. BMRCL had completed the raising 25,730 saplings.

B1. Maintenance of the plantation

Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

Causality replacement: From Oct to Dec 2022, 0% causality was observed in the 910 saplings afforestation pertaining to the OM dtd. 02.03.2021. But still any plant attains causality BMRCL is replanting such seedlings.

B1.1Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from Oct 2022 to Dec 2022 for the plantations at CMP (Training) Neelasandra, Bengaluru – 550 No. CMP (Training) Iblur, Bengaluru – 360 No. Saplings.

Soil works:

Hoeing and other soil works has been carried out in Oct 2022.

Saucer Bharav:

Preparation of Saucer Bharav for the saplings has been carried out in Nov 2022.

Watering:

Due to heavy rains in the Bengaluru no watering activity has carried out in quarter Oct to Dec 2022 in the plantations.

Application of Fertiliser to plants:

50g of DAP and approximately 2 kg of FYM has been given to each tree sapling at the root zone from Oct 2022, still is in progress.

Survival rate:

In the quarter Oct to Dec 2022 100 % survival rate has been observed, the tree Sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation at CMP (Training) Neelasandra, Bengaluru – 550 No. CMP (Training) Iblur, Bengaluru – 360 No. Saplings

Numbering and Geo tagging:

Coding of Each tree sapling in the at CMP (Training) Neelasandra, Bengaluru – 550 No. CMP (Training) Iblur, Bengaluru – 360 No. Saplings. Geo tagging of each sapling has been completed on Dec 2021.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. Maintenance of 52 transplanted trees is in progress. 2. Maintenance of 910 trees saplings is in progress.	1. Both in transplanted and compensatory afforestation sites activities like weeding, soil works and nutrient supplements were taken up.

C. Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till Dec 2022	Balance	Remarks
1.	Tree translocation	52	52	Nil	Work is completed
2.	Compensatory plantation	910	910	Nil	Work is completed

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter Oct, Nov & Dec 2022 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

Divya S Hosur

General Manager,
SEMU-BMRCL

Divya S Hosur
General Manager
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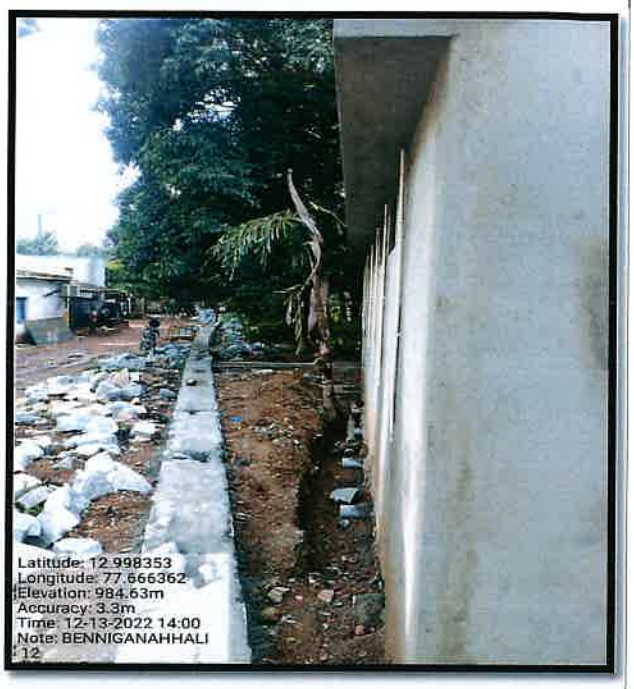
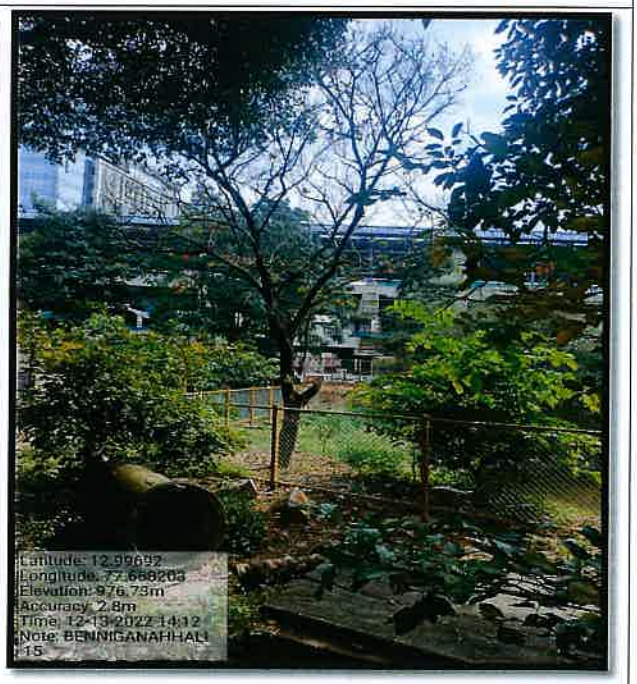
Bangalore Metro Rail Corporation Ltd.
3rd Floor, BMTC Complex, K.H. Road
Shanthinagar, Bengaluru - 560 027

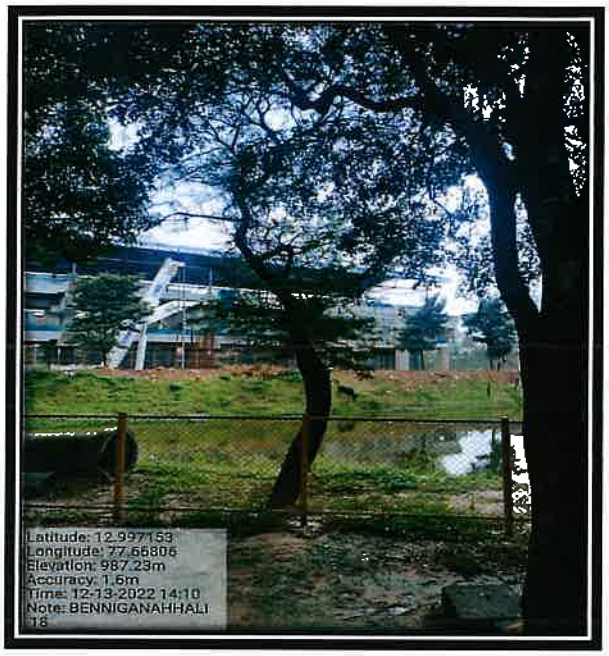
Status of Translocated trees pertaining to OM dated 02.03.2021				
Total No of transloacation tree 52				
Sl. No	**Tree No**	**Species**	**Loaction**	**Condition of tree**
1	1	Akash Malige	K R Poram	New Sproutes were not Observed
2	2	Akash Malige	K R Poram	New Sproutes were not Observed
3	3	Neem Tree	Beniganahalli lake	New Sproutes were not Observed
4	5	Hole dasavala	Beniganahalli lake	New Sproutes were not Observed
5	6	ficus bengali	Beniganahalli lake	Healthy
6	7	Hole dasavala	Beniganahalli lake	New Sproutes were not Observed
7	8	Hole dasavala	Beniganahalli lake	New Sproutes were not Observed
8	9	Bagane	Beniganahalli lake	New Sproutes were not Observed
9	12	Bagane	Beniganahalli lake	Healthy
10	13	Hole dasavala	Beniganahalli lake	New Sproutes were not Observed
11	14	Jamun	Beniganahalli lake	Healthy
12	15	Hole dasavala	Beniganahalli lake	Healthy
13	18	Kari Jaali	Beniganahalli lake	Healthy
14	19	Hole dasavala	Beniganahalli lake	New Sproutes were not Observed
15	21	Rain Tree	Beniganahalli lake	New Sproutes were not Observed
16	22	Akash Malige	Beniganahalli lake	Healthy
17	23	Akash Malige	Beniganahalli lake	New Sproutes were not Observed
18	44 (A)	Akash Malige	Beniganahalli lake	Healthy
	44 (B)		Beniganahalli lake	
19	45 (A)	Hole dasavala	Beniganahalli lake	New Sproutes were not Observed
	45 (B)		Beniganahalli lake	New Sproutes were not Observed
20	46	Daali chandra	Beniganahalli lake	New Sproutes were not Observed
21	47	Honge	Beniganahalli lake	New Sproutes were not Observed
22	48	Avalanda	Beniganahalli lake	New Sproutes were not Observed
23	49	Hole dasavala	Beniganahalli lake	New Sproutes were not Observed
24	58	Akash Malige	Beniganahalli lake	New Sproutes were not Observed

Status of Translocated trees pertaining to OM dated 02.03.2021				
Total No of transloacation tree 52				
25	61	Rose wood	Lowry School	New Sproutes were not Observed
26	62	Rose wood	Lowry School	New Sproutes were not Observed
27	63	Rose wood	Lowry School	New Sproutes were not Observed
28	64	Rose wood	Lowry School	New Sproutes were not Observed (Not Present at Site)
29	65	Rose wood	Beniganahalli lake	New Sproutes were not Observed
30	66	Rose wood	Lowry School	New Sproutes were not Observed
31	67	Rose wood	Lowry School	New Sproutes were not Observed
32	68	Rose wood	K R Poram	New Sproutes were not Observed (Fallen at Site)
33	69	Rose wood	Lowry School	New Sproutes were not Observed
34	70	Rose wood	Lowry School	New Sproutes were not Observed
35	71	Rose wood	K R Poram	New Sproutes were not Observed
36	72	Rose wood	K R Poram	New Sproutes were not Observed
37	74	Rose wood	Beniganahalli lake	New Sproutes were not Observed
38	75	Rose wood	Beniganahalli lake	Fallen Not present at site
39	76	Rose wood	Beniganahalli lake	Healthy
40	77	Rose wood	K R Poram	New Sproutes were not Observed
41	78	Rose wood	Beniganahalli lake	Fallen Not present at site
42	80	Rose wood	K R Poram	Fallen at site
43	81	Rose wood	K R Poram	New Sproutes were not Observed
44	82	Rose wood	Beniganahalli lake	Healthy
45	83	Rose wood	Beniganahalli lake	New Sproutes were not Observed
46	84	Rose wood	Beniganahalli lake	New Sproutes were not Observed
47	85	Rose wood	Beniganahalli lake	New Sproutes were not Observed
48	86	Rose wood	Beniganahalli lake	New Sproutes were not Observed
49	88	Rose wood	Beniganahalli lake	New Sproutes were not Observed
50	89 (A)	Rose wood	Beniganahalli lake	Fallen at site
	89 (B)		Beniganahalli lake	
51	90	Rose wood	Beniganahalli lake	New Sproutes were not Observed
52	91	Rose wood	Beniganahalli lake	New Sproutes were not Observed (Fallen at Site)

Benniganhalli



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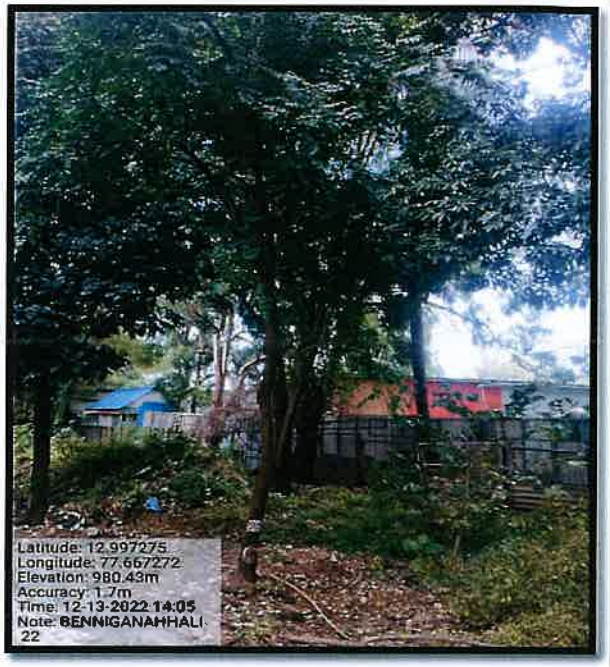
18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22


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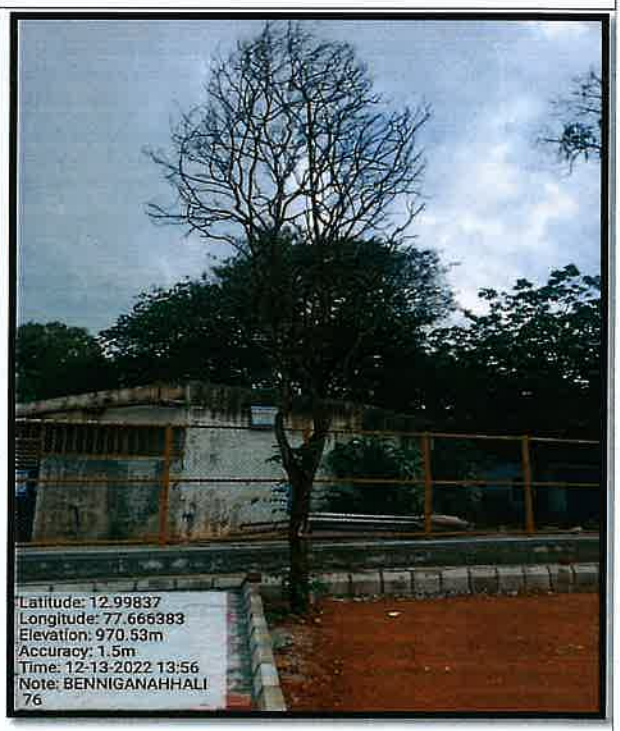
44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76

Location: CMP (Training), Neelasandra

OM dated: 02.03.2021, Court Permission: 25.03.2021

Sl.No	Name of the saplings	Number of individuals	Remarks
1	Bettadanelli	40	Healthy, 1/2 ft
2	Hunase	35	do 1/2 ft
3	Halasu	45	do 1/2 ft
4	Hebbalasu	54	do 1 ft
5	Kadubadami	61	do 1-1 ft
6	Basavanapada	50	do 1-3 ft
7	Nerale	85	do 1-1½ ft
8	Mahaghany	35	do 1-3 ft
9	Kadamba	20	do 1-1½
10	Mango	20	do 1/2 ft
11	Pannerale	20	do 1/2 ft
12	Thorematti	15	do 1/2 ft
13	Ala	10	do 1/2 ft
14	Arali	10	do 1/2 ft
15	Atti	20	do 1/2 ft
16	Goni	30	do 1/2 ft
Total		**550**	

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.,
Shanthinagar, Bengaluru

Location: CMP (Training area), Ibluru

OM dated: 02.03.2021, Court Permission: 25.03.2021

Sl. No.	Species	Number of Individuals	Remarks
1	Aala	4	Healthy 1/2 ft
2	Alstomia	6	do 1-3 ft
3	Amla	2	do 1/2 ft
4	Arali	15	do 1-1½ ft
5	Atti	6	do 1/2 ft
6	Basavanpada	51	do 1-3 ft
7	Bugari	2	do 1-1½
8	Conacarpus	13	do 1-2½
9	Goni	6	do 1/2
10	Hoarasi	25	do 1/2-1 ft
11	Hole matti	2	do 1/2-1 ft
12	Holedasvaalaa	19	do 1/2-1 ft
13	Honge	27	do 1/2
14	Jacaranda	8	do 1-2 ft
15	Kadubadami	19	do 1-1½ ft
16	Mahagony	43	do 1 ft
17	Nagaalainga	5	do 1-1½ ft
18	Naraalae	19	do 1-1½
19	Ranjal	18	do 1/2-1 ft
20	Spattihodea	18	do 1-2½ ft
21	Tare	8	do 1/2
22	Tabubia	20	do 1-2½
23	Tecoma	4	do 1/2
24	Tori matti	20	do 1/2
	Total	**360**	

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.,
Shanthinagar, Bengaluru

Quarterly report on implementation of Official Memorandum dated 26.03.2021 (R1 Ext – Kadugodi Depot) by Bengaluru Metro Rail Corporation Limited

Name of the project	: Reach 1 Ext Kadugodi Depot of Bangalore Metro Rail Project
Location of the project	: Kadugodi, Bengaluru
OM issued date by the Tree Officer, BBMP	: **26.03.2021**
Court Permission Date	: **22.04.2021**

Details of the OM dtd.: 26.03.2021

Total number of trees removed	: 188 No. Trees
Total Number of Trees Recommended for the Retention on site	: 07 No. Trees
Total Number of Trees Recommended for the Translocation on site	: 53 No. Trees
Number of Trees Recommended for the Felling on site	: 135 No. Trees

Details of Translocation:

Agency entrusted for the tree translocation	: Indus Herbs
Location of Receptor site	: 1. Kadugodi Depot area – 53 No. Trees
Total number of trees to be translocated as per OM dtd.	: **53 No. Trees**
Translocation completed Month and Year	: **Aug 2021**
Total number of tree translocation completed	: **53 No. Trees**
Total number of tree translocation balance	: **0 No. Trees**
Total number of trees observed with survival Symptoms	: **06 No. Trees**
Total number of trees not encounter with any type of survival symptoms	: **47 No. Trees**
Procedure of agency selection	: Through open quotations method as per the KPTT Act 1999 of emergency section.
Methodology adopted for the tree translocation	: Root Ball Method as per the UAS, GKVK, guidelines 2020

Supervision of translocation by BMRCL	:Environmental officer (SEMU), AM/AE-SENU Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU
Officers in-charge for tree translocation By BMRCL	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU)
Supervision by Forest Dept.	: Tree Officer or Officer Deputed by Tree Officer Bengaluru urban DCF

Details of compensatory Plantation:

Agency entrusted for the raising and maintenance of the plantation by BMRCL	: 1. Nursery Men Co-operative Society, Bengaluru. 2. Indus Herbs, Bengaluru. 3. Garden Villa, Bengaluru.
Location of Compensatory plantation (Block 1 MAR, Block 4- sector G&D)	: 1. CMP (Training) Iblur, Bengaluru – **1880 No. Tree**.
Procedure of agency selection	: Through open quotations method as per the KPTT Act 1999 of emergency section.
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 1880 No. Saplings
Number of Saplings planted	: 1880 No. Saplings
Year and Month of plantation Completed	: Dec 2021
Present servility rate of the plantation	: 1880 No. saplings (100%)
Supervision of Compensatory plantation by BMRCL	:Environmental officer (SEMU), AM/AE- SENU Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU
Officers in-charge for tree Compensatory plantation By BMRCL	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU)
Supervision by Forest Dept.	: Tree Officer or Officer Deputed by Tree Officer BBMP Bengaluru

A. TREE TRANSLOCATION

A1. Competent Agency Selected for Translocation:

Bangalore Metro Rail Corporation Limited Engaged TMRH Plantations for tree Translocation and maintenance for a period of 3 years. BMRCL has entered an agreement with TMRH Plantations.

A2. Survival Rate of transplanted trees as per the official memorandum:

The transplanted tree needs to be observed frequently for its survival, growth, pests, diseases and other physiological symptoms/expressions. It is possible to witness temporary wilting of leaves for few days, leaf fall also can happen and the tree may even decide to go in for 'Transitory Dormancy' phase, to avoid moisture loss and desiccation. But can show revival symptoms within six months like, new sprouts, turgid leaves, arrest of leaf fall, etc., It is also possible that sometimes, there will be a 'Distress' reaction in the form of premature flowering and fruiting. Also, some trees will exhibit new sprouts within few weeks which may be due to the presence of adequate stored food reserves. Under such circumstances, the new sprouts will not survive for a long and may wither soon. If the tree has not acclimatized, then there will not be any revival symptoms. It should be kept in mind that the transplanted tree has to withstand the tests of at least one years (covering all the three seasons) to declare it as 'surviving or successful'. Hence, any premature conclusions and certifications are being restrained.

From March 2021 BMRCL has translocated 53 trees which are given way for the metro construction. Morphological characteristics showing the survival symptoms likes leaf buds, leaf initiation, new shoots, tree branchlets, flowers and new leaves were observed in the 06 translocated trees are responding to the translocation shock and trying to adopt for the new location and surrounding microclimate. Remaining 47 translocated trees have not encountered with any survival symptoms.

A3. Maintenance of Transplanted trees:

Time period: The plantation has maintained for a period of three years form the date of completion of transplantation.

A3.2 Plantation activities under taken in the present quarter:

Weeding:

Removal of the weeds has been carried out from Oct 2022 to Nov 2022 at receptor sites.

Soil works: Hoeing and other soil works has been started from Nov 2022, still in progress.

Saucer Bharav:

Preparation of Saucer Bharav for the saplings has been started from Nov 2022, still in progress.

Watering:

Due to heavy rains in the Bengaluru no watering activity has carried out in quarter Oct to Dec 2022 in the receptor site.

B. COMPENSATORY PLANTATION:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy saplings. Hence BMRCL had raised the plantation of 1880 no. saplings at CMP (Training) Iblur, Bengaluru – 1880 No. Saplings.

BMRCL has to rise the compensatory plantation of 57,320 No. saplings as per the 18 official memorandums issued by the tree officer BBMP from March 2021 to November 2022. BMRCL had completed the raising 25,730 saplings.

B1. Maintenance of the plantation

B1.1. Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

B1.2. Causality replacement: From Oct to Dec 2022, 0% causality was observed in the 1880 saplings afforestation pertaining to the OM dtd. 26.03.2021. But still any plant attains causality BMRCL is replanting such seedlings.

B1.3. Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from Nov 2022 to Dec 2022 for the plantations at CMP (Training) Iblur, Bengaluru – 1880 No. Saplings.

Soil works: Hoeing and other soil works has been started from Nov 2022, still in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been Started in Nov 2022, still in progress.

Watering: Due to heavy rains in the Bengaluru no watering activity has carried out in quarter Oct to Nov 2022 in the plantations.

Application of Fertiliser to plants: 50g of DAP and approximately 2 kg of FYM has been given to each tree sapling at the root zone from Nov 2022, still is in progress.

Survival rate: In the quarter Oct to Dec 2022 100 % survival rate has been observed, the tree Sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation at CMP (Training) Iblur, Bengaluru – 1880 No. Saplings

Numbering and Geo tagging:

Coding of Each tree sapling in the at CMP (Training) Iblur, Bengaluru – 1880 No. Saplings. Geo tagging of each sapling has been completed on Dec 2021.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. Maintenance of 53 transplanted trees is in progress. 2. Maintenance of 1800 trees saplings is in progress.	1. Both transplanted and compensatory afforestation sites activities like weeding, soil works and nutrient supplements were taken up.

C. Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till Sept 2022	Balance	Remarks
1.	Tree translocation	53	53	Nil	Work is completed
2.	Compensatory plantation	1880	1880	Nil	Work is completed

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter Oct, Nov & Dec 2022 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

Divya S Hosur

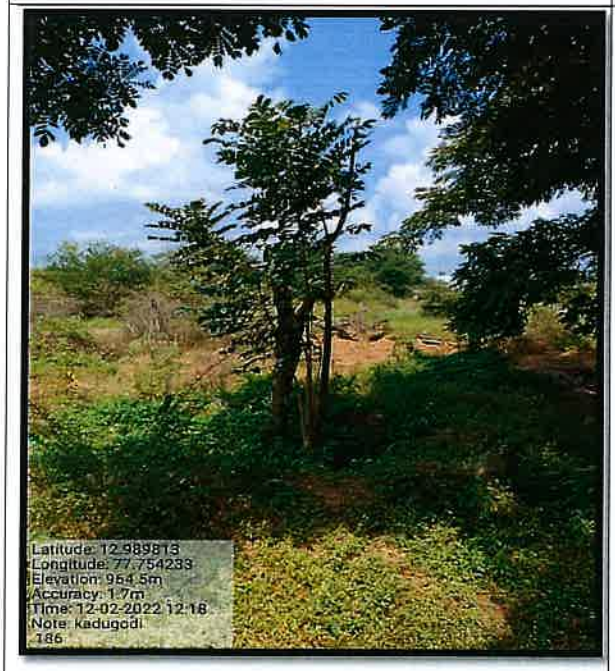
General Manager,
SEMU-BMRCL

General Manager
Social & Environmental Management Unit (SEMU)
Bangalore Metro Rail Corporation Ltd.
3rd Floor, BMTC Complex, K.H. Road
Shanthinagar, Bengaluru - 560 027

Status of Translocated trees pertaining to OM dated 26.03.2021				
Sl. No	Tree No	Species	Location	Condition of the Tree
1	3 (a)	Jungle	Kadugodi Depot	New Sproutes were not Observed
	3 (b)		Kadugodi Depot	
2	21	Neem	Kadugodi Depot	New Sproutes were not Observed
3	23 (a)	Neem	Kadugodi Depot	Fallen at Site due to heavy rain
	23 (b)		Kadugodi Depot	
	23 (c)		Kadugodi Depot	
4	26	Neem	Kadugodi Depot	New Sproutes were not Observed
5	30 (a)	Goni Ficusmys orensis	Kadugodi Depot	Healthy
	30 (b)		Kadugodi Depot	
	30 (c)		Kadugodi Depot	
6	34	Hunasemara Tamrindu sindica	Kadugodi Depot	New Sproutes were not Observed
7	36	Hunasemara Tamrindu sindica	Kadugodi Depot	New Sproutes were not Observed
8	47	Arali nerium oleander	Kadugodi Depot	Healthy
9	48	Hunasemara Tamrindu sindica	Kadugodi Depot	New Sproutes were not Observed
10	49	Hunasemara Tamrindu sindica	Kadugodi Depot	New Sproutes were not Observed
11	50	Hunasemara Tamrindu sindica	Kadugodi Depot	New Sproutes were not Observed
12	58	Hunasemara Tamrindu sindica	Kadugodi Depot	New Sproutes were not Observed
13	67	Hunasemara	Kadugodi Depot	New Sproutes were not Observed
14	73	Hunasemara Tamrindu sindica	Kadugodi Depot	New Sproutes were not Observed
15	89	Hunasemara Tamrindu sindica	Kadugodi Depot	New Sproutes were not Observed
16	91	Hunasemara Tamrindu sindica	Kadugodi Depot	New Sproutes were not Observed
17	92	Hunasemara Tamrindu sindica	Kadugodi Depot	New Sproutes were not Observed
18	102	Hunasemara Tamrindu sindica	Kadugodi Depot	New Sproutes were not Observed
19	136	Hunasemara	Kadugodi Depot	New Sproutes were not Observed
20	148 (a)	Jungle Tree-Bauhiniaracemosa	Kadugodi Depot	New Sproutes were not Observed
	148 (b)		Kadugodi Depot	
	148 (c)		Kadugodi Depot	
	148 (d)		Kadugodi Depot	
21	157	Kakke Cassia fistula	Kadugodi Depot	New Sproutes were not Observed
22	158	Honge Pongamia pinnata	Kadugodi Depot	New Sproutes were not Observed
23	160	Kakke Cassia fistula	Kadugodi Depot	New Sproutes were not Observed
24	161	Kakke Cassia fistula	Kadugodi Depot	New Sproutes were not Observed
25	162	Kakke Cassia fistula	Kadugodi Depot	New Sproutes were not Observed
26	166	Kakke Cassia fistula	Kadugodi Depot	New Sproutes were not Observed
27	176	Jungle tree bauhiniaracemosa	Kadugodi Depot	New Sproutes were not Observed
28	185	Spathodia Spathodeacampanulata	Kadugodi Depot	Healthy
29	186	Spathodia Spathodeacampanulata	Kadugodi Depot	Healthy
30	187	Raintree Samaneasaman	Kadugodi Depot	New Sproutes were not Observed
31	189	Bilwara Albiziaod oratissima	Kadugodi Depot	New Sproutes were not Observed
32	190 (a)	Neem Azadirach taindica	Kadugodi Depot	New Sproutes were not Observed
	190 (b)		Kadugodi Depot	New Sproutes were not Observed
33	193	Spathodia Spathodeacampanulata	Kadugodi Depot	Healthy
34	195	Eechalu-Phoenizsylvestris	Kadugodi Depot	New Sproutes were not Observed
35	3	Neem	Kadugodi Depot	New Sproutes were not Observed
36	4	Neem	Kadugodi Depot	New Sproutes were not Observed
37	5	Sandal	Kadugodi Depot	New Sproutes were not Observed
38	6	Neem	Kadugodi Depot	New Sproutes were not Observed
39	9	Halasu	Kadugodi Depot	New Sproutes were not Observed
40	11	Sandal	Kadugodi Depot	Dried at site due to heavy rain

41	12	Neem	Kadugodi Depot	New Sproutes were not Observed
	12 (a)		Kadugodi Depot	
42	15	Bilwara	Kadugodi Depot	New Sproutes were not Observed
43	16	Halasu	Kadugodi Depot	New Sproutes were not Observed
44	19	Muguli Mara	Kadugodi Depot	New Sproutes were not Observed
45	21	Bilwara	Kadugodi Depot	New Sproutes were not Observed
46	22	Sandal	Kadugodi Depot	New Sproutes were not Observed
47	26	Muguli Mara	Kadugodi Depot	New Sproutes were not Observed
48	27	Bevu	Kadugodi Depot	New Sproutes were not Observed
49	32	Sandal	Kadugodi Depot	New Sproutes were not Observed
50	33	Dalichandra	Kadugodi Depot	Healthy
51	1	Sissoo	Kadugodi Depot	New Sproutes were not Observed
52	2	Sissoo	Kadugodi Depot	New Sproutes were not Observed
53	3	Sandal	Kadugodi Depot	New Sproutes were not Observed

KADUGODI TRANSLOCATION SITE



Location: ASC North (Training area), Ibluru

OM dated: 26.03.2021, Court Permission: 22.04.2021

Sl. No.	Species	Number of Individuals	Remarks
1	Aala	139	Healthy 1/2 yr (dec)
2	Alastomia	38	do 1-4 yr
3	Akasha mallige	101	do 1-12 yr
4	Arali	14	do 1-4 yr
5	Atti	65	do 1 yr
6	Basavanpada	68	do 1-3 yr
7	Basari	5	do 1/2-1 yr
8	Bugari	21	do 1-2 yr
9	Conocarpus	27	do 1-3 yr
10	Champaka	9	do 1/2-4 yr
11	Goni	24	do 1/2 yr
12	Hoarasi	47	do 1-3 yr
13	Holedasvaalaa	55	do 1 yr
14	Honge	62	do 1/2 yr
15	Hole matti	145	do 1-3 yr
16	Jacaranda	69	do 1-3 yr
17	Kadubadami	82	do 1/2-4 yr
18	Kakke	10	do 1/2 yr
19	Kadamba	67	do 1 yr
20	Kiru nalli	45	do 1-1 1/2 yr
21	Mahagony	140	do 1/2-1 yr
22	Nagaalainga	46	do 1-1 1/2 yr
23	Naraalae	159	do 1-3 yr
24	Ranjal	54	do 4 yr
25	Simaruba	32	do 1/2 yr
26	Spattihodea	106	do 1-3 yr
27	Taare	62	do 1-3 1/2 yr
28	Tabubia rosea	66	do 1-3 yr
29	Tecoma	61	do 1/2 yr
30	Tori matti	61	do 1 yr
	Total	**1880**	

G. Manjunath

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.,
Shanthinagar, Bengaluru

WMF6+PXP, Iblur Village, Bellandur, Bengaluru, Karnataka 560103, India

Latitude
12.92509275°

Longitude
77.66129665°

Local 10:05:34 AM
GMT 04:35:34 AM

Altitude 801.62 meters
Wednesday, 02-11-2022

Note : KIADB-RK-TR-1392

WMG6+J8C, Iblur Village, Bellandur, Bengaluru, Karnataka 560103, India

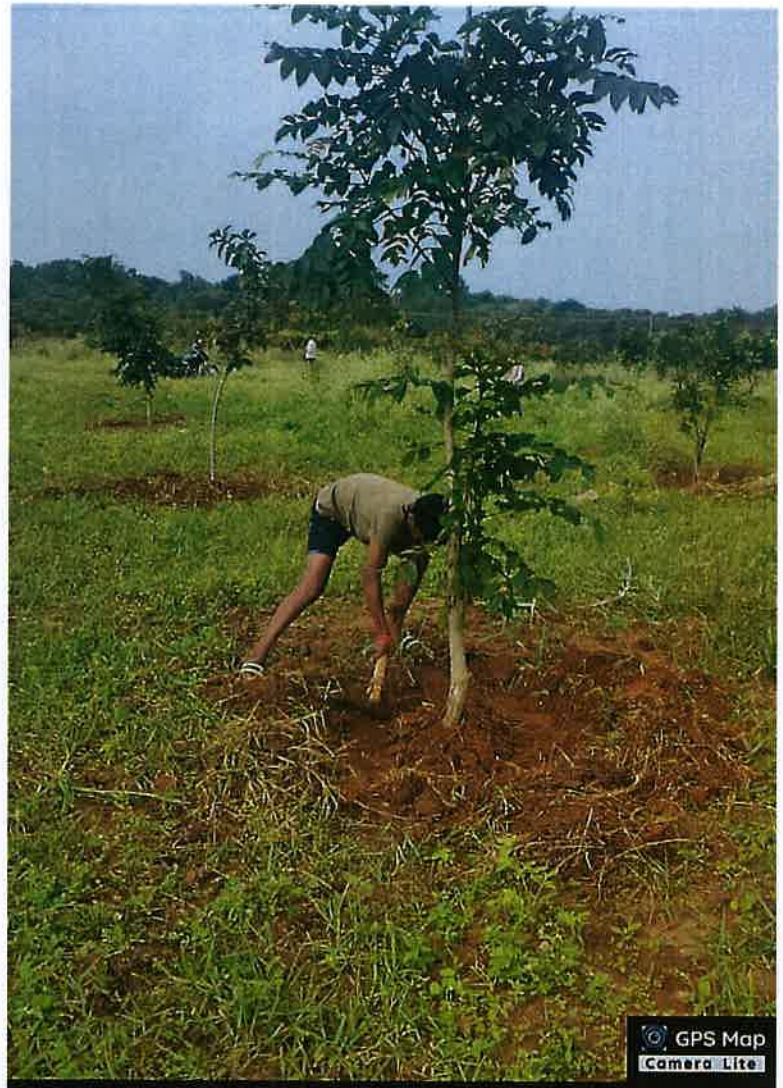
Latitude
12.92575421°

Longitude
77.66046504°

Local 10:52:33 AM
GMT 05:22:33 AM

Altitude 797.68 meters
Wednesday, 02-11-2022

Note : KIADB-RK-TR-1392



WMG7+C35, Iblur Village, Bellandur, Bengaluru, Karnataka 560103, India

Latitude
12.9269713°

Longitude
77.6617215°

Local 09:41:19 AM
GMT 04:11:19 AM

Altitude 791.1 meters
Tuesday, 15-11-2022

Note : KIADB-RK-TR-1392


Army Camp, Sarjapur - Marathahalli Rd, Iblur Village, Bellandur, Bengaluru, Karnataka 560103, India
Bengaluru
Karnataka
India
2022-11-05(Sat) 10:45(am)
24°C
75°F
IBLUR VILLAGE
Prestige Ferns Gal
Manipal Hospital Sarjapur Road
Mantri Flora
Google

K

Quarterly report on implementation of Official Memorandum dated 23.03.2021 (R6 UG Between South ramp - Jayanagar Fire Station to North Ramp - Nagawara) by Bengaluru Metro Rail Corporation Limited

Name of the project	: Reach 6 Underground of Bangalore Metro Rail Project
Location of the project	: Between South ramp - Jayanagar Fire Station to North Ramp - Nagawara, Bengaluru.
OM issued date by the Tree Officer, BBMP	: **23.03.2021**
Court Permission Date	: **29.06.2021/29.07.2021**

Details of the OM dtd.: 23.03.2021

Total number of trees removed as per OM	: 207 No. Trees
Total Number of Trees Recommended for the Retention on site	: 05 No. Trees
Total Number of Trees Recommended for the Translocation on site	: 58 No. Trees
Number of Trees Recommended for the Felling on site	: 149 No. Trees

Details of Translocation:

Agency entrusted for the tree translocation	: Asian Landscapes
Location of Receptor site	: 1.Bangalore Co operative Union limited. Premises KMF bengaluru = **16 No. Trees** 2. National Dairy Reseach Institute , Bengaluru = **6 No. Trees** 3. Parade ground MG Road ,Bengaluru = **06 No. Trees** 4. Old Military Dairy Farm ,Hebbal = **30 No. Trees**
Total number of trees to be translocated as per OM dtd.	: **58 No. Trees**
Translocation completed Month and Year	: **November 2021**
Total number of tree translocation completed	: **50 No. Trees**
Total number of tree translocation balance	: **08 No. Trees**
Total number of trees observed with survival Symptoms	: **06 No. Trees**

Total number of trees not encounter with any type of survival symptoms	: **44 No. Trees**
Procedure of agency selection	: Through open quotations method as per the KPTT Act 1999 of emergency section.
Methodology adopted for the tree translocation	: Root Ball Method as per the UAS, GKVK, guidelines 2020
Supervision of translocation	:Environmental officer (SEMU), Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU, Asst. Engineer (Civil) 2A Package 1, BMRCL and Asst. Engineer (Civil), AFCONS PVT. LTD.
Officers in-charge for tree translocation	: ED-Civil, GM (SEMU), Chief Engineer (2A Package 1-ORR), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU), AE (Civil) 2A Package 1 and Asst. Engineer (Civil), AFCONS.
Supervision by Forest Dept	: BBMP Tree Officer or Officer Deputed by Tree Officer BBMP

Details of compensatory Plantation:

Agency entrusted for the raising and maintenance of the plantation by BMRCL	: 1. Nursery Men Co-operative Society, Bengaluru. 2. Garden Villa, Bengaluru.
Location of Compensatory plantation	: 1. CMP (Training) Iblur, Bengaluru – **1700 No. Tree** 2. ASC North (Training area) – **370 No. Tree**
Procedure of agency selection	: Through open quotations method as per the KPTT Act 1999 of emergency section.
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 2070 No. Saplings
Number of Saplings planted	: 2070 No. Saplings
Year and Month of plantation Completed	: Aug- Dec 2021
Present servility rate of the plantation	: 2070 No. saplings (100%)
Supervision of Compensatory plantation	: General Manager (SEMU), Environmental officer, AM/AE (SEMU) Asst.

