



# ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲ್ ನಿಗಮ ನಿಯಮಿತ

(ಸಹಭಾಗಿತ್ವದ - ಕರ್ನಾಟಕ ಸರ್ಕಾರ ಹಾಗೂ ಕೇಂದ್ರ ಸರ್ಕಾರ ಉದ್ಯಮ)  
ನೋಂದಾಯಿತ ಕಛೇರಿ : ಬಿ.ಎಂ.ಟಿ.ಸಿ. ಕಾಂಪ್ಲೆಕ್ಸ್, 3ನೇ ಮಹಡಿ, ಕೆಂಗಲ್ ಹನುಮಂತಯ್ಯ ರಸ್ತೆ, ಶಾಂತಿನಗರ  
ಬೆಂಗಳೂರು - 560 027, ಭಾರತ

## 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/ 2021-22

Date: 18.08.2022

To,

The Tree officer and DCF,  
NR Square, BBMP  
Bangalore 560012

**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 03.03.2021  
2. Om No. DCF /BBMP/PR-1923/20220-21 dated 23.03.2021  
3. OM No DCF/PR/673/2021-22 dated 26.11.2021  
4. OM No. DCF/PR/1750/2021-22 dated 10.12.2021  
5. OM No.A9/Tree Cutting/BMRCL/CR-154/2021-22 dated: 02.03.2021  
6. OM No.A7/Land/BMRCL. Kadugodi/CR-13/2017-18/3636  
7. OM No. A9/Tree Cutting/BMRCL/CR-34/2020-21 dated: 08.04.2021  
8. OM No. A9/Tree Cutting/BMRCL/CR-341/2020-21/371 dated: 18.05.2021  
9. a) OM No. A9/Tree Cutting/BMRCL/CR-195/2020-21/1279 dated: 26.08.2021  
b) OM No. A9/Tree Cutting/BMRCL/CR-195/2020-21/361 dated: 07.05.2021  
10. OM No. A7/Land/BMRCL/CR-39/2018-19 dated: 08.09.2021  
11. OM No. A9/Tree Cutting/BMRCL/CR-480/2020-21 dated: 26.08.2021  
12. OM No A9/Tree Cutting/BMRCL/CR543/20220-21/2454 dated 09.12.2021  
13. OM No DCF/PR-2196A/2021-22 dated 07.03.2022

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 April to June of 2022 showing the condition of the Translocated trees and Compensatory Plantation is attached here with for necessary action.

o/c  
BMRCL  
19/8/22

(Divya S Hosur)  
General Manager, SEMU

**Enclosure-As above**

**Copy to:**

1. Managing Director, BMRCL
2. Chief Conservator of Forests, Bengaluru circle
3. Member Secretary, Tree Expert Committee

## **Status Report of Compensatory Plantation regarding Official Memorandum Issued by Tree officer/DCF, BBMP and Urban Division, Bengaluru for Construction of Metro Rail Project in Bengaluru.**

### **Background:**

BMRCL had requested the Tree Officer, BBMP and Urban Division, Bengaluru for permission to remove the trees giving way for metro rail project in and around the Bengaluru. In lieu of this, The Tree officer (BBMP and Urban Division) has issued Official Memorandum (OM), for removal of trees standing in the project area by means of Translocation and Felling. The Hon'ble High Court of Karnataka granted permission to Bangalore Metro Rail Corporation Limited (BMRCL) for removal of trees by way of translocation and felling. As per the KPT, Act 1976 and Hon'ble High Court of Karnataka daily orders for the writ petition No. 17841/2018 BMRCL has to plant 10 tall and healthy saplings for every tree removal in the metro rail construction project. In the OM issued by The Tree Officer, BBMP and Urban Division, Bengaluru, subjected to following directions for the execution of the work.

### **Compensatory Plantation:**

- i. Arrange compensatory Afforestation of saplings, in the ratio of 1:10 i.e., 10 saplings for every 01 tree felled or Translocated.
- ii. Submit a plan for the compensatory plantation within 2 months from the date of this order.

### **Care & Maintenance of translocated trees and compensatory plantation and their Reporting:**

- i. BMRCL should ensure proper and effective care and maintenance of the translocated trees and compensatory plantation for a period of 3 years.
- ii. BMRCL should also submit reports regarding condition of the translocated trees and the compensatory plantation every quarter for a period of 3 years to the respective tree officer.

### **Compensatory Plantation by BMRCL**

#### **Agency for Compensatory Plantation**

Bangalore Metro Rail Corporation Limited Engaged 9 Nos agencies for Plantation rising and maintenance for a period of 3 years (Table 1). An agreement and latter of acceptance signed

between agency and BMRCL for raising the plantation, maintenance and ensuring Satisfactory Survival rate is attached as annexure II.

**Table 1: Details of agencies entrusted for compensatory plantation work by BMRCL**  
**Location of Compensatory Plantation**

| Sl. No. | Location and OM date   | Agency Name  | Letter of acceptance | Contract agreement |
|---------|--|--|----------------------|--------------------|
| 01      | RV Road to HSR Layout R5 P3<br>01.03.2021                                  | "M/s United Way<br>Bangalore,<br>Bengaluru             | 09.06.2020           | 18.06.2020         |
| 02      | South Ramp(Jayanagara Fire Station) to North Ramp (Nagawara)<br>23.03.2021 | "M/s The Nursery<br>Co-operative<br>Society, Bengaluru | 09.06.2020           | 18.06.2020         |
| 03      | Phase 2A (Package 1&2) Silkboard to Kodibessanhalli<br>09.12.2021          | Work is in progress                                    |                      |                    |
| 04      | ORR Phase 2A Package 2<br>10.12.2021                                       |  |                      |                    |
| 05      | Benniganahalli Tank Bund Area (R1A)<br>02.03.2021                          | M/s Indus Herbs  | 16.09.2021           | 04.10.2021         |
| 06      | Kadugodi Depot (R1-Extention)<br>26.03.2021                                | M/s Indus Herbs  | 16.09.2021           | 04.10.2021         |
| 07      | Kothnur Depot Entry Line (R6-Elevated)<br>08.04.2021                       | M/s United Ways of Bengaluru                           | 16.09.2021           | 04.10.2021         |
| 08      | Langford Station (R6-UG)<br>18.05.2021                                     | M/s Asian landscape                                    | 04.08.2021           | 25.08.2021         |
| 09      | Kothnur Depot (Reach 6)<br>07.05.2021 and<br>26.08.2021                    | M/s United Ways of Bengaluru                           | 16.09.2021           | 04.10.2021         |
|         |  | M/s Garden up  | 16.09.2021           | 04.10.2021         |
|         |  | M/s Nurserymen Co-op. Society                          | 16.09.2021           | 04.10.2021         |
|         |  | M/S Indus Herbs  | 16.09.2021           | 04.10.2021         |

|    |  |                               |            |            |
|----|--|-------------------------------|------------|------------|
| 10 | U M Kaval<br>08.09.2021                      | M/S Indus Herbs               | 16.09.2021 | 04.10.2021 |
|    |  | M/s Sevalal Sideshwara        | 16.09.2021 | 04.10.2021 |
| 11 | R1A - Vijinapura<br>26.08.2021               | M/s Sevalal Sideshwara        | 16.09.2021 | 04.10.2021 |
| 12 | ORR Phase 2A<br>Package 1<br>26.11.2021      | M/s Ecogene Concepts          | 07.01.2022 | 21.01.2022 |
|    |  | M/s Nurserymen Co-op. Society | 07.01.2022 | 21.01.2022 |
|    |  | M/s Garden up                 | 07.01.2022 | 21.01.2022 |
|    |  | M/s Subramanyam Constructions | 07.01.2022 | 21.01.2022 |
|    |  | M/s Ramakrishna Contractor    | 07.01.2022 | 21.01.2022 |
| 13 | Vellara junction metro station<br>07.03.2022 | Work is in progress           |            |            |

BMRCL has submitted a proposed Compensatory Plantation and 3 years maintenance plan in lieu of Official Memorandum issued by DCF BBMP/Tree Officer, Bengaluru and the same was submitted to Hon'ble High Court of Karnataka. The details of the location of compensatory plantations is given in Table 2.

**Table 2: Details of compensatory plantation location**

| Sl. No | Location and OM date  | Proposed location                                      | No. of Saplings |
|--------|---|--|-----------------|
| 01     | RV Road to HSR Layout<br>R5 P3<br>01.03.2021                                      | Army Camp, Ibbaluru<br>Bengaluru                       | 130             |
| 02     | South Ramp (Jayanagara Fire Station) to North Ramp (Nagawara) R6 UG<br>23.03.2021 | ASC Center North-2 ATC,<br>Bengaluru                   | 2070            |
| 03     | ORR Phase 2A Package 1<br>26.11.2021  | Nadaprabhu Kempegowda Layout, Bengaluru                | 3400            |
|        |   | Karnataka Industrial Area Development Board, Bengaluru | 4490            |
| 04     | ORR Phase 2A Package 2<br>10.12.2021  | Karnataka Industrial Area Development Board, Bengaluru | 10260           |
| 05     | Benniganahalli Tank Bund Area (R1A)<br>02.03.2021                                 | 1. CMP Centre, Training area, Neelsandra, Bengaluru    | 910             |



|    |   |  |       |
|----|---|--|-------|
|    |   | CMP Centre, Training area, Iblur, Bengaluru  |       |
| 06 | Kadugodi Depot (R1-Extention)<br>26.03.2021                                     | 2. ASC Centre, Domlur, Bengaluru (ASC North, Iblur)  | 1880  |
| 07 | Kothnur Depot Entry Line (R6-Elevated)<br>08.04.2021                            | 3. Nadaprabu Kempegowda Layout, Bengaluru  | 330   |
| 08 | Langford Station (R6-UG)<br>18.05.2021  | 1. Old Military Dairy Farm, Hebbal<br>2. Nadaprabu Kempegowda Layout, Bengaluru<br>4. Hi, Tech Defense and Aerospace Park, Phase-1, KIADB, Bengaluru   | 3150  |
| 09 | Kothnur Depot (Reach 6)<br>07.05.2021 and 26.08.2021                            | 1. Nadaprabu Kempegowda Layout, 2nd Subdivision BDA, Bengaluru<br>2. ASC Centre, Iblur, Bengaluru (ASC North)<br>3. Sri JNYTC, Vidyanagara & Govt. High School, Vidyanagara<br>3. Hi, Tech Defense and Aerospace Park, Phase-1, KIADB, Bengaluru | 7000  |
| 10 | U M Kaval<br>08.09.2021   | 1. Sri JNYTC, Vidyanagara & Govt. High School, Vidyanagara   | 1230  |
| 11 | R1A - Vijinapura<br>26.08.2021  | 1. Sri JNYTC, Vidyanagara & Govt. High School, Vidyanagara   | 320   |
| 12 | Phase 2A (Package 1&2) Central Silkboard Board to Kodibessanhalli<br>09.12.2021 | 1. Nadaprabu Kempegowda Layout, 2nd Subdivision BDA, Bengaluru   | 2290* |
| 13 | Vellara junction metro station<br>07.03.2022                                    | 1. Hi, Tech Defense and Aerospace Park, Phase, KIADB, Bengaluru  | 80*   |
|    | Total number of Saplings Plantation work completed(A)                           |  | 24910 |
|    | Number of Sapling plantation work under progress(B)                             |  | 12630 |
|    | Total Number of Saplings(A+B)   |  | 37540 |

### **Deviation from the proposed plan of compensatory plantation by BMRCL**

BMRCL has taken up the compensatory plantation in the Government premises viz., Defence lands, BDA layout, Government schools, BBMP parks, lakes and KIADB tree parks which are in and around Bengaluru. BMRCL doesn't have the ownership on these lands, but have the permission for rising and maintenance of plantation for a period of 3 years. BMRCL has adhered to the compensatory afforestation plan submitted to the Hon'ble High Court of Karnataka in all the OM's thus far except the OM Dated 26.08.2021. In that particular OM, the land proposed was Defense land (Old Military farm, Hebbal). However, the location had to be altered as the defense authority proposed for unit developmental activities. Hence, the location was changed to KIADB and NPKL, Bengaluru.

### **Scheme of Plantation/Technique**

BMRCL has taken responsibility of raising Compensatory Plantation at the location suggested above as per standard practice and technique through expert agency in the field of Horticulture/Forestry/Plantation. Forest department, Govt. of Karnataka has issued general guidelines for species and plantation techniques models (Annexure I). BMRCL has finalized a scheme/technique for plantation considering these guidelines relevant for Bangalore Urban Transitional Zone and Institutional/office premises plantation model. The scheme is summarized as follow.

1. Plantation work is taken up within Government premises, well protected with boundary wall/fencing all-round the proposed area as institutional/office planting model.
2. Planation work is taken up through an expert agency in the field of horticulture/forestry/plantation.
3. Water required during rainy season i.e., from May-June to Oct-Nov in Bangalore urban area would be minimal/Nil/during dry season from November to April watering will be regularly done as per the standard practice specified and as per requirement of plantation species.
4. Aligning, marking of pits of size 1m x 1m x 1m shall be done at the identified location.
5. Excavation of pits of size 1m x 1m x 1m at 5m x 5m grid interval will be taken up.
6. The pit will be vertically cut and straight in shape. All loose materials will be removed from pit.

7. Supply of saplings of min 12 months old of 7-8 feet height of species suitable for the zone as specified in the guidelines.
8. Supply of 10% Red earth required for refilling the pits after saplings.
9. Refilling of pit to 75% of the pit with excavated soil after breaking the clods and formation of saucer shaped mound.
10. Conveyance of polythene bag seedlings to the planting location including watering polythene bagged seedlings at site.
11. Supply of 2.5 to 3m length wooden sticks for supporting saplings.
12. Planting seedlings including scooping the soil to required depth pressing the soil gently around the seedlings after planting.
13. Carrying out de-weeding around the plants for a radius of 0.6m
14. Hoeing and soil working with pickaxe around the plant to a depth of 15cm and to a radius of 60cm.
15. Application of chemical fertilizers around the plant about 15cm away in furrow duly covering with soil as and when required.
16. Scraping of grass and weeds to radius of 0.5m around the plants.
17. Application of FYM (Farm Yard Manure), watering the plants using water tanker with available water inside the premises/water from outside as required.

**Table 3: Status of Plantation details according to official memorandums.**

| <b>Sl. No</b> | <b>Location and OM date</b>  | <b>Number of saplings as mentioned in the OM</b> | <b>Number of saplings planted</b> | <b>Status of plantation</b> | <b>Survival rate till 08.03.2022</b> |
|---------------|--|--|-----------------------------------|-----------------------------|--------------------------------------|
| 01            | RV Road to HSR Layout<br>R5 P3<br>01.03.2021                                     | 130  | 130                               | Completed                   | 100%                                 |
| 02            | South Ramp(Jayanagara Fire Station) to North Ramp (Nagawara) R6 UG<br>23.03.2021 | 2070   | 2070                              | Completed                   | 95.5% *                              |

|    |  |              |                     |           |        |
|----|--|--------------|---------------------|-----------|--------|
| 03 | ORR Phase 2A<br>Package 1<br>26.11.2021                                      | 7890         | 7890                | Completed | 100%   |
| 04 | ORR Phase 2A<br>Package 2<br>10.12.2021                                      | 1026         | Work is in progress |           |        |
| 05 | Benniganahalli<br>Tank Bund Area<br>(R1A)<br>02.03.2021                      | 910          | 910                 | Completed | 94.5%* |
| 06 | Kadugodi Depot<br>(R1-Extention)<br>26.03.2021                               | 1880         | 1880                | Completed | 95.7%* |
| 07 | Kothnur Depot<br>Entry Line (R6-<br>Elevated)<br>08.04.2021                  | 330          | 330                 | Completed | 98.2%* |
| 08 | Langford Station<br>(R6-UG)<br>18.05.2021                                    | 3150         | 3670#               | Completed | 98.2%* |
| 09 | Kothnur Depot<br>(Reach 6)<br>07.05.2021 and<br>26.08.2021                   | 7000         | 7000                | Completed | 96.5%* |
| 10 | U M Kaval<br>08.09.2021  | 1230         | 1230                | Completed | 98.5%* |
| 11 | R1A - Vijinapura<br>26.08.2021   | 320          | 320                 | Completed | 97.0%* |
|    | <b>Total</b>   | <b>14820</b> | <b>14485</b>        |           |        |
| 12 | Phase 2A<br>(Package 1&2)<br>Silk board to<br>Kadubeesanahalli<br>09.12.2021 | 2290         | Work is in progress |           |        |
| 13 | Vellara junction<br>metro station<br>07.03.2022                              | 80           | Work is in progress |           |        |

\* Gap filling of Causalities are in progress to maintain the 100% survival rate.

# 520 Saplings are planted as per the directions of Hon'ble High Court of Karnataka

#### **Geo tagging of compensatory plantation:**

BMRCL has geo tagged each plant in plantation established at various location for the effective monitoring of plantation. The latitude, longitude and species names list is given in annexure II

**Maintenance of the compensatory plantation:**

The maintenance of the plantation is carried out by the transplanting agency under the Supervision of Social and Environmental Management unit, BMRCL, and the able guidance of Tree Officer, Deputy Conservator of Forest, Urban Division Bangalore.

Following activities will be carried out in the maintenance of the plantation:

1. Saucer Bharav: Scraping out of grass and weeds to a radius of 50 cms around the plant, earthing up of plants in the form of semi-circular.
2. Application of Fertiliser to plants like DAP, FYM and other amendments
3. Weeding in the plantation:
  - Weedings around the plants (pits) to a radius of 60cms (2 Times)
  - Clear weeding by cutting all weeds flush to the ground, retaining seedlings of important species not directly interfering with the main crop in the areas with heavy weed growth (2nd and 3rd weeding)
4. Watering to the seedlings along roadside and in the city limits at 50 litres per plant by hiring private vehicle (15 Times)
5. Replacement of dead seedlings by tall and healthy saplings in the plantation.
6. Soil works like hoeing will be carried out as per the schedules in the plantations.

Thus, as directed by the Hon'ble High court of Karnataka in its Daily Order dated 09.02.2022 point 9, BMRCL here by submits the status report with respect to the fresh plantation done in compensation of felling of trees till date.

  
**H.S. Ranganatha swamy**  
**Environment Officer**  
**SEMU, BMRCL**  
**ENVIRONMENT OFFICER**  
**Bengaluru Metro Rail Corporation Ltd.**  
**Shanthinagar, Bengaluru**

**Enclosures:**

1. General Guidelines of species and planting technique models - Annuexure-I
2. Contract Agreement & Letter of Acceptance of Compensatory Plantation - Annuexure-II
3. Compensatory Plantation Photographs - Annuexure-III
4. Compensatory Plantation Geo-tagging information - Annuexure-IV



## **SPECIES AND PLANTING TECHNIQUE MODELS**

### **General Guidelines**

#### **A. INTRODUCTION:**

- 1) Karnataka Forest Department is afforesting around 80000 to 100000 ha. annually under various plan and non-plan programmes. Afforestation is also taken up under various models of planting. Assisted Natural Regeneration (ANR) and Artificial Regeneration (AR) accounts for large share of hectare being afforested. The department has gained lot of experience by way of feed back and evaluation of the planting programmes. Many successful planting techniques have been established and followed in the field. However there is no compilation of such successful planting techniques evolved and of collective experience of the department. Afforestation and Reforestation is one of the core activities of the department and there is an urgent need to codify successful practices, so that it serves as manual for all the field officers who are engaged in the task of afforestation. In addition uniform cost norms and model estimates for various types of afforestation works help in standardizing planting techniques across various schemes.
- 2) An effort in this regard began in a meeting of few field officers and senior officers on 3-11-2010. A concept paper was prepared and sent to all circles with a request to submit circle wise write up on important best practices. Based on the circle wise reports "A species and Planting Technique models for Karnataka" was prepared by a Core Committee comprising of Addl. Principal Chief Conservator of Forests (Development), Addl. Principal Chief Conservator of Forests (Projects), Conservator of Forests (Development) and Conservator of Forests (Projects).
- 3) The report was again circulated among field officers through circle Conservators of Forests / Chief Conservator of Forests during April 2011.
- 4) A series of workshops were held at Davanagere (Bellary circle), Shimoga (Shimoga, Chikmagalur and Mangalore circles), Dharwad (Dharwad, Belgaum and Kanara circles), Bangalore (Bangalore and Chamarajanagar circles), Mysore (Mysore, Kodagu and Hassan circles) and Gulbarga (Gulbarga circle) during May-June 2012. In these workshops all Chief Conservators of Forests, Deputy Conservators of Forests (Territorial) and (Social Forest), Assistant Conservators of Forests (Territorial) and (Social Forest) and selected Range Forest Officers participated. The report was also discussed in the meeting of Chief Conservators of Forests and senior officers of the department on 20-06-2012 and 17-12-2012. Based on the deliberations and inputs of senior officers and field officers the final report is prepared.

#### **B. METHODOLOGY**

- 1) The Approach: The state is divided in to 4 Silvi (Agro) climatic zones for the purpose of report. The Talukas / Districts in each zone are as per the agro-





climatic zones recognized by the State Agriculture Department. The details of areas falling in various agro-climatic zones is provided in Annexure-I. Karnataka state land use board has classified state in to 10 zones. These zones are further regrouped as follows for the purpose of this report.

|    |                            |   |   |
|----|----------------------------|---|---|
| 1. | Dry Zone                   | : | North Eastern Dry Zone, Northern Dry Zone, Central Dry Zone, Eastern dry zone, Southern dry zone. |
| 2. | Transitional zone          | : | Southern transition zone, Northern transition zone, North Eastern transition zone.                |
| 3. | Malnad & Western Ghat zone | : | Corresponding to Hilly zone of Karnataka land use board classification.                           |
| 4. | Coastal zone               | : | Coastal zone.   |

- 2) Within Silvi (Agro) climatic zones and specially for the purpose of Artificial Regeneration Model two site qualities have been distinguished.
  1. Poor site quality : Sites of low fertility having little (<30cm) or no top soil. Rocky in nature.
  2. Moderate to High fertility site : Sites with >30 cm. soil depth. Can sustain growth of native species and production forestry.
- 3) Three canopy densities are also distinguished for deciding allotment of areas under ANR or AR model and working out specific treatments.
  1. Open areas and areas with less than 10% canopy.
  2. Areas with 10 to 25% canopy.
  3. Areas with 25 to 40% canopy.
- 4) Following various models and topics have been considered for detailing out planting techniques and best practices.
  1. Assisted Natural Regeneration (ANR)
  2. Artificial Regeneration (AR)
  3. NTFP plantation
  4. Sandal Regeneration
  5. Road side plantations.
  6. School and Institutional planting.
  7. City and Urban areas planting.
  8. Canal Bank plantations.
  9. Farm Forestry.
  10. Nursery Practices.
- 5) The species and planting technique models for the states provide the following details.