	Environmental Officer, SEMU, Section Environmental Engineer, SEMU.
Officers in-charge for Compensatory plantation	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU).
Supervision by Forest Dept	: BBMP Tree Officer or Officer Deputed by Tree Officer BBMP

A. TREE TRANSLOCATION

A1. Competent Agency Selected for Translocation:

Bangalore Metro Rail Corporation Limited Engaged Asian Landscaps for tree Translocation and maintenance for a period of 3 years. BMRCL has entered an agreement with Asian Landscaps Plantations.

A2. Survival Rate of transplanted trees as per the official memorandum:

The transplanted tree needs to be observed frequently for its survival, growth, pests, diseases and other physiological symptoms/expressions. It is possible to witness temporary wilting of leaves for few days, leaf fall also can happen and the tree may even decide to go in for 'Transitory Dormancy' phase, to avoid moisture loss and desiccation. But can show revival symptoms within six months like, new sprouts, turgid leaves, arrest of leaf fall, etc., It is also possible that sometimes, there will be a 'Distress' reaction in the form of premature flowering and fruiting. Also, some trees will exhibit new sprouts within few weeks which may be due to the presence of adequate stored food reserves. Under such circumstances, the new sprouts will not survive for a long and may wither soon. If the tree has not acclimatized, then there will not be any revival symptoms. It should be kept in mind that the transplanted tree has to withstand the tests of at least one years (covering all the three seasons) to declare it as 'surviving or successful'. Hence, any premature conclusions and certifications are being restrained.

From March 2021 BMRCL has translocated 50 trees which are given way for the metro construction. Morphological characteristics showing the survival symptoms likes leaf buds, leaf initiation, new shoots, tree branchlets, flowers and new leaves were observed in the 06 translocated trees which evident trees are responding to the translocation shock and trying to adopt for the new location and surrounding microclimate. Remaining 44 translocated trees have not encountered with any survival symptoms.

A3. Maintenance of Transplanted trees:

A3.1 Time period: The plantation has maintained for a period of three years form the date of completion of transplantation.

A3.2 Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from Oct 2022 to Nov 2022 at receptor sites.

Soil works: Hoeing and other soil works has been started from Nov 2022, still in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from Nov 2022, still in progress.

Watering: Due to heavy rains in the Bengaluru no watering activity has carried out in quarter Oct to Dec 2022 in the receptor site.

B. COMPENSATORY PLANTATION:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy saplings. Hence BMRCL had raised the plantation of 2070 no. saplings at CMP (Training) Iblur, Bengaluru – 1700 No. Saplings and ASC North (Training area) – 370 No. Tree.

BMRCL has to rise the compensatory plantation of 57,320 No. saplings as per the 18 official memorandums issued by the tree officer BBMP from March 2021 to November 2022. BMRCL had completed the raising 25,730 saplings.

B2. Maintenance of the plantation

Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

Causality replacement: From Oct to Dec 2022, 0% causality was observed in the 1880 saplings afforestation pertaining to the OM dtd. 23.03.2021.

B3. Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from Oct 2022 to Dec 2022 for the plantations at CMP (Training) Iblur, Bengaluru – 1700 No. Saplings and ASC North (Training area) – 370 No. Tree.

Soil works: Hoeing and other soil works has been started from Nov 2022, still in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been Started in Dec 2022, still in progress.

Watering: Due to heavy rains in the Bengaluru no watering activity has carried out in quarter Oct to Dec 2022 in the plantations.

Application of Fertiliser to plants: 50g of DAP and approximately 2 kg of FYM has been given to each sapling at the root zone from Nov 2022, still is in progress.

Survival rate: In the quarter Oct to Dec 2022 100 % survival rate has been observed, the sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation at CMP (Training) Iblur, Bengaluru – 1700 No. Saplings and ASC North (Training area) – 370 No. Tree.

Numbering and Geo tagging: Coding of Each sapling in the at CMP (Training) Iblur, Bengaluru – 1880 No. Saplings and ASC North (Training area) – 370 No. Tree. Geo tagging of each sapling has been completed on Dec 2021.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. Maintenance of 50 transplanted trees is in progress. 2. Maintenance of 2070 trees saplings is in progress.	1. Both transplanted and compensatory afforestation site activities like weeding, soil works and nutrient supplements were taken up.

Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till Dec 2022	Balance	Remarks
1.	Tree translocation	58	50	8	Work is in progress
2.	Compensatory plantation	2070	2070	Nil	Work is completed

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter Oct, Nov & Dec 2022 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

Divya S Hosur

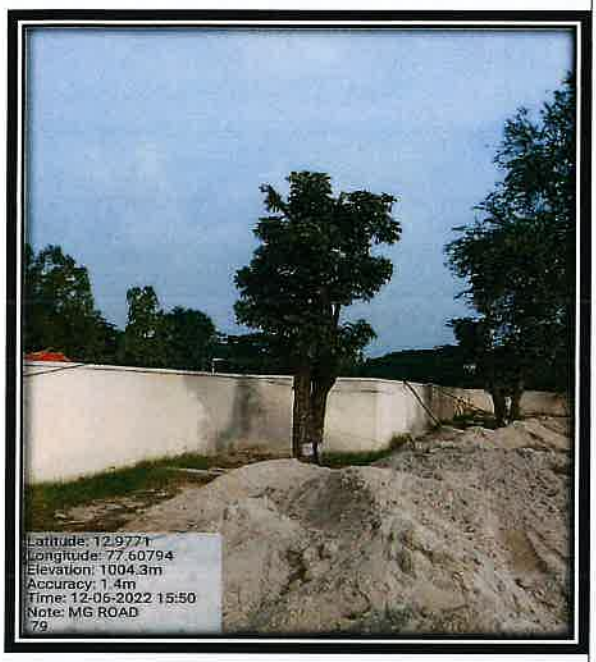
General Manager,
SEMU-BMRCL

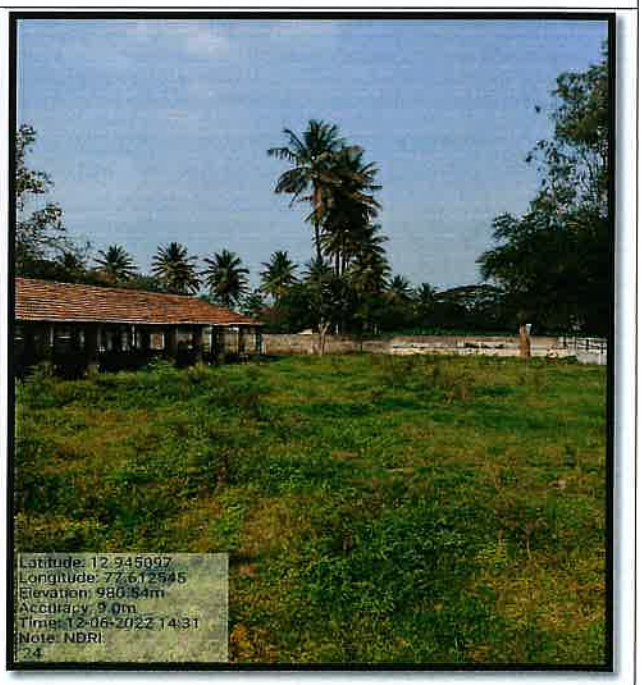
Divya S Hosur
General Manager
Social & Environmental Management Unit (SEMU)
Bangalore Metro Rail Corporation Ltd.
3rd Floor, BMTC Complex, K.H. Road
Shanthinagar, Bengaluru - 560 027

Status of Translocated trees pertaining to OM dated 23.03.2021				
Sl.No	Tree No	Species	Location	Condition of the trees
1	1	Jamun	Dairy Circle	Retained at site
2	4	Neem	KMF	Not Present at site
3	5	Neem	KMF	New Sproutes were not Observed
4	7	Neem	KMF	New Sproutes were not Observed
5	9	Jamun	KMF	New Sproutes were not Observed
6	10	Jamun	KMF	New Sproutes were not Observed
7	11	Mango	KMF	New Sproutes were not Observed
8	18	Mango	KMF	New Sproutes were not Observed
9	19	Honge	KMF	New Sproutes were not Observed
10	21	Neem	KMF	New Sproutes were not Observed
11	35	Peepal	KMF	Healthy
12	36	Peepal	KMF	Partially Healthy
13	37	Jamun	KMF	New Sproutes were not Observed
14	Un-numbered	Bannimara	Dairy Circle	Retained at site
15	22	Rain Tree	NDRI	Healthy
16	23A	Spathodea	NDRI	New Sproutes were not Observed
	23B	Spathodea	NDRI	
17	24	Banyan tree	NDRI	Healthy
18	25	Peepal	KMF	New Sproutes were not Observed
19	26	Jamun	NDRI	New Sproutes were not Observed
20	28	Fig	NDRI	New Sproutes were not Observed
21	31	Mango tree	NDRI	New Sproutes were not Observed
22	33	Peepal	KMF	New Sproutes were not Observed
23	74	Honge	Parade Ground	New Sproutes were not Observed
24	77	Sampige	Parade Ground	New Sproutes were not Observed
25	78	Mahagani		Yet to transloacte
26	79	Mahagani	Parade Ground	Healthy
27	80	Mahagani	Parade Ground	Healthy
28	81	Basavanapada	Parade Ground	New Sproutes were not Observed
29	3	Sampige tree	HMDF	New Sproutes were not Observed
30	4	Sampige	HMDF	New Sproutes were not Observed
31	9	Jack fruit	HMDF	New Sproutes were not Observed
32	12	Mango	HMDF	New Sproutes were not Observed
33	19	Mango	HMDF	New Sproutes were not Observed
34	27	Ashoka	HMDF	New Sproutes were not Observed
35	43	Honge		Yet to transloacte
36	46	Arali	HMDF	New Sproutes were not Observed
37	2	Honge		Yet to transloacte
38	4	Aralimara		Yet to transloacte
39	12	Honge		Yet to transloacte
40	14	Honge		Yet to transloacte
41	22	Mango	HMDF	New Sproutes were not Observed

42	29	Mango	HMDF	Partially Healthy
43	30	Mango	HMDF	Partially Healthy
44	33	Mango	HMDF	Partially Healthy
45	36	Nerale	HMDF	New Sproutes were not Observed
46	38	Jack fruit	HMDF	New Sproutes were not Observed
47	39	Badami	HMDF	New Sproutes were not Observed
48	43	Honge	HMDF	New Sproutes were not Observed
49	45	Honge		Yet to transloacte
50	52	Jeevi	HMDF	New Sproutes were not Observed
51	54	Jeevi	HMDF	New Sproutes were not Observed
52	57	Arali	HMDF	New Sproutes were not Observed
53	59	Badami	HMDF	New Sproutes were not Observed
54	61	Arali		Yet to transloacte
55	64	Jack fruit	HMDF	New Sproutes were not Observed
56	74	Mango	HMDF	New Sproutes were not Observed
57	75	Mango	HMDF	New Sproutes were not Observed
58	79	Melia Dubia	HMDF	New Sproutes were not Observed

R 6 UG TRANSLOCATION SITE





Compensatory Plantation

OM No. dated 23.03.2021 court premission date: Translocation - 29.06.2021, Cutting - 29.07.2021
Location: ASC, North, Ibluru, Bengaluru - 370 trees

SI No	Name of the Saplings	Number of saplings planted	Remarks
1	Tammarind	15	Healthy 1/2
2	Jack fruit	25	1/2
3	Indian Almond	25	1-1/2
4	Indian Puggi	25	1/2
5	Basavanapada	15	1-1/2
6	Jack fruit	25	1/2
7	Hippe	10	1/2
8	Hole dasavala	25	1+1/2
9	Thore Matti	25	1
10	Hoovarasi	25	1/2 - 1
13	Mahagani	10	1-3
14	Champaka	15	1
15	Ala	25	1/2
16	Arali	15	1/2
17	Basari	25	1
18	Nerale	25	1/2
19	Neem	20	1-2
24	Tabubia rosea	20	1/2
	Total	**370**	

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.,
Shanthinagar, Bengaluru

Compensatory Plantation			
OM dated 23.03.2021 court premission date: Translocation - 29.06.2021, Cutting - 29.07.2021 Location: CMP (trainning area), Ibluru - 1700 trees			
SI No	Name of the Saplings	Number of saplings planted	Remarks
1	Ala	50	Healthy, 8-10 ft
2	Anali	25	—— " ——
3	Arali	25	—— " ——
4	Basari	50	—— " ——
5	Basavanapada	50	Healthy, 8-12 ft
6	Champaka	100	Healthy, 8-10 ft
7	Gonni	65	Healthy, 8-10 ft
8	Hippe	55	Healthy, 8-10 ft
9	Hole dasavala	85	Healthy, 8-10 ft
10	Holle Malli	50	Healthy, 8-10 ft
11	Honge	105	Healthy, 8-9 ft
12	Hoovarasi	100	Healthy, 8-10 ft
13	Indian Almond	50	—— " ——
14	Indian Puggi	25	—— " ——
15	Jack fruit	125	—— " ——
16	Kadamba	25	—— " ——
17	Kadunse	25	Healthy, 8-10 ft
18	Mahagani	100	Healthy, 8-12 ft
19	Mango	50	Healthy, 8-10 ft
20	Marry Jackfruit	25	Healthy, 8-10 ft
21	Nagalinga pushpa	50	Healthy, 8-10 ft
22	Neem	100	Healthy, 8-10 ft
23	Nerale	100	Healthy, 8-10 ft
24	Spethodia	25	Healthy, 8-10 ft
25	Tabubia Rosea	90	Healthy, 8-12 ft
26	Tammarind	50	Healthy, 8-9 ft
27	Tecoma	50	Healthy, 8-10 ft
28	Thore Matti	50	Healthy, 8-10 ft
	Total	1700	


BMRCL
IH:575


BMRCL
IH:578


SRI BYRESHWARA'S

Quarterly report on implementation of Official Memorandum dated 08.04.2021 (Kothnur Depot Entry Line) by Bengaluru Metro Rail Corporation Limited

Name of the project	: Kothnur Depot Entry Line of Bangalore Metro Rail Project
Location of the project	: Kothnur, Bengaluru
OM issued date by the Tree Officer, BBMP	: **08.04.2021**
Court Permission Date	: **29.06.2021/15.07.2021**

Details of the OM dtd.: 08.04.2021

Total number of trees removed as per OM	: 33 No. Trees
Total Number of Trees Recommended for the Retention on site	: 06 No. Trees
Total Number of Trees Recommended for the Translocation on site	: 18 No. Trees
Number of Trees Recommended for the Felling on site	: 15 No. Trees

Details of Translocation:

Agency entrusted for the tree translocation	: Indus Herbs
Location of Receptor site	: Biotechnolgy Centre ,Dept of Horticulture ,Hulimavu opposite to Meenakshi mall ,Bannerghatta road **-18 No. Trees**
Total number of trees to be translocated as per OM dtd.	: **18 No. Trees**
Translocation completed Month and Year	: **March 2022**
Total number of tree translocation completed	: **15 No. Trees**
Total number of tree translocation balance	: **03 No. Trees**
Total number of trees observed with survival Symptoms	: **02 No. Trees**
Total number of trees not encounter with any type of survival symptoms	: **13 No. Trees**
Procedure of agency selection	: Through open quotations method as per the KPTT Act 1999 of emergency section.

Methodology adopted for the tree translocation: Root Ball Method as per the UAS, GKVK, guidelines 2020

Supervision of translocation by BMRCL	:Environmental officer (SEMU), AM/AE-SENU Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU
Officers in-charge for tree translocation By BMRCL	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU)
Supervision by Forest Dept.	: Tree Officer or Officer Deputed by Tree Officer Bengaluru urban DCF.
Supervision by DCF Urban	: Tree Officer or Officer Deputed by Tree Officer DCF Urban

Details of compensatory Plantation:

Agency entrusted for the raising and	: United ways, Bengaluru
Location of Compensatory plantation	: Nadaprabhu Kempegowda Layout (Block-7-B-Sector, Block-5-H-Sector, Block-5-I-Sector) – 350 **No. Saplings**
Procedure of agency selection maintenance of the plantation by BMRCL	: Through open quotations method as per the KPTT Act 1999 of emergency section.
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 330 No. Saplings
Number of Saplings planted	: 330 No. Saplings
Year and Month of plantation Completed	: Dec 2021
Present servility rate of the plantation	: 350 No. saplings (100%)
Supervision of Compensatory plantation by BMRCL	:Environmental officer (SEMU), AM/AE- SENU Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU
Officers in-charge for Compensatory plantation By BMRCL	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU)
Supervision by DCF Urban	: Tree Officer or Officer Deputed by Tree Officer DCF Urban

A. TREE TRANSLOCATION

A1. Competent Agency Selected for Translocation:

Bangalore Metro Rail Corporation Limited Engaged Indus Herbs for tree Translocation and maintenance for a period of 3 years. BMRCL has entered an agreement with Indus Herbs Plantations.

A2. Survival Rate of transplanted trees as per the official memorandum:

The transplanted tree needs to be observed frequently for its survival, growth, pests, diseases and other physiological symptoms/expressions. It is possible to witness temporary wilting of leaves for few days, leaf fall also can happen and the tree may even decide to go in for 'Transitory Dormancy' phase, to avoid moisture loss and desiccation. But can show revival symptoms within six months like, new sprouts, turgid leaves, arrest of leaf fall, etc., It is also possible that sometimes, there will be a 'Distress' reaction in the form of premature flowering and fruiting. Also, some trees will exhibit new sprouts within few weeks which may be due to the presence of adequate stored food reserves. Under such circumstances, the new sprouts will not survive for a long and may wither soon. If the tree has not acclimatized, then there will not be any revival symptoms. It should be kept in mind that the transplanted tree has to withstand the tests of at least one years (covering all the three seasons) to declare it as 'surviving or successful'. Hence, any premature conclusions and certifications are being restrained.

From March 2021 BMRCL has translocated 15 trees which are given way for the metro construction. Morphological characteristics showing the survival symptoms likes leaf buds, leaf initiation, new shoots, tree branchlets, flowers and new leaves were observed in the 02 translocated trees which trees are responding to the translocation shock and trying to adopt for the new location and surrounding microclimate. Remaining 13 translocated trees have not encountered with any survival symptoms.

A3. Maintenance of Transplanted trees:

A3.1 Time period:

The plantation has maintained for a period of three years form the date of completion of transplantation.

A3.2 Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from Nov 2022 to Dec 2022 at receptor sites.

Soil works: Hoeing and other soil works has been started from Nov 2022, still in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from Nov 2022, still in progress.

Watering:

Due to heavy rains in the Bengaluru no watering activity has carried out in quarter Oct to Dec 2022 in the receptor site.

B. COMPENSATORY PLANTATION:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy saplings. Hence BMRCL had raised the plantation of 350 no. saplings at Nadaprabhu Kempegowda Layout (Block-7-B-Sector, Block-5-H-Sector, Block-5-I-Sector) – 350 No. Saplings.

BMRCL has to rise the compensatory plantation of 57,320 No. saplings as per the 18 official memorandums issued by the tree officer BBMP from March 2021 to November 2022. BMRCL had completed the raising 25,730 saplings.

B1. Maintenance of the plantation

B.1 Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

B1.1 Causality replacement: From Oct to Dec 2022, 0% causality was observed in the 1880 saplings afforestation pertaining to the OM dtd. 08.04.2021. But still any plant attains causality BMRCL is replanting such seedlings.

B1.2 Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from Oct 2022 to Dec 2022 for the plantations at Nadaprabhu Kempegowda Layout (Block-7-B-Sector, Block-5-H-Sector, Block-5-I-Sector) – 350 No. Saplings.

Soil works: Hoeing and other soil works has been started from Nov 2022, still in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been Started in Dec 2022, still in progress.

Quarterly Report Oct to Dec 2022 5th Quarter

Watering:

Due to heavy rains in the Bengaluru no watering activity has carried out in quarter Oct to Dec 2022 in the plantations.

Application of Fertiliser to plants: 50g of DAP and approximately 2 kg of FYM has been given to each tree sapling at the root zone from Nov 2022, still is in progress.

Survival rate:

In the quarter Oct to Dec 2022 100 % survival rate has been observed, the tree Sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation at Nadaprabhu Kempegowda Layout (Block-7-B-Sector, Block-5-H-Sector, Block-5-I-Sector) – 350 No. Saplings.

Numbering and Geo tagging:

Coding of Each tree sapling in the at Nadaprabhu Kempegowda Layout (Block-7-B-Sector, Block-5-H-Sector, Block-5-I-Sector) – 350 No. Saplings has been starts. Geo tagging of each sapling has been completed on Dec 2021.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. Maintenance of 15 transplanted trees is in progress. 2. Maintenance of 350 saplings is in progress.	1. Both transplanted and compensatory afforestation site activities like weeding, soil works and nutrient supplements were taken up.

C. Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till Dec 2022	Balance	Remarks
1.	Tree translocation	18	15	3	Work is in progress
2.	Compensatory plantation	330	350	Nil	Work is completed

Quarterly Report Oct to Dec 2022 **5th Quarter**

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter Oct, Nov & Dec 2022 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

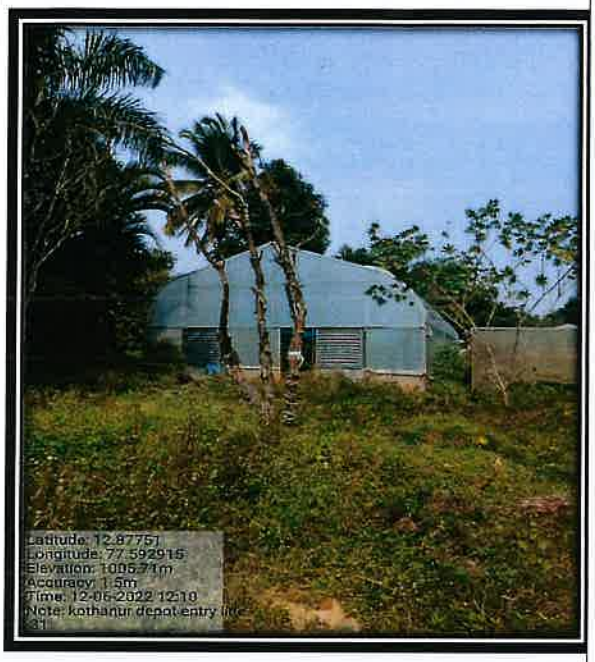
Divya S Hosur

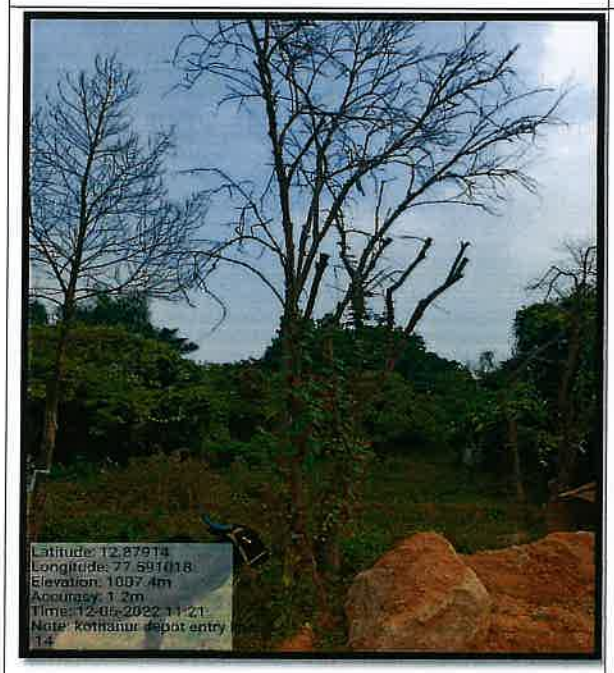
General Manager,
SEMU-BMRCL

Divya S Hosur
General Manager
Social & Environmental Management Unit (SEMU)
Bangalore Metro Rail Corporation Ltd.
3rd Floor, BMTC Complex, K.H. Road
Shanthinagar, Bengaluru - 560 027

Status of Translocated trees pertaining to OM dated 08.04.2021				
Sl.No	Tree No	Species	Location	Condition of the Tree
1	8	Jackfruit	Hulimavu Horticulture	yet to tranlocate
2	9	Jackfruit	Hulimavu Horticulture	yet to tranlocate
3	28	Dalchni	Hulimavu Horticulture	New Sproutes were not Observed
4	30	Nelli	Hulimavu Horticulture	New Sproutes were not Observed
5	31	Nelli	Hulimavu Horticulture	New Sproutes were not Observed
6	S1	Sandal	Hulimavu Horticulture	Intimated to Office by DCF urban
7	S2	Sandal	Hulimavu Horticulture	New Sproutes were not Observed
8	S3	Sandal	Hulimavu Horticulture	New Sproutes were not Observed
9	35	Kunkum	Hulimavu Horticulture	Healthy
10	12	Ficus Sp.	Hulimavu Horticulture	Dried at site and fallen due to heavy rain
11	13	Ficus Sp.	Hulimavu Horticulture	Healthy
12	14	Nelli	Hulimavu Horticulture	New Sproutes were not Observed
13	17	Jackfruit	Hulimavu Horticulture	New Sproutes were not Observed
14	32	Jackfruit	Hulimavu Horticulture	New Sproutes were not Observed
15	33	Jackfruit	Hulimavu Horticulture	Dried at site and fallen due to heavy rain
16	15	Nelli	Hulimavu Horticulture	New Sproutes were not Observed
17	11	Spethodia	Hulimavu Horticulture	New Sproutes were not Observed
18	21	Butter fruit	Hulimavu Horticulture	New Sproutes were not Observed

KOTHNUR DEPOT ENTRY LINE TRANSLOCATION SITE





Location of the plantation: Nadaprabhu Kempegowda Layout

(Block-7-B-Sector, Block-5-H-Sector, Block-5-I-Sector)

OM dated: 08.04.2021, Court Permission: 15.07.2021

Sl.No	Name of the saplings	Number of saplings planted	Remarks
1	Aala	13	Healthy, 8-10 ft
2	Arali	6	Healthy, 8-10 ft
3	Atti	8	Healthy, 8-10 ft
4	Basari	30	Healthy, 8-10 ft
5	Basavanapada	5	Healthy, 8-12 ft
6	Billi Borgea	6	Healthy, 8-12 ft
7	Champaka	5	Healthy, 8-10 ft
8	Hoarasi	14	Healthy, 8-10 ft
9	Hole dasavala	7	Healthy, 8-10 ft
10	Honge	12	Healthy, 8-10 ft
11	Jack Fruit	40	Healthy, 8-10 ft
12	Kadamba	2	Healthy, 8-10 ft
13	Kadu Badami	8	Healthy, 8-10 ft
14	Mahagani	12	Healthy, 8-12 ft
15	Nagalinga Pushpa	4	Healthy, 8-10 ft
16	Neem	28	Healthy, 8-10 ft
17	Nerale	39	Healthy, 8-10 ft
18	Tabubia Avalanda	5	Healthy, 8-10 ft
19	Tabubia Rosea	32	Healthy, 8-10 ft
20	Tamarind	2	Healthy, 8-9 ft
21	Tecoma	4	Healthy, 8-10 ft
22	Thespesia	3	Healthy, 8-10 ft
21	Thormatti	65	Healthy, 8-10 ft
	Total	**350**	

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.,
Shanthinagar, Bengaluru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Unnamed Road
Kommaghatta - Krishnasagara
Bangalore Urban
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15 Oct 2022 11:56:33 am


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Quarterly Report Oct to Dec 2022 **5th Quarter**

Quarterly report on implementation of Official Memorandum dated 18.05.2021 (Langford Metro Station) by Bengaluru Metro Rail Corporation Limited

Name of the project	: Langford Metro Station of Bangalore Metro Rail Project Construction
Location of the project	: Langford, Bengaluru
OM issued date by the Tree Officer, BBMP	: **18.05.2021**
Court Permission Date	: **29.06.2021/15.07.2021**

Details of the OM dtd. 18.05.2021:

Total number of trees removed	: 123 No. Trees
Total Number of Trees Recommended for the Retention on site	: Nil
Total Number of Trees Recommended for the Translocation on site	: 36 No. Trees
Number of Trees Recommended for the Felling on site	: 87 No. Trees

Details of Translocation:

Agency entrusted for the tree translocation	: Indus Herbs
Location of Receptor site	: Corps of Military Police & School Bengaluru 39 no.**Trees**
Total number of trees to be translocated as per OM	: **39 No. Trees**
Translocation completed Month and Year	: **Oct 2021**
Total number of tree translocation completed	: **38 No. Trees**
Total number of tree translocation balance	: **1 No. Tree**
Total number of trees observed with survival Symptoms	: **02 No. Trees**
Total number of trees not encounter with any type of survival symptoms	: **36 No. Trees**
Procedure of agency selection	: Competitive bidding as per the KTTP ACT 1999
Methodology adopted for the tree translocation	: Root Ball Method as per the UAS, GKVK, guidelines 2020

Supervision of translocation by BMRCL	:Environmental officer (SEMU), AM/AE-SENU Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU
Officers in-charge for tree translocation By BMRCL	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU)
Supervision by Forest Dept.	: Tree Officer or Officer Deputed by Tree Officer, Bengaluru Urban DCF.

Details of compensatory Plantation:

Agency entrusted for the raising and maintenance of the plantation by BMRCL	: 1. Indus Herbs 2. EcoGene Concepts LLP 3. Subramanya Constructions
Location of Compensatory plantation and number of saplings.	: NPKL (Block-2, 1 and MAR) - **1795 No. Saplings** Old Military dairy farm Hebbal, Bengaluru – **520 Saplings** Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – **1335 No. Saplings.**
Procedure of agency selection	: Through open quotations method as per the KPTT Act 1999 of emergency section
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 3650 No. Tree saplings
Number of Tree saplings planted	: 1230 No. Tree saplings
Year and Month of plantation Completed	: Feb 2022
Present servility rate of the plantation	: 1230 No. tree saplings (100%)
Supervision of Compensatory plantation by BMRCL	:Environmental officer (SEMU), AM/AE- SENU Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU
Officers in-charge for tree Compensatory plantation By BMRCL	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU)
Supervision by Forest Dept.	: Tree Officer or Officer Deputed by Tree Officer, Bengaluru Urban DCF.

A. TREE TRANSLOCATION

A1. Competent Agency Selected for Translocation:

Bangalore Metro Rail Corporation Limited Engaged Indus Herbs for tree Translocation and maintenance for a period of 3 years. BMRCL has entered an agreement with Indus Herbs.

A2. Methodology

BMRCL has adopted the UAS, GKVK, Bengaluru guidelines for the tree translocation. The details copy of guidelines are given in Annexure I.

A3. Survival Rate of transplanted trees as per the official memorandum:

The transplanted tree needs to be observed frequently for its survival, growth, pests, diseases and other physiological symptoms/expressions. It is possible to witness temporary wilting of leaves for few days, leaf fall also can happen and the tree may even decide to go in for 'Transitory Dormancy' phase, to avoid moisture loss and desiccation. But can show revival symptoms within six months like, new sprouts, turgid leaves, arrest of leaf fall, etc., It is also possible that sometimes, there will be a 'Distress' reaction in the form of premature flowering and fruiting. Also, some trees will exhibit new sprouts within few weeks which may be due to the presence of adequate stored food reserves. Under such circumstances, the new sprouts will not survive for a long and may wither soon. If the tree has not acclimatized, then there will not be any revival symptoms. It should be kept in mind that the transplanted tree has to withstand the tests of at least one years (covering all the three seasons) to declare it as 'surviving or successful'. Hence, any premature conclusions and certifications are being restrained.

From July 2021 BMRCL has translocated 38 trees which are given way for the metro construction. Morphological characteristics showing the survival symptoms likes leaf buds, leaf initiation, new shoots, tree branchlets, flowers and new leaves were observed in the 02 translocated trees which evident trees are responding to the translocation shock and trying to adopt for the new location and surrounding microclimate. Remaining 36 translocated trees have not encountered with any survival symptoms.

A4. Maintenance of Transplanted trees:

A4.1 Time period: The plantation has maintained for a period of three years form the date of completion of transplantation.

A4.2 Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from Nov 2022 to Dec 2022 at receptor sites.

Soil works: Hoeing and other soil works has been started in Dec 2022, still work is in progress.

Saucer Bharav: Preparation of Saucer Bharav for the tree saplings has been started from Dec 2022, still is in progress.

Watering: Due to heavy rains in the Bengaluru no watering activity has carried out in quarter Oct to Dec 2022 in the receptor site.

B. COMPENSATORY PLANTATION:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy tree saplings. Hence BMRCL had raised the plantation of 1230 no. tree saplings at NPKL (Block-2, 1 and MAR) - 1795 No. and Old Military dairy farm Hebbal, Bengaluru – 520 Saplings, Hi-Tec Defance and Aero space park Phase-1, (KIADB), Huvinayakanahalli, Bengaluru – 1335 No. Saplings.

BMRCL has to rise the compensatory plantation of 57,320 No. tree saplings as per the 18 official memorandums issued by the tree officer BBMP from March 2021 to November 2022.

B1. Maintenance of the plantation

Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

Causality replacement: From Oct to Dec 2022, 0% causality was observed in the 1230 saplings afforestation pertaining to the OM dtd. 08.09.2021. But still any plant attains causality BMRCL is replanting such seedlings.

B3. Plantation activities under taken in the present quarter:

Weeding:

Removal of the weeds has been carried out from Nov 2022 to Dec 2022 for the plantations at NPKL (Block-2, 1 and MAR) - 1795 No. and Old Military dairy farm Hebbal, Bengaluru –

520 Saplings, Hi-Tec Defance and Aero space park Phase-1, (KIADB), Huvinayakanahalli, Bengaluru – 1335 No. Saplings.

Soil works: Hoeing and other soil works has been started Nov 2022, still work is in progress.

Saucer Bharav: Preparation of Saucer Bharav for the tree saplings has been started from Dec 2022, still is in progress.

Watering: Due to heavy rains in the Bengaluru no watering activity has carried out in quarter Oct to Dec 2022 in the plantations.

Application of Fertiliser to plants:

50g of DAP and approximately 2 kg of FYM has been given to each tree sapling at the root zone from Nov 2022, still is in progress.

Survival rate:

In the quarter Oct to Nov 2022, 100 % survival rate has been observed, the tree Sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation at NPKL (Block-2, 1 and MAR) - 1795 No. and Old Military dairy farm Hebbal, Bengaluru – 520 Saplings, Hi-Tec Defance and Aero space park Phase-1, (KIADB), Huvinayakanahalli, Bengaluru – 1335 No. Saplings.

Numbering and Geo tagging:

Coding and Geo tagging of Each tree sapling in the Nadaprabhu Kempegowda Layout (Block-2, Block 1 MAR) – 1795 No. Tree, Old military dairy farm Hebbal, Bengaluru – 520 No. Trees and Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 1335 No. Trees saplings plantation has been completed on Sept 2022.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. Maintenance of 39 transplanted trees is in progress. 2. Maintenance of 3650 trees saplings is in progress.	1. Both transplanted and compensatory afforestation sites activities like weeding, soil works and nutrient supplements were taken up.

C. Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till Dec 2022	Balance	Remarks
1.	Tree translocation	39	38	01	Work is in progress
2.	Compensatory plantation	3150	3650	Nil	Work is completed

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter Oct, Nov & Dec 2022 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

Divya S Hosur

General Manager,
SEMU-BMRCL

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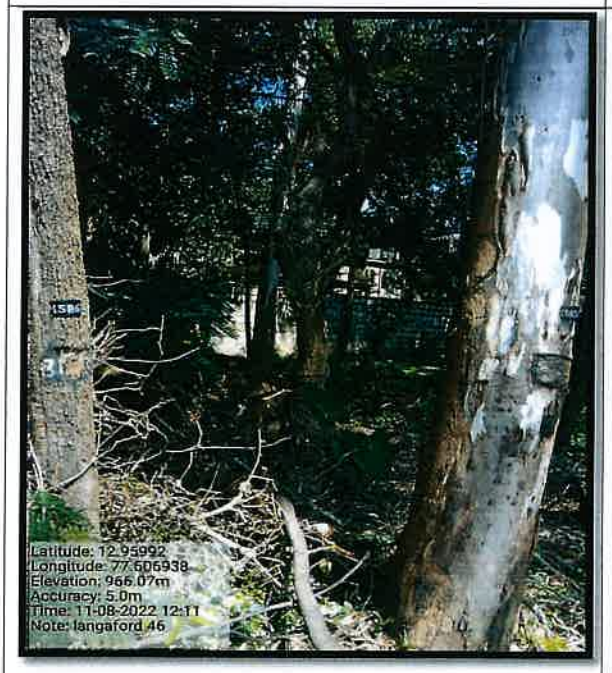
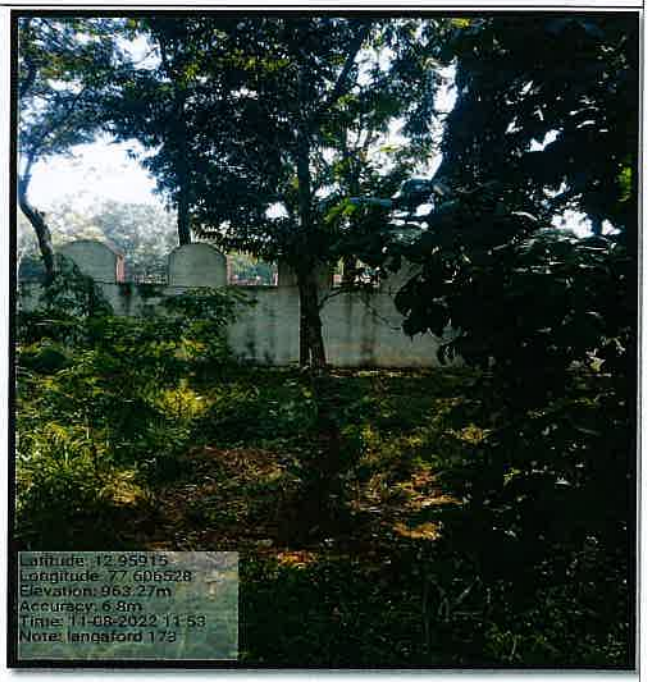
3rd Floor, BMTC Complex, K.H. Road
Shanthinagar, Bengaluru - 560 027

Status of Translocated trees pertaining to OM dated 18.05.2021				
Sl.No	**Tree No**	**Species**	**Location**	**Condition of the Tree**
1	14	Ornamental	Langford Station	New Sproutes were not Observed
2	15	Mango	Langford Station	New Sproutes were not Observed
3	20	Mango	Langford Station	New Sproutes were not Observed
4	23	Elachi	Langford Station	New Sproutes were not Observed
5	30	Honge	Langford Station	New Sproutes were not Observed
6	39	Tecoma	Langford Station	New Sproutes were not Observed
7	43	Mahogani	Langford Station	New Sproutes were not Observed
8	46	Tecoma	Langford Station	Healthy
9	48	Tecoma	Langford Station	New Sproutes were not Observed
10	49	Halasu	Langford Station	New Sproutes were not Observed
11	50	Neem	Langford Station	New Sproutes were not Observed
12	53	Ashoka	Langford Station	New Sproutes were not Observed
13	59	Tecoma	Langford Station	New Sproutes were not Observed
14	63	Amla	Langford Station	New Sproutes were not Observed
15	77	Honge	Langford Station	New Sproutes were not Observed
16	84	Ashoka	Langford Station	New Sproutes were not Observed
17	104	Ashoka	Langford Station	New Sproutes were not Observed
18	107	Ashoka	Langford Station	New Sproutes were not Observed
19	112	Jacaranda	Langford Station	New Sproutes were not Observed
20	113	Ashoka	Langford Station	New Sproutes were not Observed
21	115	Ashoka	Langford Station	New Sproutes were not Observed
22	120	Ashoka	Langford Station	New Sproutes were not Observed
23	122	Ashoka	Langford Station	New Sproutes were not Observed
24	128	Ashoka	Langford Station	New Sproutes were not Observed
25	147	Dalichand	Langford Station	New Sproutes were not Observed
26	153	Tabubia Rosia	Langford Station	New Sproutes were not Observed
27	159	Hoovarsi	Langford Station	New Sproutes were not Observed
28	160	Eachalu	Langford Station	New Sproutes were not Observed
29	168	Thadubi	Langford Station	New Sproutes were not Observed
30	173	Basavanapada	Langford Station	Healthy (Growing from Bottom)
31	180	Hoovarsi	Langford Station	New Sproutes were not Observed
32	232	Sandal Wood	Langford Station	Reported to Office by DCF Urban
33	255	Mango	Langford Station	New Sproutes were not Observed
34	258	Ashoka	Langford Station	New Sproutes were not Observed
35	270	Hippe	Langford Station	New Sproutes were not Observed
36	297	Eachalu	Langford Station	New Sproutes were not Observed
37	298	Honge	Langford Station	New Sproutes were not Observed
38	307	Sissoo	Langford Station	New Sproutes were not Observed
39	316	Sissoo	Langford Station	New Sproutes were not Observed

LANGFORD METRO STATION TRANSLOCATION SITE



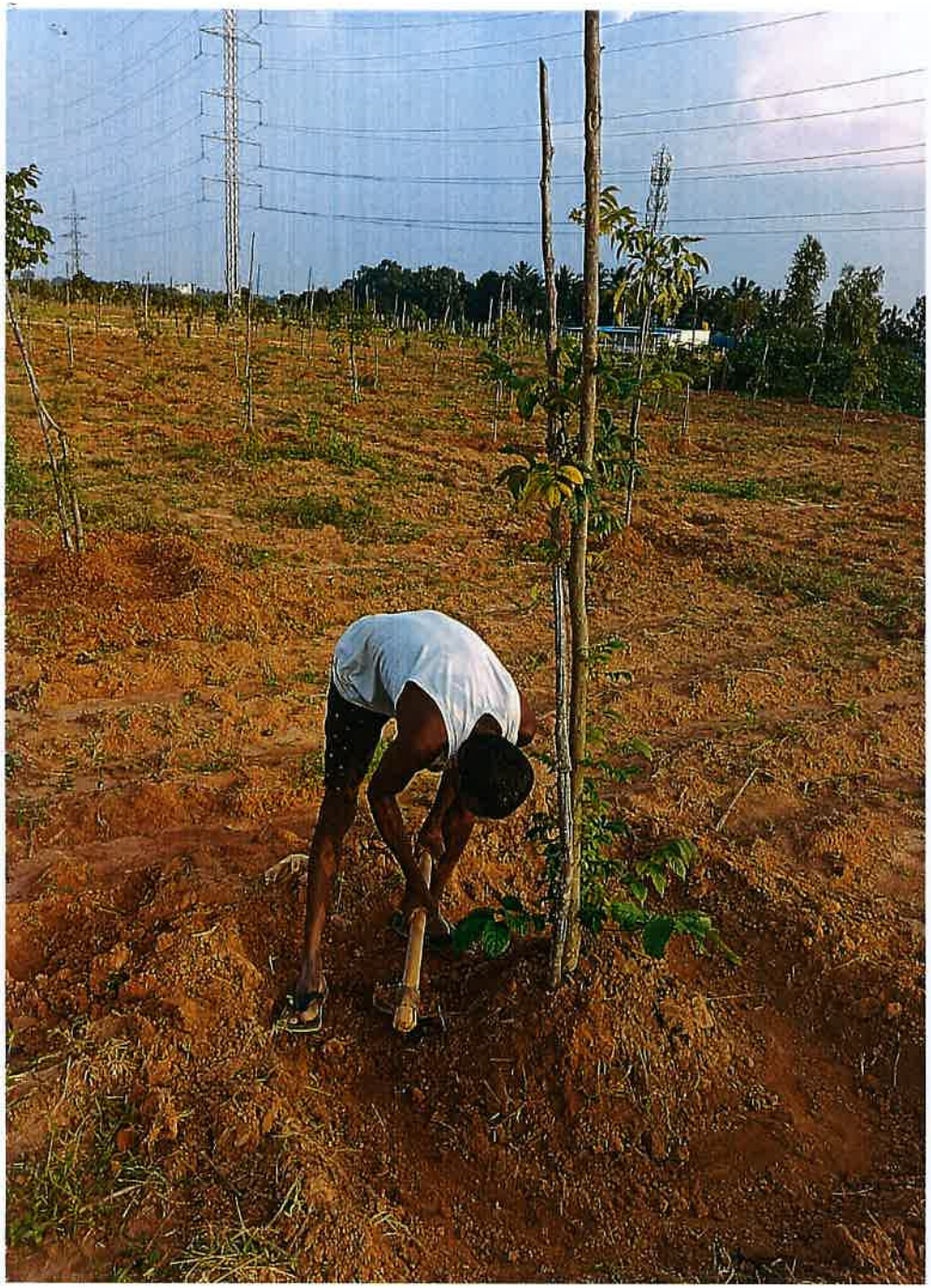


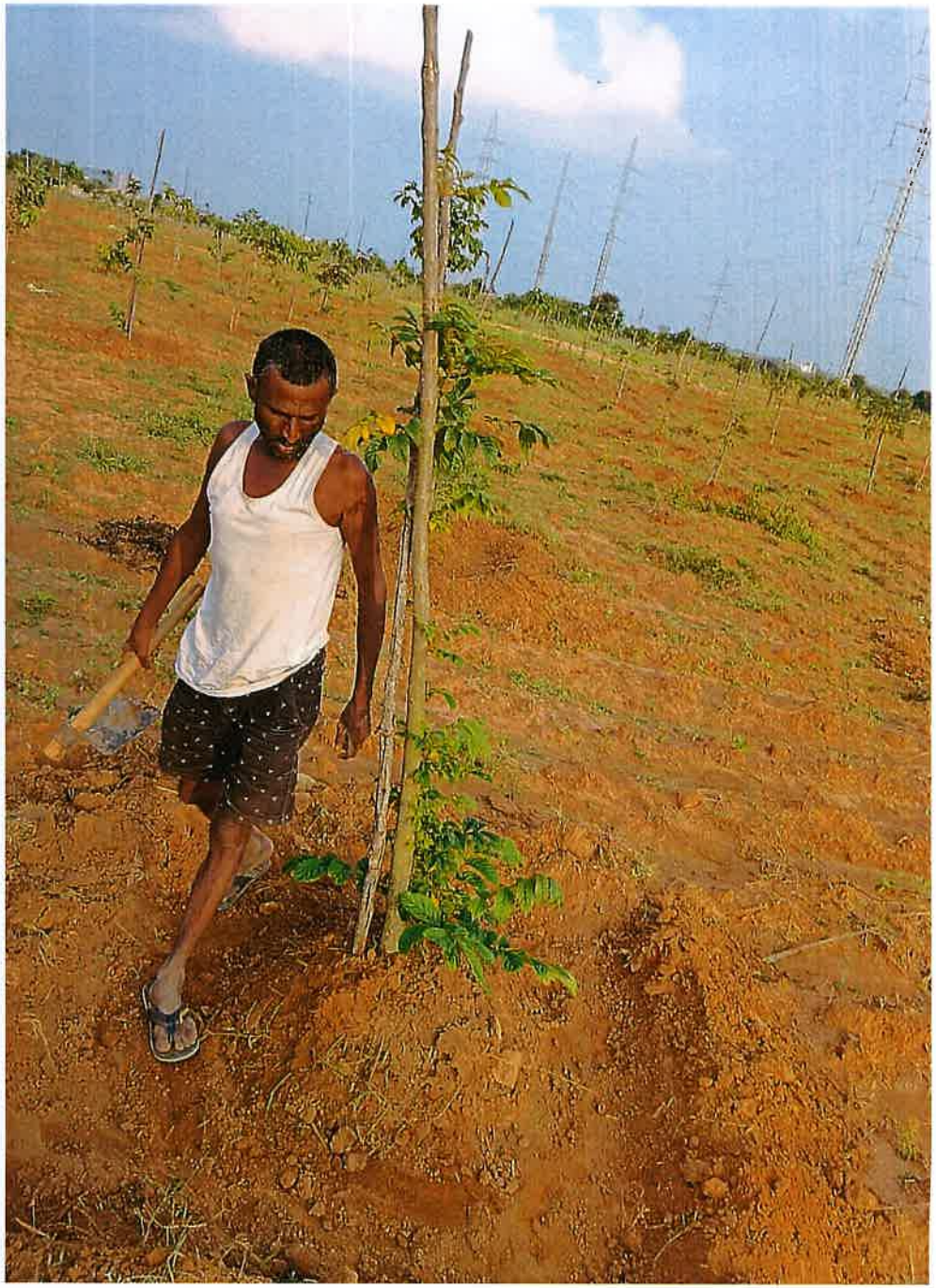
Location: Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru

OM dated: 18.05.2021, Court Permission: 15.07.2021

Sl.no.	Species	Number of Individuals	Remarks
1	Aala	19	Healthy Healt
2	Antawala	27	1 Healt
3	Athi	16	1/2 Healt
4	Basarisavanpada	81	1-2 H
5	Basari	73	1 H
6	Champaka	27	1-1/2 H
7	Goni	83	1 H
8	Hole dasavala	93	1-2 1/2 H
9	Honge	3	1/2 H
10	Hole matti	56	H
11	Hoarasi	146	1 1/2 H
12	Kadu badami	85	1-2 Healt
13	Jacaranda	20	1-3 H
14	Kadamba	91	1-2 H
15	Mango	58	1/2 H
16	Mahagony	117	1-2 H
17	Nagalinga	57	1-2 H
18	Neem	32	1/2 H
19	Nerale	62	1-2 H
20	Spathodea	27	1-2 H
21	Shivana	4	1/2-1 H
22	Tamarind	102	1/2 H
23	Tabubia rosea	56	1-3 H
	Total	**1335**	

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.,
Shanthinagar, Bengaluru





Location of the plantation: Nadaprabhu Kempegowda Layout

(Block-2, Block 1 MAR)

OM dated: 18.05.2021, Court Permission: 15.07.2021

SI No	Name of the Saplings	Number of saplings planted	Remarks by AEO
1	Arali	39	Healthy, 8-10ft,
2	Aala	70	—"—
3	Akashamallige	28	Healthy, 8-12ft
4	Basari	64	Healthy, 8-10ft
5	Basavanapada	89	Healthy 8-10ft
6	Bugari	99	—"—
7	Halasu	21	—"—
8	Holematti	8	—"—
9	Holedasavala	41	Healthy, 8-9ft
10	Honge	129	—"—
11	Hunse	80	—"—
12	Jacaranda	73	—"—
13	Kadamba	92	Healthy 8-10ft
14	Kaduvadami	83	—"—
15	Kakke	68	Healthy, 8-9ft
16	Mahagony	211	Healthy, 8-12ft
17	Muha	32	Healthy, 8-10ft
18	Nagalinga	48	Healthy, 8-10ft
19	Nerale	80	Healthy, 8-10ft
20	Neem	7	—"—
21	Ranjal	31	Healthy, 8-12ft
22	Rudraksha	5	Healthy, 8-10ft
23	Simaruba	24	—"—
24	Spathodea	164	Healthy, 8-10ft
25	Tabubia rosiea	101	Healthy, 8-12ft
26	Thare	8	Healthy, 8-9ft
27	Torimati	100	Healthy, 8-10ft
	Total	**1795**	

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.,
Shanthinagar, Bengaluru

Location: Old military dairy farm Hebbal

Om dated: 18.05.2021, Court permission: 15.07.2021

Sl. No.	Species Name	Number of individuals	Remarks
1.	Buruga	70	Healthy, 8-10 ft
2.	Spethodia	55	Healthy, 8-12 ft
3.	Mahagani	100	Healthy, 8-12 ft
4.	Aala	35	Healthy, 8-10 ft
5.	Arali	35	Healthy, 8-10 ft
6.	Huvarasi	100	Healthy, 8-10 ft
7.	Nagalinga	55	Healthy, 8-10 ft
8.	Honga	70	Healthy, 8-10 ft
	Total	**520**	

BMRCL
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Quarterly report on implementation of Official Memorandum dated 07.05.2021 (Kothnuru Depot) by Bengaluru Metro Rail Corporation Limited

Name of the project	: Kothnuru Depot of Bangalore Metro Rail Project
Location of the project	: Kothnuru, Bengaluru
OM issued date by the Tree Officer, Urban	: **07.05.2021**
Court Permission Date	: **22.04.2021**

Details of the OM dtd.: 07.05.2021

Total number of trees removed as per OM	: 604 No. trees
Total Number of Trees Recommended for the Retention on site	: Nil
Total Number of Trees Recommended for the Translocation on site	: Nil
Number of Trees Recommended for the Felling on site	: 604 No. trees

Details of Translocation:

-Nil-

Details of compensatory Plantation

Agency entrusted for the raising and maintenance of the plantation by BMRCL	: 1. Nursery Men Co-operative Society 2. Ramakrishna Contractor, Bengaluru. 3. United ways, Bengaluru 4. Garden villa 5. Indus Herbs
Location of Compensatory plantation	: 1. Nadaprabhu Kempegowda Layout (Block-5-L-Sector, Block-5-I-Sector, Block-6-B-Sector, Block 7 I sector, Block 7 A, C, E, D) 2. ASC North (Training area and Staff Quarters), Iblur. 3. Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru.

Procedure of agency selection	: Work done certificate and through open quotations method
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 6040 No. saplings
Number of Saplings planted	: 6040 No. saplings
Year and Month of plantation Completed	: 2021-2022 and Oct-Feb
Present servility rate of the plantation	: 6040 No. saplings (100%)
Supervision of Compensatory plantation	: Environmental officer (SEMU), Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU, Asst. Engineer (Civil) 2A Package 1, BMRCL and Asst. Engineer (Civil), AFCONS PVT. LTD.
Officers in-charge for Compensatory plantation	: ED-Civil, GM (SEMU), Chief Engineer (2A Package 1-ORR), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU), AE (Civil) 2A Package 1 and Asst. Engineer (Civil), AFCONS.
Supervision by Forest Dept	: Urban Tree Officer or Officer Deputed by Tree Officer Urban.

A. COMPENSATORY PLANTATION:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy saplings. Hence BMRCL had raised the plantation of 6040 no. saplings at Nadaprabhu Kempegowda Layout (Block-5-L-Sector, Block-5-I-Sector, Block-6-B-Sector, Block 7 I sector, Block 7 A, C, E, D), ASC North (Training area and Staff Quarters), Iblur, Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru.

BMRCL has to rise the compensatory plantation of 57,320 No. saplings as per the 18 official memorandums issued by the tree officer BBMP from March 2021 to November 2022. BMRCL had completed the raising 25,730 saplings.

A1. Maintenance of the plantation

Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

Causality replacement: From Oct to Dec 2022, 0% causality was observed in the 6040 saplings afforestation pertaining to the OM dtd. 07.05.2021.

A2. Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from Oct 2022 to Dec 2022 for the plantations at Nadaprabhu Kempegowda Layout (Block-5-L-Sector, Block-5-I-Sector, Block-6-B-Sector, Block 7 I sector, Block 7 A, C, E, D), ASC North (Training area and Staff Quarters), Iblur, Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru.

Soil works: Hoeing and other soil works has been started from Nov 2022, still in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from Dec 2022, still is in progress.

Watering: Due to heavy rains in the Bengaluru no watering activity has carried out in quarter Oct to Nov 2022 in the plantations.

Application of Fertiliser to plants: 50g of DAP and approximately 2 kg of FYM has been given to each sapling at the root zone from Nov 2022, still is in progress.

Survival rate:

In the quarter Oct to Dec 2022 100 % survival rate has been observed, the sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation at Nadaprabhu Kempegowda Layout (Block-5-L-Sector, Block-5-I-Sector, Block-6-B-Sector, Block 7 I sector, Block 7 A, C, E, D), ASC North (Training area and Staff Quarters), Iblur, Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru.

Numbering and Geo tagging: Coding of Each sapling Nadaprabhu Kempegowda Layout (Block-5-L-Sector, Block-5-I-Sector, Block-6-B-Sector, Block 7 I sector, Block 7 A, C, E, D), ASC North (Training area and Staff Quarters), Iblur, Hi-Tec Defance and Aero space park

Phase-1 (KIADB), Huvinayakanahalli, Bengaluru has been started. Geo tagging of each sapling has been completed on Dec 2021.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. Maintenance of 6040 saplings at Nadaprabhu Kempegowda Layout (Block-5-L-Sector, Block-5-I-Sector, Block-6-B-Sector, Block 7 I sector, Block 7 A, C, E, D), ASC North (Training area and Staff Quarters), Iblur, Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru was in progress.	1. Compensatory afforestation sites activities like weeding, soil works and nutrient supplements were taken up.

Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till Dec 2022	Balance	Remarks
2.	Compensatory plantation	6040	6040	Nil	Work is completed

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter Oct, Nov & Dec 2022 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

Divya S Hosur

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SEMU-BMRCL

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Shanthinagar, Bengaluru - 560 027

Location: ASC North (Training area and Staff Quarters), Ibluru

OM dated: 07.05.2021, Court Permission: 22.04.2021

Sl. No.	Species	Number of Individuals	Remarks
1	Akasha Mallige	18	Healthy 1/2-1 ft.
2	Aala	64	do 1/2 ft.
3	Alstonia	17	do 1 ft.
4	Amla	1	do 1/2 ft.
5	Arali	115	do 1/2 ft.
6	Atti	85	do 1/2 ft.
7	Basari	84	do 1/2 ft.
8	Basarisavanpada	17	do 1-2 1/2 ft.
9	Burga	133	do 1/2 ft.
10	Conocarpus	45	do 1-2 1/2 ft.
11	Champaka	58	do 1/2-1 ft.
12	Goni	33	do 1/2 ft.
13	Guava	11	do 1/2 ft.
14	Hoarasi	123	do 1-1 1/2 ft.
15	Halasu	113	do 1/2-1 ft.
16	Hole dasavala	23	do 1-2 1/2
17	Honge	237	do 1/2 ft.
18	Hole Matti	45	do 1/2 ft.
19	Hunase	3	do 1/2 ft.
20	Hippe	1	do 1/2 ft.
21	Jacaranda	117	do 1-3 ft.
22	Kadu Badami	218	do 1/2 ft.
23	Mahagony	255	do 1 ft.
24	Nagalinga	159	do 1/2 ft.
25	Neem	87	do 1/2 ft.
26	Nerale	76	do 1-3 ft.
27	Ranjal	167	do 1-1 1/2
28	SImaruba	83	do 1-3 ft.
29	Spathodea	159	do 1-3 ft.
30	Thare	13	do 1/2
31	Tabubia Rosea	252	do 1-3 ft.
32	Tecoma	11	do 1/2 ft.
33	Torimatti	37	do 1/2 ft.
	Total	**2860**	

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.,
Shanthinagar, Bengaluru

Location of the plantation: Nadaprabhu Kempegowda Layout

(Block-5-L-Sector, Block-5-I-Sector, Block-6-B-Sector, Block 7 I sector, Block 7 A, C, E, D)

OM dated: 07.05.2021, Court Permission: 22.04.2021

Sl.No	Name of the saplings	Number of saplings planted	Remarks
1	Aala	8	Healthy H - 8 - 12 ft,
2	Akash Mallige	60	— " — — " —
3	Alamara	20	— " — — " —
4	Arali	62	— " — — " —
5	Atti	158	— " — — " —
6	Basari Mara	192	— " — — " —
7	Basavana pada	59	— " — — " —
8	Bili Booraga	23	— " — — " —
9	Bettada Nellikayi	34	— " — — " —
10	Champaka Mara	133	— " — — " —
11	Goni	23	— " — — " —
12	Cherry	10	— " — — " —
13	Hole dasavala	83	— " — — " —
14	Honge	145	— " — — " —
15	Hoorasi	163	— " — — " —
16	Jacaranda	52	— " — — " —
17	Jack fruit	68	— " — — " —
18	Kadama	81	— " — — " —
19	Kadubadami	84	
20	Kiru Nalli	93	Healthy, 8 - 10 ft 5cm - 8cm
21	Mahagani	217	— " — — " —
22	Mango	25	Health 8 - 10 ft 5cm - 7cm
23	Nagalingpushpha	114	— " — — " —
24	Neem	188	Health 8 - 12 ft, 5cm - 8cm
25	Nerale	170	Health 8 - 10 ft 6cm - 8cm
26	Peltophorum	30	Health 8 - 11 ft 5cm - 7cm
27	Spathodia	50	Health 8 - 12 ft 5cm - 8cm
28	Tabebuia Rosea	264	Health 8 - 10 ft 5cm - 7cm
29	Tabubia Avalaneda	38	— " —
30	Tecoma	10	Health 8 - 10 ft 5cm - 8cm
31	Thespesia	3	— " —
32	Tamarind	67	— " —
33	Thare	20	— " —
34	Thormatti	183	Health 8 - 10 ft, 5cm - 7cm
	Total	2,930	

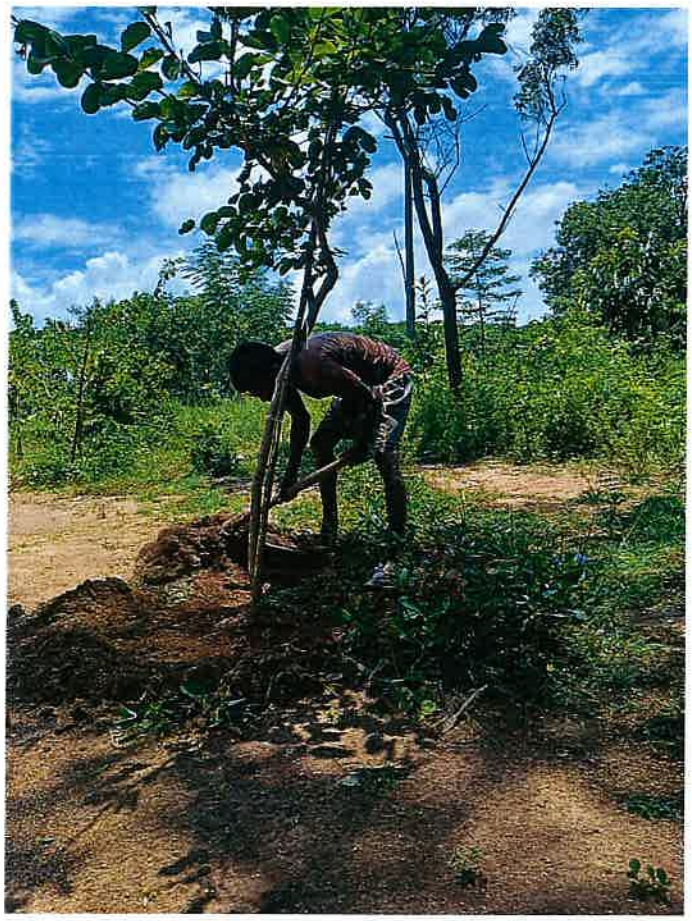
ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.,
Shanthinagar, Bengaluru

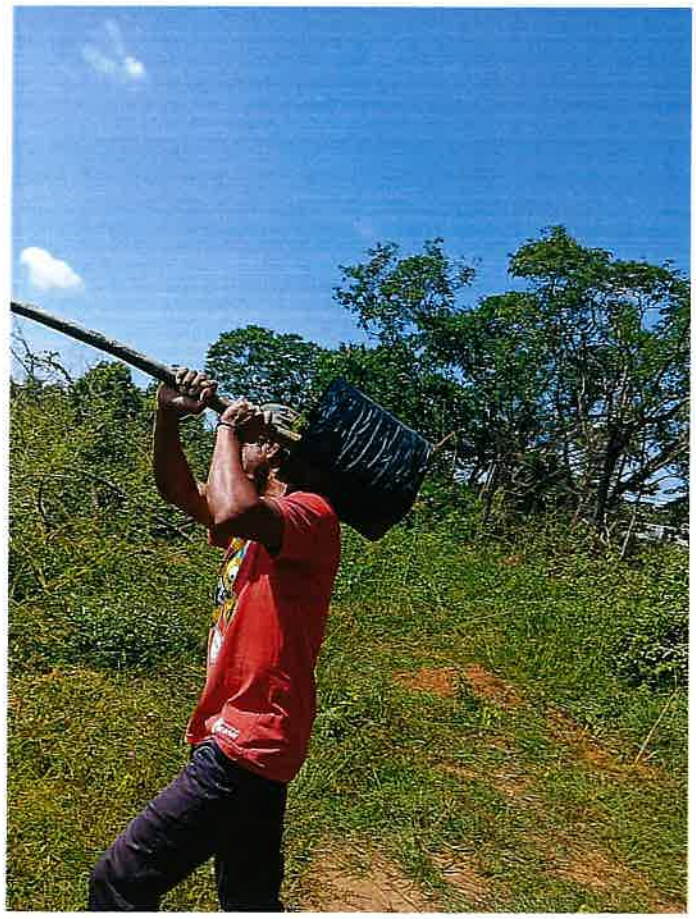
Location: Jayaprakash Narayan youth training centre (Sports Campus), Vidyanagar