- (1) **Brief description** of the area relevant to the Model. For actual geographical applicability and Taluks, districts in each zone Annexure-1 may be referred.
- (2) **List of core species:** The species which constitute core of nursery and planting for the given zone and model are listed based on the past experience.
- (3) **Planting Technique:** The details like site preparation, planting density per ha, size of polythene bags for raising seedlings, land preparation (pitting, T.M, Ripping etc.,) type of protection to be provided, watering, number of years a plantation to be maintained are indicated.

However to avoid repetition only the specific and important details of each model are only noted. Rest of the specifications are detailed out in Model Estimates relevant for each model of planting.

- (4) It is strongly recommended that the afforestation areas are delineated on water shed basis. A land scape of about 5-10 thousand ha. in each range including the areas outside forests may be taken as a unit of treatment of both arable and non-arable land. Such land scapes may be prioritised based on a composite index with proper weightage for extent of forest degradation, availability of waste lands, scope for Farm Forestry and Socio-economic backwardness of the areas etc.,
- 6) All resources available for afforestation including promotion of farm forestry may be allotted to such delineated land scapes based on its prioratisation so that the limited resources at the disposal of the department are spent on most needy areas.
- 7) The report also recommends the following common prescriptions.
  1. All block plantation sites are provided protection with Cattle Proof Trenches or Barbed Wire Fencing.
  2. SMC in terms of Gully checks and **SMC Trenches of 5X1X1 M dimension with outlets / spill ways and one or two nala bunds depending upon site requirement are provided in all block plantation.** A sum equal to 20% (a sum equal to 15% of the total cost of planting up to full maintenance is provided for SMC works in plain and gentle sloppy lands and 25% of the total cost of planting upto to full maintenance is provided in SMC works in sloppy and steep sloppy areas. This has to be certified by the officers at the rank of ACF / DCF after site visit.
  3. CPT is excavated to cover entire Micro Water Shed and plantings raised within the area for 5 years.
  4. Sowing of seeds, planting of cuttings and Agave shall be taken up on CPT mounds and SMC trenches.

5. Ripping is recommended as preferred in mode of site preparation in Dry and Transitional zones under AR Model.
6. Planting will be done in ripped furrows and mound formation taken up later. So no sowing of seeds on mounds is normally recommended. But in case where two seedlings are planted per trench, sowing of seeds of local species like Muttuga, Honge, Hale, Ode, Kamara etc. can be done in the trenches.
7. Watering of seedling is provided 5 times in the 1<sup>st</sup> year 3 times in 2<sup>nd</sup> year under Greening Urban Areas. Road side, NTFP, Canal Bank and Sandal Estate Models. However in Institutional Planting model watering will be done by individual institutions.
8. F.Y.M application @1CM/40 plants is recommended under Greening Urban Areas / Road side / NTFP models.
9.
  - a) 500 T.M. of 4M length and 1500 plants/Ha is recommended for the area which do not have root stocks and do not likely to get root suckers after ripping / pitting.
  - b) However, in the locations where good number of root stocks are found and root suckers are likely to come up after ripping 1000 plants per hectare is recommended. Then the number of seedlings in each trench will be two per trench.
10. Plantation maintenance is kept at planting plus 2 year for Artificial Regeneration models which are planted with fast going species and 4 years for the models which are planted with slow going species. ANR Model, Greening Urban Areas, Road side, NTFP models where the plantations will be maintained up to 5 years.
11. Any major deviation based on site specific requirement shall be done only with the written approval of Deputy Conservator of Forests detailing out the reasons.
12. Detailed model estimates are provided for each model of planting.

**C. SPECIES AND PLANTING TECHNIQUES MODELS**

**I. Assisted Natural Regeneration (ANR) Model is further sub divided in to**

- IA. Eco-Restoration Model
- IB. Supplemental Planting Model

**I(A) ECO- RESTORATION MODEL:**

1. **Area Description:** Sites in all 4 zones which contain canopy density between 25 – 40% and are under various stages of degradation but can rejuvenate given proper protection and soil moisture conservation treatment are treated under this model, so that the already present root stock and regeneration is helped to establish and grow.
2. **Core Species:** No planting is proposed in this model. Only dibbling of seeds of native species will be taken up.
3. **Planting Technique:**
  - 1) Protection through excavation of cattle proof trenches @ 72 RMT/ 90 CMT per ha.
  - 2) Sowing of seeds of Glyrecidia, Planting of Agave suckers on the CPT mounds in open area and Duranta cuttings on the CPT mounds in partially shaded area in high forest locations.
  - 3) Watch and Ward for every 50 ha.
  - 4) Dibbling of seeds of Sandal, Neem, Seetaphal, Honge and other native species.
  - 5) Clearing unwanted growth, Climber cutting, Tending, cutting back of half cut stumps / stools to get good coppice growth and singling of coppice growth @ 400 plants/ha. The training of local community/ VFC members and sharing of biomass and its documentation shall be made in this operation.
  - 6) Other details as per model estimate Model -01

## **I(B) SUPPLEMENTAL PLANTING MODEL:**

1. **Area Description:** Sites in all 4 zones which have a canopy density between 10 – 25% which are deficient in regeneration and are under higher degree of degradation and with large open gaps are selected under this model. The presence of appreciable root stock of native species which can be nursed / nurtured to better health and supplemental planting with high value native species is main objective of this model.

### **Species Proposed:**

#### **Dry Deciduous Forests:**

|     |           |                               |
|-----|-----------|-------------------------------|
| 1.  | Bevu      | Azadiracta indica             |
| 2.  | Tapasi    | Holoptelia integrifolia       |
| 3.  | Seetaphal | Annona Squamosa               |
| 4.  | Honge     | Pongamia pinnata              |
| 5.  | Kamara    | Hardwickia binata             |
| 6.  | Bage      | Albezzia lebbek               |
| 7.  | Ficus     | Ficus bengalensis             |
| 8.  | Sisso     | Dalbargia Sisso               |
| 9.  | Ailanthus | Ailanthus excelsa             |
| 10. | Hale      | Writia tinctoria              |
| 11. | Ude       | Steriospermum<br>chelanooides |
| 12. | Dhupa     | Boswellia<br>Serrata          |
| 13. | Nelli     | Embllica officinalis          |
| 14. | Honne     | Pterocarpus marsupium         |

#### **Moist Deciduous Forests**

|     |         |                          |
|-----|---------|--------------------------|
| 1.  | Teak    | Tectona grandis          |
| 2.  | Nandi   | Legarstroemia lanceolata |
| 3.  | Honne   | Pterocarpus marsupium    |
| 4.  | Mathi   | Terminalia alata         |
| 5.  | Shivane | Gmelina arboria          |
| 6.  | Kindal  | T.paniculata             |
| 7.  | Beete   | Dalbargia latifolia      |
| 8.  | Tare    | T.belerica               |
| 9.  | Bamboo  | Bambusa arundinasia      |
| 10. | Muthuga | Butea monosperma         |
| 11. | Hippe   | Madhuca latifolia        |
| 12. | Sandal  | Santalum album           |
| 13. | Nelli   | Embllica officinalis     |
| 14. | Neral   | Sizyzium cumini          |
| 15. | Dhaman  | Grevia tilifolia         |
| 16. | Kaval   | Careya arborea           |
| 17. | Harada  | Terminatia chebula       |

### **Semi Evergreen and Evergreen Forests:**

|                 |                                    |
|-----------------|------------------------------------|
| 1. Honne        | Pterocarpus marsupium              |
| 2. Beete        | Dalbargia latifolia                |
| 3. Dhoopa       | Vateria indica                     |
| 4. Tare         | T.belerica                         |
| 5. Hole mathi   | T.arjuna                           |
| 6. Kindal       | T.paniculata                       |
| 7. Bamboo       | a) B.arundinasia<br>b) D. Strictus |
| 8. Bharanigi    | Vitex ultissima                    |
| 9. Bobbi        | Lophopetalum whitianum             |
| 10. Canes       | Calamus species                    |
| 11. Gulmavu     | Machilus macranta                  |
| 12. Saldhoopa   | Vateria indica                     |
| 13. Nerale      | Sizyium Cumini                     |
| 14. Hebbalasu   | Artocarpus heterophyllus           |
| 15. Halmaddi    | Ailanthus malabaricum              |
| 16. Mango       | Mangifera indica                   |
| 17. Murugal     | Garcinia indica                    |
| 18. Uppage      | Garcinia gummigatta                |
| 19. White cedar | Dysoxylon Malabaricum              |

### **3. Planting Technique:**

1. Identified area is demarcated and surveyed and area will be closed with CPT / barbed wire fence.
2. The SMC works are taken up from ridge to valley concept. SMC trenches of 5X1X1 mts. across rills with spill ways and nala bunds are created.
3. The young regeneration is protected, the coppice growth is promoted by cutting back of stumps, singling of multiple shoots. Training of local community / VFC members for singling, pruning, cutting back, sharing of biomass and its documentation is done. This to be done by watch and ward persons.
4. Advance work is done by digging upto 200 pits of 75cm<sup>3</sup> in dry zones, upto 400 pits of 60cm<sup>3</sup> in other zones avoiding pitting near the existing root stock / regeneration.
5. Sowing of seeds of Prosopis, Glyrecidia in dry areas only. Planting of Agave suckers on the CPT mounds in open area and Duranta cuttings on the CPT mounds in partially shaded area in high forest locations.
6. At least 12 month old seedling in 10" X 16" polythene bags in dry zones and 10 months old 8" X 12" / 6" X 9" ( for teak) polythene bags in other zones are used for planting.

7. Planting with Agave, Suckers/ bulbils and sowing of seeds of Bamboo, Sandal, Glyrecedia, Cassia, honge etc., on Mounds of SMC trenches and on Cattle Proof Trenches is done.
8. If necessary, further tending of root suckers, cutting back stumps, singling of coppice growth and soil working up to 400 plants/ha. is done during 3<sup>rd</sup> year involving local community / VFC members with documentation.
9. Engaging watch and ward for every 25 ha.
10. Other operations as per Model estimate Model- 02 and 03.



## **II. ARTIFICIAL REGENERATION MODELS (AR)**

1. Artificial regeneration is taken up on barren, open areas, waste lands, blanks and laterate patches and forest areas where the canopy density or root stock is less than 10%. The site preparation is normally done by ripping by D-80 / D-120 dozers in dry and transitional zones and pitting is also done in the patches where ripping can not be taken up in rocky patches, rugged nalas up to 100 pits per hectare with pit size 75 cm<sup>3</sup>.
2. Pitting is done in Malnad and coastal zones. The model by far constitutes very high extent of afforestation works in the state. Considering this fact the species choice and planting pattern is prescribed for all zones and two site qualities separately.

### **II(A) AR MODEL FOR LOW FERTILITY, ERODED AND ROCKY AREAS IN DRY ZONES.**

1. **Area Description:** These are rocky eroded areas with very little or no top soil (less than 30 cm). The rainfall is scanty and ill distributed with high mean annual temperatures. The strategy for such areas is primarily to check the further degradation of sites and create a green cover using pioneer, colonizing species like Glyrecedia, C.Siamia, Agave etc., with a suitable mixture of hardy local species. The fast growing species like Glyrecedia cover up the site in 2-3 years and it is seen to compliment and facilitate the growth of inter planted local hardy species in course of time.
2. **Core Species and Planting Pattern:**
  - a) In the locations where there is no chance of getting roots sucker and regeneration after ripping, the planting density is as follows:

|    |                                 |                   |
|----|---------------------------------|-------------------|
| 1. | Glyrecedia, C.Siamia, Agave     | 1400 plants / ha. |
| 2. | Honge, Seetaphal, Tapasi, Ficus | 100 plants / ha.  |

- b) In the locations where there are chances of sufficient roots sucker and natural regeneration after ripping, the following core species planting pattern shall be followed.

- c)

|    |                                 |                  |
|----|---------------------------------|------------------|
| 1. | Glyrecedia, C.Siamia, Agave     | 800 plants / ha. |
| 2. | Honge, Seetaphal, Tapasi, Ficus | 200 plants / ha. |

## II(B) AR MODEL FOR MODERATE TO HIGH FERTILITY AREAS IN DRY ZONE.

### Planting Pattern – I

1. **Area Description:** Two distinct areas can be identified for the purpose of species selection. The taluks falling in Northern and North eastern dry zones (Annexure-I) especially districts like Bijapur, Gokak division of Belgaum district, Yadgir, Raichur, Gulbarga, Koppal and Gadag districts the following planting pattern is recommended.

2. **Core Species:**

|    |  |                   |
|----|--|-------------------|
| 1. | Glyrecedia, C.Siamia, Sisso                          | 1300 plants / ha. |
| 2. | Seetaphal, Honge, Ficus, Tapasi, Nelli, Bevu, Nerale | 200 plants / ha.  |

- b) In the locations where there are chances of sufficient roots sucker and natural regeneration after ripping, the following core species planting pattern shall be followed.

|    |                                 |                  |
|----|---------------------------------|------------------|
| 1. | Glyrecedia, C.Siamia, Agave     | 800 plants / ha. |
| 2. | Honge, Seetaphal, Tapasi, Ficus | 200 plants / ha. |

3. **Planting Pattern – II :**

**Area Description :** The second distinct area comprises of Central, Eastern and Southern dry zones (Annexure-I) comprising of districts of Bagalkot, Bellary, Davanagere, Chitradurga, Tumkur, Kolar, Chikkaballapur, Bangalore Rural, Ramanagara etc.,

4. **Core Species:**

|    |  |                   |
|----|--|-------------------|
| 1. | Kamara, C.Siamia, Sisso, Stereospermum chelenoides, Soymida, Boswellia serrata | 1300 plants / ha. |
| 2. | Seetaphal, Honge, Tapasi, Ficus, Nelli, Cashew, Seemaruba, Bevu, Nerale, Mango | 200 plants / ha.  |

- b) In the locations where there are chances of sufficient roots sucker and natural regeneration after ripping, the following core species planting pattern shall be followed.

|    |  |                  |
|----|--|------------------|
| 1. | Kamara, C.Siamia, Sisso, Stereospermum Chelenoides, Soymida, Boswellia serrata | 800 plants / ha. |
| 2. | Seetaphal, Honge, Tapasi, Ficus, Nelli, Cashew, Seemaruba, Bevu, Nerale, Mango | 200 plants / ha. |

## **II(C) AR MODEL FOR POORER SITES IN TRANSITIONAL ZONE:**

1. **Area Description:** These areas also have little or no top soil, eroded, rocky and of low fertility. However the sites are located in better rainfall and moderate temperature and weather conditions.

### **2. Core Species:**

|     |   |                   |
|-----|---|-------------------|
| 1.  | Auriculiformis in >1000 mm rainfall areas and in JFPM areas   | 1500 plants / ha. |
| 2a. | C.Siamia, Sisso, Sterospermum, Seemaruba, Kamara  | 1300 plants / ha. |
|     | Honge, Tapasi, Ficus, Nelli, Cashew, Bevu.  | 200 plants / ha.  |
| 2b. | In the locations where there are chances of sufficient roots sucker and regeneration after ripping the following core species planting pattern shall be followed. |                   |
|     | C.Siamia, Sisso, Sterospermum, Seemaruba, Kamara  | 800 plants / ha   |
|     | Honge, Tapasi, Ficus, Nelli, Cashew, Bevu   | 200 plants / ha.  |

**II(D) AR MODEL FOR MODERATE TO HIGH FERTILE AREAS IN TRANSITIONAL ZONE.**

- 1. Area Description:** The sites are having better soil depth (30-60 cms) and are situated in better rainfall and moderate weather conditions, conducive for raising productive plantations of fuel and small timber. Very fertile areas in this zone are put under NTFP / Fruit Orchard Model.

**2. Core Species:**

|     |  |                   |
|-----|--|-------------------|
| 1.  | A.auriculiformis in better rainfall areas and JFPM areas.  | 1500 plants / ha. |
| 2a  | C.Siamia, Sisso, Sterospermum, Seemaruba, Kamara   | 1100 plants / ha. |
|     | Bamboo, Shivani, Nelli, Mango, Nerale, Cashew, Bage, Honge, Tapasi, Ficus  | 400 plants / ha.  |
| 2b. | In the locations where there are chances of sufficient roots suckers and regeneration after ripping the following core species planting pattern shall be followed. |                   |
|     | C.Siamia, Sisso, Sterospermum, Seemaruba, Kamara   | 800 plants / ha   |
|     | Bamboo, Shivani, Nelli, Mango, Nerale, Cashew, Bage, Honge, Tapasi, Ficus  | 200 plants / ha.  |

- 3. Planting Pattern :** Fast growing species like Kamara, C.Siamia, Sisso etc., in single species rows and species like Mango, Nerale, Nelli, Cashew at 10M spacing but in the ripped line only, without resorting to excavation of separate pits.

## **II(E) PLANTING OF EUCALYPTUS IN TRANSITIONAL ZONES**

1. Moderate to high fertile areas in transitional zone as well as areas under JFPM in transitional zone are also suitable for raising Clonal and seed origin of better provinces Eucalyptus plantations. These plantations can yield appreciable biomass at the end of rotation period of 8 years. This will also improve supply of fuel wood, poles, small timber to meet local needs. It can also generate income to Village Forest Committees. In this model Eucalyptus preferably clonal planting material is planted 100% @ 1500 plants per hectare without mixing with any other species.

However adopting this planting model is subject to overall policy of growing of eucalyptus by Government.

## **II(F) AR MODEL FOR FORESHORE AREAS IN DRY AND TRANSITIONAL ZONE.**

1. **Area Description :** These areas are situated in foreshores of Tanks and Reservoirs in dry and transitional zones. The sites are fertile due to accumulation of salt, but have high degree of salinity and water logging.
2. **Core Species:**

|    |   |                  |
|----|---|------------------|
| 1. | A.Nilotica / A.auriculiformis             | 550 plants / ha. |
| 2. | Honge, T.arjuna, Nerale, Sisso and Bamboo | 550 plants / ha. |

3. **Planting Technique:** Only pitting is done for foreshore planting. A.nilotica is raised in 5"X8" polythene bags and miscellaneous species raised in 8"X12" polythene bags. While planting care should be taken to scrape the salt entrusted surface soil away. While doing soil working, raised mounds are formed so that the salt is leached down during rains. The planting should be done beyond HFL of Tank.

### **Planting Technique for AR model for Dry and Transitional Zone:**

- 1) Site preparation is done by using D-80 / D-120 dozers in dry zones and by D-8 dozers in transitional zones.
- 2) 500 Trenches of 4M length are formed per ha. Pitting is also done in patches where ripping can not be taken up in rocky patches, rugged nalas etc up to 100 trenches of 4X11M or 100 pits per hectare with pit size 75cm<sup>3</sup>.
- 3) No refilling and formation of mounds is done before planting. This operation will be done after planting.

- 4) Fast growing species like Glyrecedia, C.Siamia, Kamara etc., are raised in 5"X8" polythene bags and miscellaneous species like Honge, Bevu, Ficus, Seetaphal etc., raised in 8"X12" polythene bags.
- 5) The planting proportion of fast growing species and miscellaneous shall be as indicated.
- 6) No separate pitting will be excavated for planting miscellaneous species, but are planted in the ripped line only.
- 7) Fast growing species like C.Siamia, Glyrecedia, Kamara etc., are planted. Single species in a row and the miscellaneous species mixed in each line at appropriate spacing.
- 8) SMC works are carried out by Gully checks and SMC trenches of size 5X1X1m across the rills with spill way and nala bunding wherever required only.
- 9) Other details as per Model estimate – Model 04, 05, 06 and 07.

## II(G) AR MODEL FOR MALNAD AND WESTERN GHAT ZONE AND COASTAL ZONE.

### 1. Core species and Planting Pattern: Planting Pattern-I

|   |  |
|---|--|
| Open degraded areas with <10% canopy cover. Areas assigned to JFPM, Harvested areas, Encroachment evicted areas in Malnad and Coastal zones including the area having lateritic stones and outcrops. In all types of forest areas viz., Moist deciduous, SEG or EG areas. | Acacia auriculiformis<br>1500 plants / ha. |
|---|--|

### Planting Pattern-II

|   |   |
|---|---|
| Moist deciduous forest types areas with bigger gaps and deficient regeneration. Moderate to high fertile areas. | Teak: 550 plants / ha.  |
|   | Honne, Matti, Kindal or Hunal, Heddi, Kalam, Nandi, Bamboo, Cashew, Mango, Nerale, Antawala, Shivani, Albezia<br>550 plants / ha. |

### Planting Pattern-III

|   |   |
|---|---|
| Semi Evergreen, Evergreen areas with gaps and difficient regeneration. Moderate to high fertility in Malnad and Coastal zones | Acacia auriculiformis<br>Hopea Whitiana 550 plants / ha.  |
|   | Hopea Parviflora, T.arjuna, Mango, Nerale, Cashew, Lophopetalumwhitianum, Hebbalasu, Saldhupa, Kaidhupa (Canarium strictum), Murugal, Uppage.<br>550 plants / ha. |

### Planting Technique :

- 1) Acacia auriculiformis is planted in pits of 45cm<sup>3</sup> and planted 100% without mixing with any other species.
- 2) Teak in planting pattern II and Hopea whitiana is planting pattern-III are planted at 3X3M spacing (1100/ha) in 45cm<sup>3</sup> pits in open areas.
- 3) Miscellaneous species are planted @400/ha in 5X5 M spacing.

- 4) Acacia is raised in 5"X8" polythene bags. Teak and Hopea are raised in 6"X9" polythene bags. Other miscellaneous species raised in 8"X12" polythene bags.
- 5) Protection is provided by Cattle Proof Trenches.
- 6) Sowing of seeds of Prosopis, Glyrecidia, Planting of Agave suckers on the CPT mounds in open area and Duranta cuttings on the CPT mounds in partially shaded area in high forest locations. SMC works provided by Gully checks are SMC trenches of 5X1X1 Mts size across the rills with spill ways and nala bunding wherever required only.
- 7) Other details as per Model estimate No.06 and 07.