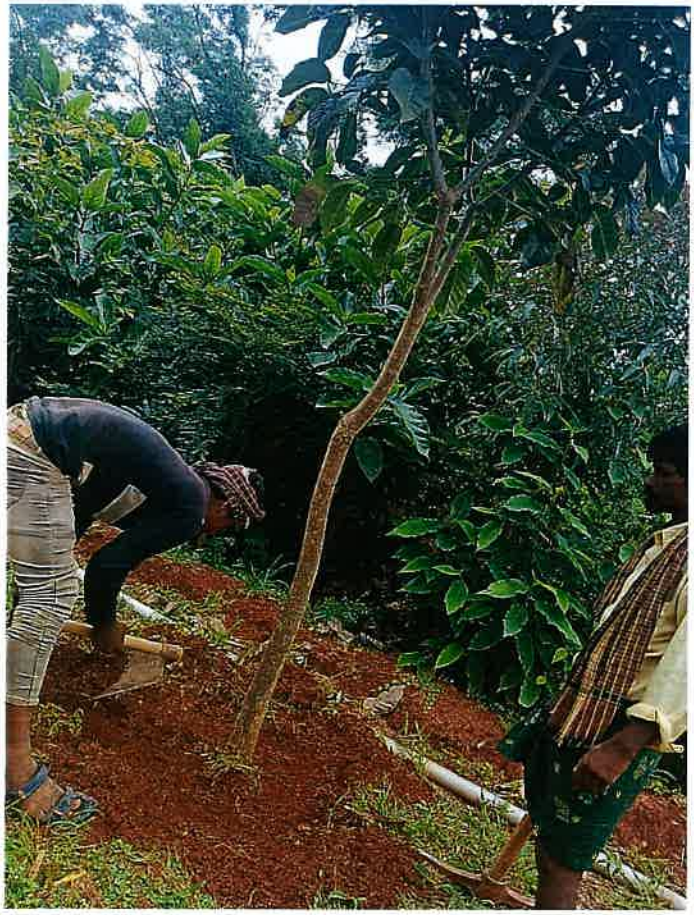
OM dated: 07.05.2021, Court Permission: 22.04.2021

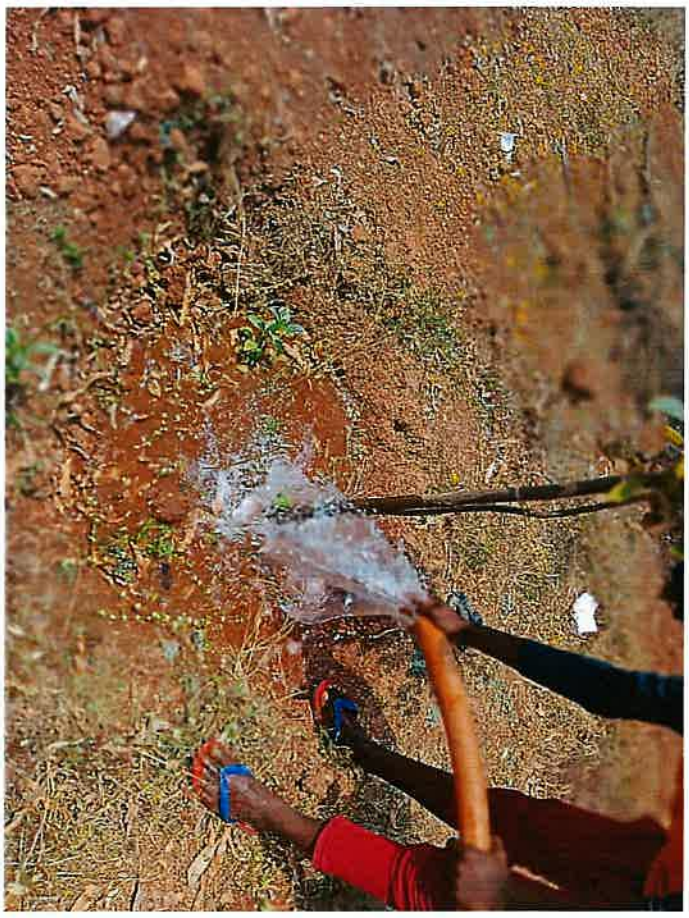
SI No	Name of the Saplings	Number of saplings planted	Remarks
1	Hoovarasi	25	Healthy 1-1½ ft
2	Ala	50	do ½
3	Arali	35	do 1-1½
4	Nerale	40	do 1-3 ft
5	Neem	15	do ½-1 ft
6	Honge	45	do ½ do
7	Basari	20	do ½ do
8	Tabubia Rosia	20	do 1-3 ft
	Total	**250**	

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.,
Shanthinagar, Bengaluru









WMF6+PXP, Iblur Village, Bellandur, Bengaluru, Karnataka 560103, India

Latitude
12.92511636°

Longitude
77.6613141°

Local 10:06:03 AM
GMT 04:36:03 AM

Altitude 797.72 meters
Wednesday, 02-11-2022

Note : KIADB-RK-TR-1392

Army Camp, Sarjapur - Marathahalli Rd, Iblur Village, Bellandur, Bengaluru, Karnataka 560103, India

Latitude
12.9251042°

Longitude
77.66103397°

Local 10:30:58 AM
GMT 05:00:58 AM

Altitude 803.62 meters
Wednesday, 02-11-2022

Note : KIADB-RK-TR-1392

Army Camp, Sarjapur - Marathahalli Rd, Iblur Village, Bellandur, Bengaluru, Karnataka 560103, India

Latitude
12.92501518°

Longitude
77.66033376°

Local 09:46:05 AM
GMT 04:16:05 AM

Altitude 795.47 meters
Friday, 28-10-2022

Note : KIADB-RK-TR-1392

Army Camp, Sarjapur - Marathahalli Rd, Iblur Village, Bellandur, Bengaluru, Karnataka 560103, India

Latitude
12.92506029°

Longitude
77.66032298°

Local 09:45:43 AM
GMT 04:15:43 AM

Altitude 798.37 meters
Friday, 28-10-2022

Note : KIADB-RK-TR-1392

WMF6+PXP, Iblur Village, Bellandur, Bengaluru, Karnataka 560103, India

Latitude
12.92455782°

Longitude
77.66126475°

Local 03:10:20 PM
GMT 09:40:20 AM

Altitude 803.45 meters
Wednesday, 26-10-2022

Note : KIADB-RK-TR-1392

WMF6+PXP, Iblur Village, Bellandur, Bengaluru, Karnataka 560103, India

Latitude
12.92456117°

Longitude
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GMT 09:39:32 AM

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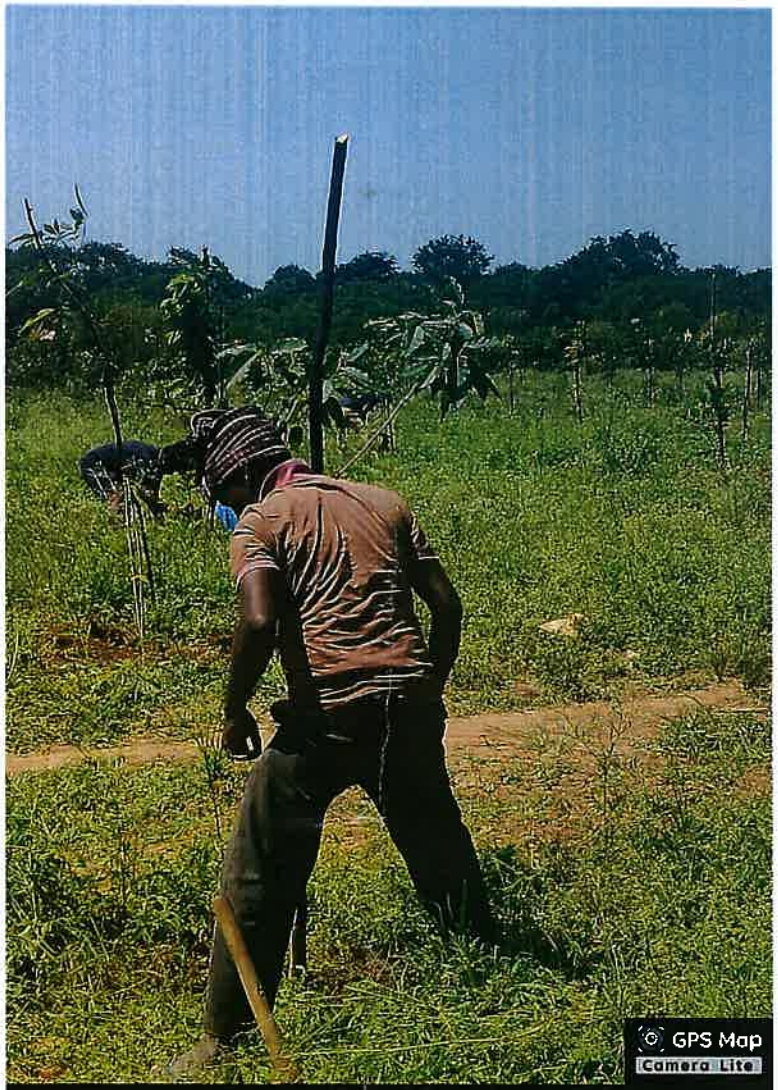
Wednesday, 26-10-2022

Note : KIADB-RK-TR-1392



WMF6+PXP, Iblur Village, Bellandur, Bengaluru, Karnataka 560103, India

Latitude
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Longitude
77.66209979°

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GMT 06:40:52 AM

Altitude 793.48 meters
Wednesday, 26-10-2022

Note : KIADB-RK-TR-1392

WMF6+PXP, Iblur Village, Bellandur, Bengaluru, Karnataka 560103, India

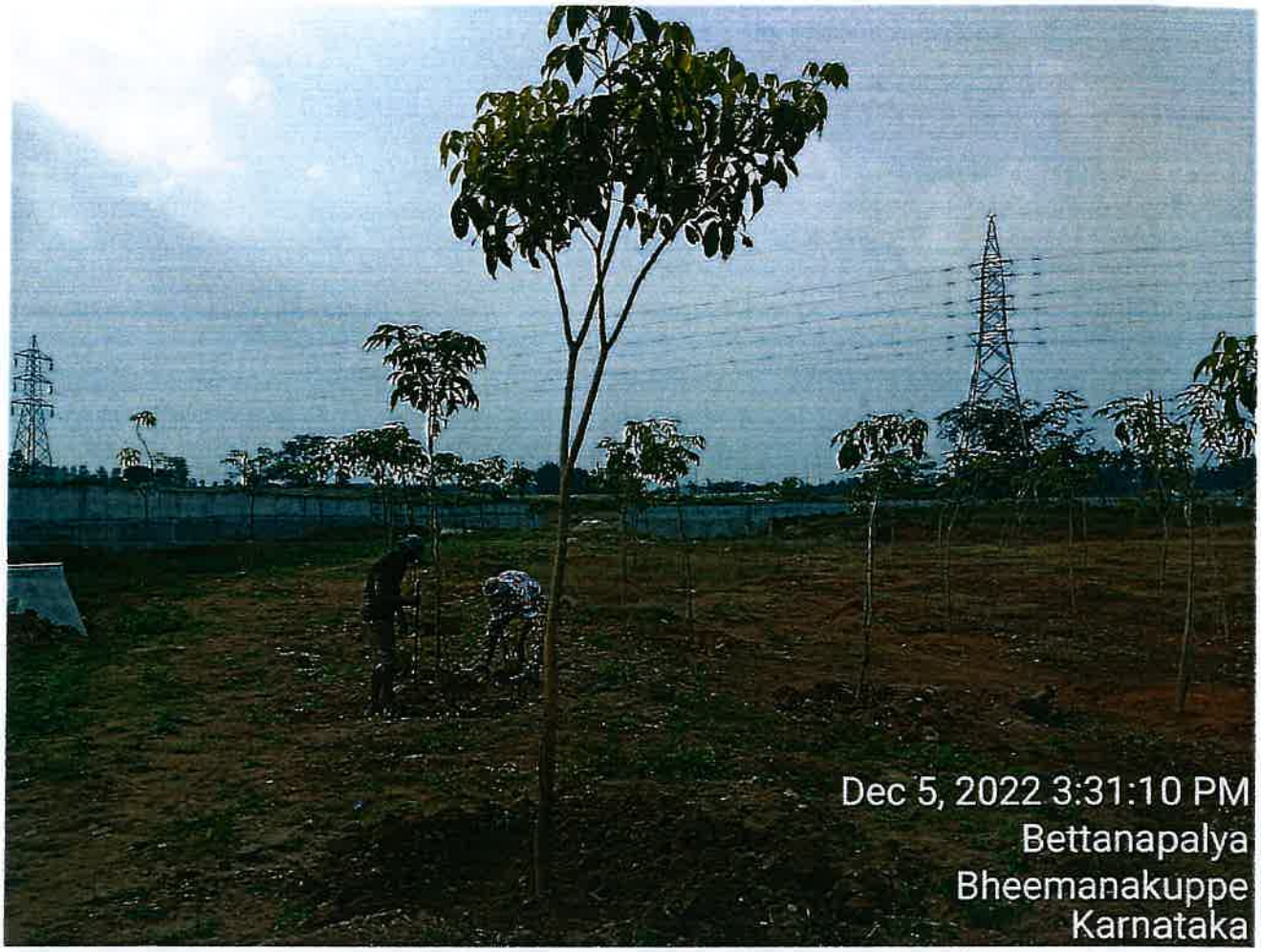
Latitude
12.92492787°

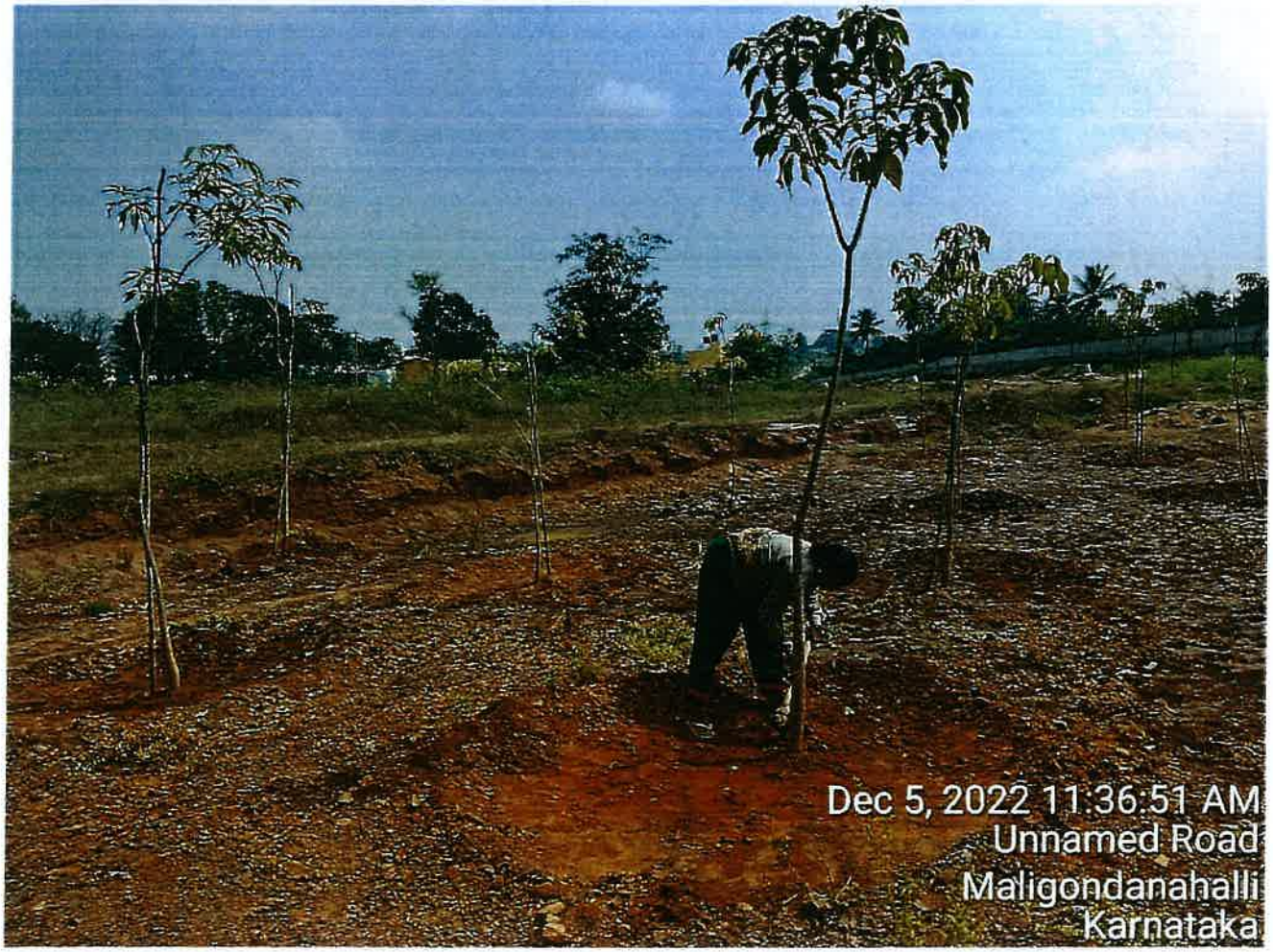
Longitude
77.66221554°

Local 09:45:58 AM
GMT 04:15:58 AM

Altitude 799.31 meters
Thursday, 27-10-2022

Note : KIADB-RK-TR-1392


Dec 5, 2022 3:31:10 PM
Bettanapalya
Bheemanakuppe
Karnataka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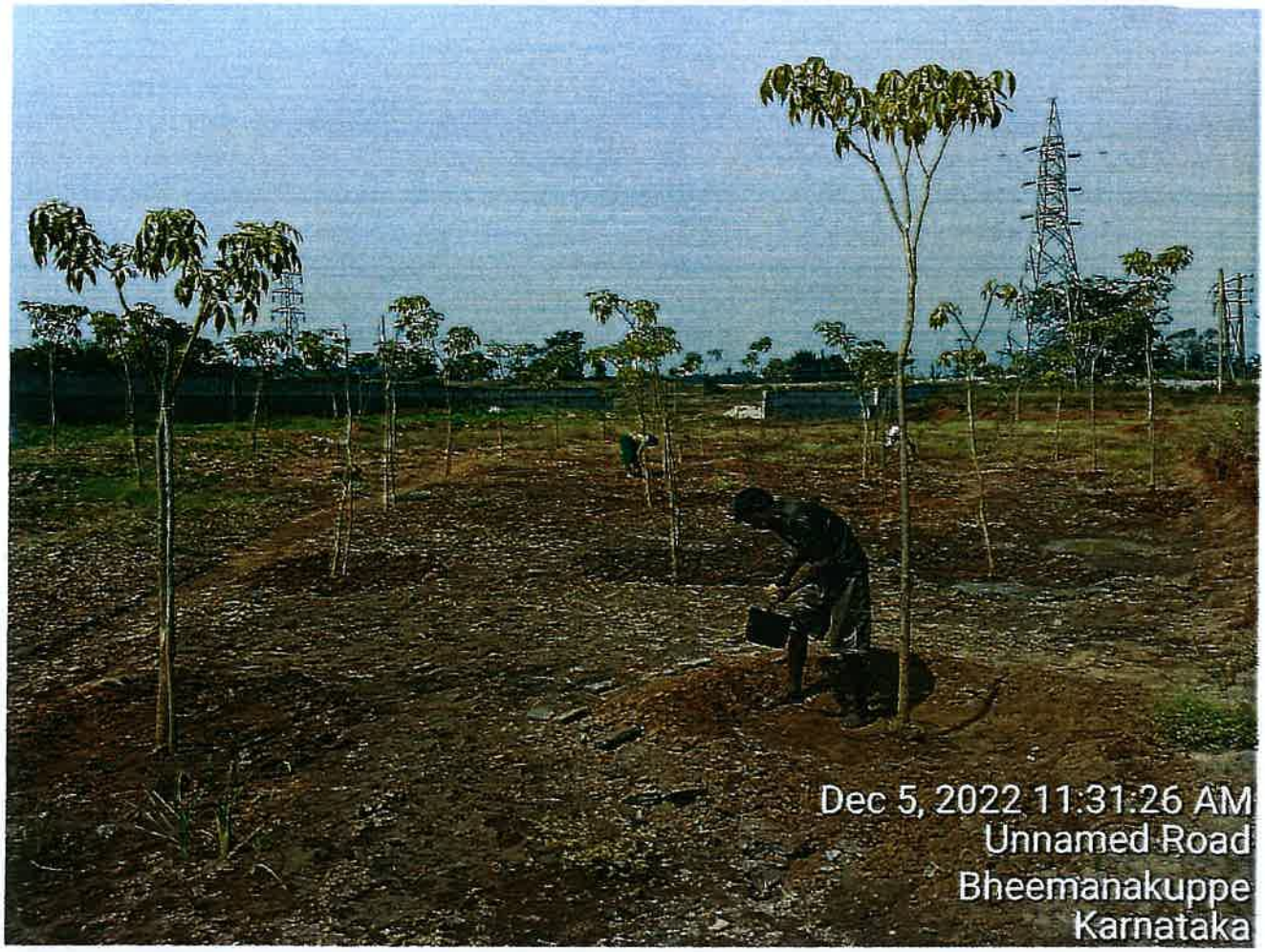
Unnamed Road
Maligondanahalli
Karnataka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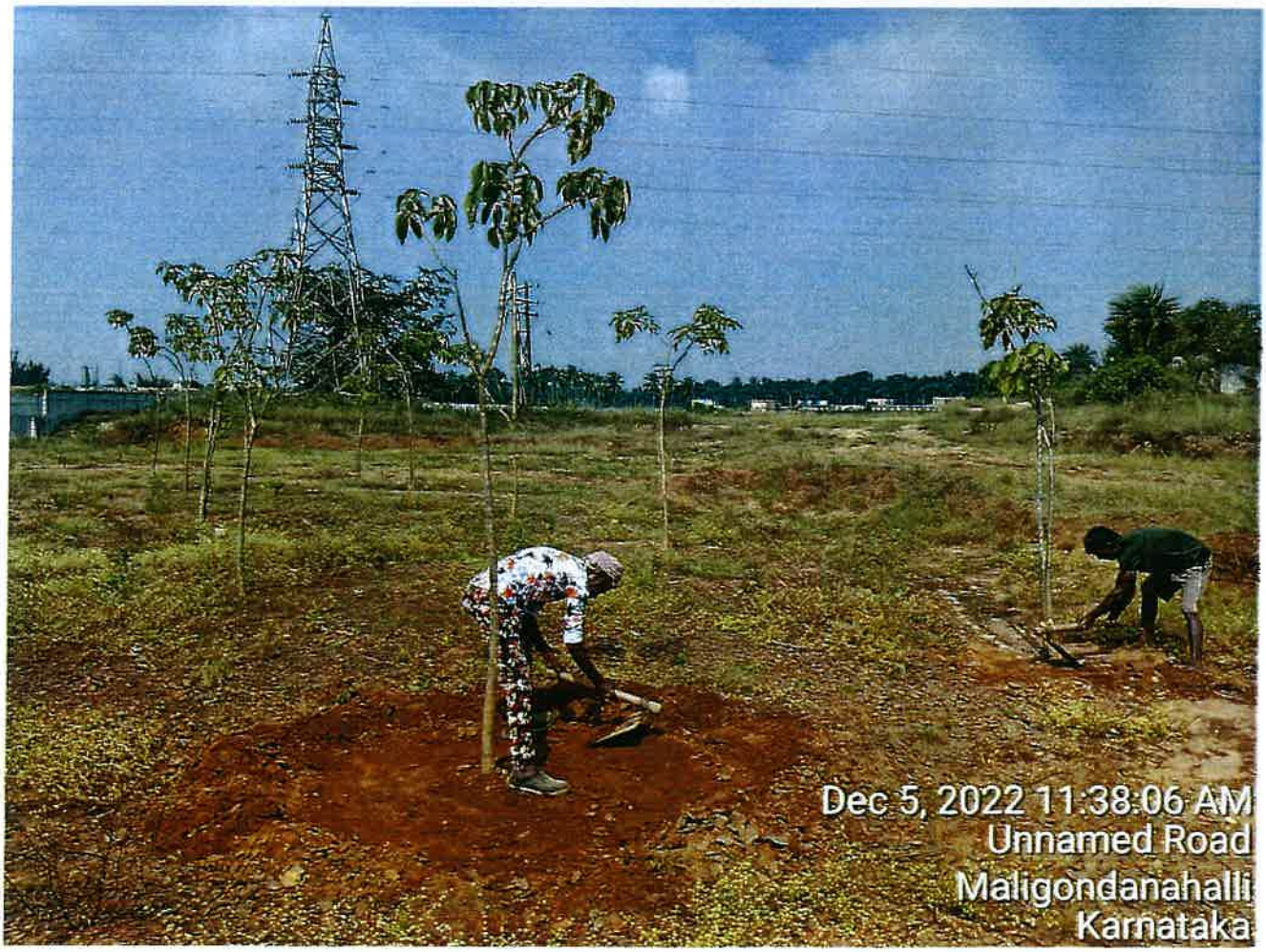
Bheemanakuppe
Karnataka


Dec 5, 2022 11:38:06 AM
Unnamed Road
Maligondanahalli
Karnataka


13 Dec 2022 15:12:55
Bengaluru
Karnataka


13 Dec 2022 15:12:45
Bengaluru
Karnataka

Quarterly report on implementation of Official Memorandum dated 26.08.2021 (Kothnuru Depot) by Bengaluru Metro Rail Corporation Limited

Name of the project	: Kothnuru Depot of Bangalore Metro Rail Project Construction
Location of the project	: Kothnuru, Bengaluru
OM issued date by the Tree Officer, Urban	: **26.08.2021**
Court Permission Date	: **20.09.2021**

Details of the OM dtd. 26.08.2021:

Total number of trees removed as per OM	: 96 No. Trees
Total Number of Trees Recommended for the Retention on site	: Nil
Total Number of Trees Recommended for the Translocation on site	: 27 No. Trees
Number of Trees Recommended for the Felling on site	: 69 No. Trees

Details of Translocation:

Agency entrusted for the tree translocation	: Indus Herbs
Location of Receptor site	:Biotechnolgy Centre ,Dept of Horticulture ,Hulimavu opposite to Meenakshi mall ,Bannerghatta road - **27 No. Trees**
Total number of trees to be translocated as per OM dtd.	: **27 No. Trees**
Translocation completed Month and Year	: **July 2022**
Total number of tree translocation completed	: **22 No. Trees**
Total number of tree translocation balance	: **5 No. Trees**
Total number of trees observed with survival Symptoms	: **Nil**
Total number of trees not encounter with any type of survival symptoms	: **23 No. Trees**
Procedure of agency selection	: Competitive bidding as per the KTTP ACT 1999

Methodology adopted for the tree translocation	: Root Ball Method as per the UAS, GKVK, guidelines 2020
Supervision of translocation	:Environmental officer (SEMU), Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU, Asst. Engineer (Civil) 2A Package 1, BMRCL and Asst. Engineer (Civil), AFCONS PVT. LTD.
Officers in-charge for tree translocation	: ED-Civil, GM (SEMU), Chief Engineer (2A Package 1-ORR), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU), AE (Civil) 2A Package 1 and Asst. Engineer (Civil), AFCONS.
Supervision by Forest Dept	: Urban Tree Officer or Officer Deputed by Tree Officer Urban.

Details of compensatory Plantation:

Agency entrusted for the raising and maintenance of the plantation by BMRCL	: 1. United Ways, Bengaluru. 2. Sevalal Siddeshwara
Location of Compensatory plantation and number of saplings.	: 1. Nadaprabhu Kempegowda Layout (Block 6 I E H Sector) – **710 No. Tree.** 2. Jayaprakash Narayan youth training centre (Sports Campus), Vidyanagar – **250 No. Trees**
Procedure of agency selection	: Through open quotations method as per the KPTT Act 1999 of emergency section
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 960 No. Saplings
Number of saplings planted	: 960 No. Saplings
Year and Month of plantation Completed	: 2021-2022 and Oct-Feb
Present servility rate of the plantation	: 960 No. saplings (100%)
Supervision of Compensatory plantation	: General Manager (SEMU), Environmental officer, AM/AE (SEMU) Asst. Environmental Officer, SEMU, Section Environmental Engineer, SEMU.
Officers in-charge for Compensatory plantation	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental

Engineer (SEMU) Section Environmental Engineer (SEMU).

Supervision by Forest Dept : Urban Tree Officer or Officer Deputed by Tree Officer Urban.

A. TREE TRANSLOCATION

A1. Competent Agency Selected for Translocation:

Bangalore Metro Rail Corporation Limited Engaged Indus Herbs for tree Translocation and maintenance for a period of 3 years. BMRCL has entered an agreement with Indus Herbs

A2. Survival Rate of transplanted trees as per the official memorandum:

The transplanted tree needs to be observed frequently for its survival, growth, pests, diseases and other physiological symptoms/expressions. It is possible to witness temporary wilting of leaves for few days, leaf fall also can happen and the tree may even decide to go in for 'Transitory Dormancy' phase, to avoid moisture loss and desiccation. But can show revival symptoms within six months like, new sprouts, turgid leaves, arrest of leaf fall, etc., It is also possible that sometimes, there will be a 'Distress' reaction in the form of premature flowering and fruiting. Also, some trees will exhibit new sprouts within few weeks which may be due to the presence of adequate stored food reserves. Under such circumstances, the new sprouts will not survive for a long and may wither soon. If the tree has not acclimatized, then there will not be any revival symptoms. It should be kept in mind that the transplanted tree has to withstand the tests of at least one years (covering all the three seasons) to declare it as 'surviving or successful'. Hence, any premature conclusions and certifications are being restrained.

From Sept 2021 BMRCL has translocated 22 trees which are given way for the metro construction. Morphological characteristics showing the survival symptoms likes leaf buds, leaf initiation, new shoots, tree branchlets, flowers and new leaves were not observed in the translocated trees which evident that trees are not responding to the translocation shock.

A4. Maintenance of Transplanted trees:

A4.1 Time period:

The plantation has maintained for a period of three years form the date of completion of transplantation.

A4.2 Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from Nov 2022 to Dec 2022 at receptor sites.

Soil works: Hoeing and other soil works has been started in Dec 2022, still work is in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from Nov 2022, still is in progress.

Watering: Due to heavy rains in the Bengaluru no watering activity has carried out in quarter Oct to Dec 2022 in the receptor site.

B. COMPENSATORY PLANTATION:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy saplings. Hence BMRCL had raised the plantation of 960 no. saplings at Nadaprabhu Kempegowda Layout (Block 6 I E H Sector) – 710 No. Trees, Jayaprakash Narayan youth training centre (Sports Campus), Vidyanagar – 250 No. Trees.

BMRCL has to rise the compensatory plantation of 57,320 No. saplings as per the 18 official memorandums issued by the tree officer BBMP from March 2021 to November 2022. BMRCL had completed the raising 25,730 saplings.

B1. Maintenance of the plantation

Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

Causality replacement: From Oct to Dec 2022, 0% causality was observed in the 7890 saplings afforestation pertaining to the OM dtd. 26.08.2021.

B2. Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from Nov 2022 to Dec 2022 for the plantations at Nadaprabhu Kempegowda Layout (Block 6 I E H Sector) – 710 No. Trees, Jayaprakash Narayan youth training centre (Sports Campus), Vidyanagar – 250 No. Trees.

Soil works: Hoeing and other soil works has been started Nov 2022, still work is in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from Dec 2022, still is in progress.

Watering: Due to heavy rains in the Bengaluru no watering activity has carried out in quarter Oct to Dec 2022 in the plantations.

Application of Fertiliser to plants: 50g of DAP and approximately 2 kg of FYM has been given to each sapling at the root zone from Nov 2022, still is in progress.

Survival rate: In the quarter Oct to Dec 2022, 100 % survival rate has been observed, the sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation at Nadaprabhu Kempegowda Layout (Block 6 I E H Sector) – 710 No. Trees, Jayaprakash Narayan youth training centre (Sports Campus), Vidyanagar – 250 No. Trees.

Numbering and Geo tagging: Coding of Each sapling in the Nadaprabhu Kempegowda Layout (Block 6 I E H Sector) – 710 No. Trees, Jayaprakash Narayan youth training centre (Sports Campus), Vidyanagar – 250 No. saplings plantation has been started. Geo tagging of each sapling has been completed on Sept 2022.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. 22 No. trees were translocated. 2. Planting of 960 saplings at Nadaprabhu Kempegowda Layout (Block 6 I E H Sector) – 710 No. Trees, Jayaprakash Narayan youth training centre (Sports Campus), Vidyanagar – 250 No. Trees has completed and maintenance work was started.	1. Maintenance of 22 transplanted trees is started. 2. Maintenance of 7890 saplings is in progress.

Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till Dec 2022	Balance	Remarks
1.	Tree translocation	27	22	5	Transplantation of 5 trees is in progress
2.	Compensatory plantation	960	960	Nil	Work is completed

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter Oct, Nov & Dec 2022 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

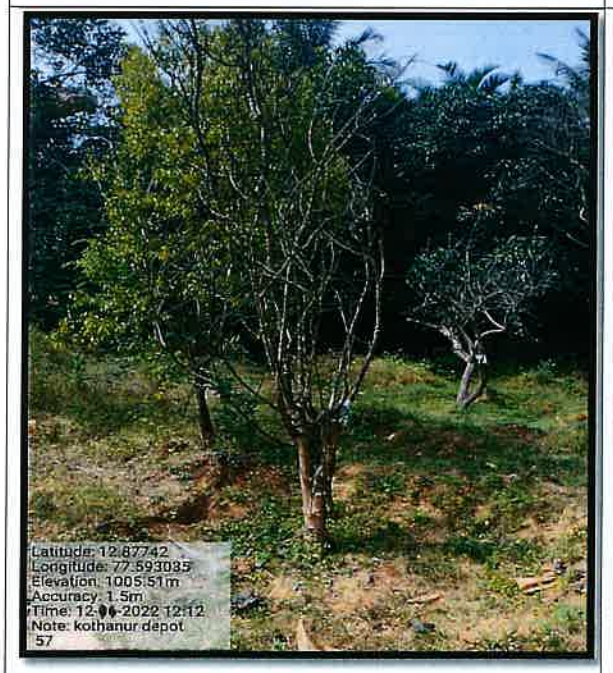
Divya S Hosur

General Manager,
SEMU-BMRCL

Divya S Hosur
General Manager
Social & Environmental Management Unit (SEMU)
Bangalore Metro Rail Corporation Ltd.
3rd Floor, BMTC Complex, K.H. Road
Shanthinagar, Bengaluru - 560 027

Status of Translocated trees pertaining to OM dated 26.08.2021				
Sl.No	Tree No	Species	Location	Condition of the Tree
1	249	Nerale	Hulimavu Horticulture	New Sproutes were not Observed
2	251	Honge	Hulimavu Horticulture	New Sproutes were not Observed
3	274	Rain Tree	Hulimavu Horticulture	Yet to transloacate
4	276	Rain Tree	Hulimavu Horticulture	Yet to transloacate
5	277	Honge	Hulimavu Horticulture	Dried at site and fallen due to heavy rain
6	279	Honge	Hulimavu Horticulture	New Sproutes were not Observed
7	309	Aale	Hulimavu Horticulture	New Sproutes were not Observed
8	4	Honge	Hulimavu Horticulture	New Sproutes were not Observed
9	307	Honge	Hulimavu Horticulture	New Sproutes were not Observed
10	3	Amla	Hulimavu Horticulture	Retained at site
11	5	Amla	Hulimavu Horticulture	Retained at site
12	13	Amla	Hulimavu Horticulture	New Sproutes were not Observed
13	15	Amla	Hulimavu Horticulture	New Sproutes were not Observed
14	16	Amla	Hulimavu Horticulture	Yet to translocate
15	34	Amla	Hulimavu Horticulture	New Sproutes were not Observed
16	38	Shivane	Hulimavu Horticulture	New Sproutes were not Observed
17	51	Shivane	Hulimavu Horticulture	New Sproutes were not Observed
18	54	Amla	Hulimavu Horticulture	New Sproutes were not Observed
19	55A	Amla	Hulimavu Horticulture	New Sproutes were not Observed
20	56	Amla	Hulimavu Horticulture	New Sproutes were not Observed
21	57	Amla	Hulimavu Horticulture	New Sproutes were not Observed
22	72	Holematti	Hulimavu Horticulture	New Sproutes were not Observed
23	73	Kumkuma	Hulimavu Horticulture	New Sproutes were not Observed
24	S1	SANDAL	Hulimavu Horticulture	New Sproutes were not Observed
25	S2	SANDAL	Hulimavu Horticulture	New Sproutes were not Observed
26	S3	SANDAL	Hulimavu Horticulture	New Sproutes were not Observed
27	S4	SANDAL	Hulimavu Horticulture	New Sproutes were not Observed

KOTHNUR DEPOT



Location of the plantation: Nadaprabhu Kempegowda Layout

(Block 6 I E H Sector)

OM dated: 26.08.2021, Court Permission: 20.09.2021

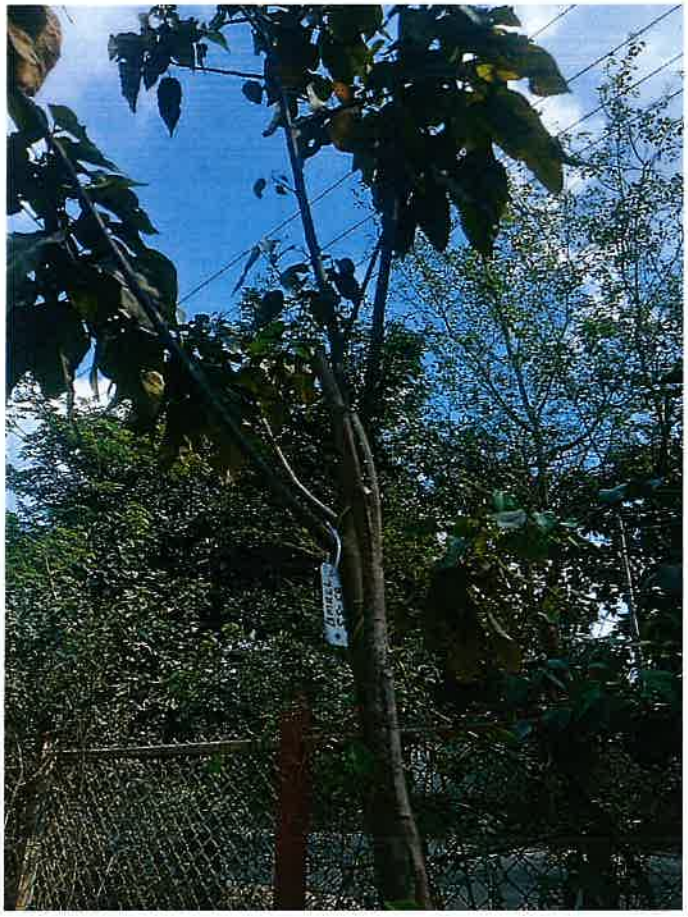
Sl.No	Name of the saplings	Number of saplings planted	Remarks
1	Aala	5	Healthy, 8-10 ft
2	Arali	8	—"—
3	Atti	29	—"—
4	Basari	46	—"—
5	Basavanapada	10	Healthy, 8-12 ft
6	Billi Booraga	23	—"—
7	Champaka	20	Healthy, 8-10 ft
8	Goni	10	—"—
9	Hoarasi	46	—"—
10	Hole dasavala	36	Healthy, 8-10 ft
11	Honge	33	Healthy, 8-10 ft
12	Jack Fruit	13	Healthy, 8-10 ft
13	Kadamba	1	Healthy, 8-10 ft
14	Kadu Badami	12	Healthy, 8-10 ft
15	Kiru Nalli	13	—"—
16	mahagani	48	Healthy, 8-12 ft
17	Nagalinga Pushpa	17	—"—
18	Neem	44	Healthy, 8-10 ft
19	Nerale	32	—"—
20	Tabubia Avalanda	4	—"—
21	Tabubia Rosea	78	—"—
22	Tamarind	51	—"—
23	Tecoma	11	Healthy, 8-10 ft
24	Thare	4	—"—
25	Thespesia	6	—"—
26	Thormatti	110	Healthy, 8-12 ft
	Total	**710**	

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.,
Shanthinagar, Bengaluru

Location: Jayaprakash Narayan youth training centre (Sports Campus), Vidyanagar

OM dated: 07.05.2021, Court Permission: 22.04.2021

SI No	Name of the Saplings	Number of saplings planted	Remarks
1	Hoovarasi	25	Healthy, 8-10 ft
2	Ala	50	Healthy, 8-10 ft
3	Arali	35	Healthy, 8-10 ft
4	Nerale	40	Healthy, 8-10 ft
5	Neem	15	Healthy, 8-10 ft
6	Honge	45	Healthy, 8-10 ft
7	Basari	20	Healthy, 8-12 ft
8	Tabubia Rosia	20	Healthy, 8-12 ft
Total		**250**	




BMRCL
Compensatory Afforestation by BMRCL
During The Year 2021-22
EXECUTED by SHIVALAL SIDDESHWARA GARDEN
1250
550

Quarterly report on implementation of Official Memorandum dated 08.09.2021 (UM Kaval) by Bengaluru Metro Rail Corporation Limited

Name of the project	: Anjanapura Depot of Bangalore Metro Rail Project Construction
Location of the project	: U M Kaval, Bengaluru
OM issued date by the Tree Officer, Urban	: **08.09.2021**
Court Permission Date	: **20.09.2021**

Details of the OM dtd. 08.09.2021:

Total number of trees removed as per OM	: 123 No. Trees
Total Number of Trees Recommended for the Retention on site	: 07 No. Trees
Total Number of Trees Recommended for the Translocation on site	: 36 No. Trees
Number of Trees Recommended for the Felling on site	: 87 No. Trees

Details of Translocation:

Agency entrusted for the tree translocation	: Indus Herbs
Location of Receptor site	: Devikarani estate (Kanakapura Road) **36 No. Trees**
Total number of trees to be translocated as per OM dtd.	: **36 No. Trees**
Translocation completed Month and Year	: **January 2022**
Total number of tree translocation completed	: **36 No. Trees**
Total number of tree translocation balance	: **Nil**
Total number of trees observed with survival Symptoms	: **05 No. Trees**
Total number of trees not encounter with any type of survival symptoms	: **31 No. Trees**
Procedure of agency selection	: Competitive bidding as per the KTTP ACT 1999

Methodology adopted for the tree translocation: Root Ball Method as per the UAS, GKVK, guidelines 2020

Supervision of translocation	:Environmental officer (SEMU), Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU, Asst. Engineer (Civil) 2A Package 1, BMRCL and Asst. Engineer (Civil), AFCONS PVT. LTD.
Officers in-charge for tree translocation	: ED-Civil, GM (SEMU), Chief Engineer (2A Package 1-ORR), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU), AE (Civil) 2A Package 1 and Asst. Engineer (Civil), AFCONS.
Supervision by Forest Dept	: Urban Tree Officer or Officer Deputed by Tree Officer Urban.

Details of compensatory Plantation:

Agency entrusted for the raising and maintenance of the plantation by BMRCL	: 1. Savalal sidashwara
Location of Compensatory plantation and number of saplings.	: Jayaprakash Narayan youth training center (High school Campus), Vidyanagar – **1230 No. Tree.**
Procedure of agency selection	: Through open quotations method as per the KPTT Act 1999 of emergency section
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 1230 No. Saplings
Number of Saplings planted	: 1230 No. Saplings
Year and Month of plantation Completed	: 2021-2022 and Oct-Feb
Present servility rate of the plantation	: 1230 No. saplings (100%)
Supervision of Compensatory plantation	: General Manager (SEMU), Environmental officer, AM/AE (SEMU) Asst. Environmental Officer, SEMU, Section Environmental Engineer, SEMU.
Officers in-charge for Compensatory plantation	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU).

Supervision by Forest Dept : Urban Tree Officer or Officer Deputed by Tree Officer Urban.

A. TREE TRANSLOCATION

A1. Competent Agency Selected for Translocation:

Bangalore Metro Rail Corporation Limited Engaged Indus Herbs for tree Translocation and maintenance for a period of 3 years. BMRCL has entered an agreement with Indus Herbs.

A2. Survival Rate of transplanted trees as per the official memorandum:

The transplanted tree needs to be observed frequently for its survival, growth, pests, diseases and other physiological symptoms/expressions. It is possible to witness temporary wilting of leaves for few days, leaf fall also can happen and the tree may even decide to go in for 'Transitory Dormancy' phase, to avoid moisture loss and desiccation. But can show revival symptoms within six months like, new sprouts, turgid leaves, arrest of leaf fall, etc., It is also possible that sometimes, there will be a 'Distress' reaction in the form of premature flowering and fruiting. Also, some trees will exhibit new sprouts within few weeks which may be due to the presence of adequate stored food reserves. Under such circumstances, the new sprouts will not survive for a long and may wither soon. If the tree has not acclimatized, then there will not be any revival symptoms. It should be kept in mind that the transplanted tree has to withstand the tests of at least one years (covering all the three seasons) to declare it as 'surviving or successful'. Hence, any premature conclusions and certifications are being restrained.

From Dec 2021 BMRCL has translocated 36 trees which are given way for the metro construction. Morphological characteristics showing the survival symptoms likes leaf buds, leaf initiation, new shoots, tree branchlets, flowers and new leaves were observed in the 05 translocated trees which evident that trees are responding to the translocation shock and trying to adopt for the new location and surrounding microclimate. Remaining 31 No. translocated trees have not encountered with any survival symptoms.

A3. Maintenance of Transplanted trees:

A3.1Time period: The plantation has maintained for a period of three years form the date of completion of transplantation.

A3.2 Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from Nov 2022 to Dec 2022 at receptor sites.

Soil works: Hoeing and other soil works has been started in Dec 2022, still work is in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from Dec 2022, still is in progress.

Watering: Due to heavy rains in the Bengaluru no watering activity has carried out in quarter Oct to Dec 2022 in the receptor site.

B. COMPENSATORY PLANTATION:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy saplings. Hence BMRCL had raised the plantation of 1230 no. saplings at Jayaprakash Narayan youth training center (High school Campus), Vidyanagar – 1230 no. Saplings.

BMRCL has to rise the compensatory plantation of 57,320 No. saplings as per the 18 official memorandums issued by the tree officer BBMP from March 2021 to November 2022. BMRCL had completed the raising 25,730 saplings.

B1. Maintenance of the plantation

Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

Causality replacement: From Oct to Dec 2022, 0% causality was observed in the 1230 saplings afforestation pertaining to the OM dtd. 08.09.2021.

B2. Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from Nov 2022 to Dec 2022 for the plantations at Jayaprakash Narayan youth training center (High school Campus), Vidyanagar – 1230 no. Saplings.

Quarterly Report Oct to Dec 2022 5th Quarter

Soil works: Hoeing and other soil works has been started Nov 2022, still work is in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from Dec 2022, still is in progress.

Watering: Due to heavy rains in the Bengaluru no watering activity has carried out in quarter Oct to Dec 2022 in the plantations.

Application of Fertiliser to plants: 50g of DAP and approximately 2 kg of FYM has been given to each sapling at the root zone from Nov 2022, still is in progress.

Survival rate: In the quarter Oct to Dec 2022, 100 % survival rate has been observed, the sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation at Jayaprakash Narayan youth training center (High school Campus), Vidyanagar – 1230 no. Saplings.

Numbering and Geo tagging: Coding of Each sapling in the Jayaprakash Narayan youth training center (High school Campus), Vidyanagar – 1230 no. Saplings plantation has been started. Geo tagging of each sapling has been completed on Dec 2022.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. Maintenance of 36 transplanted trees is in progress. 2. Maintenance of 1230 trees saplings is in progress.	1. Both transplanted and compensatory afforestation sites activities like weeding, soil works and nutrient supplements were taken up.

Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till Dec 2022	Balance	Remarks
1.	Tree translocation	36	36	Nil	Work is completed
2.	Compensatory plantation	1230	1230	Nil	Work is completed

Quarterly Report Oct to Dec 2022 **5th Quarter**

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter Oct, Nov & Dec 2022 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

Divya S Hosur

General Manager,
SEMU-BMRCL

Divya S Hosur
General Manager
Social & Environmental Management Unit (SEMU)
Bangalore Metro Rail Corporation Ltd.
3rd Floor, BMTC Complex, K.H. Road
Shanthinagar, Bengaluru - 560 027

Status of Translocated trees pertaining to OM dated 08.09.2021				
Sl.No	Tree No	Species	Location	Condition of the Tree
1	18	Echalu	Devika rani estate	New Sproutes were not Observed
2	31	Echalu	Devika rani estate	New Sproutes were not Observed
3	38	Mutthuga	Devika rani estate	New Sproutes were not Observed
4	50	Echalu	Devika rani estate	Healthy
5	66	Thaare	Devika rani estate	New Sproutes were not Observed
6	67 (a)	Honne	Devika rani estate	New Sproutes were not Observed
	67 (b)	Honne	Devika rani estate	New Sproutes were not Observed
7	69	Tapasi	Devika rani estate	New Sproutes were not Observed
8	71	Achalu	Devika rani estate	New Sproutes were not Observed
9	83	Baare	Devika rani estate	New Sproutes were not Observed
10	84	Yalachi	Devika rani estate	New Sproutes were not Observed
11	85	Kaggali	Devika rani estate	Dried at site and fallen due to heavy rain
12	86	Kumkuma	Devika rani estate	New Sproutes were not Observed
13	90	Hebbevu	Devika rani estate	New Sproutes were not Observed
14	91	Thare	Devika rani estate	Healthy
15	92 (a)	Bage	Devika rani estate	Healthy
	92 (b)	Bage	Devika rani estate	Healthy
16	93	Shivane	Devika rani estate	New Sproutes were not Observed
17	95	Kamara	Devika rani estate	New Sproutes were not Observed
18	97	Bilwara	Devika rani estate	Dried at site and fallen due to heavy rain
19	99	Sandal wood	Devika rani estate	New Sproutes were not Observed
20	100	Hebbevu	Devika rani estate	New Sproutes were not Observed
21	103	Bilwara	Devika rani estate	New Sproutes were not Observed
22	106	Sandal	Devika rani estate	Dried at site and fallen due to heavy rain
23	107	Hebbevu	Devika rani estate	New Sproutes were not Observed
24	111	Nerale	Devika rani estate	New Sproutes were not Observed
25	112	Shivane	Devika rani estate	Healthy
26	113	nerale	Devika rani estate	New Sproutes were not Observed
27	115	Thare	Devika rani estate	New Sproutes were not Observed

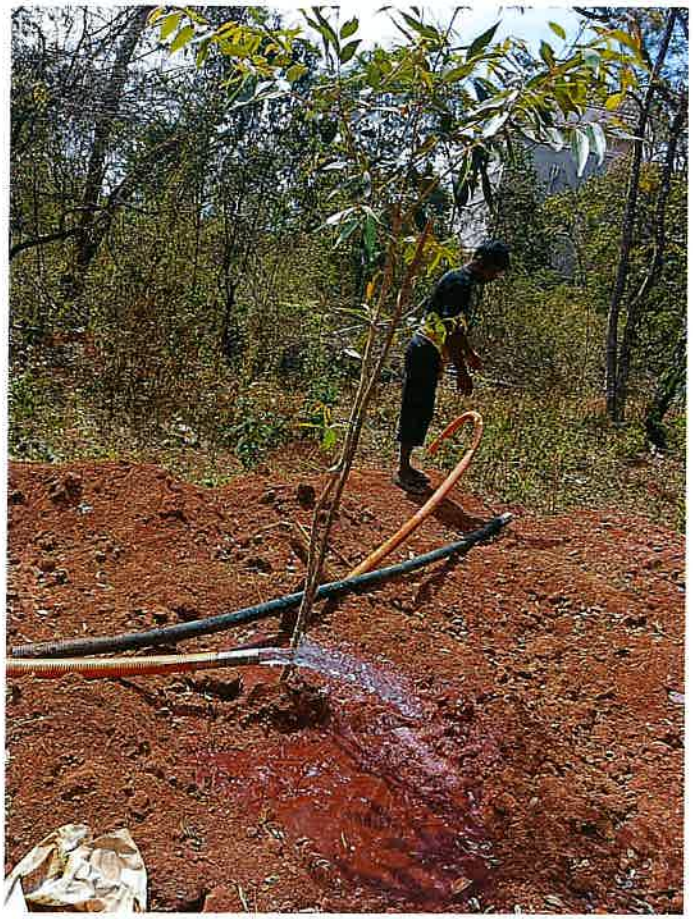
28	116	Thare	Devika rani estate	New Sproutes were not Observed
29	121	Kumkuma	Devika rani estate	New Sproutes were not Observed
30	122	Shivane	Devika rani estate	Dried at site and fallen due to heavy rain
31	123	Hebbevu	Devika rani estate	New Sproutes were not Observed
32	126	Hebbevu	Devika rani estate	New Sproutes were not Observed
33	127	Thorematti	Devika rani estate	New Sproutes were not Observed
34	128	Kumkuma	Devika rani estate	New Sproutes were not Observed
35	129	Kumkuma	Devika rani estate	Dried at site and fallen due to heavy rain
36	130	Nerale	Devika rani estate	New Sproutes were not Observed

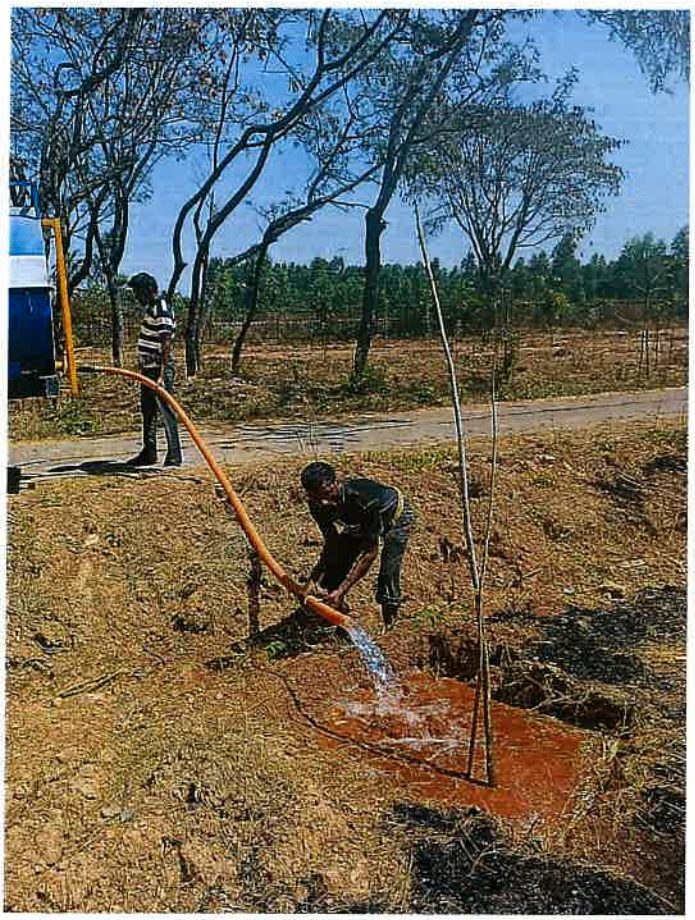
Location: Jayaprakash Narayan youth training centre (High school Campus), Vidyanagar

OM dated: 08.09.2021, Court Permission: 20.09.2021

SI No	Name of the Saplings	Number of saplings planted	Remarks by AEO
1	Atti	50	Healthy 1-1½
2	Jack fruit	25	〃 ½-4ft
3	guossberry	25	〃 ½-4ft
4	Basavanapada	50	〃 1-3ft
5	Holedasavala	45	〃 ½-4ft
6	Hole Mathi	140	〃 1-1½
7	Hoovarasi	55	〃 1-1½
8	Champaka	30	〃 ½-4ft
9	Ala	50	〃 ½ft
10	Arali	50	〃 1+1½ft
11	Nerale	40	〃 1-3ft
12	Neem	40	〃 1½ft
13	Honge	40	〃 1½ft
14	Basari	145	〃 ½-4ft
15	Tabubia rosia	80	〃 1-3ft
16	Mohwa	35	〃 ½ft
17	Nagalinga Pushpa	50	〃 1-1½ft
18	Bili Boorga	100	〃 1-3ft
19	Spethodia	75	〃 1-2½ft
20	Kadamba	55	〃 ½-4ft
21	Mahagani	50	〃 1-1½ft
	Total	**1230**	

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.,
Shanthinagar, Bengaluru





Quarterly report on implementation of Official Memorandum dated 26.08.2021 (R1A - Vijinapura) by Bengaluru Metro Rail Corporation Limited

Name of the project	: Jyothipura Metro station entry exit struvture Reach 1A of Bangalore Metro Rail Project Construction
Location of the project	: Vijinapura, Bengaluru
OM issued date by the Tree Officer, Urban	: **26.08.2021**
Court Permission Date	: **20.09.2021**

Details of the OM dtd. 26.08.2021:

Total number of trees removed as per OM	: 32 No. Trees
Total Number of Trees Recommended for the Retention on site	: 13 No. Trees
Total Number of Trees Recommended for the Translocation on site	: 08 No. Trees
Number of Trees Recommended for the Felling on site	: 24 No. Trees

Details of Translocation:

Agency entrusted for the tree translocation	: TMRH Plantations
Location of Receptor site	: Along the boundary wall of KR Puram metro station, adjacent to Lowry school compound **- 08 No. Trees**
Total number of trees to be translocated as per OM dtd.	: **08 No. Trees**
Translocation completed Month and Year	: **July 2022**
Total number of tree translocation completed	: **05 No. Trees**
Total number of tree translocation balance	: **03 No. Trees**
Total number of trees observed with survival Symptoms	: **04 No. Trees**
Total number of trees not encounter with any type of survival symptoms	: **01 No. Trees**
Procedure of agency selection	: Competitive bidding as per the KTTP ACT 1999

Methodology adopted for the tree translocation	: Root Ball Method as per the UAS, GKVK, guidelines 2020
Supervision of translocation	:Environmental officer (SEMU), Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU, Asst. Engineer (Civil) 2A Package 1, BMRCL and Asst. Engineer (Civil), AFCONS PVT. LTD.
Officers in-charge for tree translocation	: ED-Civil, GM (SEMU), Chief Engineer (2A Package 1-ORR), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU), AE (Civil) 2A Package 1 and Asst. Engineer (Civil), AFCONS.
Supervision by Forest Dept	: Urban Tree Officer or Officer Deputed by Tree Officer Urban

Details of compensatory Plantation:

Agency entrusted for the raising and maintenance of the plantation by BMRCL	: 1. Savalal sidashwara
Location of Compensatory plantation and number of saplings.	: Jayaprakash Narayan youth training center (High school Campus), Vidyanagar **– 320 No. Tree.**
Procedure of agency selection	: Through open quotations method as per the KPTT Act 1999 of emergency section
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 320 No. Saplings
Number of Saplings planted	: 320 No. Saplings
Year and Month of plantation Completed	: 2021-2022 and Oct-Feb
Present servility rate of the plantation	: 320 No. saplings (100%)
Supervision of Compensatory plantation	: General Manager (SEMU), Environmental officer, AM/AE (SEMU) Asst. Environmental Officer, SEMU, Section Environmental Engineer, SEMU.
Officers in-charge for Compensatory plantation	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU).

Supervision by Forest Dept : Urban Tree Officer or Officer Deputed by Tree Officer Urban

A. TREE TRANSLOCATION

A1. Competent Agency Selected for Translocation:

Bangalore Metro Rail Corporation Limited Engaged TMRH Plantations for tree Translocation and maintenance for a period of 3 years. BMRCL has entered an agreement with TMRH Plantations.

A2. Survival Rate of transplanted trees as per the official memorandum:

The transplanted tree needs to be observed frequently for its survival, growth, pests, diseases and other physiological symptoms/expressions. It is possible to witness temporary wilting of leaves for few days, leaf fall also can happen and the tree may even decide to go in for 'Transitory Dormancy' phase, to avoid moisture loss and desiccation. But can show revival symptoms within six months like, new sprouts, turgid leaves, arrest of leaf fall, etc., It is also possible that sometimes, there will be a 'Distress' reaction in the form of premature flowering and fruiting. Also, some trees will exhibit new sprouts within few weeks which may be due to the presence of adequate stored food reserves. Under such circumstances, the new sprouts will not survive for a long and may wither soon. If the tree has not acclimatized, then there will not be any revival symptoms. It should be kept in mind that the transplanted tree has to withstand the tests of at least one years (covering all the three seasons) to declare it as 'surviving or successful'. Hence, any premature conclusions and certifications are being restrained.

From Dec 2021 BMRCL has translocated 05 trees which are given way for the metro construction. Morphological characteristics showing the survival symptoms likes leaf buds, leaf initiation, new shoots, tree branchlets, flowers and new leaves were observed in the 04 translocated trees which evident that trees are responding to the translocation shock and trying to adopt for the new location and surrounding microclimate. Remaining 01 No. translocated trees have not encountered with any survival symptoms.

A3. Maintenance of Transplanted trees:

A3.1 Time period: The plantation has maintained for a period of three years form the date of completion of transplantation.

A3.2 Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from Nov 2022 to Dec 2022 at receptor sites.

Soil works: Hoeing and other soil works has been started in Dec 2022, still work is in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from Dec 2022, still is in progress.

Watering: Due to heavy rains in the Bengaluru no watering activity has carried out in quarter Oct to Dec 2022 in the receptor site.

B. COMPENSATORY PLANTATION:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy saplings. Hence BMRCL had raised the plantation of 320 no. saplings at Jayaprakash Narayan youth training center (Sports Campus and High school Campus), Vidyanagar – 320 no. Saplings.

BMRCL has to rise the compensatory plantation of 57,320 No. saplings as per the 18 official memorandums issued by the tree officer BBMP from March 2021 to November 2022. BMRCL had completed the raising 25,730 saplings.

B1. Maintenance of the plantation

Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

Causality replacement: From Oct to Dec 2022, 0% causality was observed in the 1230 saplings afforestation pertaining to the OM dtd. 26.08.2021.

B3. Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from Nov 2022 to Dec 2022 for the plantations at Jayaprakash Narayan youth training center (Sports Campus and High school Campus), Vidyanagar – 320 no. Saplings.

Soil works: Hoeing and other soil works has been started Nov 2022, still work is in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from Dec 2022, still is in progress.

Watering: Due to heavy rains in the Bengaluru no watering activity has carried out in quarter Oct to Dec 2022 in the plantations.

Application of Fertiliser to plants: 50g of DAP and approximately 2 kg of FYM has been given to each sapling at the root zone from Nov 2022, still is in progress.

Survival rate: In the quarter Oct to Dec 2022, 100 % survival rate has been observed, the sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation at Jayaprakash Narayan youth training center (Sports Campus and High school Campus), Vidyanagar – 320 no. Saplings.

Numbering and Geo tagging: Coding of Each sapling in the Jayaprakash Narayan youth training center (Sports Campus and High school Campus), Vidyanagar – 320 no. Saplings. plantation has been started. Geo tagging of each sapling has been completed on Dec 2022.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. Maintenance of 05 transplanted trees is in progress. 2. Maintenance of 320 trees saplings is in progress.	1. Both transplanted and compensatory afforestation sites activities like weeding, soil works and nutrient supplements were taken up.

Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till Dec 2022	Balance	Remarks
1.	Tree translocation	08	05	03	Work is Progress
2.	Compensatory plantation	320	320	Nil	Work is completed

Quarterly Report Oct to Dec 2022 **5th Quarter**

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter Oct, Nov & Dec 2022 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

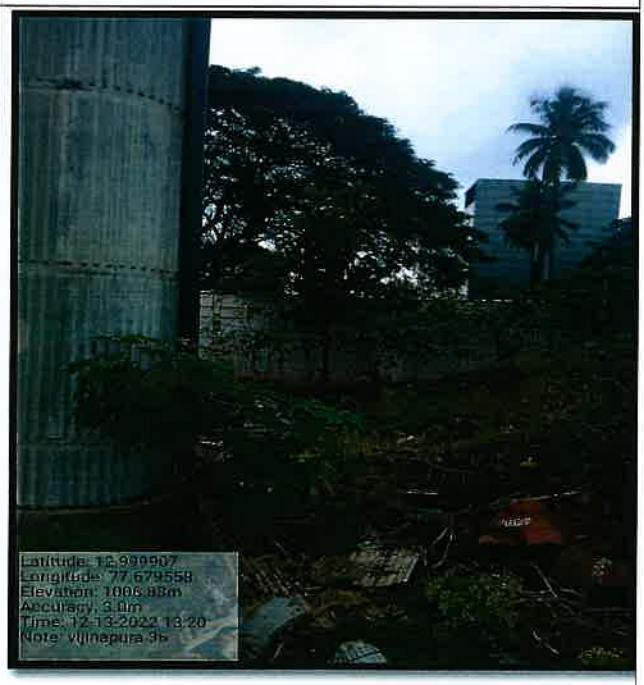
Divya S Hosur

General Manager,
SEMU-BMRCL

Divya S Hosur
General Manager
Social & Environmental Management Unit (SEMU)
Bangalore Metro Rail Corporation Ltd.
3rd Floor, BMTC Complex, K.H. Road
Shanthinagar, Bengaluru - 560 027

Status of Translocated trees pertaining to OM dated 26.08.2021				
Sl.No	**Tree No**	**Species**	**Location**	**Condition of the Tree**
1	14	Neem	Present at Site	Yet to tranlsocate
2	19	Palm	Present at Site	Yet to tranlsocate
3	20	Hatthi	Present at Site	Yet to tranlsocate
4	24	Hole dasavala	K P Puram (Lowry School)	Healthy
5	26	Peepal	K P Puram (Lowry School)	Healthy
6	34A	Honge	K P Puram (Lowry School)	Healthy
	34B		K P Puram (Lowry School)	
7	36	Teak wood	K P Puram (Lowry School)	Healthy
8	41	Mango	K P Puram (Lowry School)	New Sproutes were not Observed

VIJINAPURA TRANSLOCATION SITE



Location: Jayaprakash Narayan youth training centre (Sports Campus and High school Campus), Vidyanagar.

OM dated: 26.08.2021, Court Permission: 20.09.2021

SI No	Name of the Saplings	Number of saplings planted	Remarks
1	Tamarind	50	Healthy 1½ ft.
2	Jack fruit	10	do 1½ ft.
3	Mango	50	do 1½ ft.
4	Indian Fig	40	do 1½ - 1 ft.
5	Hole Dasavala	20	do 1 - 1½ ft.
6	Hole Mathi	20	do 1½ ft
7	Hoovarasi	20	do 1 ft.
8	Champaka	40	do 1½ ft.
9	Saraka Indika	50	do 1 - 1½ ft
10	Ailanthus	20	do 1 - 2½ ft
	Total	**320**	

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.,
Shanthinagar, Bengaluru


Dec 5, 2022 11:38:06 AM
Unnamed Road
Maligondanahalli

Quarterly report on implementation of Official Memorandum dated 07.03.2022 (Vellara Junction Metro station) by Bengaluru Metro Rail Corporation Limited

Name of the project	: Vellara Junction Metro station of Bangalore Metro Rail Project
Location of the project	: Vellara, Bengaluru
OM issued date by the Tree Officer, Urban	: **07.03.2022**
Court Permission Date	: **20.04.2022**

Details of the OM dtd.: 07.03.2021

Total number of trees removed as per OM	: 08 No. Trees
Total Number of Trees Recommended for the Retention on site	: 2 No. trees
Total Number of Trees Recommended for the Translocation on site	: Nil
Number of Trees Recommended for the Felling on site	: 08 No. Trees

Details of Translocation:

-Nil-

Details of compensatory Plantation

Agency entrusted for the raising and maintenance of the plantation by BMRCL	: Suberamanya constructions
Location of Compensatory plantation and No. of saplings	: Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 80 No. Saplings
Procedure of agency selection	: Work don certificate and through open quotations method
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 80 No. saplings
Number of Saplings planted	: 80 No. saplings
Year and Month of plantation Completed	: 2022 and Oct-Feb
Present servility rate of the plantation	: 80 No. saplings (100%)

Supervision of Compensatory plantation	: General Manager (SEMU), Environmental officer, AM/AE (SEMU) Asst. Environmental Officer, SEMU, Section Environmental Engineer, SEMU.
Officers in-charge for Compensatory plantation	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU).
Supervision by Forest Dept	: BBMP Tree Officer or Officer Deputed by Tree Officer BBMP.