**NOTE ON PLANTING ACACIA IN AR MODEL:**

1. Acacia is a gregarious, highly productive species which can attain high productivity in 8 years. It also gives highly valued timber after 20 years.
2. It is suitable for barren lateritic areas.
3. It can be planted in degraded forests, open areas with <10% canopy in Malnad and Coastal zones.
4. It can be grown as a pioneer species in Western ghats to build up fertility of the area and make it suitable for planting native species later.
5. It can be planted on Encroachment prone / evicted sites for quick site recovery and coverage.
6. It can be planted on Degraded forests and JFPM areas identified in JFPM management plan in Transitional, Malnad and Coastal zones.
7. Replanting after harvesting of JFPM areas as per VFC management plan.
8. Acacia should not be planted in ANR model as under planting.
9. Acacia should not be planted in dry zones.



## **II(H) AR MODEL SPECIAL AREAS IN COASTAL ZONES**

1. **Area Description:** The sites in coastal area fall in 3 categories.

1. Lateritic soils.
2. Mangrooves.
3. Sand dune stabilization

### **DEGRADED / LATERITIC SOILS:**

|                               |   |
|-------------------------------|---|
| Open degraded lateritic soils | Acacia auriculiformis 550 plants / ha.<br>A.catachu 550 plants / ha.  |
| Very hard lateritic patches   | Ficus, A.catachu, T.belerica, Callophyllum oenophyllum, Cashew, Jummanakai (Fagara budrunga) planted 100 plants / ha. |

### **Planting Technique:**

1. Acacia auriculiform is raised in 5"X8" polythene bags and Acacia catachu in 8"X12" polythene bags planted in pits of 45cm<sup>3</sup> and 60cm<sup>3</sup> respectively.
2. Protection is provided by Cattle Proof Trenches / Barbed wire fence/ Laterite block rubble wall.
3. Standard SMC works with Gully checks and SMC trenches across the rills with spill ways and nala bunding wherever required only provided.
4. Other planting details as per Model estimate No.07.

### **MANGROVE PLANTING MODEL**

1. **Area description:** Mangroove are typical areas in estuaries. They are both viviparous and saline tolerant in nature.
2. **Core species** : Avicennia marina, A.officinalis, Kandelia candel, Rhizophora apiculata, R.mucronata, Sonnaratia alba, S.Caseolaris, Exocaria agallocha, Aegiceras Corniculatum.
3. **Planting Pattern** : Seedlings of the species are collected and planted in estuaries in low sites at 1X1M spacing. Nursery seedlings can also be raised by wildling and planting can be done.

### **COASTAL SAND DUNE PLANTING:**

Coastal sand dune belts are planted in Shelter belt fashion. Vegetative barrier created by shelter belt can be very effective in halting erosion of sand dunes.

- Species** : Spinifex littorale (Ravanana meese), Ipomea species, Pandanus species, Morinda citrifolia, Callophyllum inophyllum, Anacardium occidentale, Cauarina equisetifolia
- Planting Technique** : These species listed above are planted from sea shore towards inlands in the listed order. Smaller plants can be planted at 2X2M spacing with callophyllum, Cashew can be planted at 4X4 M spacing.

# SUMMARY OF SPECIES, PLANTING PATTERN AND TECHNIQUE UNDER ARTIFICIAL REGENERATION MODELS

| Sl. No. | Site specification   | No. of plants / Ha | Core species   | Planting Pattern    |                          |  | Model Code |
|---------|--|--------------------|--|---------------------|--------------------------|--|------------|
|         |  |                    |  | No. of Plants       | Bag size                 | Site Preparation   |            |
| 1.      | Poorer sites in Dry zones all over state.                                | 1500               | Glyrecedia, C.Siamia, Agave<br>Honge, Tapasi, Sitaphal, Ficus  | 1400<br>100         | 5"X8"<br>8"X12"          | Ripping / pitting (upto 100) in area where ripping can not be done | IIA        |
| 2.      | Moderate-High Fertile areas in Northern and North Eastern dry zone       | 1500               | Glyrecedia, C.Siamia, Sisso<br>Seetaphal, Honge, Ficus, Tapasi, Nelli, Bevu, Nerale  | 1300<br>200         | 5"X8"<br>8"X12"          | Ripping / pitting (upto 100) in area where ripping can not be done | IIB        |
| 3.      | Moderate - High fertile areas in Central, Eastern and Southern Dry zone. | 1500               | Kamara, C.Siamia, Sisso, Sterospermum, Seemaruba.<br>Seetaphal, Honge, Saymeda, Tapasi, Ficus, Nelli, C;ashew, Bevu, Nerale.   | 1300<br>200         | 5"X8"<br>8"X12"          | Ripping / pitting (upto 100) in area where ripping can not be done | IIB        |
| 4.      | Poorer sites in Transitional zone  | 1500               | Acacia auriculiformis in JFPM areas and areas receiving > 1000 mm<br>C.Siamia, Sisso, Stereospermum, Seemaruba,<br>Kamara, Honge, Tapasi, Ficus, Nelli, Cashew, Bevu | 1500<br>1300<br>200 | 5"X8"<br>5"X8"<br>8"X12" | Ripping / pitting (upto 100) in area where ripping can not be done | IIC        |

| Sl. No. | Site specification   | No. of plants / Ha | Core species  | Planting Pattern                |                                       |  | Model Code            |
|---------|--|--------------------|---|---------------------------------|---------------------------------------|--|-----------------------|
|         |  |                    |   | No. of Plants                   | Bag size                              | Site Preparation   |                       |
| 5.      | Moderate to fertile sits in Transitional zones   | 1500               | Acacia auriculiformis in JFPM areas and areas receiving >1000 mm rainfall<br><br>C.Siamia, Sisso, Stereospermum, Seemaruba, Kamara<br><br>Bamboo, Shivani, Nelli, Mango, Nerale, Cashew, Bage, Honge, Tapasi, Ficus. Eucalyptus | 1500<br><br>1100<br>400<br>1500 | 5"X8"<br><br>5"X8"<br>8"X12"<br>5"X8" | Ripping / pitting (upto 100) in area where ripping can not be done | II D<br><br><br>II E  |
| 6.      | Dry zone, Transitional zone where there are chances of sufficient root suckers and natural regeneration after Ripping. | 1000               | As recommended for respective sites.  | 800<br>200                      | 5"X8"<br>8"X12"                       | Ripping  | IIA/IIB/<br>IIC / IID |
| 7.      | Foreshore areas of Tanks and Reservoirs.   | 1500               | A.Nilotica<br><br>Honge, T.arjuna, Nerale, Sisso  | 750<br>750                      | 5"X8"<br>8"X12"                       | 45cm <sup>3</sup><br>60cm <sup>3</sup>                             | II F                  |

| Sl. No. | Site specification  | No. of plants / Ha | Core species   | Planting Pattern |                 |  | Model Code |
|---------|---|--------------------|--|------------------|-----------------|--|------------|
|         |   |                    |  | No. of Plants    | Bag size        | Site Preparation                                 |            |
| 8.      | Degraded, Open areas, JFPM areas, Harvested areas, Encroachment evicted areas in Transition, Malnad, Coastal zones.       | 1500               | Acacia auriculiformis  | 1500             | 5"X8"           | Ripping or 45cm <sup>3</sup> pits                | II G       |
| 9.      | Open areas in Moist deciduous areas, Moderate to high fertility areas   | 1500               | Teak<br>Honne, Matti, Nandi, Bamboo, Cashew, Mango, Nerale, Antawala, Shivani, Alberia                   | 550<br>550       | 6"X9"<br>8"X12" | 45cm <sup>3</sup> pits<br>60cm <sup>3</sup> pits | II G       |
| 10.     | Semi evergreen and evergreen forest types in Malnad, Coastal zones. Deficient in regeneration, Moderate to high fertility |                    | Hopea Whitiana<br>Hopea Parriflones, T.arjuna, Mango, Nerale, Cashew, Lophopetalum Whitannum, Hebbalasu. | 550<br>550       | 6"X9"<br>8"X12" | 45cm <sup>3</sup> pits<br>60cm <sup>3</sup> pits | II G       |
| 11.     | Degraded Lateritic sites  | 1500               | Acacia auriculiformis<br>A.Catachu   | 750<br>750       | 5"X8"<br>8"X12" | 45cm <sup>3</sup><br>60cm <sup>3</sup> pits      | II H       |
| 12.     | Very Hard Lateritic Patches   | 100                | Ficus, A.Catachu, T.Belerica, Callophyllan inofillum   | 100              | 10"X16"         | 1M <sup>3</sup> pits                             |            |

### III. N.T.F.P. PLANTING MODEL

Area Description : Non Timber Forest produce plantations may be raised in sites of high fertility. Even while taking up ANR or AR Model, NTFP plantations may be raised on small portion of the plantation areas, which has high fertility.

#### 2. Core Species:

- |                        |   |   |
|------------------------|---|---|
| Dry zone               | : | Hunse, Mango, Neral, Nelli, Hippe, Bevu, Honge, Seetaphal, Kadgeru, Buchania, Cashew, Feronia, Seemaruba and other local NTFP Species. Halsu may also be taken up in better sites in Districts like Kolar, Tumkur, Bangalore. |
| Transitional zone      | : | Sandal, Bamboo, Antwala, Nelli, Hippe, Mango, Nerale, Muttuga, Kadgeru, Buchania, Harada, Cashew, Hunse, Halasu, Seege and other local NTFP Species.  |
| Mainad & Western Ghats | : | Antawala, Murugal, Uppage, Dalchinni, Wate, Cashew, Halmaddi, Kaidhoopa, Harada, Nelli, Mango, Halsu, Sandal, Xanthoxylum ritsa, Bamboo, Canes and other local NTFP Species.  |
| Coastal zone           | : | Murugal, Vate, Jummanakai, Myristica, Uppage, Cashew, Suragi, Urhonne, Antawala, Halsu, Mango and other local NTFP Species.   |

#### 3. Planting Technique:

1. Atleast 12 months old, 7-8 feet tall seedlings raised in 10"x16" polythene bags to be planted.
2. 0.75m<sup>3</sup> pits excavated for planting. 275 plants per ha. planted at spacing of 6X6 mts and 1m<sup>3</sup> pits excavated for planting Hunse, Mango, Halsu at 10x10m spacing raised in 14"x20" bags.
3. Protection to be provided by Barbed wire fencing.
4. Sowing of seeds of Prosopis, Glyrecidia, Planting of Agave suckers on the CPT mounds in open area and Duranta cuttings on the CPT mounds in partially shaded area in high forest locations.
5. F.Y.M. application 1 cm / 40 plants for first 2 years. D.A.P. fertilizer applied for 2 years.
6. Watering to be provided 5 times during 1<sup>st</sup> year and 3 times during 2<sup>nd</sup> year.
7. Maintenance up to 5 years. S.M.C. works from ridge to valley provided wherever necessary by standard SMC works with Gully checks and SMC trenches across the rills with spill ways and nala bunding wherever required only provided.
8. Other details as per Model estimate Model-08.

#### **IV. MODEL FOR CREATION OF SANDAL ESTATES:**

1. **Area Description:** Sandal was once very widely distributed in the Malnad and transition zone of the state. There is need to protect sandal regeneration areas as well as to create sandal on an estate management basis. Sandal can be planted in Malnad and transition zone extensively. The sites selected must be prepared by uprooting stumps and dozing with a dozer prepare like farm land for establishing estates.

2. **Species :** Sandal with planting of Teak / Bamboo along the boundaries.

3. **Planting Technique:**

##### **A. Protection of Sandal Regeneration Model**

- 1) A minimum of 200 ha area where the sandal regenerate profusely identified and the seedlings have attained 5-10 cms girth has to be selected with 200 plants/ha. minimum density.
- 2) The area is fenced with chain link mesh which is embedded in concrete foundation. For each such unit, 6 number of watch and ward are employed on 24/7 basis.
- 3) Requisite ration is provided to the watchers.
- 4) A temporary residential accommodation is constructed within the area.
- 5) Dibbling of sandal seeds and planting in open areas taken up.
- 6) Other details as per Model estimate. Model-09.

##### **B. Creation of Sandal Estates with chain link mesh**

- 1) The site selected shall be moderate to high fertility area in Transition and Malnad zone.
- 2) Preferably an old harvested Acacia / Eucalyptus plantation or encroachment evicted area is suitable.
- 3) Site preparation is done by uprooting the stumps and dozing the area, ripping done 5M apart.
- 4) Standard SMC works with Gully checks and SMC trenches across the rills with spill ways and nala bunding wherever required only provided.
- 5) Well grown sandal seedlings raised in 8"X12" polythene bags planted at 5X5M spacing.

- 6) The treated sandal seed should be shown on mounds of SMC, in the trenches.
- 7) For sustainable management of sandal estate, people participation should be encouraged by forming VFC or strengthening existing VFC. Sufficient seed money and corpus fund shall be made available to VFC.
- 8) In order to ensure sustainable financial resources for maintenance of the chain link mess, providing watch and ward and protection of sandalwood trees beyond 5<sup>th</sup> year fast growing species like Teak, Marihal bamboo, Burma bamboo, Shivane, Hebbevu, Hale, Acacia auriculiformis, Eucalyptus species including clones shall be planted all along the boundary inside the outer inspection path and also all along internal inspection paths and fire lines @ 200 plants per hectare. The revenue out of thinned material from fast growing species and also from sale of sandal seeds would be made available by VFC for keeping watch and ward and also to maintain a dog squad of local breeds.
- 9) Area is fenced by chain link mess fixed on steel anglers and maintained regularly.
- 10) Watering and FYM application cultural operations as per Model estimate. Model-10.
- 11) Where sufficient funds are available, construction of compound wall as protection measure can be taken up.

**V. INSTITUTION AND SCHOOL PLANTING MODEL.**

1. **Area description** : Vacant lands and the boundaries of Institutions, Government offices, Schools and Colleges.

2. **Core Species :**

Dry zone : Bevu, Honge, Kadbadam, Nerale, Mango, Seethaphal, Ala, Nelli, Mellingtonia, Seehunse, Singapur Cherry, Chakra Nelli, Arali, Bela and other suitable fruit & ornamental plants.

Transitional zone : Mango, Halsu, Nelli, Hunse, Nerale, Singapur Cherry, Chakra Nelli, Kadbadam, Sampige, Mahagony, Tabubia, Spathodia, Bela, Antuwala, Ala, Arali and other local native species.

Malnad and Western Ghats : Sampige, Mavu, Halsu, Nelli, Nerale, Ranjal, Kadbadam, Cashew, Murugal, Saldhoopa, Uruhonne Saludhupa and other local species.

3. **Planting Technique.**

- (1) At least 12 months old 7-8 feet tall plants raised in 10"X16" bags to be planted.
- (2) Block planting or Boundary planting at 5X5 m or 7X7m spacing, as the case may be. On an average 200 pits/ha.
- (3) If the area is not fenced or does not have a compound wall, staking and thorn fencing to be done, as provided for Road side planting.
- (4) Application of F.Y.M., watering, watch and ward as provided in Model Estimate-11.
- (5) Protection of such plantations shall also be the responsibility of concerned institutions.



## **VI. CITY AND TOWN PLANTING MODEL.**

1. Area Description: Planting can be taken up along the roads within the city. Vacant lands meant for parks can also be taken up for planting. Care has to be taken to avoid electricity lines and telephone lines during alignment.

### **2. Core Species :**

Dry zone : Bevu, Kadbadam, Arli, Bahaunia, Honge, Mellingtonia, Nelli, Thespesia, Peltophorum, Sissoo.

Transitional zone : Bevu, Arli, Sisso, Bahaunia, Kadbadam, Sampige, Tabubia, Mango, Halsu, Nerale, Spathodia, Peltophorum, Holedasawal, Mahagony, Honge.

Malnad & Western Ghat zone : Sampige, Mavu, Halsu, Nelli, Mango, Nerale, Saldhoopa, Mahagony, Kadamba Ranjal and other ornamental species.

Coastal zone : Sampige, Mango, Mahagony, Bahaunia, Uruhonne, Halsu, Spathodia, Ranjal, Tabubia.

Suitable ornamental species which provide flowers round the year may also be planted.

### **3. Planting Technique:**

1. At least 12 months old 7 to 8 feet tall seedlings raised in 10" X 16" bags to be planted.
2. 75 cm<sup>3</sup> pits excavated at a spacing of 10 mts along roads and 5X5 m or 7X7 mts for block planting.
3. Staking, Protection, application of F.Y.M. watering provided as per Model estimate. Model-12
4. Pretreated stakes are used for enhancing life of stakes.

## **VII. ROADSIDE PLANTING MODEL:**

1. Area description : The Road margins available along NH, SH, MDR's and Village roads throughout the state. These margins are often encroached. The species along roadsides are required to be planted with species which should be compatible with agricultural crops, to avoid hostility from adjoining cultivators.

### **2. Core Species :**

- |                             |   |   |
|-----------------------------|---|---|
| 1. Dry Zone                 | : | Bevu, Ala, Arali, Basri, Goni, Honge, Tapasi, Hunse, Sisso, Bage, Mango, Nerale, Seehunse and other suitable local species. |
| 2. Transition zone          | : | Bevu, Ala, Arali, Basri, Hunse, Sisso, Bage, Honge, Mango, Nerale, Hippe, Tapsi and other suitable local species.           |
| 3. Malnad and Western Ghats | : | Mango, Halsu, Nerale, Mahagony, Sampige, Veteria, Hippe Hole dasval and other suitable local species.                       |
| 4. Coastal Zone             | : | Sampige, Holedasavala, Tare, Mahagony, Vateria, Mango, Halsu, Uruhonne and other suitable local species.                    |

Other suitable local species shall be personally decided by concerned Deputy Conservator of Forests, after proper assessment with regard to the site, climatic and other local conditions.

### **3. Planting Technique:**

1. At least 14-18 months old minimum 7-8 feet tall seedlings raised in 14"x20" bags to be planted.
2. Pits of 1X1X1 Mts at a spacing of 10 Mts on either side of the road, 200 plants/km
3. Application of F.Y.M. 1 cum / 40 plants during 1<sup>st</sup> year.
4. Protection with staking and tying of thorns every year for 3 years. Proper treatment of stakes for long life.
5. Watch & Ward for minimum of 5 years; the watcher will do replacements and maintain thorn fencing.
6. Watering in Dry zones and Transitional zones 5 times in first year and 3 times in the second year.
7. Other Cultural operations like weeding, Saucer Bharav, Fire tracing etc., as per model estimate. Model-13

### **XIII. CANAL BANK MODEL**

1. **Area Description** : Planting can be taken up along canals of irrigation projects. Since water is available for part of the year these sites are suitable for raising fruit yielding and NTFP species. If the site along Canals is very poor due to dumped soil, the pits can be filled with imported soil.

#### **2. Core Species :**

Dry zone : Bevu, Honge, Mango, Nerale, Seemaruba, Sissoo, Bage, and other suitable local species. Cassia siamea and Glyricidia in poorer sites

Transitional zone : Bevu, Honge, Sissoo, Cashew, Seemaruba, Mango, Hippe, Hunse, Halasu, Nerale, Nelli and other suitable local species.

#### **3. Planting Technique :**

1. Atleast 12 months old 7-8 feet tall seedlings raised in 10" X 16" bags to be planted at 10 m apart in pits of 0.75 m<sup>3</sup>.
2. C.siamea, Sissoo, Glyricidia are raised in 5"X8" Polythene Bags and planted in trenches of 4X0.5X0.5 mts in poorer sites.
3. Seed sowing is taken up on mounds with C.siamea and Glyricidia.
4. Miscellaneous plants provided with staking, protection, F.Y.M. application, watering on par with Road side plantations.
5. Barbed wire fencing may be taken up, if sufficient width strip is available.
6. Watch and ward provided for 5 years.
7. Other details as per Road side planting model estimate, Model-13.

## **FARM FORESTRY**

Karnataka Forest Department has realized that the task of bringing 33% of geographical area cannot be achieved without facilitating voluntary tree planting by people outside the forest areas. Various schemes, especially the externally aided projects have tried to implement ambitious Farm Forestry components in the past.

The present status of farm forestry envisages that the seedlings raised for farm forestry in departmental nurseries and priced at subsidized rates will be purchased by interested farmers and they will take care of such assets.

However in view of the magnitude of the programme and the shortage of staff, lack of extension expertise, lack of mechanism to ascertain species preference of people, lack of proper distribution network, it is suggested that a comprehensive policy for farm forestry with following components be put in place.

- 1) The species preference of farmers is mandatorily assessed by a systematic demand survey, well in advance of nursery season.
- 2) The seedlings raised for farm forestry should be from known, superior seed source.
- 3) Wherever feasible clonal / grafted seedlings to be made available to farmers.
- 4) A stable policy on pricing of seedling supplied to farmers for planting, to be put in place after wider consultations. This is pertinent in view of pricing of seedling in plan schemes, where as the seedlings are not only given free but the planting costs are also paid under National Rural Employment Guarantee Scheme.
- 5) Krishi Aranya Protsaha Yojane, A scheme to incentivize for farmers @ Rs.10, 15, and 20 at the end of 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> year for each surviving seedling is a good initiative In encouraging Farm Forestry.
- 6) Well organized network of distribution centre using the existing infrastructure like the Forest Department offices, Panchayat Office premises, Temples, Schools etc., where the required number of seedlings are stocked and replenished as and when the seedlings are lifted by the public. Any person interested in buying seedling should be able to pay and carry the required number of seedlings from the centers. The cost involved in creating distribution centers should be budgeted and made available to field officers.
- 7) About 5000 Village Forest Committees and around 6000 self help groups, created under various programmes and NGOs may be involved in demand survey, raising of seedlings and establishing and running distribution centers. Suitable remuneration and incentives may be paid to those organizations and persons for this purpose.

- 8) Tree felling and transportation rules have to be made farmers friendly to facilitate farm forestry on large scale.

**Species proposed:** The species list is only indicative. The assessment may be done by a systematic demand survey.

|   |   |
|---|---|
| Dry zone:                               | Teak, Silver oak, Sandal, Neem, Tamarind, Mango, Nelli, Bamboo, Feronia, Drumstick, Karibevu, Kadbadam, Honge, Seemaruba, Hebbevu, Ailanthus excelsa, Sissoo etc.   |
| Transitional zone:                      | Teak, Silver oak, Hebbevu, Sandal, Cashew, Nelli, Mango, Halsu, Marihal, Bamboo, Neem, Tamarind, Drumstick, Karibevu, Red sanders, Honge, Seemaruba, Shivani, Sissoo etc.   |
| Malnad, Western Ghats and Coastal zone: | Teak, Sandal, Beete, Silver oak, Hebbevu, Cashew, Mango, Halasu, Nelli, Acacia auriculiformis, Casurina equisitifolia, Murugal, Uppage, Wate, Antawala, Dalchinni, Shivani, Ber Halsu, Marihal Bamboo and Burma Bamboo etc. |

Eucalyptus has been traditionally preferred species in southern dry and transitional zones of the state, because of its fast growing, high yielding, coppicing and non-browsing qualities. There is a perception about not encouraging the planting of Eucalyptus. There is no conclusive evidence substantiating labelling of Eucalyptus as an ecological disaster. Similarly Acacia auriculiformis and Casurina are also in high demand in Malnad and Coastal areas. At present Eucalyptus, Acacia, Casurina are not covered under Krishi Aranya Protsaha Yojane. However **Government may take a final view on promoting these species based on wider consultations.**

## **NURSERY PRACTICES**

Raising of successful plantation has 3 critical components (1) Selection of right species for the site (2) Raising right planting material (3) Following right planting technique and practices.