A. COMPENSATORY PLANTATION:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy saplings. Hence BMRCL had raised the plantation of 80 no. saplings at Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 80 No. Saplings.

BMRCL has to rise the compensatory plantation of 57,320 No. saplings as per the 18 official memorandums issued by the tree officer BBMP from March 2021 to November 2022. BMRCL had completed the raising 25,730 saplings.

A1. Maintenance of the plantation

Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

Causality replacement: From Oct to Dec 2022, 0% causality was observed in the 80 saplings afforestation pertaining to the OM dtd. 07.03.2022.

A2. Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from Nov 2022 to Dec 2022 for the plantations at Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 80 No. Saplings.

Soil works: Hoeing and other soil works has been completed in Nov 2022.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from Dec 2022, still is in progress.

Watering: Due to heavy rains in the Bengaluru no watering activity has carried out in quarter Oct to Dec 2022 in the plantations.

Application of Fertiliser to plants: 50g of DAP and approximately 2 kg of FYM has been given to each sapling at the root zone from Nov 2022, still is in progress.

Survival rate: In the quarter Oct to Dec 2022 100 % survival rate has been observed, the sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation at Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru.

Numbering and Geo tagging: Coding of Each sapling Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru, plantation has been started. Geo tagging of each sapling has been completed on March 2022.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. Maintenance of 80 saplings at Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 80 No. Saplings	1. Activities like weeding, Soil works, nutrient supplements have been carried out in the plantation.

Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till Dec 2022	Balance	Remarks
2.	Compensatory plantation	80	80	Nil	Work is completed

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation for the Quarter Oct, Nov & Dec 2022 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

Divya S Hosur

General Manager,
SEMU-BMRCL

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General Manager
Social & Environmental Management Unit (SEMU)
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3rd Floor, BMTC Complex, K.H. Road
Shanthinagar, Bengaluru - 560 027

Compensatroy Plantation Details			
OM Dated: 07.03.2022 High Court Permission Dated: 20.04.2022 Location: KIADB			
Sl No	**Species Name**	**No of Saplings**	**Remarks**
1	Mahagani	40	Healthy, 8-12 ft
2	Goni	40	Healthy, 8-10 ft
Total		**80**	

Quarterly report on implementation of Official Memorandum dated 10.06.2022 (Vellara Junction Metro station) by Bengaluru Metro Rail Corporation Limited

Name of the project	: Vellara Junction Metro station of Bangalore Metro Rail Project
Location of the project	: Vellara, Bengaluru
OM issued date by the Tree Officer, Urban	: **10.06.2022**
Court Permission Date	: **13.07.2022**

Details of the OM dtd.: 10.06.2022

Total number of trees removed as per OM	: 07 No. Trees
Total Number of Trees Recommended for the Retention on site	: Nil
Total Number of Trees Recommended for the Translocation on site	: Nil
Number of Trees Recommended for the Felling on site	: 07 No. Trees

Details of Translocation:

-Nil-

Details of compensatory Plantation

Agency entrusted for the raising and maintenance of the plantation by BMRCL	: 1. Suberamanya constructions 2. EcoGene Concept
Location of Compensatory plantation and No. of saplings	: Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 70 No. Saplings
Procedure of agency selection	: Work don certificate and through open quotations method
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 70 No. saplings
Number of Saplings planted	: 70 No. saplings
Year and Month of plantation Completed	: 2022 and Oct-Feb
Present servility rate of the plantation	: 70 No. saplings (100%)

Supervision of Compensatory plantation	: General Manager (SEMU), Environmental officer, AM/AE (SEMU) Asst. Environmental Officer, SEMU, Section Environmental Engineer, SEMU.
Officers in-charge for Compensatory plantation	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU).
Supervision by Forest Dept	: BBMP Tree Officer or Officer Deputed by Tree Officer BBMP.

A. COMPENSATORY PLANTATION:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy saplings. Hence BMRCL had raised the plantation of 80 no. saplings at Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 70 No. Saplings.

BMRCL has to rise the compensatory plantation of 57,320 No. saplings as per the 18 official memorandums issued by the tree officer BBMP from March 2021 to December 2022. BMRCL had completed the raising 25,730 saplings.

A1. Maintenance of the plantation

Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

Causality replacement: From Oct to Dec 2022, 0% causality was observed in the 70 saplings afforestation pertaining to the OM dtd. 10.06.2022.

A3. Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from Nov 2022 to Dec 2022 for the plantations at Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 70 No. Saplings.

Soil works: Hoeing and other soil works has been completed in Nov 2022.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from Dec 2022, still is in progress.

Watering: Due to heavy rains in the Bengaluru no watering activity has carried out in quarter Oct to Dec 2022 in the plantations.

Application of Fertiliser to plants: 50g of DAP and approximately 2 kg of FYM has been given to each sapling at the root zone from Nov 2022, still is in progress.

Survival rate: In the quarter Oct to Dec 2022 100 % survival rate has been observed, the sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation at Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru.

Numbering and Geo tagging: Coding of Each sapling Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru, plantation has been started. Geo tagging of each sapling has been completed on March 2022.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. Maintenance of 70 saplings at Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru.	1. Activities like weeding, Soil works, nutrient supplements have been carried out in the plantation.

Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till Dec2022	Balance	Remarks
1.	Compensatory plantation	70	70	Nil	Work is completed

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation for the Quarter Oct, Nov & Dec 2022 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

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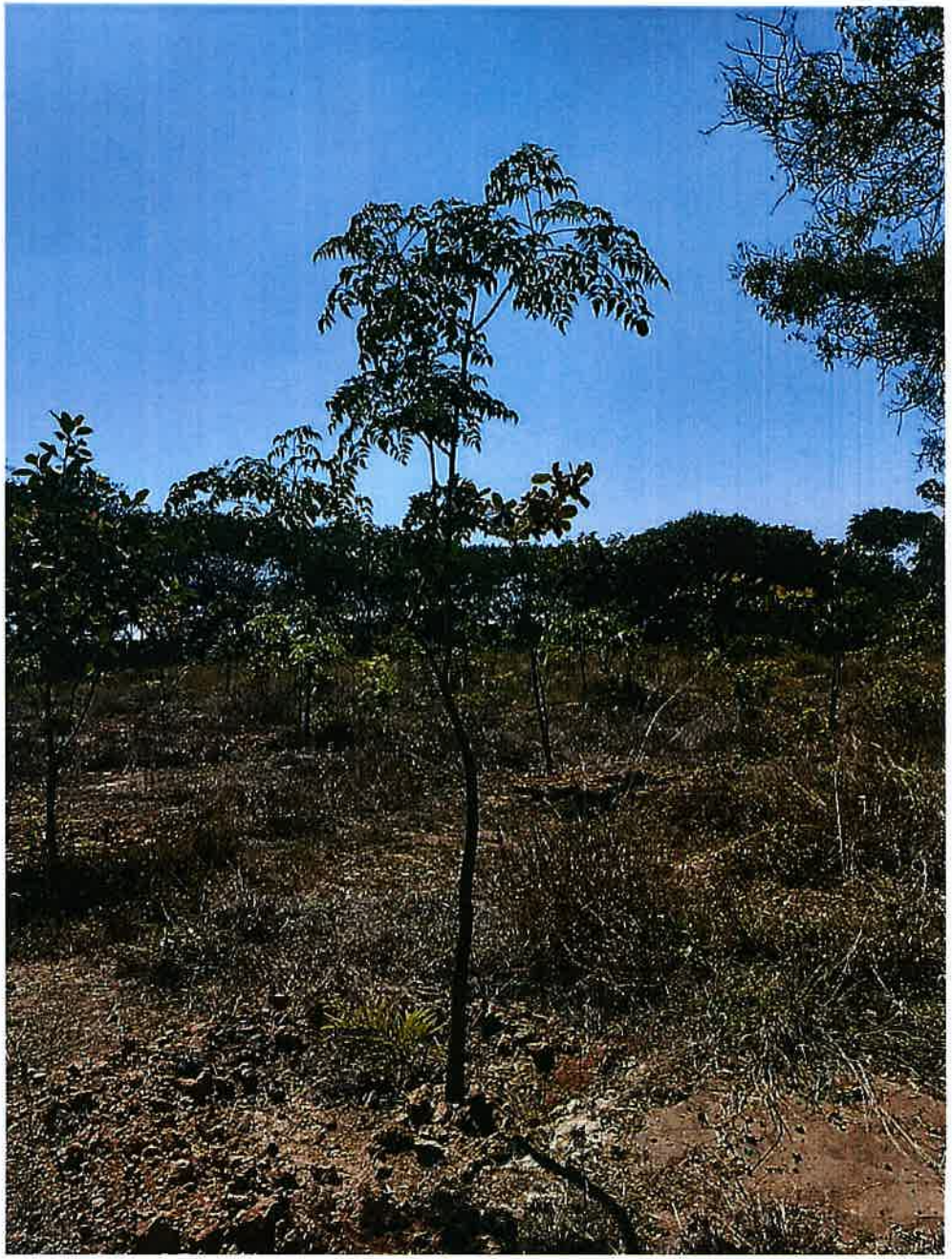
Compensatroy Plantation Details			
OM Dated: 10.06.2022 High Court Permission Dated: 12.07.2022			
Sl No	**Species Name**	**No. Saplings**	**Remarks**
1	Kadamba	10	Healthy, 8-10 ft
2	Mahogany	15	Healthy, 8-12 ft
3	Champaka Mara	10	Healthy, 8-10 ft
4	Ala	15	Healthy, 8-10 ft
5	Arali Mara	10	Healthy, 8-12 ft
6	Nerale Mara	10	Healthy, 8-10 ft
Total		**70**	



Quarterly report on implementation of Official Memorandum dated 26.11.2021 (Central Silk Board to Kodibeesenahalli 2A Package 1 (ORR)) by Bengaluru Metro Rail Corporation Limited

Name of the project	: 2A Package 1 (ORR) of Bangalore Metro Rail Project Construction
Location of the project	: Between Central Silk Board to Kodibeesenahalli
OM issued date by the Tree Officer, BBMP	: **26.11.2021**
Court Permission Date	: **23.12.2021**

Details of the OM dtd. 26.11.2021:

Total number of trees removed as per OM	: 789 No. Trees
Total Number of Trees Recommended for the Retention on site	: 44 No. Trees
Total Number of Trees Recommended for the Translocation on site	: 212 No. Trees
Number of Trees Recommended for the Felling on site	: 577 No. Trees

Details of Translocation:

Agency entrusted for the tree translocation	: Blue Grass Landscaping LTD Under AFCONS Pvt. Ltd.
Location of Receptor site	: CMP Center training area HSR 1st Sector, 27th Cross Iblur, Bengaluru – **212 No. Tree.**
Total number of trees to be translocated as per OM dtd.	: **212 No. Trees**
Translocation completed Month and Year	: **Dect 2022**
Total number of tree translocation completed	: **201 No. Trees**
Total number of tree translocation balance	: **11 No. Trees**
Total number of trees observed with survival Symptoms	: **178 No. Trees**

Total number of trees not encounter with any type of survival symptoms	: **23 No. Trees**
Procedure of agency selection	: Competitive bidding as per the KTTP ACT 1999
Methodology adopted for the tree translocation	: Root Ball Method as per the UAS, GKVK, guidelines 2020
Supervision of translocation by BMRCL	:Environmental officer (SEMU), AM/AE-SENU Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU
Officers in-charge for tree translocation By BMRCL	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU)
Supervision by BBMP	: BBMP Tree officer or officer deputed by tree officer BBMP

Details of compensatory Plantation:

Agency entrusted for the raising and maintenance of the plantation by BMRCL	: 1. Nursery Men Co-operative Society, Bengaluru. 2. Ramakrishna Contractor, Bengaluru. 3. Ecogene concepts LLP, Bengaluru. 4. Subramanya construction Pvt. Ltd, Bengaluru. 5. Garden Villa, Bengaluru
Location of Compensatory plantation and number of saplings.	: 1. Nadaprabhu Kempegowda Layout (Block 1 MAR, Block 4- sector G&D) – **3400 No. Saplings** 2. Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – **4490 No. saplings**
Procedure of agency selection	: Through open quotations method as per the KPTT Act 1999 of emergency section
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 7890 No. saplings
Number of saplings planted	: 7890 No. saplings
Year and Month of plantation Completed	: June 2022
Present servility rate of the plantation	: 7890 No. saplings (100%)

Supervision of Compensatory Plantation by BMRCL	:Environmental officer (SEMU), AM/AE SENU Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU
Officers in-charge for tree translocation By BMRCL	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU)
Supervision by Forest Dept.	: BBMP Tree officer or officer deputed by tree officer BBMP

A. TREE TRANSLOCATION

A1. Competent Agency Selected for Translocation:

Bangalore Metro Rail Corporation Limited Engaged Blue Grass Landscaping LTD Under AFCONS Pvt. Ltd for tree Translocation and maintenance for a period of 3 years. BMRCL has entered an agreement with Blue Grass Landscaping LTD Under AFCONS Pvt. Ltd.

A3. Survival Rate of transplanted trees as per the official memorandum:

The transplanted tree needs to be observed frequently for its survival, growth, pests, diseases and other physiological symptoms/expressions. It is possible to witness temporary wilting of leaves for few days, leaf fall also can happen and the tree may even decide to go in for 'Transitory Dormancy' phase, to avoid moisture loss and desiccation. But can show revival symptoms within six months like, new sprouts, turgid leaves, arrest of leaf fall, etc., It is also possible that sometimes, there will be a 'Distress' reaction in the form of premature flowering and fruiting. Also, some trees will exhibit new sprouts within few weeks which may be due to the presence of adequate stored food reserves. Under such circumstances, the new sprouts will not survive for a long and may wither soon. If the tree has not acclimatized, then there will not be any revival symptoms. It should be kept in mind that the transplanted tree has to withstand the tests of at least one years (covering all the three seasons) to declare it as 'surviving or successful'. Hence, any premature conclusions and certifications are being restrained.

From April 2022 BMRCL has translocated 174 trees which are given way for the metro construction. Morphological characteristics showing the survival symptoms likes leaf buds, leaf initiation, new shoots, tree branchlets, flowers and new leaves were observed in the 178 translocated trees which evident trees are responding to the translocation shock and trying to adopt for the new location and surrounding microclimate. Remaining 23 no translocated trees have not encountered with any survival symptoms hence they were kept in the observation.

A4. Maintenance of Transplanted trees:

A4.1 Time period: The plantation has maintained for a period of three years form the date of completion of transplantation.

A4.2 Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from Nov 2022 to Dec 2022 at receptor sites.

Soil works: Hoeing and other soil works has been started in Dec 2022, still work is in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from Dec 2022, still is in progress.

Watering: Due to heavy rains in the Bengaluru no watering activity has carried out in quarter Oct to Dec 2022 in the receptor site.

B. COMPENSATORY PLANTATION:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy saplings. Hence BMRCL had raised the plantation of 7890 no. saplings at Nadaprabhu Kempegowda Layout (Block 1 MAR, Block 4- sector G&D) – 3400 No. Trees Saplings, Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 4490 No. Saplings.

BMRCL has to rise the compensatory plantation of 57,320 No. saplings as per the 18 official memorandums issued by the tree officer BBMP from March 2021 to November 2022. BMRCL had completed the raising 25,730 saplings.

B1. Maintenance of the plantation

Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

Causality replacement:

From Oct to Dec 2022, 0% causality was observed in the 7890 saplings afforestation pertaining to the OM dtd. 26.11.2021. But still any plant attains causality BMRCL is replanting such seedlings.

B2. Plantation activities under taken in the present quarter:

Weeding:

Removal of the weeds has been carried out from Nov 2022 to Dec 2022 for the plantations at Nadaprabhu Kempegowda Layout (Block 1 MAR, Block 4- sector G&D) – 3400 No. Trees Saplings, Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 4490 No. Saplings.

Soil works:

Hoeing and other soil works has been started Nov 2022, still work is in progress.

Saucer Bharav:

Preparation of Saucer Bharav for the saplings has been started from Dec 2022, still is in progress.

Watering:

Due to heavy rains in the Bengaluru no watering activity has carried out in quarter Oct to Dec 2022 in the plantations.

Application of Fertiliser to plants:

50g of DAP and approximately 2 kg of FYM has been given to each tree sapling at the root zone from Nov 2022, still is in progress.

Survival rate:

In the quarter Oct to Dec 2022 100 % survival rate has been observed, the tree Sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation Nadaprabhu Kempegowda Layout (Block 1 MAR, Block 4- sector G&D) – 3400 No. Saplings, Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 4490 No. saplings.

Numbering and Geo tagging:

Coding of Each tree sapling in the Nadaprabhu Kempegowda Layout (Block 1 MAR, Block 4- sector G&D) – 3400 No. Trees Saplings, Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 4490 No. plantation has been started. Geo tagging of each sapling has been completed on Sep 2022.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. 201 No. trees were translocated from April to Dec 2022. 2. Planting of 7890 saplings at Nadaprabhu Kempegowda Layout (Block 1 MAR, Block 4- sector G&D) – 3400 No. Trees Saplings, Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 4490 No. has completed.	1. Maintenance of 201 transplanted trees is started and 24 trees transplanted. 2. Maintenance of 7890 saplings is in progress.

C. Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till Dec 2022	Balance	Remarks
1.	Tree translocation	212	201	11	Transplantation of 11 trees is in progress
2.	Compensatory plantation	7890	7890	Nil	Work is completed

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter Oct, Nov & Dec 2022 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

Divya S Hosur

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Status of Translocated trees pertaining to OM dated 26.11.2021			
Sl No	Tree No.	Species Name	Condition of the trees
1	1	Mahagani	Healthy
2	2	Mahagani	Healthy
3	4	Mahagani	Healthy
4	7	Baage	New sproutes were not observed
5	9	Benjomia	Healthy
	9 (a)	Benjomia	
6	25	Spathodia	Healthy
7	26	Honge	Healthy
	26 (a)	Honge	Healthy
8	34	Kadu badami	Healthy
9	35	Kadu badami	Healthy
10	42	Alada mara	Healthy
	42 (a)	Alada mara	
11	50	Goni mara	Healthy
12	52	Tabubia	Healthy
13	61	Bhadrakshi	Healthy
14	65	Tabubia	Retained
	65 (a)	Tabubia	
15	66	Tabubia	Retained
16	73	Tabubia	Retained
17	79	Honge	Retained
18	93	Honge	Retained
	93 (a)	Honge	
19	107	Honge	Retained
20	108	Tabubia	Retained
21	109	Tabubia	Retained
22	110	Honge	Retained
23	111	Honge	Retained
24	113	Mahagani	Retained
25	128	Akash mallige	Healthy
26	131	Akash mallige	Healthy
27	144	Akash mallige	Healthy
28	159	Akash mallige	Healthy
29	165	Akash mallige	Healthy
30	172	Akash mallige	Healthy
31	186	Akash mallige	Recently transloacted
32	187	Akash mallige	Recently transloacted
33	189	Akash mallige	Recently transloacted
34	194	Akash mallige	Recently transloacted
35	197	Akash mallige	Recently transloacted
	197 (a)	Akash mallige	

Sl No	Tree No.	Species Name	Condition of the trees
36	198	Akash mallige	Recently transloacted
37	212	Akash mallige	Recently transloacted
38	213	Akash mallige	Recently transloacted
39	218	Atthi mara	Healthy
40	219	Hoole matti	Healthy
41	220	Mahagani	New sproutes were not observed
42	223	Mahagani	Healthy
43	224	Mahagani	New sproutes were not observed
44	225	Hoole matti	Healthy
45	226	Mahagani	New sproutes were not observed
46	227	Mahagani	Healthy
47	231	Mahagani	Healthy
48	233	Shivane	Healthy
49	234	Mahagani	New sproutes were not observed
50	236	Ranjal	Healthy
51	238	Mahagani	New sproutes were not observed
52	239	Mahagani	New sproutes were not observed
53	243	Tabubia	Healthy
54	247	Akash mallige	Healthy
55	248	Akash mallige	Healthy
56	249	Tabubia	Healthy
57	262	Tabubia	Healthy
58	264	Mahagani	Healthy
59	266	Mahagani	Healthy
60	293	Tabubia	Healthy
61	294	Tabubia	Healthy
62	324	Honge	Healthy
63	325	Kadu badami	Healthy
64	326	Kadu badami	Healthy
65	327	Kadu badami	Healthy
66	329	Mahagani	New sproutes were not observed
67	332	Mahagani	Healthy
68	333	Mahagani	New sproutes were not observed
69	336	Akash mallige	Healthy
70	337	Akash mallige	Healthy
71	340	Atthi mara	New sproutes were not observed
	340 (a)	Atthi mara	
72	341	Honge	New sproutes were not observed
	341 (a)	Honge	
73	342	Atthi mara	Healthy
	342 (a)	Atthi mara	
	342 (b)	Atthi mara	

Sl No	Tree No.	Species Name	Condition of the trees
	342 (c)	Atthi mara	
74	344	Dali chandra	New sproutes were not observed
75	356	Alstromea macrophyllaia	Healthy
76	362	Dali chandra	Healthy
77	363	Alstromea macrophyllaia	Healthy
78	364	Dali chandra	Healthy
79	365	Alstromea macrophyllaia	Healthy
	365 (a)	Alstromea macrophyllaia	
80	366	Dali chandra	Healthy
81	367	Alstromea macrophyllaia	Healthy
82	369	Alstromea macrophyllaia	Healthy
83	371	Dali chandra	Healthy
84	373	Dali chandra	Healthy
85	382	Tabubia	Healthy
86	383	Tabubia	Healthy
87	384	Bhadrakshi	Healthy
88	387	Mahagani	Healthy
89	388	Tabubia	Healthy
90	389	Tabubia	Healthy
91	390	Mahagani	Healthy
92	393	Mahagani	New sproutes were not observed
93	394	Tabubia	Healthy
94	395	Mahagani	Healthy
95	399	Mahagani	Healthy
96	403	Dali chandra	Healthy
	403 (a)	Dali chandra	
97	404	Dali chandra	Healthy
98	406	Dali chandra	Healthy
99	407	Spathodia	Healthy
100	420	Dali chandra	Healthy
	420 (a)	Dali chandra	
	420 (b)	Dali chandra	
	420 (c)	Dali chandra	
101	421	Mahagani	New sproutes were not observed
	421 (a)	Mahagani	
102	424	Tabubia	Healthy
	424 (a)	Tabubia	
103	426	Tabubia	Healthy
104	427	Tabubia	Healthy
105	428	Mahagani	Healthy
106	429	Mahagani	Healthy
	429 (a)	Mahagani	

Sl No	Tree No.	Species Name	Condition of the trees
	429 (b)	Mahagani	
107	430	Mahagani	Healthy
108	432	Tabubia	Healthy
109	440	Dali chandra	Healthy
110	445	Tabubia	Healthy
111	446	Tabubia	Healthy
112	456	Tabubia	Healthy
	456 (a)	Tabubia	
113	459	Ealchi	Healthy
114	461	Dali chandra	New sproutes were not observed
	461 (a)	Dali chandra	
115	470	Dali chandra	Healthy
	470 (a)	Dali chandra	
	470 (b)	Dali chandra	
116	472	Rain tree	Healthy
117	475	Tabubia	Healthy
118	480	Honge	Healthy
119	482	Honge	Healthy
	482 (a)	Honge	
120	483	Honge	Healthy
121	485	Dali chandra	Healthy
122	488	Honge	Healthy
123	490	Honge	Healthy
124	491	Honge	Healthy
	491 (a)	Honge	
125	492	Honge	Healthy
	492 (a)	Honge	
	492 (b)	Honge	
	492 (c)	Honge	
126	493	Honge	Healthy
127	494	Honge	Healthy
	494 (a)	Honge	
128	495	Honge	Healthy
129	496	Honge	Healthy
130	498	Dali chandra	New sproutes were not observed
131	499	Dali chandra	New sproutes were not observed
132	501	Dali chandra	New sproutes were not observed
133	504	Mahagani	Healthy
134	507	Mahagani	Healthy
135	509	Honge	Healthy
136	513	Dali chandra	Healthy
137	520	Kadu hunase	Recently transloacted

Sl No	Tree No.	Species Name	Condition of the trees
138	523	Honge	Recently transloacted
	523 (a)	Honge	
139	619	Kadu hunase	Recently transloacted
140	621	Kadu hunase	Recently transloacted
	621 (a)	Kadu hunase	
141	671	Honge	Recently transloacted
142	685	Kadu hunase	Recently transloacted
143	698	Honge	Recently transloacted
	698 (a)	Honge	
144	702	Honge	Recently transloacted
145	708	Rain tree	Recently transloacted
146	709	Honge	Recently transloacted
147	715	Honge	Recently transloacted
148	716	Honge	Recently transloacted
149	718	Honge	Recently transloacted
150	719	Honge	Recently transloacted
151	722	Honge	Healthy
152	723	Honge	Healthy
153	724	Tabubia	Healthy
154	725	Tabubia	Healthy
	725 (a)	Tabubia	
155	726	Honge	Recently transloacted
156	727	Honge	New sproutes were not observed
157	728	Tabubia	Healthy
	728 (a)	Tabubia	
158	729	Honge	Healthy
159	731	Rain tree	Healthy
160	732	Honge	Healthy
161	733	Honge	Healthy
162	734	Honge	Healthy
163	735	Honge	Healthy
164	736	Honge	Healthy
165	737	Subabul	Healthy
166	743	Tabubia	Healthy
167	748	Tabubia	Healthy
168	752	Honge	Healthy
169	766	Arali	Healthy
	766 (a)	Arali	
	766 (b)	Arali	
170	770	Honge	Recently transloacted

Sl No	Tree No.	Species Name	Condition of the trees
171	771	Honge	Recently transloacted
172	774	Honge	Healthy
	774 (a)	Honge	
173	775	Honge	Healthy
	775 (a)	Honge	
174	776	Honge	Healthy
	776 (a)	Honge	
175	778	Honge	Healthy
176	779	Honge	Healthy
177	780	Honge	Healthy
	780 (a)	Honge	
178	781	Honge	Healthy
179	782	Honge	Healthy
	782 (a)	Honge	
180	783	Honge	Healthy
	783 (a)	Honge	
181	784	Honge	Healthy
	784 (a)	Honge	
182	785	Honge	Healthy
183	786	Honge	Healthy
184	787	Honge	Healthy
185	788	Honge	Healthy
186	789	Honge	Healthy
187	790	Honge	Healthy
188	791	Honge	Healthy
	791 (a)	Honge	
189	792	Honge	New sproutes were not observed
190	793	Honge	Healthy
191	794	Honge	Healthy
192	795	Honge	New sproutes were not observed
	795 (a)	Honge	
193	796	Honge	Healthy
194	798	Honge	Recently transloacted
	798 (a)	Honge	
195	799	Neelgiri	Recently transloacted
196	801	Honge	New sproutes were not observed
	801 (a)	Honge	
	801 (b)	Honge	
197	802	Hippe	Healthy
198	809	Rain tree	New sproutes were not observed
	809 (a)	Rain tree	
	809 (b)	Rain tree	

Sl No	Tree No.	Species Name	Condition of the trees
199	812	Rain tree	Healthy
200	813	Rain tree	Healthy
	813 (a)	Rain tree	
201	815	Honge	Healthy
	815 (a)	Honge	
202	816	Honge	Healthy
203	819	Rain tree	Healthy
204	820	Rain tree	Healthy
205	821	Rain tree	Healthy
206	822	Honge	Healthy
	822 (a)	Honge	
207	823	Honge	Healthy
208	825	Honge	Healthy
209	826	Honge	Healthy
210	827	Honge	Healthy
	827 (a)	Honge	
211	832	Tabubia	Healthy
212	833	Tabubia	Healthy

PHASE 2 A Package 1 Translocation site


Latitude: 12.916005
Longitude: 77.658737
Elevation: 1004.59m
Accuracy: 2.2m
Time: 12-09-2022 15:05
Note: ASC NORTH 822


Latitude: 12.923978
Longitude: 77.656042
Elevation: 977.25m
Accuracy: 2.7m
Time: 12-09-2022 13:04
Note: CMP IBLUR 774


Latitude: 12.92347
Longitude: 77.656895
Elevation: 979.55m
Accuracy: 2.9m
Time: 12-09-2022 12:08
Note: CMP IBLUR 04


Latitude: 12.923778
Longitude: 77.656395
Elevation: 981.85m
Accuracy: 3.0m
Time: 12-09-2022 12:09
Note: CMP IBLUR 09

Compensatory Plantation at Hi tech defence and aerospace park, Hoovinayakana Halli, KIADB			
OM dated 26.11.2022 court premission date: 23.12.2021 **Location: Hi tech defence and aerospace park, Hoovinayakana Halli, KIADB - 4490 trees**			
Sl.No	**Name of the Saplings**	**Number of saplings planted**	**Remarks**
1	Amla	100	Supplied are Healthy
2	Tamarind	198	dump type - In the
3	Jackfruit	275	Range of 1-5' Ht
	Monkey jack fruit	200	1 feet Ht
4	Indian almond	289	1-2' growth
5	Basavanapada	117	1-2'
6	Gooseberry Tree	86	1-2
7	Tabeuia rosea	358	1-2
8	Akasha Mallige	128	1-2
9	Hole Dasvala	181	1-2
10	Hole mathi	287	1-2
11	hoorasi	150	1 feet
12	Nagalinga Pushpa	245	1-3 feet
13	Spathodea	165	1-3 feet
14	Kadambamara	151	1 feet
15	Mahogany	316	1 feet
16	Champaka Mara	176	
17	Ala	50	1 feet
18	Aralimara	100	1 feet
19	Neralemara	318	
20	Neem	110	1 feet
21	Mango	80	½-1 feet
22	Honge	50	1-2 ft
23	Thare	40	1 feet
24	Antuvala	40	1 feet
25	Atti	80	1 feet
27	Goni mara	15	1 feet
28	Basari	100	1
29	Shivane mara	45	
30	Tebebuia Avalaneda	40	1 feet
	Total	**4490**	

G.N. Manjunath
ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.,
Shanthinagar, Bengaluru

Compensatory Plantation at Nadaprabhu kempegowda layout, Bengaluru

OM dated 26.11.2022 court premission date: 23.12.2021
Location: Nadaprabhu kempegowda layout, Bengaluru- 3400 trees

Sl.No	Name of the Saplings	Number of saplings planted	Remarks
1	Akasha mallige	80	Healthy, 8-12 ft
2	Ala	85	—"— 8-10 ft
3	Amla	100	—"— 8-10 ft
4	Arali	80	—"— 8-11 ft
5	Basari	50	Healthy, 8-10 ft
6	Basavanapada	160	Healthy, 8-12 ft
7	Beete	70	Healthy, 8-9 ft
8	Bevu	40	Healthy 8-10 ft
9	Champaka	80	Healthy 8-10 ft
10	Halasu	150	Healthy 8-9 ft
11	Hole dasaavala	40	Healthy 8-10 ft
12	Honge	170	Healthy 8-10 ft
13	Honne	70	Healthy 8-10 ft
14	Hunase	190	Healthy 8-10 ft
15	Huvarasi	175	Healthy 8-10 ft
16	Kadamba	30	Healthy 8-10 ft
17	Kadu badami	260	Healthy 8-10 ft
18	Mahagani	300	Healthy 8-12 ft
19	Mango	80	Healthy 8-10 ft
20	Nagalinga Pushpa	125	Healthy 8-10 ft
21	Neem	30	Healthy 8-10 ft
22	Nelli	100	Healthy 8-10 ft
23	Nerale	200	Healthy 8-10 ft
24	Sampige	70	Healthy 8-10 ft
25	Spathodia	130	Healthy 8-10 ft
26	Tabubia Avalanda	70	Healthy 8-10 ft
27	Tabubia Rosia	245	Healthy 8-12 ft
28	Thore mathi	220	Healthy 8-10 ft
	Total	**3400**	

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.,
Shanthinagar, Bengaluru


Oct 9, 2022 4:52:25 PM
Kengeri Satellite Town
Bengaluru
Bangalore Urban
Karnataka


Oct 9, 2022 4:53:24 PM
Unnamed Road
Kommaghatta - Krishnasagara
Bangalore Urban
Karnataka


Oct 9, 2022 11:41:44 AM
Bheemanakuppe
Bangalore Urban
Karnataka


Oct 9, 2022 4:57:11 PM
Unnamed Road
Kommaghatta - Krishnasagara
Bangalore Urban
Karnataka


Oct 9, 2022 11:08:03 AM
Kommaghatta - Krishnasagara
Bangalore Urban
Karnataka


Oct 9, 2022 11:07:58 AM
Kommaghatta - Krishnasagara
Bangalore Urban
Karnataka


Oct 8, 2022 3:46:18 PM
Anchepalya
Bengaluru
Bangalore Urban
Karnataka


Oct 9, 2022 11:08:14 AM
Kommaghatta - Krishnasagara
Bangalore Urban
Karnataka

Quarterly report on implementation of Official Memorandum dated 10.12.2021 (Kodibeesenahalli to K R Puram Package 2 (ORR)) by Bengaluru Metro Rail Corporation Limited

Name of the project	: 2A Package 2 (ORR) of Bangalore Metro Rail Project Construction
Location of the project	: Between Kodibeesenahalli to K R Puram
OM issued date by the Tree Officer, BBMP	: **10.12.2021**
Court Permission Date	: **09.02.2022**

Details of the OM dtd. 26.11.2021:

Total number of trees removed	: 1026 No. Trees
Total Number of Trees Recommended for the Retention on site	: Nil
Total Number of Trees Recommended for the Translocation on site	: 484 No. Trees
Number of Trees Recommended for the Felling on site	: 542 No. Trees

Details of Translocation:

Agency entrusted for the tree translocation	: Blue Grass Landscapers Under SNC Pvt Ltd
Location of Receptor site	: 1. Bagamane Tech park=138/138 2. Bhoganhalli lake area =38/47 3. Thubarahalli lake area =132/140 4. Nallurahalli lake area =158/159
Total number of trees to be translocated as per OM dtd.	: **484 No. Trees**
Translocation completed Month and Year	: **Dec 2022**
Total number of tree translocation completed	: **466 No. Trees**
Total number of tree translocation balance	: **18 No. Trees**
Total number of trees observed with survival Symptoms	: **399 No. Trees**

Total number of trees not encounter with any type of survival symptoms	: **67 No. Trees**
Procedure of agency selection	: Competitive bidding as per the KTTP ACT 1999
Methodology adopted for the tree translocation	: Root Ball Method as per the UAS, GKVK, guidelines 2020
Supervision of translocation by BMRCL	:Environmental officer (SEMU), Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU, Asst. Engineer (Civil) 2A Package 1, BMRCL and Asst. Engineer (Civil), AFCONS PVT. LTD.
Officers in-charge for tree translocation By BMRCL	: ED-Civil, GM (SEMU), Chief Engineer (2A Package 1-ORR), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU), AE (Civil) 2A Package 1 and Asst. Engineer (Civil), AFCONS.
Supervision by Forest Dept.	: BBMP Tree Officer or Officer Deputed by Tree Officer BBMP

Details of compensatory Plantation:

BMRCL has issued notification inviting tenders for raising and maintenance of saplings on 20.09.2022.

As per the KTPP Act 1999, BMRCL has fixed the timeline of 25 days for submission of tenders from the date of tender publication in newspapers and BMRCL website.

A. TREE TRANSLOCATION

A1. Competent Agency Selected for Translocation: Bangalore Metro Rail Corporation Limited Engaged Blue Grass Landscapers Under SNC Pvt Ltd for tree Translocation and maintenance for a period of 3 years. BMRCL has entered an agreement with Blue Grass Landscapers Under SNC Pvt Ltd

A2. Survival Rate of transplanted trees as per the official memorandum: The transplanted tree needs to be observed frequently for its survival, growth, pests, diseases and other physiological symptoms/expressions. It is possible to witness temporary wilting of leaves for few days, leaf fall also can happen and the tree may even decide to go in for 'Transitory

Dormancy' phase, to avoid moisture loss and desiccation. But can show revival symptoms within six months like, new sprouts, turgid leaves, arrest of leaf fall, etc., It is also possible that sometimes, there will be a 'Distress' reaction in the form of premature flowering and fruiting. Also, some trees will exhibit new sprouts within few weeks which may be due to the presence of adequate stored food reserves. Under such circumstances, the new sprouts will not survive for a long and may wither soon. If the tree has not acclimatized, then there will not be any revival symptoms. It should be kept in mind that the transplanted tree has to withstand the tests of at least one years (covering all the three seasons) to declare it as 'surviving or successful'. Hence, any premature conclusions and certifications are being restrained.

From Feb 2022 BMRCL has translocated 466 trees which are given way for the metro construction. Morphological characteristics showing the survival symptoms likes leaf buds, leaf initiation, new shoots, tree branchlets, flowers and new leaves were observed in the 399 translocated trees are responding to the translocation shock and trying to adopt for the new location and surrounding microclimate. Remaining 67 no. translocated trees have not encountered with any survival symptoms hence they were kept in the observation.

A4. Maintenance of Transplanted trees:

A4.1 Time period: The plantation has maintained for a period of three years form the date of completion of transplantation.

A4.2 Plantation activities under taken in the present quarter:

Weeding:

Removal of the weeds has been carried out from Nov 2022 to Dec 2022 at receptor sites.

Soil works: Hoeing and other soil works has been started in Dec 2022, still work is in progress.

Saucer Bharav:

Preparation of Saucer Bharav for the saplings has been started from Dec 2022, still is in progress.

Watering: Due to heavy rains in the Bengaluru no watering activity has carried out in quarter Oct to Dec 2022 in the receptor site.

Quarterly Report Oct to Dec 2022 **3rd Quarter**

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. 466 No. trees were translocated from April to Dec 2022.	1. Maintenance of 466 transplanted trees is in progress.. 2. Compensatory afforestation tender notification has been issued on 20.09.2022 and plantation work is in progress.

C. Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till Dec 2022	Balance	Remarks
1.	Tree translocation	484	466	18	Transplantation of 18 trees is in progress
2.	Compensatory plantation	1026	0	1026	Tender notification issued on 20.09.2022

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter Oct, Nov & Dec 2022 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

Divya S Hosur

General Manager,
SEMU-BMRCL

Divya S Hosur
General Manager
Social & Environmental Management Unit (SEMU)
Bangalore Metro Rail Corporation Ltd.
3rd Floor, BMTC Complex, K.H. Road
Shanthinagar, Bengaluru - 560 027

Status of Translocated trees pertaining to OM dated 26.11.2021 Location: Bagamane Tech Park				
Si No	**Tree No**	**Species**	**Condition of Tree**	**Location**
1	690	Tabubia Rosea	Healthy	Rio
2	700	Tabubia Rosea	Healthy	Rio
3	702	Tabubia Rosea	Healthy	Rio
4	829	Tabubia Rosea	Healthy	Rio
5	743	Tabubia Rosea	Healthy	Rio
6	691	Tabubia Rosea	Healthy	Rio
7	758	Tabubia Rosea	Healthy	Rio
8	684	Tabubia Rosea	Healthy	Rio
9	699	Tabubia Rosea	Healthy	Rio
10	689	Tabubia Rosea	Healthy	Rio
11	764	Tabubia Rosea	Healthy	Rio
12	682	Tabubia Rosea	Healthy	Rio
13	442	Tabubia Rosea	Healthy	Rio
14	512	Tabubia Rosea	Healthy	Rio
15	519	Tabubia Rosea	New sprots were not observed	Rio
16	926	Tabubia Rosea	Healthy	Rio
17	958	Tabubia Rosea	Healthy	Rio
18	941	Tabubia Rosea	Healthy	Rio
19	944	Tabubia Rosea	Healthy	Rio
20	953	Tabubia Rosea	Healthy	Rio
21	945	Tabubia Rosea	Healthy	Rio
22	946	Tabubia Rosea	Healthy	Rio
23	948	Tabubia Rosea	Healthy	Rio
24	950	Tabubia Rosea	Healthy	Rio
25	936	Tabubia Rosea	Healthy	Rio
26	968	Tabubia Rosea	Healthy	Rio
27	954	Tabubia Rosea	Healthy	Rio
28	961	Tabubia Rosea	Healthy	Rio
29	964	Tabubia Rosea	Healthy	Rio

30	962	Tabubia Rosea	Healthy	Rio
31	957	Tabubia Rosea	Healthy	Rio
32	916	Tabubia Rosea	Healthy	Rio
33	967	Tabubia Rosea	Healthy	Rio
34	966	Tabubia Rosea	Healthy	Rio
35	921	Tabubia Rosea	Healthy	Rio
36	919	Tabubia Rosea	Healthy	Rio
37	912	Tabubia Rosea	Healthy	Rio
38	979	Tabubia Rosea	Healthy	Rio
39	978	Tabubia Rosea	Healthy	Rio
40	900	Tabubia Rosea	Healthy	Rio
41	824	Tabubia Rosea	Healthy	Rio
42	825	Tabubia Rosea	Healthy	Rio
43	820	Tabubia Rosea	Healthy	Rio
44	910	Tabubia Rosea	Healthy	Rio
45	923	Tabubia Rosea	Healthy	Rio
46	883	Tabubia Rosea	Healthy	Rio
47	902	Tabubia Rosea	Healthy	Rio
48	915	Tabubia Rosea	Healthy	Rio
49	925	Tabubia Rosea	Healthy	Rio
50	971	Tabubia Rosea	Healthy	Rio
51	900	Tabubia Rosea	Healthy	Rio
52	965	Tabubia Rosea	Healthy	Rio
53	922	Tabubia Rosea	Healthy	Rio
54	717	Tabubia Rosea	Healthy	Gold Stone
55	732	Tabubia Rosea	Healthy	Gold Stone
56	720	Tabubia Rosea	Healthy	Gold Stone
57	724	Tabubia Rosea	Healthy	Gold Stone
58	432	Tabubia Rosea	Healthy	Gold Stone
59	722	Tabubia Rosea	Healthy	Gold Stone
60	710	Tabubia Rosea	Healthy	Gold Stone

61	440	Tabubia Rosea	Healthy	Gold Stone
62	430	Tabubia Rosea	Healthy	Gold Stone
63	734	Tabubia Rosea	Healthy	Gold Stone
64	731	Tabubia Rosea	Healthy	Gold Stone
65	893	Tabubia Rosea	Healthy	Amber
66	896	Tabubia Rosea	Healthy	Amber
67	894	Tabubia Rosea	Healthy	Amber
68	897	Tabubia Rosea	Healthy	Amber
69	899	Tabubia Rosea	Healthy	Amber
70	783	Tabubia Rosea	Healthy	Amber
71	784	Tabubia Rosea	Healthy	Amber
72	794	Tabubia Rosea	Healthy	Amber
73	787	Tabubia Rosea	Healthy	Amber
74	898	Tabubia Rosea	Healthy	Amber
75	980	Tabubia Rosea	Healthy	CPD
76	818	Tabubia Rosea	Healthy	CPD
77	821	Tabubia Rosea	Healthy	CPD
78	474	Tabubia Rosea	Healthy	CPD
79	478	Tabubia Rosea	Healthy	CPD
80	913	Tabubia Rosea	Healthy	CPD
81	820	Tabubia Rosea	Healthy	CPD
82	819	Tabubia Rosea	Healthy	CPD
83	612	Tabubia Rosea	Healthy	Luxor
84	757	Tabubia Rosea	Healthy	Luxor
85	775	Tabubia Rosea	Healthy	Luxor
86	777	Tabubia Rosea	Healthy	Luxor
87	778	Tabubia Rosea	Healthy	Luxor
88	611	Tabubia Rosea	Healthy	Luxor
89	670	Tabubia Rosea	Healthy	Luxor
90	685	Tabubia Rosea	Healthy	Luxor
91	698	Tabubia Rosea	Healthy	Luxor
92	748	Tabubia Rosea	Healthy	Luxor

93	664	Tabubia Rosea	Healthy	Luxor
94	657	Tabubia Rosea	Healthy	Luxor
95	656	Tabubia Rosea	Healthy	Luxor
96	645	Tabubia Rosea	Healthy	Luxor
97	629	Tabubia Rosea	Healthy	Luxor
98	628	Tabubia Rosea	Healthy	Luxor
99	623	Tabubia Rosea	Healthy	Luxor
100	617	Tabubia Rosea	Healthy	Luxor
101	610	Tabubia Rosea	Healthy	Kyoto
102	600	Tabubia Rosea	Healthy	Kyoto
103	585	Tabubia Rosea	Healthy	Kyoto
104	588	Tabubia Rosea	Healthy	Kyoto
105	590	Tabubia Rosea	Healthy	Kyoto
106	594	Tabubia Rosea	Healthy	Kyoto
107	595	Tabubia Rosea	Healthy	Kyoto
108	568	Tabubia Rosea	Healthy	Kyoto
109	569	Tabubia Rosea	Healthy	Kyoto
110	572	Tabubia Rosea	Healthy	Kyoto
111	574	Tabubia Rosea	Healthy	Kyoto
112	582	Tabubia Rosea	Healthy	Kyoto
113	565	Tabubia Rosea	Healthy	Kyoto
114	563	Tabubia Rosea	Healthy	Kyoto
115	559	Tabubia Rosea	Healthy	Kyoto
116	557	Tabubia Rosea	Healthy	Kyoto
117	556	Tabubia Rosea	Healthy	Kyoto
118	544	Tabubia Rosea	Healthy	Kyoto
119	545	Tabubia Rosea	Healthy	Kyoto
120	546	Tabubia Rosea	Healthy	Kyoto
121	547	Tabubia Rosea	Healthy	Kyoto
122	548	Tabubia Rosea	Healthy	Kyoto
123	507	Tabubia Rosea	Healthy	Kyoto
124	505	Tabubia Rosea	New sprots were not observed	Kyoto
125	506	Tabubia Rosea	Healthy	Kyoto
126	508	Tabubia Rosea	Healthy	Kyoto

127	510	Tabubia Rosea	New sprots were not observed	Kyoto
128	518	Tabubia Rosea	Healthy	Kyoto
129	527	Tabubia Rosea	Healthy	Rome
130	532	Tabubia Rosea	Healthy	Rome
131	536	Tabubia Rosea	Healthy	Rome
132	537	Tabubia Rosea	Healthy	Rome
133	444	Tabubia Rosea	Healthy	Rome
134	523	Tabubia Rosea	Healthy	Rome
135	526	Tabubia Rosea	Healthy	Rome
136	531	Tabubia Rosea	Healthy	Rome
137	530	Tabubia Rosea	Healthy	Rome
138	533	Tabubia Rosea	Healthy	Rome

Status of Translocated trees pertaining to OM dated 26.11.2021 Location:Boganahalli BBMP			
Si No	Tree No	Species Name	Condition of Tree
1	4	Tabubia Rosea	Healthy
2	5	Huvarasi	Healthy
3	6	Tabubia Rosea	Healthy
4	42	Tabubia Rosea	Healthy
5	45	Tabubia Rosea	Healthy
6	52	Tecoma	Healthy
7	54	Honge	Healthy
8	56	Tecoma	Healthy
9	57	Tabubia Rosea	Healthy
10	59	Tabubia Rosea	Healthy
11	61	Tabubia Rosea	Healthy
12	64	Tabubia Rosea	Healthy
13	65	Huvarasi	Healthy
14	66	Tabubia Rosea	Healthy
15	71	Tabubia Rosea	Healthy
16	73	Tabubia Rosea	Healthy
17	74	Tecoma	Healthy
18	75	Tecoma	Healthy
19	76	Tabubia Rosea	Healthy
20	77	Tecoma	Healthy
21	78	Tabubia Rosea	Healthy
22	80	Tabubia Rosea	Healthy
23	81	Tecoma	Healthy
24	82	Tabubia Rosea	Healthy
25	85	Tabubia Rosea	Healthy

26	89	Tabubia Rosea	Healthy
27	94	Tabubia Rosea	Healthy
28	98	Tabubia Rosea	Healthy
29	100	Tabubia Rosea	Healthy
30	104	Tabubia Rosea	Healthy
31	108	Tabubia Rosea	Healthy
32	110	Tabubia Rosea	Healthy
33	112	Tabubia Rosea	Healthy
34	116	Tabubia Rosea	Healthy
35	118	Akasha Mallige	Healthy
36	119	Tabubia Rosea	Healthy
37	121	Tabubia Rosea	Healthy
38	92	Honge	New Sproutes were not observed

Status of Translocated trees pertaining to OM dated 26.11.2021 Location:Thuberhalli lake			
Si NO	**Tree No**	**Species**	**Condition of the tree**
1	125	Tabubia Rosea	Healthy
2	126	Tabubia Rosea	Healthy
3	129	Tabubia Rosea	Healthy
4	131	Tabubia Rosea	Healthy
5	133	Tabubia Rosea	Healthy
6	135	Tabubia Rosea	Healthy
7	137	Tabubia Rosea	Healthy
8	140	Tabubia Rosea	New sprotes were not observed
9	142	Tabubia Rosea	Healthy
10	143	Tabubia Rosea	Healthy
11	145	Tabubia Rosea	Healthy
12	148	Tabubia Rosea	Healthy
13	153	Tabubia Rosea	Healthy
14	155	Tabubia Rosea	Healthy
15	158	Tabubia Rosea	Healthy
16	164	Sihi Hunase	Healthy
17	166	Sihi Hunase	Healthy
18	170	Tabubia Rosea	Healthy
19	176	Tabubia Rosea	Healthy
20	180	Tabubia Rosea	Healthy
21	183	Tabubia Rosea	Healthy
22	187	Tabubia Rosea	Healthy
23	215	Tabubia Rosea	Healthy
24	217	Tabubia Rosea	Healthy
25	219	Honge	Healthy
26	223	Tabubia Rosea	Healthy
27	243	Tabubia Rosea	Healthy
28	245	Tabubia Rosea	Healthy
29	246	Elachi	New sprotes were not observed
30	247	Huvarasi	Healthy
31	248	Tabubia Rosea	Healthy
32	250	Tabubia Rosea	Healthy
33	254	Tabubia Rosea	Healthy
34	256	Tabubia Rosea	Healthy
35	258	Tabubia Rosea	Healthy
36	260	Tabubia Rosea	Healthy
37	263	Tabubia Rosea	Healthy
38	264	Huvarasi	Healthy
39	265	Tabubia Rosea	Healthy
40	267	Honge	Healthy
41	269	Tabubia Rosea	Healthy
42	271	Tabubia Rosea	Healthy
43	273	Tabubia Rosea	Healthy

44	275	Tabubia Rosea	Healthy
45	277	Tabubia Rosea	Healthy
46	281	Tabubia Rosea	Healthy
47	284	Tabubia Rosea	Healthy
48	286	Tabubia Rosea	Healthy
49	288	Tabubia Rosea	Healthy
50	291	Tabubia Rosea	Healthy
51	297	Tabubia Rosea	Healthy
52	299	Tabubia Rosea	Healthy
53	301	Tabubia Rosea	Healthy
54	305	Huvarasi	Healthy
55	308	Tabubia Rosea	Healthy
56	312	Tabubia Rosea	Healthy
57	314	Tabubia Rosea	Healthy
58	316	Honge	New sprotes were not observed
59	320	Tabubia Rosea	Healthy
60	321	Tabubia Rosea	New sprotes were not observed
61	322	Tabubia Rosea	Healthy
62	325	Tabubia Rosea	New sprotes were not observed
63	327	Tabubia Rosea	New sprotes were not observed
64	329	Tabubia Rosea	New sprotes were not observed
65	331	Tabubia Rosea	Healthy
66	333	Tabubia Rosea	Healthy
67	335	Tabubia Rosea	Healthy
68	337	Tabubia Rosea	New sprotes were not observed
69	339	Tabubia Rosea	Healthy
70	341	Tabubia Rosea	Healthy
71	343	Tabubia Rosea	Healthy
72	345	Tabubia Rosea	Healthy
73	347	Tabubia Rosea	Healthy
74	351	Tabubia Rosea	Healthy
75	353	Tabubia Rosea	Healthy
76	451	Honge	Healthy
77	455	Akash Mallige	Healthy
78	457	Honge	New sprotes were not observed
79	459	Ala	New sprotes were not observed
80	462	Mahagani	Healthy
81	468	Kadu Badami	New sprotes were not observed
82	469	Kadu Badami	Healthy
83	472	Mahagani	Healthy
84	473	Kadu Jathi	Healthy
85	476	Kadu Jathi	Healthy
86	477	Bagane	New sprotes were not observed
87	480	Sandal	New sprotes were not observed
88	481	Bagane	Healthy
89	486	Spethodia	Healthy
90	487	Peltofarm	Healthy
91	489	Sandal	New sprotes were not observed

92	490	Kadamba	New sprotes were not observed
93	492	Spethodia	Healthy
94	493	Maddale	New sprotes were not observed
95	494	Maddale	Healthy
96	495	Mahagani	New sprotes were not observed
97	496	Spethodia	Healthy
98	509	Mahagani	Healthy
99	515	Honge	Healthy
100	517	Honge	Healthy
101	522	Neem	Healthy
102	524	Gulmohar	Healthy
103	525	Gulmohar	New sprotes were not observed
104	539	Mahagani	Healthy
105	540	Mahagani	Healthy
106	550	Gulmohar	New sprotes were not observed
107	551	Neem	New sprotes were not observed
108	553	Mahagani	Healthy
109	555	Honge	Healthy
110	564	Gulmohar	New sprotes were not observed
111	566	Honge	Healthy
112	576	Neem	New sprotes were not observed
113	580	Mahagani	Healthy
114	581	Neem	New sprotes were not observed
115	583	Mahagani	Healthy
116	584	Akash Mallige	Healthy
117	591	Akash Mallige	New sprotes were not observed
118	592	Neem	Healthy
119	593	Kadu Jathi	New sprotes were not observed
120	596	Honge	Healthy
121	598	Gulmohar	Healthy
122	601	Honge	New sprotes were not observed
123	608	Mahagani	New sprotes were not observed
124	614	Akash Mallige	Healthy
125	616	Akash Mallige	New sprotes were not observed
126	621	Akash Mallige	Healthy
127	624	Akash Mallige	Healthy
128	626	Akash Mallige	New sprotes were not observed
129	630	Akash Mallige	Healthy
130	631	Akash Mallige	Healthy
131	633	Akash Mallige	Healthy
132	636	Mahagani	Healthy

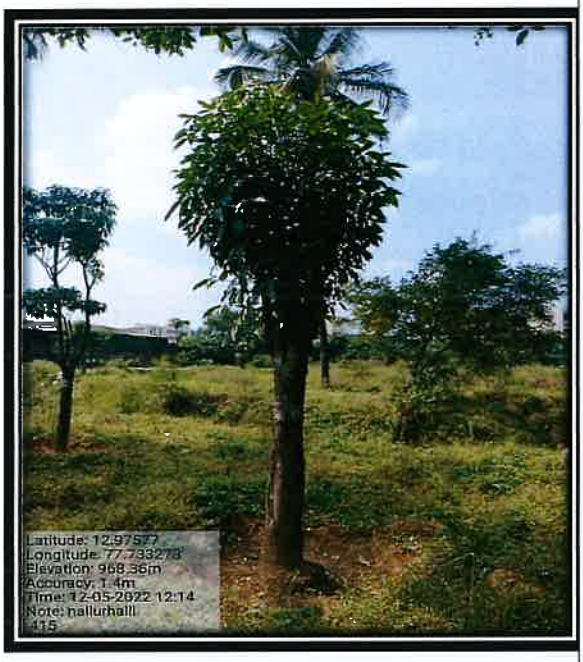
Status of Translocated trees pertaining to OM dated 26.11.2021 Location: Nallur halli lake			
Si No	**Tree No**	**Species**	**Condition of the Tree**
1	376	Tabubuia rosea	New sproutes were not observed
2	663	Nerale	New sproutes were not observed
3	666	Nerale	New sproutes were not observed
4	714	Mahagani	New sproutes were not observed
5	723	Mahagani	New sproutes were not observed
6	728	Mahagani	New sproutes were not observed
7	736	Mahagani	New sproutes were not observed
8	737	Mahagani	New sproutes were not observed
9	753	Mahagani	New sproutes were not observed
10	802	Atti mara	New sproutes were not observed
11	805	Kadu badami	New sproutes were not observed
12	806	Arali	New sproutes were not observed
13	807	Atti mara	New sproutes were not observed
14	816	Huvarasi	New sproutes were not observed
15	827	Toremattі	New sproutes were not observed
16	833	Mahagani	New sproutes were not observed
17	850	Honge	New sproutes were not observed
18	885	Tecoma	New sproutes were not observed
19	886	Mahagani	New sproutes were not observed
20	932	Huvarasi	New sproutes were not observed
21	939	Honge	New sproutes were not observed
22	977	Honge	New sproutes were not observed
23	1012	Atti mara	New sproutes were not observed
24	1026	Rain Tree	New sproutes were not observed
25	801	honge	New sproutes were not observed
26	814	Mahagani	New sproutes were not observed
27	853	Honge	New sproutes were not observed
28	856	Honge	New sproutes were not observed
29	914	Jackarand	New sproutes were not observed
30	942	Gulmohar	New sproutes were not observed
31	1020	Sihi Hunase	New sproutes were not observed
32	843	Tecoma	New sproutes were not observed
33	366	Tabubuia rosea	New sproutes were not observed
34	357	Huvarsi	Healthy
35	358	Tabubuia rosea	Healthy
36	359	Tabubuia rosea	Healthy
37	361	Tabubuia rosea	Healthy
38	363	Tabubuia rosea	Healthy
39	368	Tabubuia rosea	Healthy
40	370	Tabubuia rosea	Healthy
41	372	Tabubuia rosea	Healthy
42	374	Tabubuia rosea	Healthy
43	375	Huvarsi	Healthy
44	379	Tabubuia rosea	Healthy

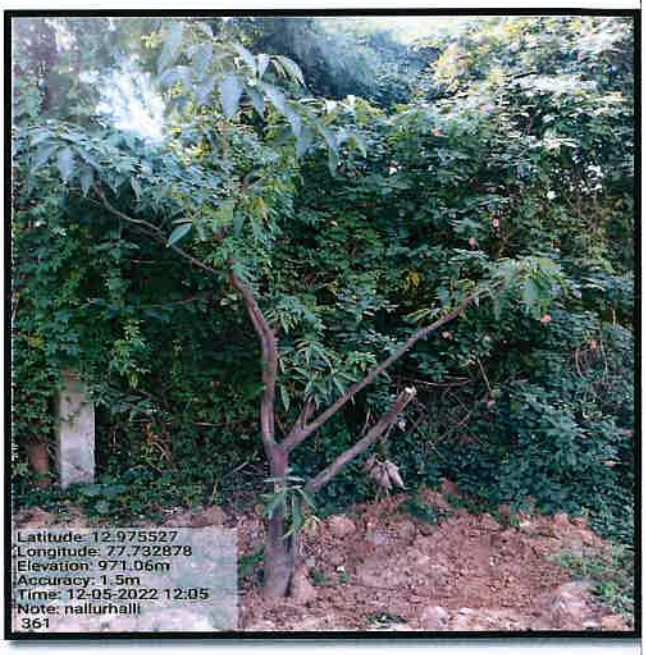
45	380	Huvarsi	Healthy
46	381	Tabubuia rosea	Healthy
47	383	Tabubuia rosea	Healthy
48	384	Huvarsi	Healthy
49	385	Tabubuia rosea	Healthy
50	387	Tabubuia rosea	Healthy
51	389	Huvarsi	Healthy
52	390	Tabubuia rosea	Healthy
53	401	Huvarsi	Healthy
54	407	Tabubuia rosea	Healthy
55	409	Tabubuia rosea	Healthy
56	410	Huvarsi	Healthy
57	411	Tabubia rosea	Healthy
58	413	Tabubia rosea	Healthy
59	415	Tabubia rosea	Healthy
60	419	Tabubia rosea	Healthy
61	420	Tabubia rosea	Healthy
62	421	Tabubia rosea	Healthy
63	426	Mahagani	Healthy
64	427	Tabubuia rosea	Healthy
65	428	Tabubuia rosea	Healthy
66	431	Mahagani	Healthy
67	433	Honge	Healthy
68	435	Honge	Healthy
69	443	Honge	Healthy
70	639	Tecoma	Healthy
71	643	Tecoma	Healthy
72	660	Tecoma	Healthy
73	662	Tecoma	Healthy
74	665	Mahagani	Healthy
75	669	Honge	Healthy
76	671	Nerale	Healthy
77	673	Tecoma	Healthy
78	688	Tecoma	Healthy
79	696	Tecoma	Healthy
80	701	Honge	Healthy
81	711	Mahagani	New sproutes were not observed
82	712	Gulmohar	Healthy
83	713	Mahagani	Healthy
84	726	Mahagani	Healthy
85	733	Akash mallige	Healthy
86	739	Mahagani	Healthy
87	741	Mahagani	Healthy
88	745	Mahagani	Healthy
89	746	Akash mallige	Healthy
90	747	Mahagani	Healthy
91	750	Mahagani	Healthy

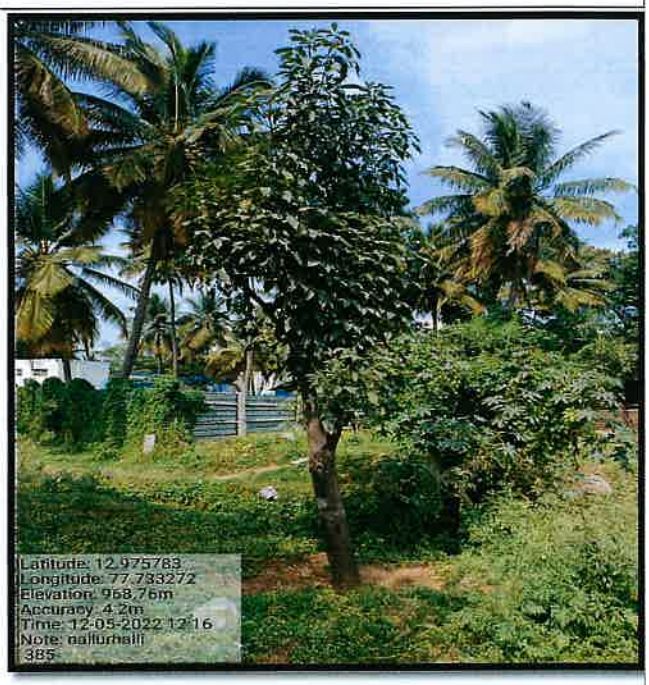
92	751	Mahagani	Healthy
93	752	Akash mallige	Healthy
94	759	Mahagani	Healthy
95	760	Akash mallige	Healthy
96	763	Akash mallige	Healthy
97	770	Mahagani	Healthy
98	773	Mahagani	Healthy
99	780	Tabubuia rosea	Healthy
100	788	Mahagani	Healthy
101	789	Gulmohar	Healthy
102	790	Akash mallige	Healthy
103	793	Kadujathi	Healthy
104	796	Kadujathi	Healthy
105	798	Honge	Healthy
106	799	Torematti	Healthy
107	803	Kadu badami	Healthy
108	804	Arali	Healthy
109	809	Kadujathi	Healthy
110	811	Kadujathi	Healthy
111	812	Kadu badami	Healthy
112	813	Kadu badami	Healthy
113	815	Mahagani	Healthy
114	834	Tecoma	Healthy
115	835	Honge	Healthy
116	836	Mahagani	Healthy
117	839	Mahagani	Healthy
118	845	Mahagani	Healthy
119	847	Tecoma	Healthy
120	852	Tecoma	Healthy
121	855	Mahagani	Healthy
122	858	Tecoma	Healthy
123	861	Tecoma	Healthy
124	863	Mahagani	Healthy
125	866	Mahagani	Healthy
126	867	Tecoma	Healthy
127	868	Honge	Healthy
128	869	Mahagani	Healthy
129	870	Tecoma	Healthy
130	871	Honge	Healthy
131	872	Mahagani	Healthy
132	873	Mahagani	Healthy
133	877	Mahagani	Healthy
134	881	Mahagani	Healthy
135	882	Tecoma	Healthy
136	884	Tecoma	Healthy
137	888	tecoma	Healthy
138	889	Mahagani	Healthy

139	901	Gulmohar	Healthy
140	903	Gulmohar	Healthy
141	907	Gulmohar	Healthy
142	924	Huvarsi	Healthy
143	931	Huvarsi	Healthy
144	934	Gulmohar	Healthy
145	938	Huvarsi	Healthy
146	943	Huvarsi	Healthy
147	947	Gulmohar	Healthy
148	951	Huvarsi	Healthy
149	956	Gulmohar	Healthy
150	959	Huvarsi	Healthy
151	960	Gulmiohar	Healthy
152	976	Akash mallige	Healthy
153	985	Ficus	Healthy
154	992	Kadujathi	Healthy
155	999	Honge	Healthy
156	949	Honge	Healthy

PHASE 2 A Package 2(NALLUR HALLI) Translocation site





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Elevation: 963.55m
Accuracy: 1.1m
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Note: nallurhalli
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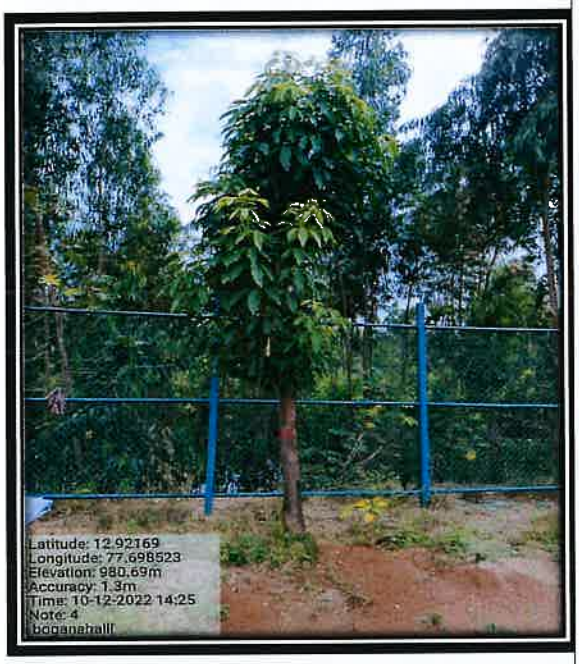
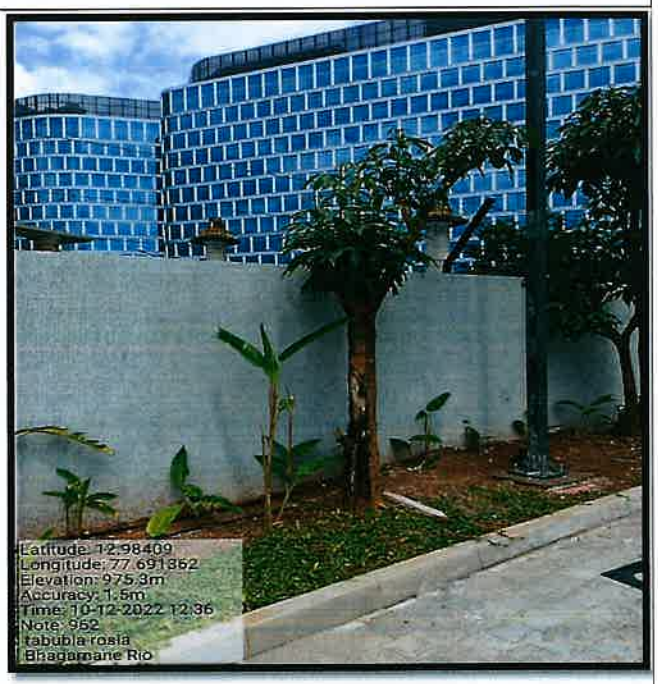
Note: nallurhalli
750

THUBERHALLI Translocation site

BOGANHALLI Translocation site



BAGAMANE TECH PARK Translocation site



Quarterly report on implementation of Official Memorandum dated 09.12.2021 (Central Silk Board to Kodibeesenahalli 2A) by Bengaluru Metro Rail Corporation Limited

Name of the project	: 2A Package 1 & 2 (ORR) of Bangalore Metro Rail Project Construction
Location of the project	: Between Central Silk Board to Kodibeesenahalli
OM issued date by the Tree Officer, Urban	: **09.12.2021**
Court Permission Date	: **09.02.2022**

Details of the OM dtd. 09.12.2021:

Total number of trees removed as per OM	: 229 No. Trees
Total Number of Trees Recommended for the Retention on site	: 27 No. Trees
Total Number of Trees Recommended for the Translocation on site	: 84 No. Trees
Number of Trees Recommended for the Felling on site	: 145 No. Trees

Details of Translocation:

Agency entrusted for the tree translocation	: Blue Grass Landscapers Under AFCONS Pvt Ltd and SNC Pvt. Ltd
Location of Receptor site	: 1. Bhogan halli lake = 19/28 2. CMP Centre training, Iblur = 53/56
Total number of trees to be translocated as per OM dtd.	: **84 No. Trees**
Translocation completed Month and Year	: **July 2022**
Total number of tree translocation completed	: **72 No. Trees**
Total number of tree translocation balance	: **12 No. Trees**
Total number of trees observed with survival Symptoms	: **30 No. Trees**
Total number of trees not encounter with any type of survival symptoms	: **42 No. Trees**

Procedure of agency selection	: Competitive bidding as per the KTTP ACT 1999
Methodology adopted for the tree translocation	: Root Ball Method as per the UAS, GKVK, guidelines 2020
Supervision of translocation	:Environmental officer (SEMU), Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU, Asst. Engineer (Civil) 2A Package 1, BMRCL and Asst. Engineer (Civil), AFCONS PVT. LTD.
Officers in-charge for tree translocation	: ED-Civil, GM (SEMU), Chief Engineer (2A Package 1-ORR), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU), AE (Civil) 2A Package 1 and Asst. Engineer (Civil), AFCONS.
Supervision by BBMP	: BBMP Tree Officer or Officer Deputed by Tree Officer BBMP

Details of compensatory Plantation:

Tendering is in progress.