Nursery practices should aim at raising right planting material. The seed for raising planting material should come from known superior quality source. The seedling should be of the right age, sturdiness, attain critical height, so that within the period of normal plantation maintenance (3-5 years), the plantation is established beyond damaging factors. This is all the more important when native, slow growing species form the core of our planting programme. These species not only need to be raised in bigger containers, they need to be nursed for sufficient period in nursery, so that they attain status of right planting material. This is the most important critical factor that has direct bearing on raising successful native species plantations.

The following points are very important to streamline the nursery practices:

- 1) A list of core species have to be prepared for various models at planting in the department and Farm Forestry to assess the species wise seedling targets, seed requirement etc.,
- 2) All the seed source for planting programme should come from identified seed source only, either from plus trees, seed stands, clonal orchards and facilities for seed processing and certification upgraded to achieve this target in next 3-5 years.
- 3) To begin with all seedlings for distribution to public should come from known sources. In case of fruit yielding species like Mango, Hunse, Nelli, Nerale, and Halsu etc grafted seedlings can also be supplied to public.
- 4) For raising quality and healthy seedlings, the seeds should not be directly shown in to the bags and they should be first shown in the mother seed beds. In order to ensure genetically superior quality of seedling , it is essential to sow the genuine quality seeds in the beds at least 3 times the number of required of seed beds. The seeds can be sown in staggered period of 3 days each –  $\frac{1}{3}^{\text{rd}}$  number of seed beds are sown at the beginning, another  $\frac{1}{3}^{\text{rd}}$  number of seed beds are sown after three days and remaining  $\frac{1}{3}^{\text{rd}}$  number of seed beds are sown after six days. The sprouts of seeds as soon as they are germinated from first,  $\frac{1}{3}^{\text{rd}}$  set of seed beds shall be transplanted to polythene bags at first stage ( $\frac{1}{3}^{\text{rd}}$ ) , the sprouts of second  $\frac{1}{3}^{\text{rd}}$  set of seed beds shall be transplanted in to another set of polythene bags( $\frac{1}{3}^{\text{rd}}$ ) and the sprouts of germinated seeds from third,  $\frac{1}{3}^{\text{rd}}$  set of seed beds can be transplanted to  $3^{\text{rd}}$  set of polythene bags ( $\frac{1}{3}^{\text{rd}}$ ). Seedlings which sprout within 3 days of emergence of first sprouts only have to be transplanted and sprouts which emerge after 3 days should be discarded. To enhance further quality of seedlings, rigorous culling of weak seedlings in the polythene bags should be done within one month by pulling out such seedlings The empty

bags should be separated and shall be used for transplanting earliest germinated quality sprouts as explained above. This method shall be followed meticulously for most of the species which do not exhibit 'root shock' after transplanting of sprouts. For species which exhibit 'root shock', the seeds can be shown smaller polythene bags as in case of raising tall seedlings as explained below.

For raising tall seedlings, sufficient number of seedlings should be raised to take care of rigorous culling at early stage. For re-bagging, seedlings in 4"x6" should be raised in large number, at least thrice the number of required number of seedlings for the species which are difficult to survive after transplanting of spout seedlings or which do not with stand root shock or which can not be transplanted due to unfavorable weather conditions like continuous rainy season. After germination in the 4"x6" polythene bags, the earliest germinated vigorous seedlings should be retained and late germinated weak seedling should be mercilessly pulled out from the polythene bags and the empty bags can be used subsequently for other species or for next round of sowing. The culling out shall be done within one month. The selected seedlings in polythene bags shall be maintained and they shall be transplanted to bigger bag within two to three months before root colling. For bigger seed species like mango, vateria etc. 5"x8" polythene bags can be used by following above explained procedure.

The cost of raising such seedlings for transplanting has to be provided for. At the time of re-bagging the selected and retained seedlings should be at least 2 months old.

- 5) Good quality, vigorous seedlings of Teak, Bamboo and sandal can be raised by proper precautions detailed below:
  - I. For teak seeds from known source should be used for sowing. From standard seed bed, stumps of thumb thickness, maximum 400 per bed only should be used. Rest of the stumps which are thinner in size and come up later should not be used and they should be discarded.
  - II. **Bamboo** : Bamboo seeds must be sown in seed beds first. Then 4-6 week old bamboo seedlings should be transplanted in to ridges and furrows Transplant beds. The seedlings should be allowed to grow in transplant beds for about 10-12 months. The seedlings which have well developed rhizome only should be transplanted in to 10"x16" bags and maintained for about 6 months. Thus raising proper bamboo seedlings will have 3 stages and require about 18 months of planning prior to planting.
  - III. **Sandal** : Sandal seeds have large proportion of immature seeds, which produce weak seedlings and they die after transplanting in to Polythene Bags or remain yellowish and weak throughout. It is very important to segregate well matured seeds and select only vigorous / dormant seedlings from seed beds. Seedlings which sprout within 3 days of the emergence of first

sprouting only should be used. Seeds should be treated with G.A (Gibberillic Acid) 500 PPM for 16 hours for better germination and periodic, regular plant protection should be done using DithaneM-45 (0.25%) and Ekalnx (0.02%) sprayed at monthly intervals.

- 6) The **nursery calendar** for raising right planting material is tabled below:

| Sl. No. | Size of Polythene Bags/HDP E Bags. | Right age for planting  | Month of sowing or Re-bagging | Month of raising 4"X6" , 5"X8", seed beds for Re-bagging / transplanting |
|---------|------------------------------------|-------------------------|-------------------------------|--|
| 1.      | 5"X8"                              | Not less than 6 months  | Before end of November        | TPs from seed bed / Direct Sowing in the thrice the number of bags.      |
| 2.      | 6"X9"                              | Not less than 8 months  | Before end of October         | Direct sowing from teak beds.  |
| 3.      | 8"X12"                             | Not less than 10 months | Before end of July            | Before end of April.   |
| 4.      | 10"X16"                            | Not less than 12 months | Before end of May             | Before end of February   |
| 5.      | 14"X20"                            | Not less than 12 months | Before end of April           | Before end of January  |

- 7) There should be a strict mechanism to monitor collection of seed and the timely raising of seedlings. The nursery infrastructure has to be suitably developed. This has to be personally monitored / ensured by Deputy Conservators of Forests / Chief Conservators of Forests of the circle.
- 8) Quality seeds should be procured from research and seed units of the department. Only if the requirement exceeds their capacity, that such seeds should be procured from elsewhere under proper certification about area of collection, viability, germination percentage and other relevant information.
- 9) The quality of ingredients viz., sand, good quality FYM and red earth should be ensured. Stringent action including disallowance of expenditure should be done for using poor quality ingredients.
- 10) All Nurseries should have proper records, Registers, display boards, name boards and proper layout, water tanks and pipelines for watering and sanitation to be maintained.







INDIA NON JUDICIAL

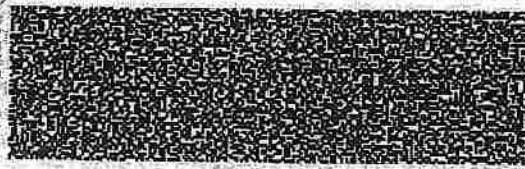
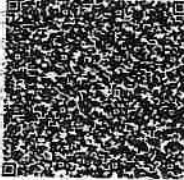
Government of Karnataka

Annexure - II  
439

Rs. 200

e-Stamp

Certificate No. : IN-KA16324593653344T  
Certificate Issued Date : 28-Sep-2021 02:37 PM  
Account Reference : NONACC/ kakscsa08/ NAGENDRA BLOCK/ KA-BA  
Unique Doc. Reference : SUBIN-KAKAKSCSA0888785394379200T  
Purchased by : INDUS HERBS  
Description of Document : Article 12 Bond  
Description : CONTRACT AGREEMENT  
Consideration Price (Rs.) : 0  
(Zero)  
First Party : BANGALORE METRO RAIL CORPORATION LTD  
Second Party : INDUS HERBS  
Stamp Duty Paid By : INDUS HERBS  
Stamp Duty Amount(Rs.) : 200  
(Two Hundred only)



RS. 200

Please write or type below this line

Contract Agreement

No. BMRCL/SEMUC/28394/2021-22 /LOA-Part-5

This Contract Agreement (hereinafter called the "Contract") is made at Bengaluru on this the 04 day of September 2021 by and between:

October (Cr 1)

BANGALORE METRO RAIL CORPORATION LIMITED, a Public Limited Company incorporated under Companies Act, 1956, having its registered office at III Floor, BMTC Complex, K.H.Road, Shantinagar, Bengaluru-560027, represented herein by Mr. S.S Hegaraddi, Executive Director (Civil-1), hereinafter referred to as "BMRCL" or "Employer" as the case may be, which expression shall unless excluded by or

For INDUS HERBS

Statutory Alert

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repugnant to the context or meaning thereof be deemed to include its successors and assigns, of the one part.

AND

The Indus Herbs, #74, Basavanagudi, Bangalore-560004 represented herein by Mr. Ravindra T C Who is duly authorized to sign and bind the Company.

WHEREAS, the Contractor in accordance with Indian law offered a quotation and the quotation has been accepted by the Employer for the execution and completion, and remedying of any defects in the work of "Compensatory Plantation and its Maintenance for 03 years for 1800 Saplings in Lakes/ Parks of BBMP/Govt. premises, Bengaluru by BMRCL, in lieu of felling of Trees located in Kothnoor Depot, R-6, Phase -2, Anjanapura Depot and Viaduct for Depot entry line in R4B and Vijinapura Sy no 79 and Benniganahalli Village Sy No 80 and 83 for road widening works, area development for bus hub, Parking, Multi Model integration etc and Jyothipuram Metro Stations entry exit structures R1-A. the Contractor agree to undertake performance of the contract work under the terms and conditions set forth in this Contract.

AND WHEREAS, THE Employer agrees to hire and the Contractor agree to be hired to implement the work of "Compensatory Plantation and its Maintenance for 03 years for 1800 Saplings in Lakes/ Parks of BBMP/Govt. premises, Bengaluru by BMRCL, in lieu of felling of Trees located in Kothnoor Depot, R-6, Phase -2, Anjanapura Depot and Viaduct for Depot entry line in R4B and Vijinapura Sy no 79 and Benniganahalli Village Sy No 80 and 83 for road widening works, area development for bus hub, Parking, Multi Model integration etc and Jyothipuram Metro Stations entry exit structures R1-A Projects under the terms and conditions specified in this Contract Agreement and the other Contract Documents.

Now THEREFORE the parties hereby agree as follows:

**Clause 1 Words and Expressions:**

In this Contract all the words and expressions shall have the same meanings as are respectively assigned to them in the conditions of contract hereinafter referred to.

**Clause 2 the Contract Documents:**

The Letter of Acceptance along with its enclosures (Appendix-A, B & C) shall be deemed to form and be read and construed as a part of this Contract Agreement.

**Clause 3 Obligations of the Contractor:**

The mutual rights and Obligations of the Employer and the Contractor shall be as set forth in Contract and in particular:-

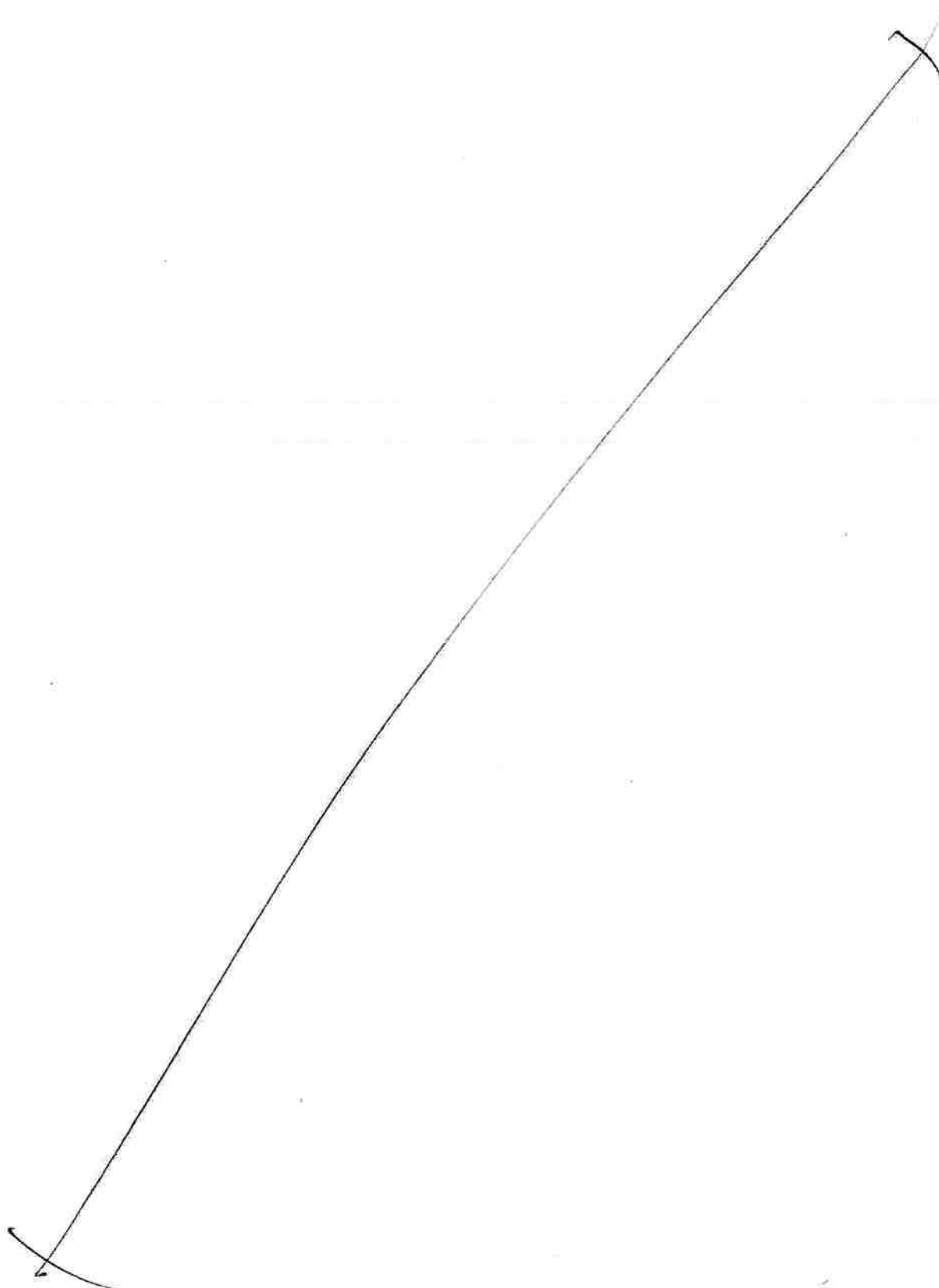
The Contractor agrees, subject to the terms and conditions of the Contract, to perform efficiently and faithfully the work of "Compensatory Plantation and its Maintenance for 03 years for 1800 Saplings in Lakes/ Parks of BBMP/Govt. premises, Bengaluru by BMRCL, in lieu of felling of Trees located in Kothnoor Depot, R-6, Phase -2, Anjanapura Depot and Viaduct for Depot entry line in R4B and Vijinapura Sy no 79 and Benniganahalli Village Sy No 80 and 83 for road widening works, area development for bus hub, Parking, Multi Model integration etc and Jyothipuram Metro Stations entry exit structures R1-A Projects and other facilities requisite for or incidental to the successful completion of the work and in carrying out all duties and obligations imposed by the Contract.

**Clause 4 Obligations of the Employer:**



For INDUS HERBS

  
PROPRIETOR



The Employer agrees, subject to the terms and conditions of the Contract, to pay the Contractor the amount specified, and at the rates and terms and in the manner set forth in the Contract.

**Clause 5 Contract Price:**

5.1 The Employer agrees to pay the Contractor the total amount mentioned below (hereinafter called the Contract Price) and the Contractor agree to accept the total amount mentioned below for the work carried out by them as part of their obligations, responsibilities and liabilities under and according to the provisions and obligations imposed on them by the Contract for Plantation of 1800 Saplings and their maintenance for a period of 03 years.

INR 55,99,800/- (Indian Rupees Fifty five Lakh Ninety Nine Thousand eight Hundred Only) Excluding GST (Inclusive of duties, royalty and Cess etc).

The Contract Price mentioned above will be increased or decreased during the period of performance of the Contract as specifically provided, if any, in the Conditions of Contract and no additional amount on any other account whatsoever shall be payable to the Contractor.

**Clause 6 Completion Time:**

The duration for plantation of saplings shall be 02 (Two) months separately for each location from the date of issue of Notice to proceed (NTP) and the duration for maintenance of Saplings shall be for a total period of 03 years from the date of completion of plantation work separately for each location.

**Clause 7 Integration:**

The Employer and the Contractor agree that this Contract Agreement, together with the other Contract Documents, expresses all the agreements, understandings, promises, and covenants of the parties, and integrates, combines, and supersedes all prior and contemporaneous negotiations, understandings, and agreements, whether written or oral and no modification or alteration of the Contract shall be valid or binding on either party, unless expressed in writing and executed with the same formality as this Contract Agreement, except as may otherwise be specifically provided in the Contract Documents.

**Clause 8 Governing Law:**

This Contract is enforceable and construed under the applicable laws of the Republic of India.

**Clause 9 Language:**


This Contract Agreement and the other Contract Documents are made in the English language.

**Clause 10 Jurisdiction of Court:**

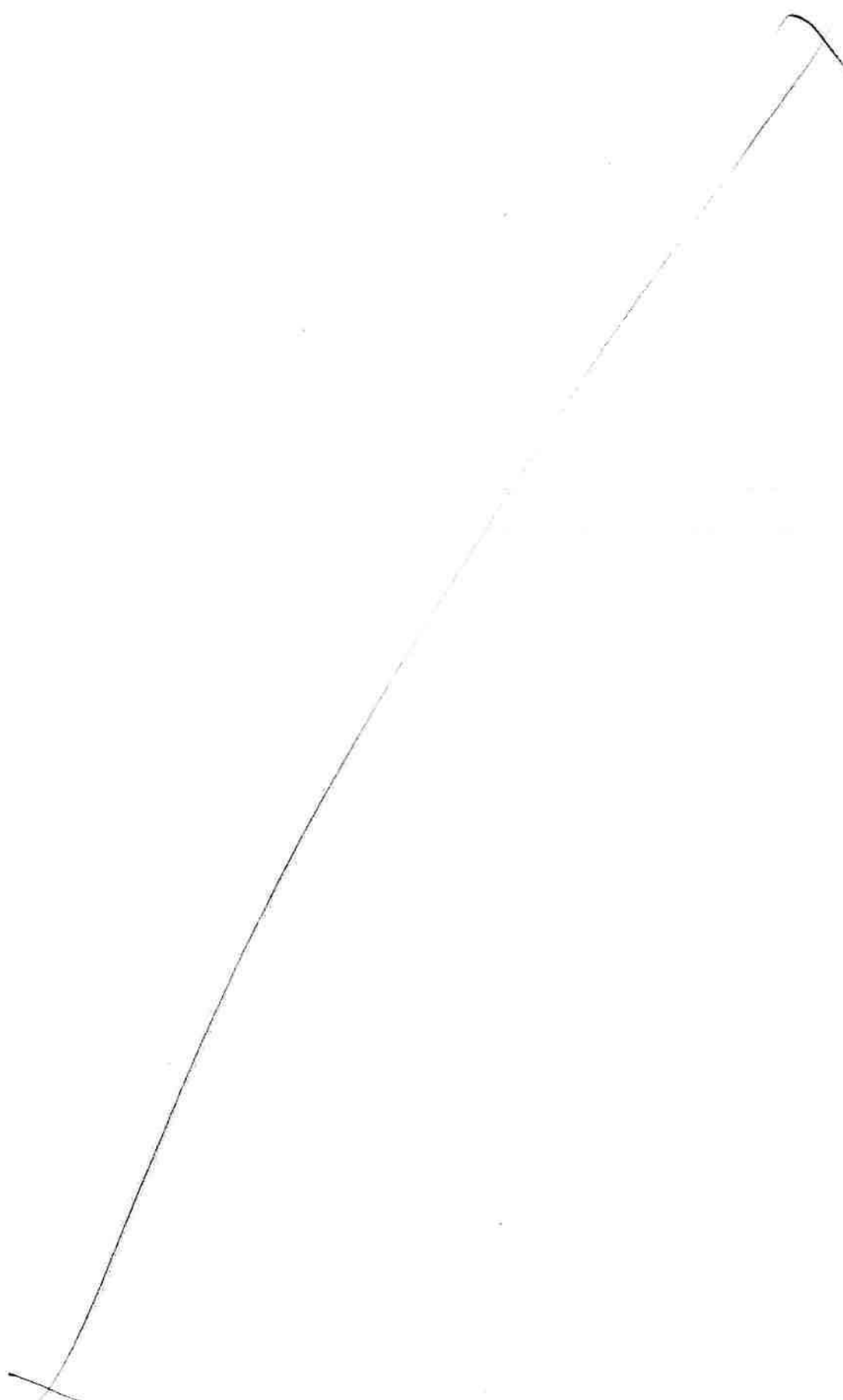
The Courts at Bengaluru shall have the exclusive jurisdiction to adjudicate all the disputes arising out of or concerning this Agreement between the parties.



For INDUS HERBS



PROPRIETOR




3

ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲ್ ನಿಗಮ ನಿಯಮಿತ  
Bangalore Metro Rail Corporation Ltd.

436  
ಮುಂದುವರಿದ ಹಾಳೆ  
Continuation Sheet

IN WITNESS WHEREOF, the parties here to have caused this Contract Agreement to be signed in their respective names by their authorized representatives on the day and year first above written.

For Bangalore Metro Rail Corporation Limited  
(Employer)

  
(Mr. S. S. Hegaraddi)  
Executive Director (Civil-1)

WITNESS \_\_\_\_\_

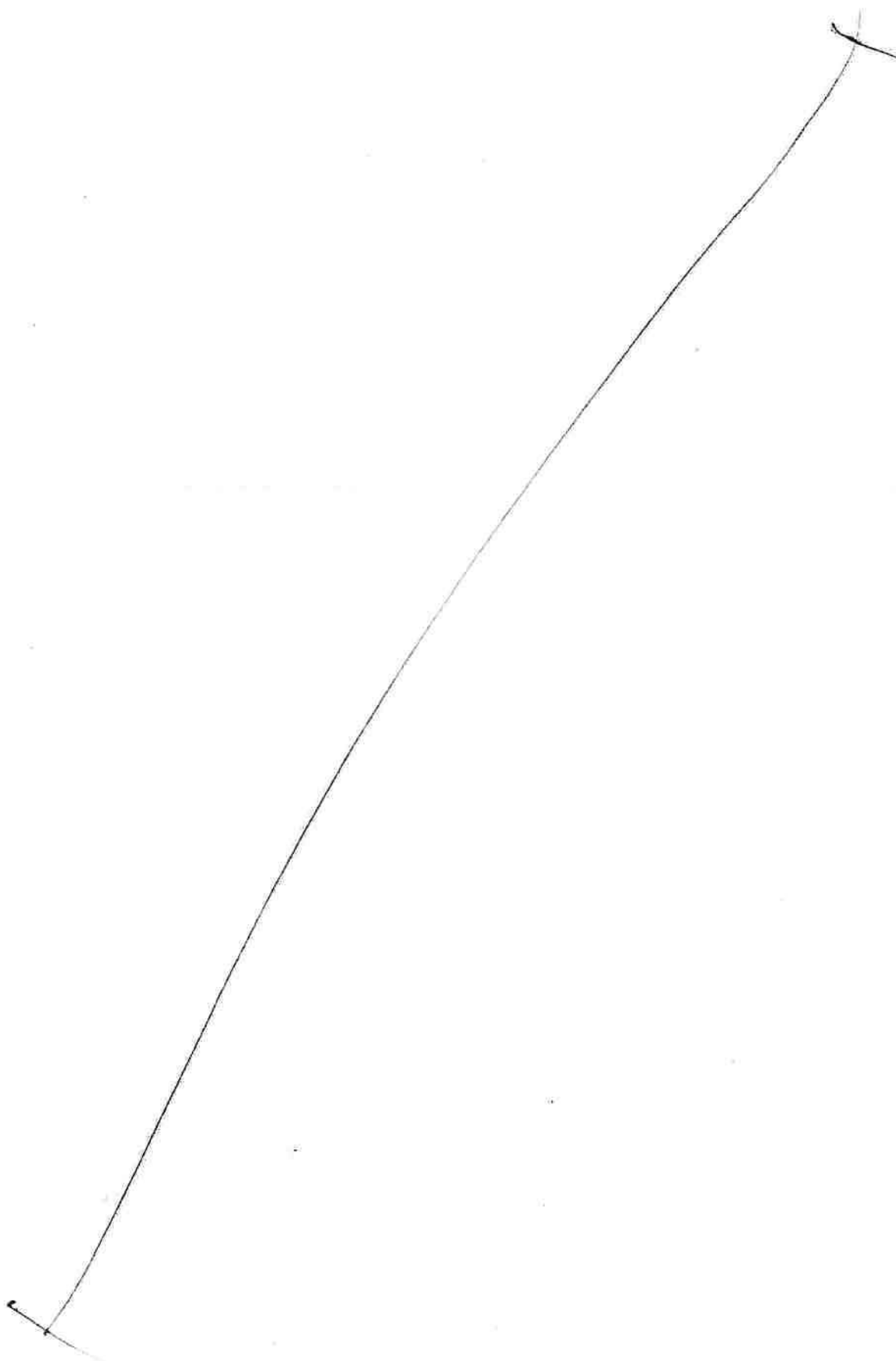
For The Indus Herbs  
(Contractor)  
For INDUS HERBS

  
PROPRIETOR  
Ravindra T C  
Proprietor

WITNESS Bharath S. 10

Bharath S. 10







ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲ್ ನಿಗಮ ನಿಯಮಿತ

(ಸಹಭಾಗಿತ್ವದ - ಕರ್ನಾಟಕ ಸರ್ಕಾರ ಹಾಗೂ ಕೇಂದ್ರ ಸರ್ಕಾರ ಉದ್ಯಮ)  
ನೋಂದಾಯಿತ ಕಛೇರಿ : ಬಿ.ಎಂ.ಟಿ.ಸಿ. ಕಾಂಪ್ಲೆಕ್ಸ್, 3ನೇ ಮಹಡಿ, ಕೆಂಗಲ್ ಹನುಮಂತಯ್ಯ ರಸ್ತೆ, ಶಾಂತಿನಗರ  
ಬೆಂಗಳೂರು - 560 027, ಭಾರತ

**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/SEMU/C-28394/2021-22/5665

Date: 16.09.2021

**LETTER OF ACCEPTANCE (LOA)**

To,  
M/s Garden.Up  
#469, 9<sup>th</sup> Main Road, HAL 2<sup>nd</sup> Stage  
Bangalore - 560038.

(In duplicate)

Dear Sir,

**Sub:** "Raising and Maintenance of plantation of 1800 Saplings in Government Premises, Bangalore during the year 2021- 22

**Ref:** 1) Our letter No.BMRCL/SEMU/C-28394/2021-22/4302 dated 21.08.2021.  
2) Your letter No. Nil dated 24.08.2021  
3) Your revised offer dated 02.09.2021

With reference to the above, it is hereby notified that the Competent Authority has accepted your offer "Raising and Maintenance of plantation of 1800 Saplings in Government Premises, Bangalore" for a total amount of Rs. 55,99,800/- (Rupees Fifty five lakhs and Ninety nine thousand Eight hundred Only) Excluding GST (Including duties, royalty and Cess).

1. **Summary of cost of work:** The scope of proposed plantation & maintenance of Saplings at various government Premises in Bengaluru and the total amount to be paid to the Contractor, is worked out as under:

| Sl.NO. | Scope of work   | Total amount (RS)<br>Excluding GST |
|--------|---|------------------------------------|
| 1      | Plantation of 1800 Nos Saplings (fruit & flower bearing species) as per scope of work mentioned in BOQ (For detailed BOQ refer Appendix - A)                      | 23,35,095/-                        |
| 2      | Maintenance of 1800 Nos Saplings (fruit & flower bearing species) for 03 years period as per scope of work mentioned in BOQ (For detailed BOQ refer Appendix - C) | 32,64,705/-                        |
| Total  |   | 55,99,800                          |

Unconditionally accepted

6-

ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲ್ ನಿಗಮ ನಿಯಮಿತ  
Bangalore Metro Rail Corporation Ltd.

436

ಮುಂದುವರಿದ ಪಾಳೆ  
Continuation Sheet

IN WITNESS WHEREOF, the parties here to have caused this Contract Agreement to be signed in their respective names by their authorized representatives on the day and year first above written.

For Bangalore Metro Rail Corporation Limited  
(Employer)



(Mr. S S Hegaraddi)  
Executive Director (Civil-1)

WITNESS \_\_\_\_\_

For The Indus Herbs  
(Contractor)  
For INDUS HERBS



PROPRIETOR  
Ravindra T C  
Proprietor

WITNESS Bharath. S. to



000

The Employer agrees, subject to the terms and conditions of the Contract, to pay the Contractor the amount specified, and at the rates and terms and in the manner set forth in the Contract.

**Clause 5 Contract Price:**

5.1 The Employer agrees to pay the Contractor the total amount mentioned below (hereinafter called the Contract Price) and the Contractor agree to accept the total amount mentioned below for the work carried out by them as part of their obligations, responsibilities and liabilities under and according to the provisions and obligations imposed on them by the Contract for Plantation of 1800 Saplings and their maintenance for a period of 03 years.

INR 55,99,800/- (Indian Rupees Fifty five Lakh Ninety Nine Thousand eight Hundred Only) Excluding GST (Inclusive of duties, royalty and Cess etc).

The Contract Price mentioned above will be increased or decreased during the period of performance of the Contract as specifically provided, if any, in the Conditions of Contract and no additional amount on any other account whatsoever shall be payable to the Contractor.

**Clause 6 Completion Time:**

The duration for plantation of saplings shall be 02 (Two) months separately for each location from the date of issue of Notice to proceed (NTP) and the duration for maintenance of Saplings shall be for a total period of 03 years from the date of completion of plantation work separately for each location.

**Clause 7 Integration:**

The Employer and the Contractor agree that this Contract Agreement, together with the other Contract Documents, expresses all the agreements, understandings, promises, and covenants of the parties, and integrates, combines, and supersedes all prior and contemporaneous negotiations, understandings, and agreements, whether written or oral and no modification or alteration of the Contract shall be valid or binding on either party, unless expressed in writing and executed with the same formality as this Contract Agreement, except as may otherwise be specifically provided in the Contract Documents.

**Clause 8 Governing Law:**

This Contract is enforceable and construed under the applicable laws of the Republic of India.

**Clause 9 Language:**

This Contract Agreement and the other Contract Documents are made in the English language.

**Clause 10 Jurisdiction of Court:**

The Courts at Bengaluru shall have the exclusive jurisdiction to adjudicate all the disputes arising out of or concerning this Agreement between the parties.



For INDUS HERBS



0000000000

repugnant to the context or meaning thereof be deemed to include its successors and assigns of the one part.

AND

The Indus Herbs, #74 Basavanagudi, Bangalore-560004 represented herein by Mr. Ravindra T C Who is duly authorized to sign and bind the Company

WHEREAS the Contractor in accordance with Indian law offered a quotation and the quotation has been accepted by the Employer for the execution and completion, and remedying of any defects in the work of "Compensatory Plantation and its Maintenance for 03 years for 1800 Saplings in Lakes/ Parks of BBMP/Govt. premises, Bengaluru by BMRCL, in lieu of felling of Trees located in Kothnoor Depot, R-6, Phase -2, Anjanapura Depot and Viaduct for Depot entry line in R4B and Vijinapura Sy no 79 and Benniganahalli Village Sy No 80 and 83 for road widening works, area development for bus hub, Parking, Multi Model integration etc and Jyothipuram Metro Stations entry exit structures R1-A the Contractor agree to undertake performance of the contract work under the terms and conditions set forth in this Contract.

AND WHEREAS, THE Employer agrees to hire and the Contractor agree to be hired to implement the work of "Compensatory Plantation and its Maintenance for 03 years for 1800 Saplings in Lakes/ Parks of BBMP/Govt. premises, Bengaluru by BMRCL, in lieu of felling of Trees located in Kothnoor Depot, R-6, Phase -2, Anjanapura Depot and Viaduct for Depot entry line in R4B and Vijinapura Sy no 79 and Benniganahalli Village Sy No 80 and 83 for road widening works, area development for bus hub, Parking, Multi Model integration etc and Jyothipuram Metro Stations entry exit structures R1-A Projects under the terms and conditions specified in this Contract Agreement and the other Contract Documents

Now THEREFORE the parties hereby agree as follows:

**Clause 1 Words and Expressions:**

In this Contract all the words and expressions shall have the same meanings as are respectively assigned to them in the conditions of contract hereinafter referred to,

**Clause 2 the Contract Documents:**

The Letter of Acceptance along with its enclosures (Appendix-A, B & C) shall be deemed to form and be read and construed as a part of this Contract Agreement.

**Clause 3 Obligations of the Contractor:**

The mutual rights and Obligations of the Employer and the Contractor shall be as set forth in Contract and in particular:-

The Contractor agrees, subject to the terms and conditions of the Contract, to perform efficiently and faithfully the work of "Compensatory Plantation and its Maintenance for 03 years for 1800 Saplings in Lakes/ Parks of BBMP/Govt. premises, Bengaluru by BMRCL, in lieu of felling of Trees located in Kothnoor Depot, R-6, Phase -2, Anjanapura Depot and Viaduct for Depot entry line in R4B and Vijinapura Sy no 79 and Benniganahalli Village Sy No 80 and 83 for road widening works, area development for bus hub, Parking, Multi Model integration etc and Jyothipuram Metro Stations entry exit structures R1-A Projects and other facilities requisite for or incidental to the successful completion of the work and in carrying out all duties and obligations imposed by the Contract.

**Clause 4 Obligations of the Employer:**

For INDUS HERBS

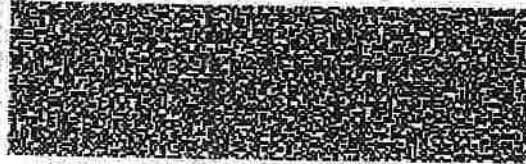


INDIA NON JUDICIAL

**Government of Karnataka**

**e-Stamp**

Certificate No. : IN-KA16324593653344T  
Certificate Issued Date : 28-Sep-2021 02:37 PM  
Account Reference : NONACC/ kakscsa08/ NAGENDRA BLOCK/ KA-BA  
Unique Doc. Reference : SUBIN-KAKAKSCSA0888785394379200T  
Purchased by : INDUS HERBS  
Description of Document : Article 12 Bond  
Description : CONTRACT AGREEMENT  
Consideration Price (Rs.) : 0  
(Zero)  
First Party : BANGALORE METRO RAIL CORPORATION LTD  
Second Party : INDUS HERBS  
Stamp Duty Paid By : INDUS HERBS  
Stamp Duty Amount(Rs.) : 200  
(Two Hundred only)



Please write or type below this line

**Contract Agreement**

No. BMRCL/SEMU/C-28394/2021-22 /LOA-Part-5

This Contract Agreement (hereinafter called the "Contract") is made at Bengaluru on this the 04 day of September 2021 by and between:

October (21)

BANGALORE METRO RAIL CORPORATION LIMITED, a Public Limited Company incorporated under Companies Act, 1956, having its registered office at III Floor, BMTC Complex, K.H.Road, Shantinagar, Bengaluru-560027, represented herein by Mr. S.S Hegaraddi, Executive Director (Civil-1), hereinafter referred to as "BMRCL" or "Employer" as the case may be, which expression shall unless excluded by or

For INDUS HERBS

Statutory Alert

The authenticity of this Stamp Certificate shown is verified at [www.stampcertification.com](http://www.stampcertification.com) by using a Stamp Mobile App or Stamp Holding and discrepancy in the details on this Certificate and as available on the Website, Mobile App and Stamp Holding.

ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲ್ ನಿಗಮ ನಿಯಮಿತ  
Bangalore Metro Rail Corporation Ltd.

1440  
Continuation Sheet

IN WITNESS WHEREOF, the parties here to have caused this Contract Agreement to be signed in their respective names by their authorized representatives on the day and year first above written.

For Bangalore Metro Rail Corporation Limited  
(Employer)

For Garden Up  
(Contractor)

  
(Mr. S S Hegaraddi)  
Executive Director(Civil-1)

WITNESS \_\_\_\_\_

(Mr. Joyappa)  
For GARDEN.UP  
Proprietor

WITNESS \_\_\_\_\_

**Clause 4 Obligations of the Employer**

The Employer agrees, subject to the terms and conditions of the Contract, to pay the Contractor the amount specified, and at the rates and terms and in the manner set forth in the Contract.

**Clause 5 Contract Price.**

5.1 The Employer agrees to pay the Contractor the total amount mentioned below (hereinafter called the Contract Price) and the Contractor agree to accept the total amount mentioned below for the work carried out by them as part of their obligations, responsibilities and liabilities under and according to the provisions and obligations imposed on them by the Contract for Plantation of 1800 Saplings and their maintenance for a period of 03 years.

INR 55,99,800/- (Indian Rupees Fifty five Lakh Ninety Nine Thousand eight Hundred Only) Excluding GST (Inclusive of duties, royalty and Cess etc).

The Contract Price mentioned above will be increased or decreased during the period of performance of the Contract as specifically provided, if any, in the Conditions of Contract and no additional amount on any other account whatsoever shall be payable to the Contractor.

**Clause 6 Completion Time:**

The duration for plantation of saplings shall be 02 (Two) months as per LOA separately for each location from the date of issue of Notice to proceed (NTP) and the duration for maintenance of Saplings shall be for a total period of 03 years from the date of completion of plantation work separately for each location.

**Clause 7 Integration:**

The Employer and the Contractor agree that this Contract Agreement, together with the other Contract Documents, expresses all the agreements, understandings, promises, and covenants of the parties, and integrates, combines, and supersedes all prior and contemporaneous negotiations, understandings, and agreements, whether written or oral and no modification or alteration of the Contract shall be valid or binding on either party, unless expressed in writing and executed with the same formality as this Contract Agreement, except as may otherwise be specifically provided in the Contract Documents.

**Clause 8 Governing Law:**

This Contract is enforceable and construed under the applicable laws of the Republic of India.

**Clause 9 Language:**

This Contract Agreement and the other Contract Documents are made in the English language.

**Clause 10 Jurisdiction of Court:**

The Courts at Bengaluru shall have the exclusive jurisdiction to adjudicate all the disputes arising out of or concerning this Agreement between the parties.

For GARDEN.UP

  
Proprietor





repugnant to the context or meaning thereof be deemed to include its successors and assigns, of the one part.

AND

The Garden Up #463 9<sup>th</sup> Main HAL 2<sup>nd</sup> stage, Near Indira Nagar Club, Bangalore Karnataka 560038 represented herein by Mr. Joyappa, Proprietor who is duly authorized to sign and bind the Company.

WHEREAS, the Contractor in accordance with Indian law offered a quotation and the quotation has been accepted by the Employer for the execution and completion, and remedying of any defects in the work of "Compensatory Plantation and its Maintenance for 03 years for 1800 Saplings in Lakes/ Parks of BBMP/Govt. premises, Bengaluru by BMRCL; in lieu of felling of Trees located in Kothnoor Depot, R-6, Phase -2, Anjanapura Depot and Viaduct for Depot entry line in R4B and Vijinapura Sy no 79 and Benniganahalli Village Sy No 80 and 83 for road widening works, area development for bus hub, Parking, Multi Model integration etc and Jyothipuram Metro Stations entry exit structures R1-A. the Contractor agree to undertake performance of the contract work under the terms and conditions set forth in this Contract.

AND WHEREAS, THE Employer agrees to hire and the Contractor agree to be hired to implement the work of "Compensatory Plantation and its Maintenance for 03 years for 1800 Saplings in Lakes/ Parks of BBMP/Govt. premises, Bengaluru by BMRCL, in lieu of felling of Trees located in Kothnoor Depot, R-6, Phase -2, Anjanapura Depot and Viaduct for Depot entry line in R4B and Vijinapura Sy no 79 and Benniganahalli Village Sy No 80 and 83 for road widening works, area development for bus hub, Parking, Multi Model integration etc and Jyothipuram Metro Stations entry exit structures R1-A Projects under the terms and conditions specified in this Contract Agreement and the other Contract Documents.

Now THEREFORE the parties hereby agree as follows:

**Clause 1 Words and Expressions:**

In this Contract all the words and expressions shall have the same meanings as are respectively assigned to them in the conditions of contract hereinafter referred to,

**Clause 2 the Contract Documents:**

The Letter of Acceptance along with its enclosures (Appendix-A, B & C) shall be deemed to form and be read and construed as a part of this Contract Agreement.

**Clause 3 Obligations of the Contractor:**

The mutual rights and Obligations of the Employer and the Contractor shall be as set forth in Contract and in particular:-

The Contractor agrees, subject to the terms and conditions of the Contract, to perform efficiently and faithfully the work of "Compensatory Plantation and its Maintenance for 03 years for 1800 Saplings in Lakes/ Parks of BBMP/Govt. premises, Bengaluru by BMRCL, in lieu of felling of Trees located in Kothnoor Depot, R-6, Phase -2, Anjanapura Depot and Viaduct for Depot entry line in R4B and Vijinapura Sy no 79 and Benniganahalli Village Sy No 80 and 83 for road widening works, area development for bus hub, Parking, Multi Model integration etc and Jyothipuram Metro Stations entry exit structures R1-A Projects and other facilities requisite for or incidental to the successful completion of the work and in carrying out all duties and obligations imposed by the Contract.

For GARDEN UP





सत्यमेव जयते

INDIA NON JUDICIAL

Government of Karnataka

Rs. 200

e-Stamp

Certificate No. : IN-KA12844603373555T

Certificate Issued Date : 24-Sep-2021 11:56 AM

Account Reference : NONACC (FI) kacrsf108/ SHANTHINAGAR/ KA-BA

Unique Doc. Reference : SUBIN-KAKACRSFL0882373396811855T

Purchased by : GARDEN UP

Description of Document : Article 12 Bond

Descriptions : AGREEMENT

Consideration Price (Rs.) : 0  
(Zero)

First Party : BMRCL

Second Party : GARDEN UP

Stamp Duty Paid By : GARDEN UP

Stamp Duty Amount (Rs.) : 200  
(Two Hundred only)



Please write or type below this line

Contract Agreement

No. BMRCL/SEMU/C-28394/2021-22/LOA-Part-2)

This Contract Agreement (hereinafter called the "Contract") is made at Bengaluru on this the 04 day of September 2021 by and between:

October 24

BANGALORE METRO RAIL CORPORATION LIMITED, a Public Limited Company incorporated under Companies Act, 1956, having its registered office at III Floor, BMTCL Complex, K.H. Road, Shantinagar, Bengaluru-560027, represented herein by Mr. S.S. Hagaraddi, Executive Director (Civil-1), hereinafter referred to as "BMRCL" or "Employer" as the case may be, which expression shall unless excluded by or

For GARDEN UP

Statutory Alert:

1. The authenticity of this Stamp certificate should be verified at [www.stampstamp.com/](http://www.stampstamp.com/) or using a Stamp Mobile App of Stock Holding Corporation of India.



7.This Letter of Acceptance shall constitute a contract and an affirmation that all parts of this LOA have been read and fully understood by you. Until a formal agreement is signed, this Letter of Acceptance will constitute a binding contract between **Asian landscape** and **BMRCL**.

8.This Letter of Acceptance is sent herewith to you in duplicate. You are requested to return one copy of it duly signed by the authorized signatory on all pages indicating "**Unconditional Acceptance**" thereof so as to reach the undersigned within one week of the receipt of this letter of acceptance.

9.This Letter of Acceptance is issued with the approval of Competent Authority of Bangalore Metro Rail Corporation Ltd, Bengaluru.