A. TREE TRANSLOCATION

A1. Competent Agency Selected for Translocation:

Bangalore Metro Rail Corporation Limited Engaged Blue Grass Landscapers Under AFCONS Pvt Ltd and SNC Pvt. Ltd for tree Translocation and maintenance for a period of 3 years. BMRCL has entered an agreement with Blue Grass Landscapers Under AFCONS Pvt Ltd and SNC Pvt. Ltd.

A2. Survival Rate of transplanted trees as per the official memorandum:

The transplanted tree needs to be observed frequently for its survival, growth, pests, diseases and other physiological symptoms/expressions. It is possible to witness temporary wilting of leaves for few days, leaf fall also can happen and the tree may even decide to go in for 'Transitory Dormancy' phase, to avoid moisture loss and desiccation. But can show revival symptoms within six months like, new sprouts, turgid leaves, arrest of leaf fall, etc., It is also possible that sometimes, there will be a 'Distress' reaction in the form of premature flowering and fruiting. Also, some trees will exhibit new sprouts within few weeks which may be due to the presence of adequate stored food reserves. Under such circumstances, the new sprouts will

not survive for a long and may wither soon. If the tree has not acclimatized, then there will not be any revival symptoms. It should be kept in mind that the transplanted tree has to withstand the tests of at least one years (covering all the three seasons) to declare it as 'surviving or successful'. Hence, any premature conclusions and certifications are being restrained.

From April 2022 BMRCL has translocated 72 trees which are given way for the metro construction. Morphological characteristics showing the survival symptoms likes leaf buds, leaf initiation, new shoots, tree branchlets, flowers and new leaves were observed in the 30 translocated trees are responding to the translocation shock and trying to adopt for the new location and surrounding microclimate. Remaining 42 no translocated trees have not encountered with any survival symptoms hence they were kept in the observation.

A3. Maintenance of Transplanted trees:

A3.1 Time period: The plantation has maintained for a period of three years form the date of completion of transplantation.

A3.2 Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from Nov 2022 to Dec 2022 at receptor sites.

Soil works: Hoeing and other soil works has been started in Dec 2022, still work is in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from Dec 2022, still is in progress.

Watering: Due to heavy rains in the Bengaluru no watering activity has carried out in quarter Oct to Dec 2022 in the receptor site.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. Maintenance of 34 transplanted trees is started and 24 trees transplanted.	1. Maintenance of 72 transplanted trees is in progress. 2. Compensatory Afforestation tendering is in progress.

Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till Dec 2022	Balance	Remarks
1.	Tree translocation	84	72	12	Transplantation of 12 trees is in progress
2.	Compensatory plantation	2290	0	2290	Tendering is in progress

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter Oct, Nov & Dec 2022 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

Divya S Hosur

General Manager,
SEMU-BMRCL

Divya S Hosur
General Manager
Social & Environmental Management Unit (SEMU)
Bangalore Metro Rail Corporation Ltd.
3rd Floor, BMTC Complex, K.H. Road
Shanthinagar, Bengaluru - 560 027

Status of Translocated trees pertaining to OM dated 09.12.2021			
Sl No.	Tree No.	Species Name	Condition of the trees
1	2	Ashoka	Healthy
2	3	Shihihunase	New sproutes were not observed
3	12(A)	Rudrakshi	Yet to translocate
	12(B)	Rudrakshi	
	12(C)	Rudrakshi	
	12(D)	Rudrakshi	
4	14(A)	Rudrakshi	Healthy
	14(B)	Rudrakshi	
5	18	Mahagony	New sproutes were not observed
6	20(A)	Honge	Healthy
	20(B)	Honge	
	20(C)	Honge	
	20(D)	Honge	
7	23	Atti	New sproutes were not observed
8	26	Ranjal	New sproutes were not observed
9	27	Honge	New sproutes were not observed
10	28(A)	Ranjal	New sproutes were not observed
	28(B)	Ranjal	
11	31	Honge	Healthy
12	32	Ranjal	Healthy
13	33(A)	Honge	New sproutes were not observed
	33(B)	Honge	
14	35	Rain Tree	New sproutes were not observed
15	37	Honge	Healthy
16	38	Dalichandra	Healthy
17	40	Rain Tree	Healthy
18	41	Spathodea	Healthy
19	43	Rain Tree	Healthy
20	45 (A)	Atti	Healthy
	45(B)	Atti	
	45(C)	Atti	
21	47	Spathodea	Yet to translocate
22	49 (A)	Kanagale	New sproutes were not observed
	49 (B)	Kanagale	
	49 (C)	Kanagale	
23	50 (A)	Kanagale	Healthy
	50 (B)	Kanagale	
24	51 (A)	Kanagale	Healthy
	51 (B)	Kanagale	
	51 (C)	Kanagale	
	51 (D)	Kanagale	
	51 (E)	Kanagale	
	53 (A)	Akasha Mallige	

25	53 (B)	Akasha Mallige	Yet to translocate
	53 (C)	Akasha Mallige	
26	60	Tabubia Rosia	Healthy
27	62	Honge	New sproutes were not observed
28	67	Tabubia Rosia	Healthy
29	73	Rain Tree	Healthy
30	74	Rain Tree	Healthy
31	82	Honge	New sproutes were not observed
32	83	Honge	New sproutes were not observed
33	86	Mahagony	New sproutes were not observed
34	89	Kadubadami	New sproutes were not observed
35	93	Kadubadami	New sproutes were not observed
36	94	Mahagony	New sproutes were not observed
37	96(A)	Bilvara	Yet to translocate
	96(B)	Bilvara	
38	110	Begonia	Yet to translocate
39	111	Canocarpus	Yet to translocate
40	112	Canocarpus	Yet to translocate
41	113	Begonia	Yet to translocate
42	116	Akasha Mallige	New sproutes were not observed
43	117(A)	Akasha Mallige	New sproutes were not observed
	117(B)	Akasha Mallige	
44	118	Akasha Mallige	New sproutes were not observed
45	119	Akasha Mallige	New sproutes were not observed
46	120	Akasha Mallige	New sproutes were not observed
47	121(A)	Akasha Mallige	New sproutes were not observed
	121(B)	Akasha Mallige	
48	122	Akasha Mallige	New sproutes were not observed
49	123	Akasha Mallige	New sproutes were not observed
50	124	Akasha Mallige	New sproutes were not observed
51	125	Akasha Mallige	New sproutes were not observed
52	126	Akasha Mallige	New sproutes were not observed
53	134(A)	Atti	New sproutes were not observed
	134(B)	Atti	
54	136	Atti	New sproutes were not observed
55	143	Arali	Healthy
56	144(A)	Honge	Healthy
	144(B)	Honge	
57	148	Spathodea	Healthy
58	159	Honge	New sproutes were not observed
59	160	Kambada mara	New sproutes were not observed
60	161	Kambada mara	Healthy
61	162	Kambada mara	New sproutes were not observed
62	163	Kambada mara	Healthy
63	164	Kambada mara	New sproutes were not observed

64	165	Kambada mara	New sproutes were not observed
65	166	Kambada mara	Healthy
66	170	Kadu badami	Healthy
67	173	Kambada mara	New sproutes were not observed
68	174	Kambada mara	Healthy
69	175	Kambada mara	New sproutes were not observed
70	176	Kambada mara	New sproutes were not observed
71	177	Hunase	New sproutes were not observed
72	202	Atti	Healthy
73	206	Nerale	Healthy
74	207	Halasu	New sproutes were not observed
75	208(A)	Peltophorum	Healthy
	208(B)	Peltophorum	
76	209	Peltophorum	Healthy
77	220	Hebbevu	New sproutes were not observed
78	221	Mavu	Healthy
79	230(A)	Tabebuia	Yet to translocate
	230(B)	Tabebuia	
80	231	Tabebuia	New sproutes were not observed
81	232(A)	Atti	New sproutes were not observed
	232(B)	Atti	
	232(C)	Atti	
82	237	Atti	Yet to translocate
83	252	Shivane	Yet to translocate
84	253	Honge	Yet to translocate

Translocation trees pertaining to OM dated 9.12.21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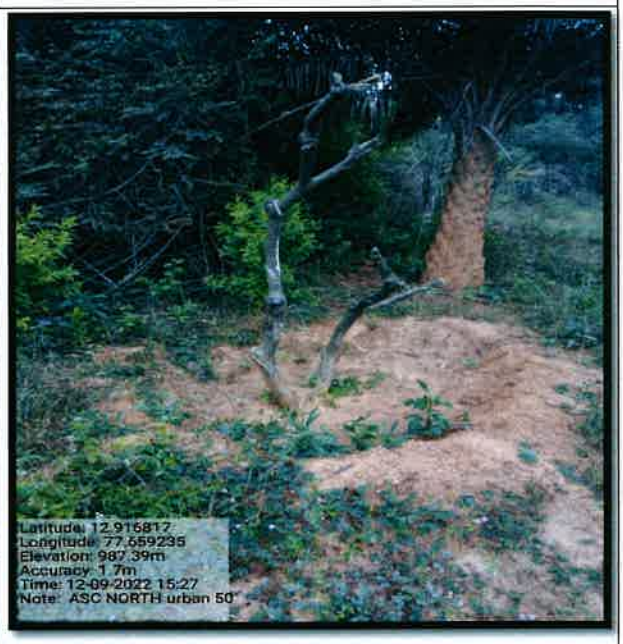
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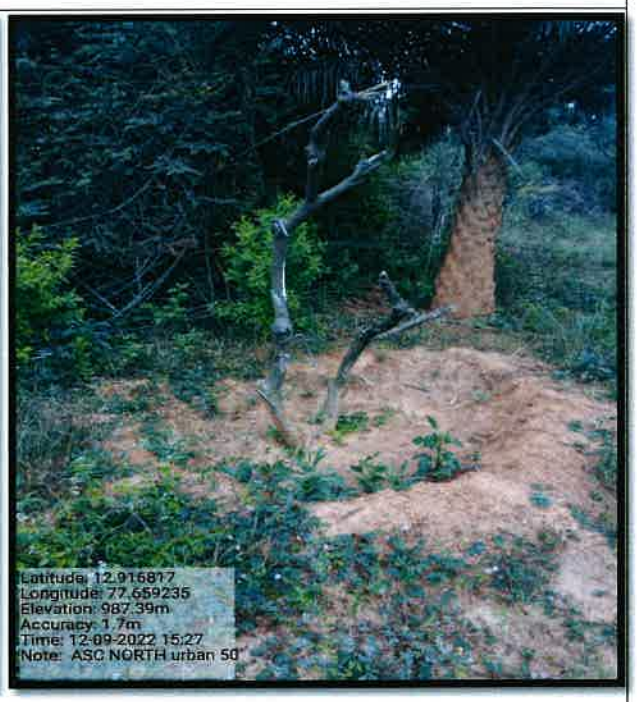
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Quarterly report on implementation of Official Memorandum dated 10.06.2022 (Central Silk Board to Kodibeesenahalli 2A Package 1) by Bengaluru Metro Rail Corporation Limited

Name of the project	: 2A Package 1 (ORR) of Bangalore Metro Rail Project Construction
Location of the project	: Between Central Silk Board to Kodibeesenahalli
OM issued date by the Tree Officer, BBMP	: **10.06.2022**
Court Permission Date	: **12.07.2022**

Details of the OM dtd. 26.11.2021:

Total number of trees removed as per OM	: 14 No. Trees
Total Number of Trees Recommended for the Retention on site	: Nil
Total Number of Trees Recommended for the Translocation on site	: Nil
Number of Trees Recommended for the Felling on site	: 14 No. Trees

Details of compensatory Plantation:

Agency entrusted for the raising and maintenance of the plantation by BMRCL	: EcoGene Concept
Location of Compensatory plantation and No. of Saplings	: Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 140 No. Saplings
Procedure of agency selection	: Work don certificate and through open quotations method
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 140 No. Saplings
Number of Saplings planted	: 140 No. Saplings
Year and Month of plantation Completed	: Feb 2022
Present servility rate of the plantation	: 140 No. Saplings

Supervision of translocation by BMRCL	:Environmental officer (SEMU), AM/AE- SENU Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU
Officers in-charge for tree translocation By BMRCL	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU)
Supervision by Forest Dept.	: BBMP Tree officer or officer deputed by tree Officer BBMP

A. COMPENSATORY PLANTATION:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy saplings. Hence BMRCL had raised the plantation of 140 No. Saplings at Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 140 No. Saplings.

BMRCL has to rise the compensatory plantation of 57,320 No. saplings as per the 18 official memorandums issued by the tree officer BBMP from March 2021 to November 2022. BMRCL had completed the raising 25,730 saplings.

A2. Maintenance of the plantation

A2.1 Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

A2.2 Causality replacement:

From Oct to Dec 2022, 0% causality was observed in the 140 saplings afforestation pertaining to the OM dtd. 10.06.2022. But still any plant attains causality BMRCL is replanting such seedlings.

A2.3 Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from Nov 2022 to Dec 2022 for the plantations at Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 140 No. Saplings.

Soil works: Hoeing and other soil works has been completed in Nov 2022.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from Dec 2022, still is in progress.

Watering: Due to heavy rains in the Bengaluru no watering activity has carried out in quarter Oct to Dec 2022 in the plantations.

Application of Fertiliser to plants:

50g of DAP and approximately 2 kg of FYM has been given to each tree sapling at the root zone from Nov 2022, still is in progress.

Survival rate:

In the quarter Oct to Dec 2022 100 % survival rate has been observed, the tree Sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation at Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru.

Numbering and Geo tagging:

Coding of Each tree sapling Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru, plantation has been started. Geo tagging of each sapling has been completed on March 2022.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. Maintenance of 140 saplings at Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru.	1. Activities like weeding, Soil works, nutrient supplements have been carried out in the plantation.

C. Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till Dec 2022	Balance	Remarks
1.	Compensatory plantation	140	140	Nil	Work is completed

Quarterly Report Oct to Dec 2022 **2nd Quarter**

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation for the Quarter Oct, Nov & Dec 2022 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

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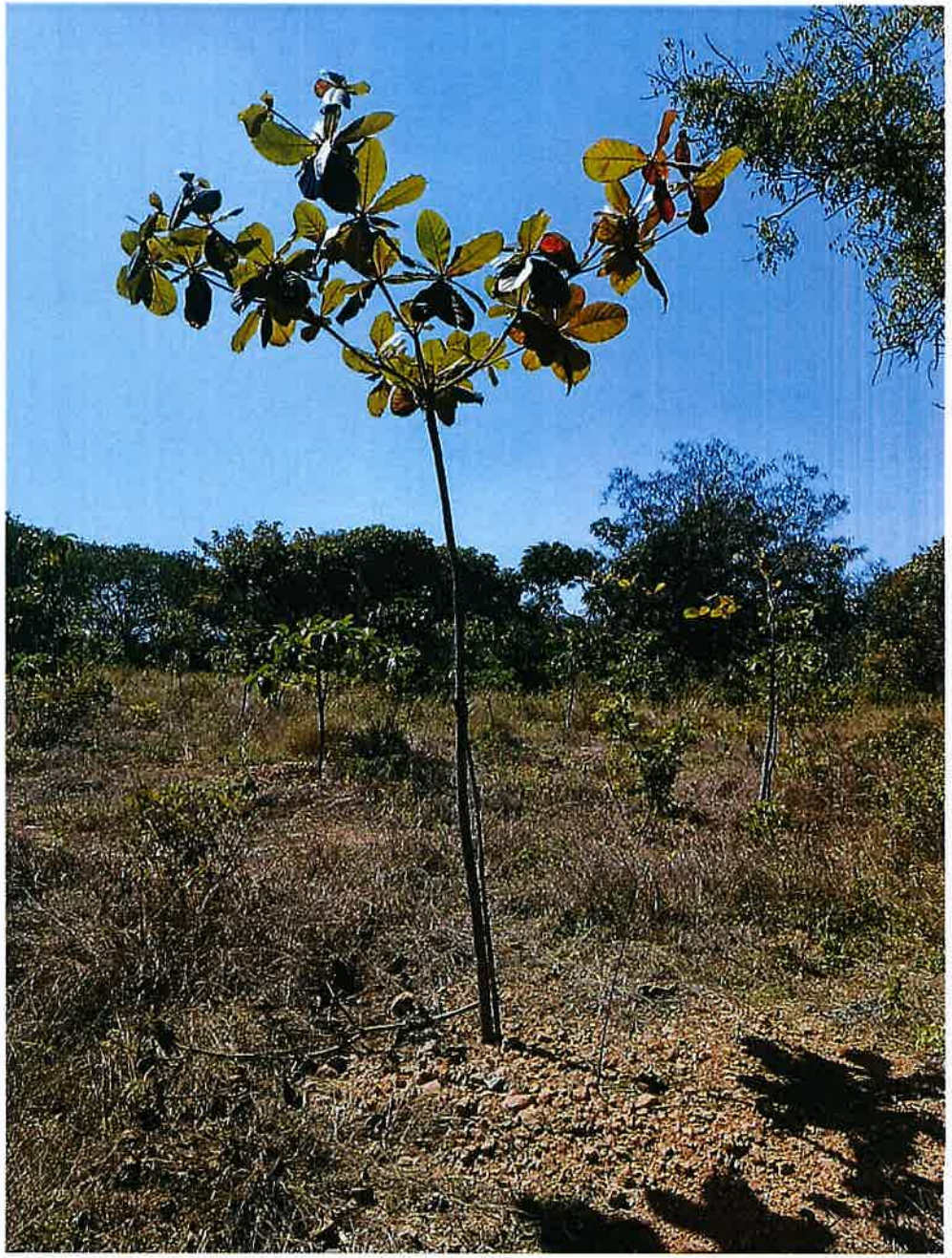
Compensatroy Plantation Details			
OM Dated: 10.06.2022 High Court Permission Dated: 12.07.2022 Location: KIADB			
Sl No	**Species Name**	**No. Saplings**	**Remarks**
1	Kadamba	20	Healthy, 8-10 Ft
2	Mahogany	25	Healthy, 8-12 Ft
3	Champaka Mara	20	Healthy, 8-10 Ft
4	Ala	25	Healthy, 8-10 Ft
5	Arali Mara	25	Healthy, 8-10 Ft
6	Nerale Mara	25	Healthy, 8-10 Ft
Total		**140**	



Quarterly report on implementation of Official Memorandum dated 10.03.2022 (Kasturinagar to Kempapura Package 1) by Bengaluru Metro Rail Corporation Limited

Name of the project	: 2B Package 1 of Bangalore Metro Rail Project Construction
Location of the project	: Between Kasturinagar to Kempapura
OM issued date by the Tree Officer, BBMP	: **10.03.2022**
Court Permission Date	: **20.04.2022**

Details of the OM dtd. 10.03.2022:

Total number of trees removed as per OM	: 1494 No. Trees
Total Number of Trees Recommended for the Retention on site	: 26 No. Trees
Total Number of Trees Recommended for the Translocation on site	: 160 No. Trees
Number of Trees Recommended for the Felling on site	: 1334 No. Trees

Details of Translocation:

Agency entrusted for the tree translocation	: NCC Pvt Ltd
Location of Receptor site	: Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru = 21/160
Total number of trees to be translocated as per OM dtd.	: **160 No. Trees**
Translocation completed Month and Year	: **Nov 2022**
Total number of tree translocation completed	: **110 No. Trees**
Total number of tree translocation balance	: **50 No. Trees**
Total number of trees observed with survival Symptoms	: **110 No. Trees**
Total number of trees not encounter with any type of survival symptoms	: Nil
Procedure of agency selection	: Competitive bidding as per the KTTP ACT 1999

Methodology adopted for the tree translocation: Root Ball Method as per the UAS, GKVK, guidelines 2020

Supervision of translocation by BMRCL	:Environmental officer (SEMU), Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU, Asst. Engineer (Civil).
Officers in-charge for tree translocation By BMRCL	: ED-Civil, GM (SEMU), Chief Engineer Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU).
Supervision by Forest Dept.	: BBMP Tree Officer or Officer Deputed by Tree Officer BBMP

Details of compensatory Plantation:

BMRCL has issued notification inviting tenders for raising and maintenance of saplings on 20.09.2022.

A. TREE TRANSLOCATION

A1. Competent Agency Selected for Translocation:

Bangalore Metro Rail Corporation Limited Engaged NCC Pvt. Ltd. for tree Translocation and maintenance for a period of 3 years. BMRCL has entered an agreement with NCC Pvt. Ltd. between agency and BMRCL.

A2. Survival Rate of transplanted trees as per the official memorandum:

The transplanted tree needs to be observed frequently for its survival, growth, pests, diseases and other physiological symptoms/expressions. It is possible to witness temporary wilting of leaves for few days, leaf fall also can happen and the tree may even decide to go in for 'Transitory Dormancy' phase, to avoid moisture loss and desiccation. But can show revival symptoms within six months like, new sprouts, turgid leaves, arrest of leaf fall, etc., It is also possible that sometimes, there will be a 'Distress' reaction in the form of premature flowering and fruiting. Also, some trees will exhibit new sprouts within few weeks which may be due to the presence of adequate stored food reserves. Under such circumstances, the new sprouts will not survive for a long and may wither soon. If the tree has not acclimatized, then there will not be any revival symptoms. It should be kept in mind that the transplanted tree has to withstand the tests of at least one years (covering all the three seasons) to declare it as 'surviving or successful'. Hence, any premature conclusions and certifications are being restrained.

From April 2022 BMRCL has translocated 110 trees which are given way for the metro construction. Morphological characteristics showing the survival symptoms likes leaf buds, leaf initiation, new shoots, tree branchlets, flowers and new leaves were observed in the translocated trees are responding to the translocation shock and trying to adopt for the new location and surrounding microclimate, hence it is difficult to conclude the survival rate of the translocated trees. Yet the result may positively vary considering all three season.

A4. Maintenance of Transplanted trees:

A4.1 Time period: The plantation has maintained for a period of three years form the date of completion of transplantation.

A4.2 Plantation activities under taken in the present quarter:

Weeding:

Removal of the weeds has been carried out from Nov 2022 to Dec 2022 at receptor sites.

Soil works:

Hoeing and other soil works has been started in Dec 2022, still work is in progress.

Saucer Bharav:

Preparation of Saucer Bharav for the saplings has been started from Dec 2022, still is in progress.

Watering:

Due to heavy rains in the Bengaluru no watering activity has carried out in quarter Oct to Dec 2022 in the receptor site.

C. Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till Dec 2022	Balance	Remarks
1.	Tree translocation	160	110	50	Transplantation of 50 trees is in progress
2.	Compensatory plantation	14940	0	14940	Tender notification issued on 20.09.2022

Quarterly Report Oct to Dec 2022 **2nd Quarter**

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter Oct, Nov & Dec 2022 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

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Status of Translocated Tree Pertaining to OM dated; 10.03.2022			
Sl. No.	**Tree No.**	**Species Name**	**Conditions of Tree**
1	14	Mahogany	Recently Translocted
2	15	Hole Dasavala	Recently Translocted
3	51	Tubebuia rosea	Recently Translocted
4	57	Tubebuia rosea	Recently Translocted
5	58	Tubebuia rosea	Recently Translocted
6	66	Tubebuia rosea	Recently Translocted
7	79	Alada mara	Yet to Translocate
8	81	Peepal tree	Yet to Translocate
9	90	Tubebuia rosea	Recently Translocted
10	91	Tubebuia rosea	Yet to Translocate
11	114	Honge	Recently Translocted
12	117	Mahogany	Recently Translocted
13	119	Tubebuia rosea	Recently Translocted
14	120	Tubebuia rosea	Recently Translocted
15	139	Tubebuia rosea	Yet to Translocate
16	190	Mahogany	Yet to Translocate
17	203	Mahogany	Yet to Translocate
18	213	Subabul	Recently Translocted
19	214	Sime Thangdi	Yet to Translocate
20	215	Subabul	Yet to Translocate
21	369	Rain tree	Yet to Translocate
22	437	Aralimara	Yet to Translocate
23	471	Gulmohar	Yet to Translocate

24	531	Mahogany	Yet to Translocate
25	533	Honge	Recently Translocted
26	534	Honge	Yet to Translocate
27	550	Nerale	Recently Translocted
28	553	Tubebuia rosea	Recently Translocted
29	554	Nerale	Recently Translocted
30	555	Aralimara	Recently Translocted
31	557	Attimara	Yet to Translocate
32	558	Attimara	Yet to Translocate
33	559	Ashok pendla/ Mimusops elengi	Yet to Translocate
34	561	Nerale	Yet to Translocate
35	602	Hole Dasavala	Yet to Translocate
36	613	Hunase	Yet to Translocate
37	615	Aralimara	Recently Translocted
38	619	Hoovarasi	Recently Translocted
39	620	Budha coconut	Recently Translocted
40	621	Mahogany	Recently Translocted
41	626	Mahogany	Recently Translocted
42	627	Mahogany	Recently Translocted
43	642	Mahogany	Recently Translocted
44	643	Tubebuia Avellanedae	Recently Translocted
45	644	Mahogany	Recently Translocted
46	647	Mahogany	Recently Translocted
47	648	Tubebuia Avellanedae	Yet to Translocate
48	654	Mahogany	Recently Translocted

49	659	Honge	Recently Translocted
50	664	Dalichandra	Yet to Translocate
51	670	Nerale	Yet to Translocate
52	677	Dalichandra	Yet to Translocate
53	678	Dalichandra	Recently Translocted
54	679	Dalichandra	Recently Translocted
55	680	Dalichandra	Recently Translocted
56	681	Peltophorum	Recently Translocted
57	689	Dalichandra	Recently Translocted
58	691	Dalichandra	Recently Translocted
59	694	Dalichandra	Recently Translocted
60	695	Dalichandra	Recently Translocted
61	696	Dalichandra	Recently Translocted
62	697	Honge	Recently Translocted
63	700	Simarouba	Recently Translocted
64	701	Dalichandra	Recently Translocted
65	704	Dalichandra	Recently Translocted
66	710	Tubebuia rosea	Recently Translocted
67	711	Hoovarasi	Recently Translocted
68	712	Nerale	Yet to Translocate
69	717	Nerale	Yet to Translocate
70	721	Hole Dasavala	Yet to Translocate
71	727	Tubebuia rosea	Recently Translocted
72	734	Akash mallige	Recently Translocted
73	745	Mahogany	Recently Translocted

74	772	Tubebuia rosea	Recently Translocted
75	773	Tubebuia rosea	Recently Translocted
76	774	Tubebuia rosea	Recently Translocted
77	776	Tubebuia rosea	Recently Translocted
78	777	Hoovarasi	Yet to Translocate
79	786	Nerale	Yet to Translocate
80	788	Mahogany	Yet to Translocate
81	792	Honge	Yet to Translocate
82	795	Mahogany	Yet to Translocate
83	798	Mahogany	Yet to Translocate
84	818	Honge	Yet to Translocate
85	834	Honge	Recently Translocted
86	844	Honge	Recently Translocted
87	852	Honge	Recently Translocted
88	861	Honge	Recently Translocted
89	884	Honge	Recently Translocted
90	886	Honge	Recently Translocted
91	891	Honge	Recently Translocted
92	892	Honge	Recently Translocted
93	893	Honge	Recently Translocted
94	896	Bage mara	Recently Translocted
95	897	Tubebuia rosea	Recently Translocted
96	898	Mahogany	Recently Translocted
97	899	Tubebuia rosea	Recently Translocted
98	901	Tubebuia rosea	Recently Translocted

99	902	Honge	Recently Translocted
100	903	Honge	Recently Translocted
101	905	Mahogany	Recently Translocted
102	908	Mahogany	Recently Translocted
103	912	Mahogany	Recently Translocted
104	913	Mahogany	Recently Translocted
105	915	Mahogany	Recently Translocted
106	916	Mahogany	Recently Translocted
107	917	Mahogany	Recently Translocted
108	918	Mahogany	Recently Translocted
109	920	Mahogany	Yet to Translocate
110	921	Mahogany	Yet to Translocate
111	927	Kadamba	Recently Translocted
112	928	Kadamba	Recently Translocted
113	929	Kadamba	Recently Translocted
114	930	Kadamba	Recently Translocted
115	931	Kadamba	Recently Translocted
116	932	Kadamba	Recently Translocted
117	934	Kadamba	Recently Translocted
118	936	Kadamba	Recently Translocted
119	938	Kadamba	Recently Translocted
120	959	Tubebuia rosea	Yet to Translocate
121	960	Akash mallige	Yet to Translocate
122	966	Mahogany	Yet to Translocate
123	971	Mahogany	Yet to Translocate

124	976	Mahogany	Yet to Translocate
125	993	Mahogany	Yet to Translocate
126	1001	Mahogany	Yet to Translocate
127	1006	Hole Dasavala	Yet to Translocate
128	1014	Bage mara	Yet to Translocate
129	1021	Honge	Yet to Translocate
130	1028	Honge	Yet to Translocate
131	1040	Honge	Yet to Translocate
132	1044	Honge	Yet to Translocate
133	1047	Honge	Yet to Translocate
134	1054	Cordia dichotoma	Yet to Translocate
135	1075	Honge	Yet to Translocate
136	1158	Tubebuia rosea	Recently Translocted
137	1160	Tubebuia rosea	Recently Translocted
138	1161	Mahogany	Recently Translocted
139	1162	Mahogany	Recently Translocted
140	1168	Mahogany	Recently Translocted
141	1169	Mahogany	Recently Translocted
142	1182	Tubebuia rosea	Recently Translocted
143	1183	Hoovarasi	Recently Translocted
144	1186	Tubebuia rosea	Recently Translocted
145	1188	Tubebuia rosea	Recently Translocted
146	1189	Hoovarasi	Recently Translocted
147	1194	Hoovarasi	Recently Translocted
148	1234	Mahogany	Recently Translocted

149	1239	Hoovarasi	Recently Translocted
150	1250	Mahogany	Recently Translocted
151	1257	Tubebuia rosea	Recently Translocted
152	1267	Mahogany	Yet to Translocate
153	1292	Mahogany	Recently Translocted
154	1293	Mahogany	Recently Translocted
155	1298	Mahogany	Recently Translocted
156	1393	Mahogany	Recently Translocted
157	1402	Tubebuia rosea	Recently Translocted
158	1406	Mahogany	Recently Translocted
159	1462	Toremathi	Yet to Translocate
160	1497	Mahogany	Recently Translocted

Quarterly report on implementation of Official Memorandum dated 26.07.2022 (Kempapura to Baglur cross Package 2 & 3) by Bengaluru Metro Rail Corporation Limited

Name of the project	: 2B Package 2 of Bangalore Metro Rail Project Construction
Location of the project	: Kempapura to Baglur cross
OM issued date by the Tree Officer, BBMP	: **26.07.2022**
Court Permission Date	: **13.09.2022**

Details of the OM dtd. 26.07.2022:

Total number of trees removed as per OM	: 411 No. Trees
Total Number of Trees Recommended for the Retention on site	: 15 No. Trees
Total Number of Trees Recommended for the Translocation on site	: 29 No. Trees
Number of Trees Recommended for the Felling on site	: 382 No. Trees

Progress on implementation of OM dtd. 26.07.2022:

(i) Tendering is in process for the compensatory plantation.

(ii)Tree translocation work has been awarded to contractor/agency M/s Afcons Infrastructure Ltd, having its registered office AFCONS House, 16 Shah Industrial Estate, Veera Desai Road, Azad Nagar, Andheri (W), Mumbai-400053 and the same has been reported to this Hon'ble Court in IA 10/2022.

(iii) Felling of 360 number of trees is completed and procedures for Translocation of 29 trees have been started.

Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till Dec 2022	Balance	Remarks
1.	Tree translocation	29	0	29	Second stage of transplantation is in progress
2.	Compensatory plantation	4110	0	4110	Tendering is in progress

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter Oct, Nov & Dec 2022 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

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