Thanking you,

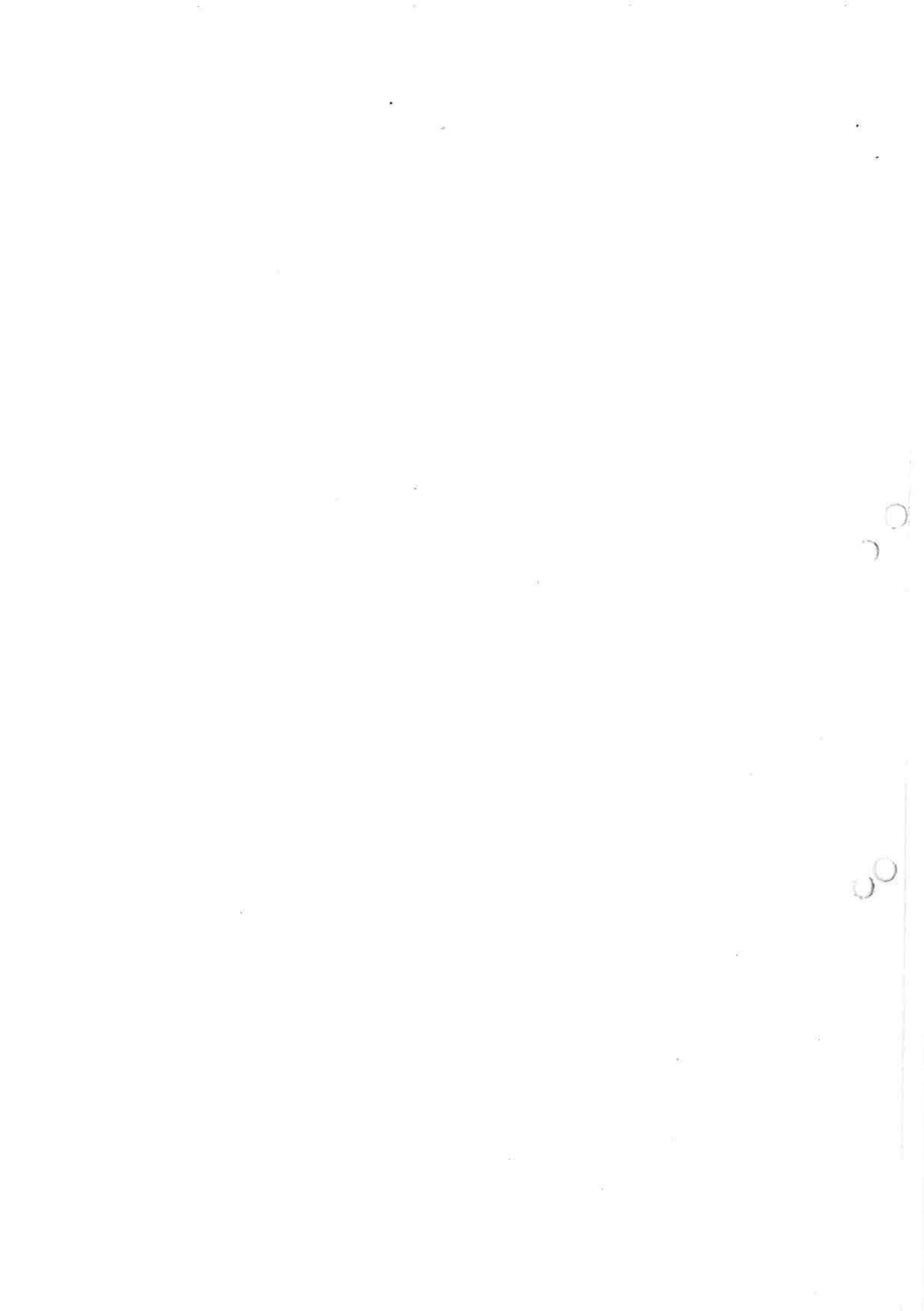
Yours faithfully



(S.S.Hegaraddi)  
Executive Director (Civil)

Copy to:

- |                               |   |
|-------------------------------|---|
| 1. Director (P&P)             | - for kind information                      |
| 2. CFO                        | - for kind information and necessary action |
| 3. General Manager (Contract) | -for kind information and necessary action  |
| 4. Company Secretary          | - for kind information.                     |



**2. Scope of work:** The CONTRACTOR shall execute and complete the work including maintenance thereof to the full satisfaction of Environment officer BMRCL as per the detailed scope of work and other terms & conditions of contract specified in **Appendix-A** to this letter of acceptance. The CONTRACTOR shall fulfil its obligations in conformity with the time schedule stated therein. Further, that the CONTRACTOR shall perform the work and carry out its obligations hereunder with all due diligence, efficiency and economy, in accordance with the best practices under the technical supervision and guidance of concerned DCF, BBMP/ Urban by the use of safe and effective equipment, materials and methods. The CONTRACTOR shall always act, in respect of any matter relating to this contract, as a faithful adviser to BMRCL, and shall at all times support and safeguard the BMRCL's legitimate interests in any dealings with Third Parties.

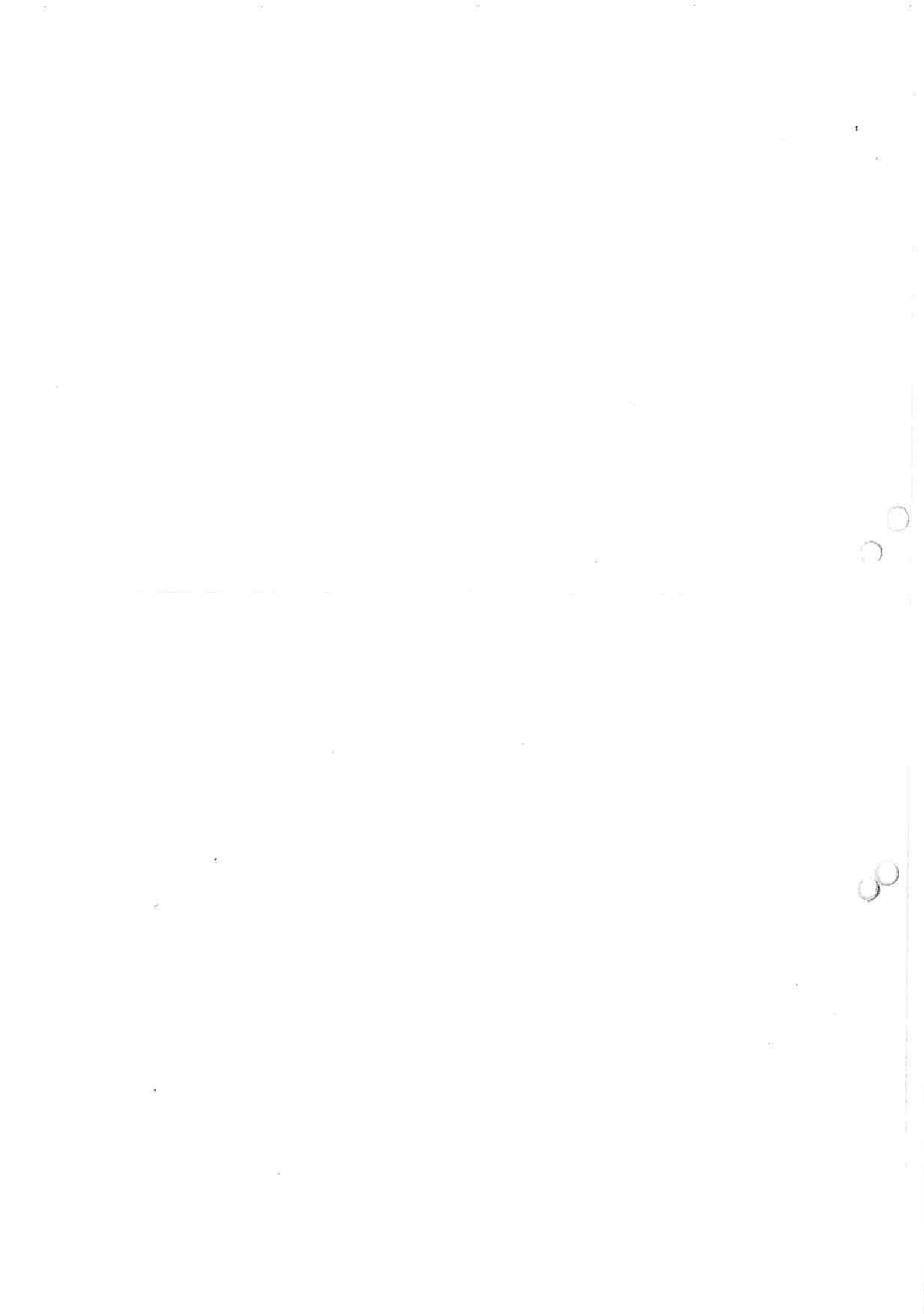
**3. Completion period of work:** The whole plantation work shall be taken up and completed as instructed at each designated area by BMRCL within **02 (Two) months** from the date of issue of Notice to proceed (NTP) by the CE (SEMU)/Environmental officer under this contract. Further the Maintenance work of saplings as specified shall be carried out for a minimum period of 3 years separately at each location where saplings were planted. The duration will be counted from the date of completion of plantation of Saplings at that particular location where saplings were Planted. The Contractor has to obtain the counter Signature from Concerned DCF on completion report before final payments.

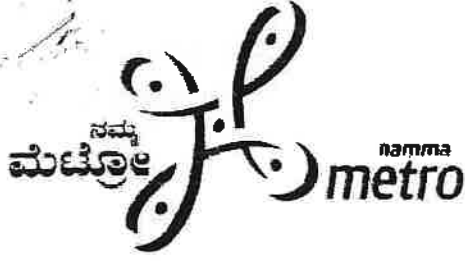
**4. Performance security:** Within 21 days of issue of Letter of Acceptance and before entering into the contract, you shall furnish performance security for an amount equivalent to 3% of contract price of Rs 67,57,438/- i.e. Rs. 2,07,723/- (Two Lakh seven thousand Seven Hundred Twenty-Three only) in the form of a Bank Guarantee from an Indian Scheduled Bank (excluding Co- operative banks) or from a Scheduled Foreign Bank as defined in Section 2(e) of RBI Act 1934 read with Second Scheduled in the form acceptable to the BMRCL. The bank Guarantee is to be payable at designated branch in Bangalore only. Alternatively, you may submit DD or Bankers cheque of required amount in favour of BMRCL and payable at Bangalore. The Performance Security BG shall remain valid till expiry of contract period stated therein (including any extensions) and it will be released after issue of performance certificate by the EO/ AEO BMRCL.

**5. Signing of contract agreement:** It shall be noted that, you should enter into a Contract Agreement with BMRCL on a non-judicial stamp paper of worth Rs 200/- within 28 days from the date of issue of this LOA.

**6. Nomination of Environment officer:** EO of BMRCL is nominated as Tree officer of BMRCL for this contract. You are hereby advised that further correspondence shall be made with him directly for taking instructions to proceed with the work.

SP.





## ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲ್ ನಗರ ನಿಗಮ

(ಸಹಭಾಗಿತ್ವದ - ಕರ್ನಾಟಕ ಸರ್ಕಾರ ಹಾಗೂ ಕೇಂದ್ರ ಸರ್ಕಾರ ಉದ್ಯಮ)  
ನೋಂದಾಯಿತ ಕಛೇರಿ : ಬಿ.ಎಂ.ಟಿ.ಸಿ. ಕಾಂಪ್ಲೆಕ್ಸ್, 3ನೇ ಮಹಡಿ, ಕೆ.ಎಂ.ರಸ್ತೆ, ಶಾಂತಿನಗರ  
ಬೆಂಗಳೂರು - 560 027, ಭಾರತ

### 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/SEMU/C-27658/2021-22/3632

Date: 04.08.2021

#### LETTER OF ACCEPTANCE (LOA)

To,  
The Asian Landscapes,  
#489, FarmHouse, Balageri Road, Varthur,  
Bangalore-560087  
Email asian.nursery@gmail.com

(In duplicate)

Dear Sir,

**Sub:** "Raising and Maintenance of plantation of 2125 Saplings in Government Premises, Bangalore during the year 2021- 22

**Ref:** 1) Our letter No. BMRCL/CE/SEMU/CP/2021/943 dated 15.05.2021.

2) Your Letter no nil dated 18.05.2021 and 30/05/2021

With reference to the above, it is hereby notified that the Competent Authority has accepted your offer "Raising and Maintenance of plantation of 2125 Saplings in Government Premises, Bangalore" for a total amount of **Rs. 67,57,438/-** (Rupees sixty-seven Lakh and fifty-seven thousand four hundred thirty Eight Only) ) Excluding GST (Including duties, royalty and Cess etc).

**1. Summary of cost of work:** The scope of proposed plantation & maintenance of Saplings at various government Premises in Bengaluru and the total amount to be paid to the Asian landscape is worked out as under:

| Sl.NO. | Scope of work   | Total amount (RS)<br>Excluding taxes |
|--------|---|--------------------------------------|
| 1      | Plantation of 2125 No's Saplings (fruit & flower bearing species) as per scope of work mentioned in BOQ ( The list of Saplings attached with this LOA as Appendix - B ) | 27,03,922/-                          |
| 2      | Maintenance of 2125 Nos Saplings (fruit & flower bearing species) for 03 years period as per scope of work mentioned in BOQ (For detailed BOQ refer Appendix-C)         | 40,53,516/-                          |
| Total  |   | 67,57,438/-                          |

*unconditionally accepted*  
*Seen*  
PROPRIETOR

*Seen*



ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲ್ ನಿಗಮ ನಿಯಮಿತ  
Bangalore Metro Rail Corporation Ltd.

ಮುಂದುವರಿದ ಹಾಳೆ  
Continuation Sheet

IN WITNESS WHEREOF, the parties here to have caused this Contract Agreement to be signed in their respective names by their authorized representatives on the day and year first above written.

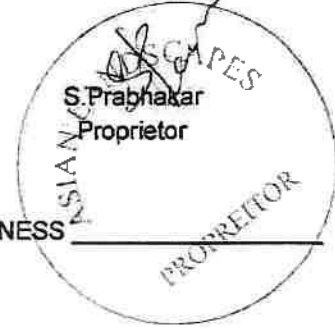
For Bangalore Metro Rail Corporation Limited  
(Employer)



(Mr. S.S. Hegaraddi)  
Executive Director (Civil-1)

WITNESS \_\_\_\_\_

For Asian Landscapes  
(Contractor)



WITNESS \_\_\_\_\_

(Jayanagar fire Station) to North Ramp (Nagawara) on Reach-6 UG, Kadugodi Metro Station, White Field Metro Station and Kadugodi, Long Ford UG Station and Kothnoor Depot Entry Line R6 Projects and other facilities requisite for or incidental to the successful completion of the work and in carrying out all duties and obligations imposed by the Contract.

**Clause 4 Obligations of the Employer:**

The Employer agrees, subject to the terms and conditions of the Contract, to pay the Contractor the amount specified, and at the rates and terms and in the manner set forth in the Contract.

**Clause 5 Contract Price:**

5.1 The Employer agrees to pay the Contractor the total amount mentioned below (hereinafter called the Contract Price) and the Contractor agree to accept the total amount mentioned below for the work carried out by them as part of their obligations, responsibilities and liabilities under and according to the provisions and obligations imposed on them by the Contract for Plantation of 2125 Saplings and their maintenance for a period of 03 years.

INR 67,57,438/- (Indian Rupees Sixty Seven Lakhs and Fifty Seven Thousand Four hundred Thirty eight only) Excluding GST (Inclusive of duties, royalty and Cess etc).

The Contract Price mentioned above will be increased or decreased during the period of performance of the Contract as specifically provided, if any, in the Conditions of Contract and no additional amount on any other account whatsoever shall be payable to the Contractor.

**Clause 6 Completion Time:**

The duration for plantation of saplings shall be 02 (Two) months separately for each location from the date of issue of Notice to proceed (NTP) and the duration for maintenance of Saplings shall be for a minimum period of 03 years from the date of completion of plantation work separately for each location.

**Clause 7 Integration:**

The Employer and the Contractor agree that this Contract Agreement, together with the other Contract Documents, expresses all the agreements, understandings, promises, and covenants of the parties, and integrates, combines, and supersedes all prior and contemporaneous negotiations, understandings, and agreements, whether written or oral and no modification or alteration of the Contract shall be valid or binding on either party, unless expressed in writing and executed with the same formality as this Contract Agreement, except as may otherwise be specifically provided in the Contract Documents.

**Clause 8 Governing Law:**

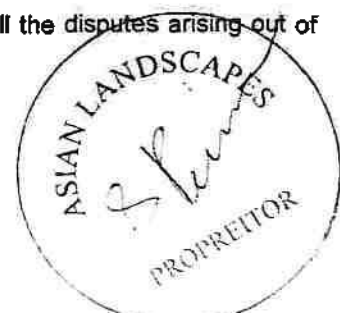
This Contract is enforceable and construed under the applicable laws of the Republic of India.

**Clause 9 Language:**

This Contract Agreement and the other Contract Documents are made in the English language.

**Clause 10 Jurisdiction of Court:**

The Courts at Bengaluru shall have the exclusive jurisdiction to adjudicate all the disputes arising out of or concerning this Agreement between the parties.



BANGALORE METRO RAIL CORPORATION LIMITED, a Public Limited Company incorporated under Companies Act, 1956, having its registered office at III Floor, BMTC Complex, K.H.Road, Shantinagar, Bengaluru-560027, represented herein by Mr. S.S Hegaraddi, Executive Director (Civil-1), hereinafter referred to as "BMRCL" or "Employer" as the case may be, which expression shall unless excluded by or repugnant to the context or meaning thereof be deemed to include its successors and assigns, of the one part.

AND

The Asian Landscapes, #489, FarmHouse, Balageri Road, Varthur, Bangalore- 560087, email [asian.nursery@gmail.com](mailto:asian.nursery@gmail.com) represented herein by Mr. S Prabhakar Who is duly authorized to sign and bind the Company.

WHEREAS, the Contractor in accordance with Indian law offered a quotation and the quotation has been accepted by the Employer for the execution and completion, and remedying of any defects in the work of "Compensatory Plantation and its Maintenance for 03 years for 2125 Saplings in Lakes/ Parks of BBMP/Govt. premises, Bengaluru by BMRCL, in lieu of felling of Trees in Benniganahalli Lake Bund (R1A), RV Road and HSR Layout via Marenahalli in Reach-5 Package -3, South ramp (Jayanagar fire Station) to North Ramp (Nagawara) on Reach-6 UG, Kadugodi Metro Station, White Field Metro Station and Kadugodi, Long Ford UG Station and Kothnoor Depot Entry Line R6 Projects Ref: No.BMRCL/SEMU/C-27658/2021-22 /LOA/3632 Dated 04/08/2021, the Contractor agree to undertake performance of the contract work under the terms and conditions set forth in this Contract.

AND WHEREAS, THE Employer agrees to hire and the Contractor agree to be hired to implement the work of "Compensatory Plantation and its Maintenance for 03 years for 2125 Saplings in Lakes/ Parks of BBMP/Govt. premises, Bengaluru by BMRCL, in lieu of felling of Trees in Benniganahalli Lake Bund (R1A), RV Road and HSR Layout via Marenahalli in Reach-5 Package -3, South ramp (Jayanagar fire Station) to North Ramp (Nagawara) on Reach-6 UG, Kadugodi Metro Station, White Field Metro Station and Kadugodi, Long Ford UG Station and Kothnoor Depot Entry Line R6 Projects under the terms and conditions specified in this Contract Agreement and the other Contract Documents.

Now THEREFORE the parties hereby agree as follows:

Clause 1 Words and Expressions:

In this Contract all the words and expressions shall have the same meanings as are respectively assigned to them in the conditions of contract hereinafter referred to,

Clause 2 the Contract Documents:

The Letter of Acceptance along with its enclosures (Appendix-A, B & C) shall be deemed to form and be read and construed as a part of this Contract Agreement.

Clause 3 Obligations of the Contractor:

The mutual rights and Obligations of the Employer and the Contractor shall be as set forth in Contract and in particular:-

The Contractor agrees, subject to the terms and conditions of the Contract, to perform efficiently and faithfully the work of "Compensatory Plantation and its Maintenance for 03 years for 2125 Saplings in Lakes/ Parks of BBMP/Govt. premises, Bengaluru by BMRCL, in lieu of felling of Trees in Benniganahalli Lake Bund (R1A), RV Road and HSR Layout via Marenahalli in Reach-5 Package -3, South ramp







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Bangalore Metro Rail Corporation Ltd.

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Continuation Sheet

8. This Letter of Acceptance is issued with the approval of Competent Authority of Bangalore Metro Rail Corporation Ltd, Bengaluru.

*unconditionally accepted*

Thanking you



Yours faithfully

(S.S. Hegaraddi)  
Executive Director (Civil)

Copy to:

- |                               |   |
|-------------------------------|---|
| 1. Director (P&P)             | - for kind information                      |
| 2. ED/Finance                 | - for kind information and necessary action |
| 3. General Manager (Contract) | - for kind information and necessary action |
| 4. Company Secretary          | - for kind information.                     |
| 5. Chief Engineer (UG)        | - for kind information.                     |
| 6. Chief Engineer (SEMU)      | - for kind information and necessary action |



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ಮುಂದುವರಿದ ಹಾಳೆ

Bangalore Metro Rail Corporation Ltd.

Continuation Sheet

2. **Scope of work:** The M/s United Way Bengaluru shall execute and complete the work including maintenance thereof to the full satisfaction of Environment officer BMRCL as per the detailed scope of work and other terms & conditions of contract specified in **Appendix-A** to this letter of acceptance. The Contractor shall fulfil its obligations in conformity with the time schedule stated therein. Further, that the Contractor shall perform the work and carry out its obligations hereunder with all due diligence, efficiency and economy, in accordance with the best practices under the technical supervision and guidance of concerned DCF, BBMP/Urban by the use of safe and effective equipment, materials and methods. The Contractor shall always act, in respect of any matter relating to this contract, as a faithful adviser to BMRCL, and shall at all times support and safeguard the BMRCL's legitimate interests in any dealings with Third Parties.
3. **Completion period of work:** The whole plantation work shall be taken up and completed as instructed at each location of BBMP lake/designated area by BMRCL within (Two) months from the date of issue of Notice to proceed (NTP) by the nominated Environmental officer under this contract. Further the Maintenance work of saplings as specified shall be carried out for a minimum period of 3 years separately at each location of BBMP lake/park/Govt. Premises. the duration will be counted from the date of completion of plantation of Saplings at that particular location of BBMP lake/park.
4. **Signing of contact agreement:** It shall be noted that, you should enter into a Contract Agreement with BMRCL on a non-judicial stamp paper of worth Rs 200/- within 15 days from the date of issue of this LOA.
5. **Nomination of Environment officer:** Environment Officer of BMRCL is nominated as Tree officer of BMRCL for this contract. You are hereby advised that further correspondence shall be made with him directly for taking instructions to proceed with the work.
6. This Letter of Acceptance shall constitute a contract and an affirmation that all parts of this LOA have been read and fully understood by you. Until a formal agreement is signed, this Letter of Acceptance will constitute a binding contract between M/s United Way Bengaluru and BMRCL.
7. This Letter of Acceptance is sent herewith to you in duplicate. You are requested to return one copy of it duly signed by the authorised signatory on all pages indicating "**Unconditional Acceptance**" thereof so as to reach the undersigned within one week of the receipt of this letter of acceptance.

unconditionally Accepted









ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲ್ ನಿಗಮ ನಿಯಮಿತ

(ಸಹಭಾಗಿತ್ವದ - ಕರ್ನಾಟಕ ಸರ್ಕಾರ ಹಾಗೂ ಕೇಂದ್ರ ಸರ್ಕಾರ ಒಡ್ಡುಮೆ)  
ನೋಂದಾಯಿತ ಕಛೇರಿ : ಬಿ.ಎಂ.ಟಿ.ಸಿ. ಕಾಂಪ್ಲೆಕ್ಸ್, 3ನೇ ಮಹಡಿ, ಕೆಂಗಲ್ ಹನುಮಂತಯ್ಯ ರಸ್ತೆ, ಶಾಂತಿನಗರ  
ಬೆಂಗಳೂರು - 560 027, ಭಾರತ

**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/SEMU/C-28394/2021-22/

15664

Date: 16.09.2021

**LETTER OF ACCEPTANCE (LOA)**

To,  
M/s United Way Bengaluru  
Crimson Court, 1#5,# rd floor,  
Jeevan Bheema Nagar Main road,  
Bangalore - 560075

(In duplicate)

Dear Sir,

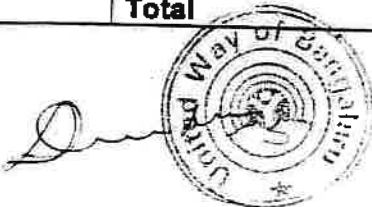
Sub: "Raising and Maintenance of plantation of 1800 Saplings in Government Premises,  
Bangalore during the year 2021- 22

Ref: 1) Our letter No.BMRCL/SEMU/C-28394/2021-22/4300 dated 21.08.2021.  
2) Your letter.No. Nil/ dated 26.08.2021. & dated 03.09.2021

With reference to the above, it is hereby notified that the Competent Authority has accepted your offer "The Raising and Maintenance of plantation of 1800 Saplings in Government Premises, Bangalore" for a total amount of **Rs. 55,99,800/-** (Rupees Fifty five lakhs and Ninety nine thousand Eight hundred Only) Excluding GST (Including duties, royalty and Cess).

1. **Summary of cost of work:** The scope of proposed plantation & maintenance of Saplings at various government Premises in Bengaluru and the total amount to be paid to the Contractor, is worked out as under:

| Sl.NO. | Scope of work   | Total amount (RS)<br>Excluding GST |
|--------|---|------------------------------------|
| 1      | Plantation of 1800 Nos Saplings (fruit & flower bearing species) as per scope of work mentioned in BOQ (for detailed BOQ refer Appendix - B)                      | 23,35,095                          |
| 2      | Maintenance of 1800 Nos Saplings (fruit & flower bearing species) for 03 years period as per scope of work mentioned in BOQ (For detailed BOQ refer Appendix - C) | 32,64,705                          |
| Total  |   | 55,99,800                          |



unconditionally accepted

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Bangalore Metro Rail Corporation Ltd.

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ಪ್ರಾಚಾರ್ಯಾಂಗಿಕಾ ಪತ್ರ  
Continuation Sheet

IN WITNESS WHEREOF, the parties here to have caused this Contract Agreement to be signed in their respective names by their authorized representatives on the day and year first above written

For Bangalore Metro Rail Corporation Limited  
(Employer)



(Mr. S.S. Hegaraddi)  
Executive Director (Civil-1)

WITNESS \_\_\_\_\_

For The United Way of Bengaluru

~~Contractor~~ NFO



Veri. S. Sudhakar  
Director Finance, HR and Admin

WITNESS \_\_\_\_\_

*Sudhakar*

The Employer agrees, subject to the terms and conditions of the Contract, to pay the Contractor the amount specified, and at the rates and terms and in the manner set forth in the Contract.

**Clause 5 Contract Price**

5.1 The Employer agrees to pay the Contractor the total amount mentioned below (hereinafter called the Contract Price) and the Contractor agree to accept the total amount mentioned below for the work carried out by them as part of their obligations, responsibilities and liabilities under and according to the provisions and obligations imposed on them by the Contract for Plantation of 1800 Saplings and their maintenance for a period of 03 years.

INR 55,99,800/- (Indian Rupees Fifty five Lakh Ninety Nine Thousand eight Hundred Only) Excluding GST (Inclusive of duties, royalty and Cess etc).

The Contract Price mentioned above will be increased or decreased during the period of performance of the Contract as specifically provided, if any, in the Conditions of Contract and no additional amount on any other account whatsoever shall be payable to the Contractor.

**Clause 6 Completion Time:**

The duration for plantation of saplings shall be 02 (Two) months as mentioned in LOA separately for each location from the date of issue of Notice to proceed (NTP) and the duration for maintenance of Saplings shall be for a total period of 03 years from the date of completion of plantation work separately for each location.

**Clause 7 Integration:**

The Employer and the Contractor agree that this Contract Agreement, together with the other Contract Documents, expresses all the agreements, understandings, promises, and covenants of the parties, and integrates, combines, and supersedes all prior and contemporaneous negotiations, understandings, and agreements, whether written or oral and no modification or alteration of the Contract shall be valid or binding on either party, unless expressed in writing and executed with the same formality as this Contract Agreement, except as may otherwise be specifically provided in the Contract Documents.

**Clause 8 Governing Law:**

This Contract is enforceable and construed under the applicable laws of the Republic of India.

**Clause 9 Language:**

This Contract Agreement and the other Contract Documents are made in the English language.

**Clause 10 Jurisdiction of Court:**

The Courts at Bengaluru shall have the exclusive jurisdiction to adjudicate all the disputes arising out of or concerning this Agreement between the parties.



446

repugnant to the context or meaning thereof be deemed to include its successors and assigns, of the one part

AND

The United Way of Bengaluru, Crimson Court/I HAL 3 rd Stage Bangalore represented herein by Mr. Venkata Sudhakar who is duly authorized to sign and bind the Company

WHEREAS, the Contractor in accordance with Indian law offered a quotation and the quotation has been accepted by the Employer for the execution and completion, and remedying of any defects in the work of "Compensatory Plantation and its Maintenance for 03 years for 1800 Saplings in Lakes/ Parks of BBMP/Govt. premises, Bengaluru by BMRCL, in lieu of felling of Trees located in Kothnoor Depot, R-6, Phase -2, Anjanapura Depot and Viaduct for Depot entry line in R4B and Vijinapura Sy no 79 and Benniganahalli Village Sy No 80 and 83 for road widening works, area development for bus hub, Parking ,Multi Model integration etc and Jyothipuram Metro Stations entry exit structures R1-A . the Contractor agree to undertake performance of the contract work under the terms and conditions set forth in this Contract.

AND WHEREAS, THE Employer agrees to hire and the Contractor agree to be hired to implement the work of "Compensatory Plantation and its Maintenance for 03 years for 1800 Saplings in Lakes/ Parks of BBMP/Govt. premises, Bengaluru by BMRCL, in lieu of felling of Trees located in Kothnoor Depot, R-6, Phase -2, Anjanapura Depot and Viaduct for Depot entry line in R4B and Vijinapura Sy no 79 and Benniganahalli Village Sy No 80 and 83 for road widening works, area development for bus hub, Parking ,Multi Model integration etc and Jyothipuram Metro Stations entry exit structures R1-A Projects under the terms and conditions specified in this Contract Agreement and the other Contract Documents.

Now THEREFORE the parties hereby agree as follows:

**Clause 1 Words and Expressions:**

In this Contract all the words and expressions shall have the same meanings as are respectively assigned to them in the conditions of contract hereinafter referred to,

**Clause 2 the Contract Documents:**

The Letter of Acceptance along with its enclosures (Appendix-A, B & C) shall be deemed to form and be read and construed as a part of this Contract Agreement.

**Clause 3 Obligations of the Contractor:**

The mutual rights and Obligations of the Employer and the Contractor shall be as set forth in Contract and in particular:-

The Contractor agrees, subject to the terms and conditions of the Contract, to perform efficiently and faithfully the work of "Compensatory Plantation and its Maintenance for 03 years for 1800 Saplings in Lakes/ Parks of BBMP/Govt. premises, Bengaluru by BMRCL, in lieu of felling of Trees located in Kothnoor Depot, R-6, Phase -2, Anjanapura Depot and Viaduct for Depot entry line in R4B and Vijinapura Sy no 79 and Benniganahalli Village Sy No 80 and 83 for road widening works, area development for bus hub, Parking ,Multi Model integration etc and Jyothipuram Metro Stations entry exit structures R1-A Projects and other facilities requisite for or incidental to the successful completion of the work and in carrying out all duties and obligations imposed by the Contract.

**Clause 4 Obligations of the Employer:**

United Way of Bengaluru  
25/09/2024



सत्यमेव जयते

INDIA NON JUDICIAL

**Government of Karnataka**

Rs. 200

**e-Stamp**

**Certificate No.** : IN-KA13295006581210T  
**Certificate Issued Date** : 24-Sep-2021 02:09 PM  
**Account Reference** : NONACC (FI)/ kacrsf108/ DOMLUR/ KA-BA  
**Unique Doc. Reference** : SUBIN-KAKACRSFL0883187850404643T  
**Purchased by** : UNITED WAY OF BENGALURU  
**Description of Document** : Article 12 Bond  
**Description** : WORK AGREEMENT  
**Consideration Price (Rs.)** : 0  
 (Zero)  
**First Party** : BANGALORE METRO RAIL CORPORATION LTD  
**Second Party** : UNITED WAY OF BENGALURU  
**Stamp Duty Paid By** : UNITED WAY OF BENGALURU  
**Stamp Duty Amount(Rs.)** : 200  
 (Two Hundred only)



Please write or type below this line

**Contract Agreement**

No. BMRC/SEMU/C-28394/2021-22 /LOA-Part-4

This Contract Agreement (hereinafter called the "Contract") is made at Bengaluru on this the 04 day of September 2021 by and between:

**BANGALORE METRO RAIL CORPORATION LIMITED**, a Public Limited Company incorporated under Companies Act, 1956, having its registered office at III Floor, BMTC Complex, K.H.Road, Shantinagar, Bengaluru-560027, represented herein by Mr. S.S Hegaraddi, Executive Director (Civil-1), hereinafter referred to as "BMRC" or "Employer" as the case may be, which expression shall unless excluded by or

Commission - 1 (one)

Statutory Alert:

The authenticity of this Stamp certificate should be verified by visiting the following link: [www.bmrc.com](http://www.bmrc.com) or by visiting the following link: [www.bmrc.com](http://www.bmrc.com) or by visiting the following link: [www.bmrc.com](http://www.bmrc.com)



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For the 25

REPORT ON

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7. This Letter of Acceptance shall constitute a contract and an affirmation that all parts of this LOA have been read and fully understood by you. Until a formal agreement is signed, this Letter of Acceptance will constitute a binding contract between **M/s Indus Herbs** and **BMRC**.
8. This Letter of Acceptance is sent herewith to you in duplicate. You are requested to return one copy of it duly signed by the authorised signatory on all pages indicating "**Unconditional Acceptance**" thereof so as to reach the undersigned within one week of the receipt of this letter of acceptance.
9. This Letter of Acceptance is issued with the approval of Competent Authority of Bangalore Metro Rail Corporation Ltd, Bengaluru.

Thanking you,

For **INDUS HERBS**

*Ramendra*

PROPRIETOR

Yours faithfully

*S.S. Hegaraddi*

(S.S. Hegaraddi)

Executive Director (Civil)

**Copy to:**

- |                               |  |
|-------------------------------|--|
| 1. Director (P&P)             | - for kind information                       |
| 2. ED/Finance                 | - for kind information and necessary action  |
| 3. General Manager (Contract) | - for kind information and necessary action  |
| 4. Company Secretary          | - for kind information.                      |
| 5. Chief Engineer (UG)        | - for kind information.                      |
| 6. Chief Engineer (SEMU)      | - for kind information and necessary action. |



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2. **Scope of work:** The M/s Indus Herbs shall execute and complete the work including maintenance thereof to the full satisfaction of Environment officer BMRCL as per the detailed scope of work and other terms & conditions of contract specified in **Appendix-A** to this letter of acceptance. The Contractor shall fulfil its obligations in conformity with the time schedule stated therein. Further, that the Contractor shall perform the work and carry out its obligations hereunder with all due diligence, efficiency and economy, in accordance with the best practices under the technical supervision and guidance of concerned DCF, BBMP/Urban by the use of safe and effective equipment, materials and methods. The Contractor shall always act, in respect of any matter relating to this contract, as a faithful adviser to BMRCL, and shall at all times support and safeguard the BMRCL's legitimate interests in any dealings with Third Parties.
3. **Completion period of work:** The whole plantation work shall be taken up and completed as instructed at each designated area by BMRCL within 2 (two) months from the date of issue of Notice to proceed (NTP) by the nominated CE (SEMU) /Environmental officer under this contract. Further the Maintenance work of saplings as specified shall be carried out for a minimum period of 3 years separately at each location where saplings were planted. The duration will be counted from the date of completion of plantation of Saplings at that particular location where saplings were planted. The Contractor has to obtain the counter signature from concerned DCF on Completion report before final payments.
4. **Performance security:** Within 10days of issue of Letter of Acceptance and before entering into the contract, you shall furnish performance security for an amount equivalent to 3% of contract price of Rs. 55,99,800/- i.e. Rs. 1,67,994/- (One Lakh Sixty Seven Thousand Nine Hundred Ninety Four ) only in the form of a Bank Guarantee from an Indian Scheduled Bank (excluding Co-operative banks) or from a Scheduled Foreign Bank as defined in Section 2(e) of RBI Act 1934 read with Second Scheduled in the form acceptable to the BMRCL. The bank Guarantee is to be payable at designated branch in Bangalore only. Alternatively you may submit DD or Bankers cheque of required amount in favour of BMRCL and payable at Bangalore. The Performance Security BG shall remain valid till expiry of contract period stated therein (including any extensions) and it will be released after issue of performance certificate by the BMRCL.
5. **Signing of contract agreement:** It shall be noted that, you should enter into a Contract Agreement with BMRCL on a non-judicial stamp paper of worth Rs 200/- within 15 days from the date of issue of this LOA.
6. **Nomination of Environment officer:** Environment Officer of BMRCL is nominated as Tree officer of BMRCL for this contract. You are hereby advised that further correspondence shall be made with him directly for taking instructions to proceed with the work.

Unconditionally Accepted

For INDUS HERBS  
Ramesh

PROPRIETOR

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FROM INDIA HERBS

FORBIDDEN



# ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲ್ ನಿಗಮ ನಿಯಮಿತ

(ಸಹಭಾಗಿತ್ವದ - ಕರ್ನಾಟಕ ಸರ್ಕಾರ ಹಾಗೂ ಕೇಂದ್ರ ಸರ್ಕಾರ ಉದ್ಯಮ)  
ನೋಂದಾಯಿತ ಕಛೇರಿ : ಬಿ.ಎಂ.ಟಿ.ಸಿ. ಕಾಂಪ್ಲೆಕ್ಸ್, 3ನೇ ಮಹಡಿ, ಕೆ.ಎಂ.ರಸ್ತೆ, ಶಾಂತಿನಗರ  
ಬೆಂಗಳೂರು - 560 027, ಭಾರತ

## 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/SEMU/C-28394/2021-22/5662

Date: 16.09.2021

### LETTER OF ACCEPTANCE (LOA)

To,  
M/s Indus Herbs  
Basavanagudi,  
Bangalore - 560004

(In duplicate)

Dear Sir,

**Sub:** "Raising and Maintenance of plantation of 1800 Saplings in Government Premises, Bangalore during the year 2021- 22

**Ref:** 1) Our letter No.BMRCL/SEMU/C-28394/2021-22 dated. 21.08.2021.

2) Your letter No. nil dated 25.08.2021.

3) Your revised offer dated 03.09.2021

With reference to the above, it is here by notified that the Competent Authority has accepted your offer "Raising and Maintenance of plantation of 1800 Saplings in Government Premises, Bangalore" for a total amount of Rs. **55,99,800** (Rupees Fifty five lakhs and Ninety nine thousand Eight hundred Only) which includes all applicable taxes, duties, royalty and Cess.

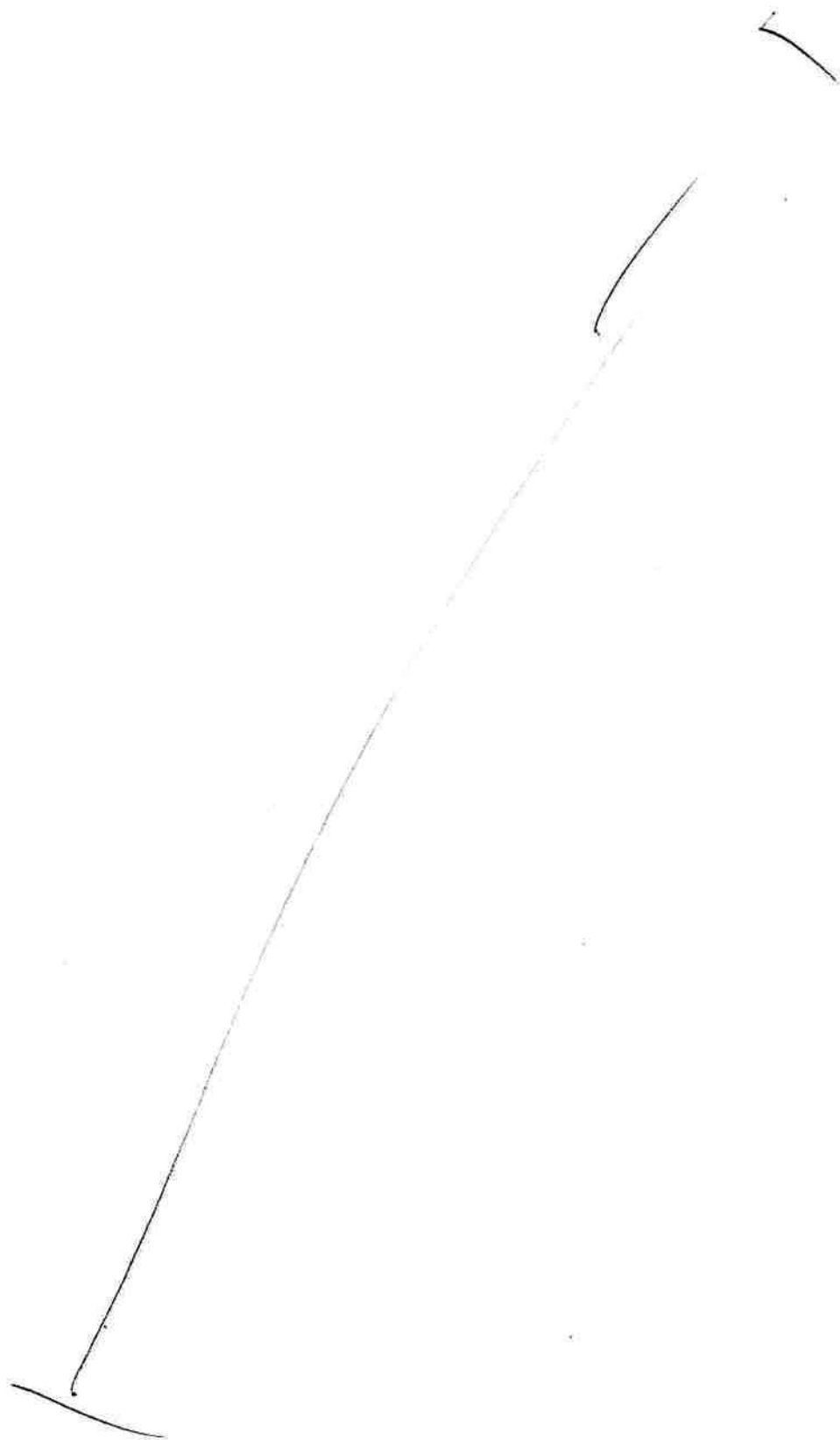
1. **Summary of cost of work:** The scope of proposed plantation & maintenance of Saplings at various government Premises in Bengaluru and the total amount to be paid to the Contractor is worked out as under:

| SI.NO. | Scope of work   | Total amount (RS)<br>Excluding GST |
|--------|---|------------------------------------|
| 1      | Plantation of 1800 Nos Saplings (fruit & flower bearing species) as per scope of work mentioned in BOQ (for detailed BOQ refer Appendix - B)                      | 23,35,095                          |
| 2      | Maintenance of 1800 Nos Saplings (fruit & flower bearing species) for 03 years period as per scope of work mentioned in BOQ (For detailed BOQ refer Appendix - C) | 32,64,705                          |
|        | <b>Total</b>  | <b>55,99,800</b>                   |

Unconditionally Accepted  
For INDUS HERBS

Ravindra

PROPRIETOR



7. This Letter of Acceptance shall constitute a contract and an affirmation that all parts of this LOA have been read and fully understood by you. Until a formal agreement is signed, this Letter of Acceptance will constitute a binding contract between **M/s Shevalal Siddeshwara and BMRCL**.
8. This Letter of Acceptance is sent herewith to you in duplicate. You are requested to return one copy of it duly signed by the authorised signatory on all pages indicating "**Unconditional Acceptance**" thereof so as to reach the undersigned within one week of the receipt of this letter of acceptance.
9. This Letter of Acceptance is issued with the approval of Competent Authority of Bangalore Metro Rail Corporation Ltd, Bengaluru.

Thanking you,

Yours faithfully



(S.S. Hegaraddi)  
Executive Director (Civil)

**Copy to:**

- |                               |  |
|-------------------------------|--|
| 1. Director (P&P)             | - for kind information                       |
| 2. ED/Finance                 | - for kind information and necessary action  |
| 3. General Manager (Contract) | - for kind information and necessary action  |
| 4. Company Secretary          | - for kind information.                      |
| 5. Chief Engineer (UG)        | - for kind information.                      |
| 6. Chief Engineer (SEMU)      | - for kind information and necessary action. |



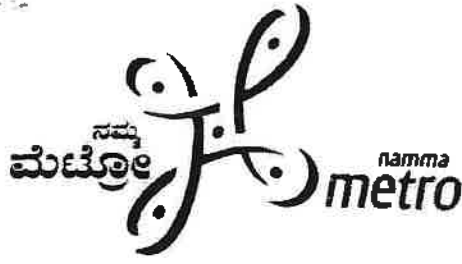
2. **Scope of work:** The M/s Shevalal Siddeshwara shall execute and complete the work including maintenance thereof to the full satisfaction of Environment officer BMRCL as per the detailed scope of work and other terms & conditions of contract specified in **Appendix-A** to this letter of acceptance. The Contractor shall fulfil its obligations in conformity with the time schedule stated therein. Further, that the Contractor shall perform the work and carry out its obligations hereunder with all due diligence, efficiency and economy, in accordance with the best practices under the technical supervision and guidance of concerned DCF, BBMP/Urban by the use of safe and effective equipment, materials and methods. The Contractor shall always act, in respect of any matter relating to this contract, as a faithful adviser to BMRCL, and shall at all times support and safeguard the BMRCL's legitimate interests in any dealings with Third Parties.
3. **Completion period of work:** The whole plantation work shall be taken up and completed as instructed at each designated area by BMRCL within 2 (two) months from the date of issue of Notice to proceed (NTP) by the nominated CE (SEMU) /Environmental officer under this contract. Further the Maintenance work of saplings as specified shall be carried out for a minimum period of 3 years separately at each location where saplings were planted. The duration will be counted from the date of completion of plantation of Saplings at that particular location where saplings were planted. The Contractor has to obtain the counter signature from concerned DCF on Completion report before final payments.
4. **Performance security:** Within 10days of issue of Letter of Acceptance and before entering into the contract, you shall furnish performance security for an amount equivalent to 3% of contract price of Rs. 55,99,800/- i.e. Rs. 167994 /- (One Lakh Sixty Seven Thousand Nine Hundred Ninety Four ) only in the form of a Bank Guarantee from an Indian Scheduled Bank (excluding Co- operative banks) or from a Scheduled Foreign Bank as defined in Section 2(e) of RBI Act 1934 read with Second Scheduled in the form acceptable to the BMRCL. The Bank Guarantee is to be payable at designated branch in Bangalore only. Alternatively you may submit DD or Bankers cheque of required amount in favour of BMRCL and payable at Bangalore. The Performance Security BG shall remain valid till expiry of contract period stated therein (including any extensions) and it will be released after issue of performance certificate by the BMRCL.
5. **Signing of contract agreement:** It shall be noted that, you should enter into a Contract Agreement with BMRCL on a non-judicial stamp paper of worth Rs 200/- within 15 days from the date of issue of this LOA.
6. **Nomination of Environment officer:** Environment Officer of BMRCL is nominated as Tree officer of BMRCL for this contract. You are hereby advised that further correspondence shall be made with him directly for taking instructions to proceed with the work.



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(ಸಹಭಾಗಿತ್ವದ - ಕರ್ನಾಟಕ ಸರ್ಕಾರ ಹಾಗೂ ಕೇಂದ್ರ ಸರ್ಕಾರ ಬದ್ಧವು)  
ಮುಖ್ಯಮಂಡಳಿ : ಬಿ.ಎಂ.ಟಿ.ಸಿ. ಕಾಂಪ್ಲೆಕ್ಸ್, 3ನೇ ಮಹಡಿ, ಕೆಂಗಲ್ ಹನುಮಂತಯ್ಯ ರಸ್ತೆ, ಶಾಂತಿನಗರ  
ಬೆಂಗಳೂರು - 560 027, ಭಾರತ

**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/SEMU/C-28394/2021-22/5660

Date: 16.09.2021

**LETTER OF ACCEPTANCE (LOA)**

To,  
M/s Shevalal Siddeshwara  
#2341, 2<sup>nd</sup> Floor, 16<sup>th</sup> "B" Cross,  
3<sup>rd</sup> Phase, Yelahanka,  
New town Bangalore

(In duplicate)

Dear Sir,

**Sub:** "Raising and Maintenance of plantation of 1800 Saplings in Government Premises, Bangalore during the year 2021- 22

**Ref:** 1) Our letter No.BMRCL/C-28394/2021-22/4301 Dated 21.08.2021

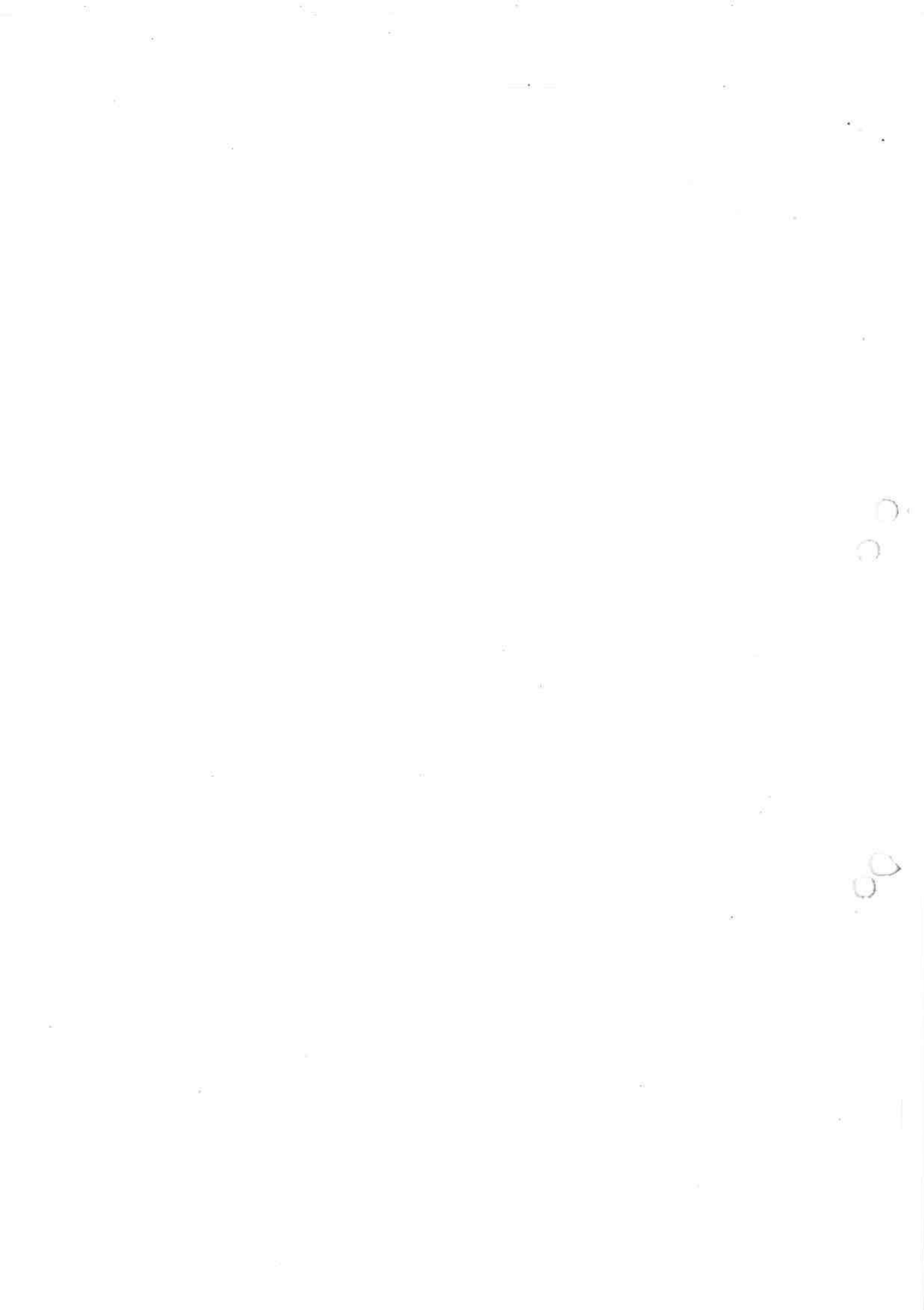
2) Your Letter No. Nil dated 24.08.2021.

3) Your revised offer dated 04.09.2021

With reference to the above, it is hereby notified that the Competent Authority has accepted your offer "Raising and Maintenance of plantation of 1800 Saplings in Government Premises, Bangalore" for a total amount of **Rs. 55,99,800/-**(Rupees Fifty five lakhs and Ninety nine thousand Eight hundred Only) Excluding GST (Including duties, royalty and Cess).

1. **Summary of cost of work:** The scope of proposed plantation & maintenance of Saplings at various government Premises in Bengaluru and the total amount to be paid to the Contractor, is worked out as under:

| Sl.NO. | Scope of work   | Total amount (RS)<br>Excluding GST |
|--------|---|------------------------------------|
| 1      | Plantation of 1800 Nos Saplings (fruit & flower bearing species) as per scope of work mentioned in BOQ (For detailed BOQ refer Appendix - B)                      | 23,35,095                          |
| 2      | Maintenance of 1800 Nos Saplings (fruit & flower bearing species) for 03 years period as per scope of work mentioned in BOQ (For detailed BOQ refer Appendix - C) | 32,64,705                          |
|        | <b>Total</b>  | <b>55,99,800</b>                   |



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ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲ್ ನಿಗಮ ನಿಯಮಿತ  
Bangalore Metro Rail Corporation Ltd.


ಮುಂದುವರಿದ ಪುಟ  
Continuation Sheet

**IN WITNESS WHEREOF**, the parties here to have caused this Contract Agreement to be signed in their respective names by their authorized representatives on the day and year first above written.

For Bangalore Metro Rail Corporation Limited  
(Employer)

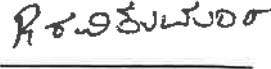
  
(Mr. S.S. Hegaraddi)  
Executive Director (Civil-1)

WITNESS 

  
For Shevalal Siddeswara  
(Contractor)

For SHEVALAL SIDDDESHIWARAJ

  
( Mr Mallesh )  
Proprietor

WITNESS 



Projects and other facilities requisite for or incidental to the successful completion of the work and in carrying out all duties and obligations imposed by the Contract.

**Clause 4 Obligations of the Employer:**

The Employer agrees, subject to the terms and conditions of the Contract, to pay the Contractor the amount specified, and at the rates and terms and in the manner set forth in the Contract.

**Clause 5 Contract Price:**

5.1 The Employer agrees to pay the Contractor the total amount mentioned below (hereinafter called the Contract Price) and the Contractor agreed to accept the total amount mentioned below for the work carried out by them as part of their obligations, responsibilities and liabilities under and according to the provisions and obligations imposed on them by the Contract for Plantation of 1800 Saplings and their maintenance for a period of 03 years.

INR 55,99,800/- (Indian Rupees Fifty five Lakh Ninety Nine Thousand eight Hundred Only) Excluding GST (Inclusive of duties, royalty and Cess etc). The Contract Price mentioned above will be increased or decreased during the period of performance of the Contract as specifically provided, if any, in the Conditions of Contract and no additional amount on any other account whatsoever shall be payable to the Contractor.

**Clause 6 Completion Time:**

The duration for plantation of saplings shall be 02 (Two) months separately for each location from the date of issue of Notice to proceed (NTP) and the duration for maintenance of Saplings shall be for a total period of 03 years from the date of completion of plantation work separately for each location.

**Clause 7 Integration:**

The Employer and the Contractor agree that this Contract Agreement, together with the other Contract Documents, expresses all the agreements, understandings, promises, and covenants of the parties, and integrates, combines, and supersedes all prior and contemporaneous negotiations, understandings, and agreements, whether written or oral and no modification or alteration of the Contract shall be valid or binding on either party, unless expressed in writing and executed with the same formality as this Contract Agreement, except as may otherwise be specifically provided in the Contract Documents.

**Clause 8 Governing Law:**

This Contract is enforceable and construed under the applicable laws of the Republic of India.

**Clause 9 Language:**

This Contract Agreement and the other Contract Documents are made in the English language.

**Clause 10 Jurisdiction of Court:**

The Courts at Bengaluru shall have the exclusive jurisdiction to adjudicate all the disputes arising out of or concerning this Agreement between the parties.



For SHEVALAL SIDDHESHWARA  
PROPOSED



repugnant to the context or meaning thereof be deemed to include its successors and assigns, of the one part.

AND

The Shevalal Siddeshwara, #2341, 2<sup>nd</sup> Floor, 16<sup>th</sup> 'B' cross, 3<sup>rd</sup> Phase, Opp. Citibank ATM, Yalahanka New Town, Bangalore-560106 represented herein by Mr. Malleesh Who is duly authorized to sign and bind the Company.

WHEREAS, the Contractor in accordance with Indian law offered a quotation and the quotation has been accepted by the Employer for the execution and completion, and remedying of any defects in the work of "Compensatory Plantation and its Maintenance for 03 years for 1800 Saplings in Lakes/ Parks of BBMP/Govt. premises, Bengaluru by BMRCL, in lieu of felling of Trees located in Kothnoor Depot, R-6, Phase -2, Anjanapura Depot and Viaduct for Depot entry line in R4B and Vijinapura Sy no 79 and Benniganahalli Village Sy No 80 and 83 for road widening works, area development for bus hub, Parking, Multi Model integration etc and Jyothipuram Metro Stations entry exit structures R1-A. the Contractor agreed to undertake performance of the contract work under the terms and conditions set forth in this Contract.

AND WHEREAS, THE Employer agreed to hire and the Contractor agreed to be hired to implement the work of "Compensatory Plantation and its Maintenance for 03 years for 1800 Saplings in Lakes/ Parks of BBMP/Govt. premises, Bengaluru by BMRCL, in lieu of felling of Trees located in Kothnoor Depot, R-6, Phase -2, Anjanapura Depot and Viaduct for Depot entry line in R4B and Vijinapura Sy no 79 and Benniganahalli Village Sy No 80 and 83 for road widening works, area development for bus hub, Parking, Multi Model integration etc and Jyothipuram Metro Stations entry exit structures R1-A Projects under the terms and conditions specified in this Contract Agreement and the other Contract Documents.

Now THEREFORE the parties hereby agree as follows:

**Clause 1 Words and Expressions:**

In this Contract all the words and expressions shall have the same meanings as are respectively assigned to them in the conditions of contract hereinafter referred to,

**Clause 2 the Contract Documents:**

The Letter of Acceptance along with its enclosures (Appendix-A, B & C) shall be deemed to form and be read and construed as a part of this Contract Agreement.

**Clause 3 Obligations of the Contractor:**

The mutual rights and Obligations of the Employer and the Contractor shall be as set forth in Contract and in particular:-

The Contractor agrees, subject to the terms and conditions of the Contract, to perform efficiently and faithfully the work of "Compensatory Plantation and its Maintenance for 03 years for 1800 Saplings in Lakes/ Parks of BBMP/Govt. premises, Bengaluru by BMRCL, in lieu of felling of Trees located in Kothnoor Depot, R-6, Phase -2, Anjanapura Depot and Viaduct for Depot entry line in R4B and Vijinapura Sy no 79 and Benniganahalli Village Sy No 80 and 83 for road widening works, area development for bus hub, Parking, Multi Model integration etc and Jyothipuram Metro Stations entry exit structures R1-A



For SHEVALAL SIDDESHWARA  








सत्यमेव जयते

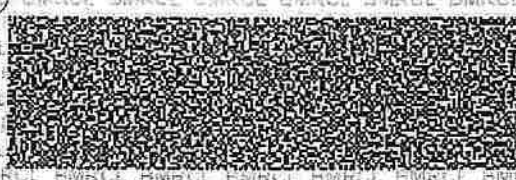
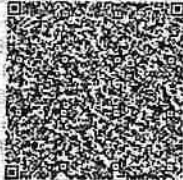
INDIA NON JUDICIAL

**Government of Karnataka**

Rs. 200

e-Stamp

**Certificate No.** : IN-KA15931055438629T  
**Certificate Issued Date** : 28-Sep-2021 12:32 PM  
**Account Reference** : NONACC (FI)/ kacrsf108/ SHANTHINAGAR/ KA-BA  
**Unique Doc. Reference** : SUBIN-KAKACRSFL0888059139223366T  
**Purchased by** : SHEVALAL SIDDESHWARA  
**Description of Document** : Article 12 Bond  
**Description** : WORK CONTRACT  
**Consideration Price (Rs.)** : 0  
 (Zero)  
**First Party** : BMRCL  
**Second Party** : SHEVALAL SIDDESHWARA  
**Stamp Duty Paid By** : SHEVALAL SIDDESHWARA  
**Stamp Duty Amount(Rs.)** : 200  
 (Two Hundred only)



Please write or type below this line

**Contract Agreement**

No. BMRCL/SEMU/C-28394/2021-22 /LOA-Part-1

This Contract Agreement (hereinafter called the "Contract") is made at Bengaluru on this the 04 day of September 2021 by and between:

BANGALORE METRO RAIL CORPORATION LIMITED, a Public Limited Company incorporated under Companies Act, 1956, having its registered office at III Floor, BMTC Complex, K.H.Road, Shantinagar, Bengaluru-560027, represented herein by Mr. S.S Hegaraddi, Executive Director (Civil-1), hereinafter referred to as "BMRCL" or "Employer" as the case may be, which expression shall unless excluded by or

(Corrected - 1 Conc)

*[Signature]*

For SHEVALAL SIDDESHWARA

*[Signature]*

Statutory Alert:

1. The authenticity of this Stamp certificate should be verified at 'www.shoalestamp.com' or using e-Stamp Mobile App of Stock Holding.
2. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
3. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.



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Bangalore Metro Rail Corporation Ltd.

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Continuation Sheet

8. This Letter of Acceptance is issued with the approval of Competent Authority of Bangalore Metro Rail Corporation Ltd, Bengaluru.

Thanking you,

Yours faithfully

  
(S.S. Hegaraddi)  
Executive Director (Civil)

**Copy to:**

- |                               |   |
|-------------------------------|---|
| 1. Director (P&P)             | - for kind information                      |
| 2. ED/Finance                 | - for kind information and necessary action |
| 3. General Manager (Contract) | - for kind information and necessary action |
| 4. Company Secretary          | - for kind information.                     |
| 5. Chief Engineer (UG)        | - for kind information.                     |
| 6. Chief Engineer (SEMU)      | - for kind information and necessary action |

  
**SECRETARY**  
The Nursery Men Co-operative Society Ltd.  
Lalbagh, Bangalore - 560 004.

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2. **Scope of work:** The Nursery Men Co-operative society Ltd (NMCS) shall execute and complete the work including maintenance thereof to the full satisfaction of Environment officer BMRCL as per the detailed scope of work and other terms & conditions of contract specified in **Appendix-A** to this letter of acceptance. The Contractor shall fulfil its obligations in conformity with the time schedule stated therein. Further, that the Contractor shall perform the work and carry out its obligations hereunder with all due diligence, efficiency and economy, in accordance with the best practices under the technical supervision and guidance of concerned DCF, BBMP/Urban by the use of safe and effective equipment, materials and methods. The Contractor shall always act, in respect of any matter relating to this contract, as a faithful adviser to BMRCL, and shall at all times support and safeguard the BMRCL's legitimate interests in any dealings with Third Parties.
3. **Completion period of work:** The whole plantation work shall be taken up and completed as instructed at each designated area by BMRCL within 2 (two) months from the date of issue of Notice to proceed (NTP) by the nominated CE (SEMU) /Environmental officer under this contract. Further the Maintenance work of saplings as specified shall be carried out for a minimum period of 3 years separately at each location where saplings were planted. The duration will be counted from the date of completion of plantation of Saplings at that particular location where saplings were planted. The Contractor has to obtain the counter signature from concerned DCF on Completion report before final payments.
4. **Signing of contract agreement:** It shall be noted that, you should enter into a Contract Agreement with BMRCL on a non-judicial stamp paper of worth Rs 200/- within 15 days from the date of issue of this LOA.
5. **Nomination of Environment officer:** Environment Officer of BMRCL is nominated as Tree officer of BMRCL for this contract. You are hereby advised that further correspondence shall be made with him directly for taking instructions to proceed with the work.
6. This Letter of Acceptance shall constitute a contract and an affirmation that all parts of this LOA have been read and fully understood by you. Until a formal agreement is signed, this Letter of Acceptance will constitute a binding contract between **The Nursery Men Co-operative society Ltd (NMCS) and BMRCL.**
7. This Letter of Acceptance is sent herewith to you in duplicate. You are requested to return one copy of it duly signed by the authorised signatory on all pages indicating "**Unconditional Acceptance**" thereof so as to reach the undersigned within one week of the receipt of this letter of acceptance.

  
SECRETARY

The Nursery Men Co-operative Society Ltd.  
Bangalore

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## ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲ್ ನಿಗಮ ನಿಯಮಿತ

(ಸಹಭಾಗಿತ್ವದ - ಕರ್ನಾಟಕ ಸರ್ಕಾರ ಹಾಗೂ ಕೇಂದ್ರ ಸರ್ಕಾರ ಉದ್ಯಮ)  
ನೋಂದಾಯಿತ ಕಛೇರಿ : ಬಿ.ಎಂ.ಟಿ.ಸಿ. ಕಾಂಪ್ಲೆಕ್ಸ್, 3ನೇ ಮಹಡಿ, ಕೆಂಗಲ್ ಹನುಮಂತಯ್ಯ ರಸ್ತೆ, ಶಾಂತಿನಗರ  
ಬೆಂಗಳೂರು - 560 027, ಭಾರತ

### 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/SEMU/C-28394/2021-22/5663

Date: 16.09.2021

#### LETTER OF ACCEPTANCE (LOA)

To,  
The Nursery Men Co-operative society Ltd (NMCS),  
A wing of Horticulture  
Lalbagh, Bangalore-560004

(In duplicate)

Dear Sir,

**Sub:** "Raising and Maintenance of plantation of 1800 Saplings in Government Premises, Bangalore during the year 2021- 22

- Ref:** 1) Our letter No.BMRCL/C-28394/2021-22/4304 dated 21.08.2021.  
2) Your letter.No.671/2021-22 dated 24.08.2021. & dated 03.09.2021  
3) Your revised offer no.917/2021-22 dated 03.09.2021

With reference to the above, it is hereby notified that the Competent Authority has accepted your offer "Raising and Maintenance of plantation of 1800 Saplings in Government Premises, Bangalore" for a total amount of Rs. 55,99,800/- (Rupees Fifty five lakhs and Ninety nine thousand Eight hundred Only) Excluding GST (Including duties, royalty and Cess).

1. **Summary of cost of work:** The scope of proposed plantation & maintenance of Saplings at various government Premises in Bengaluru and the total amount to be paid to the The Nursery Men Co-operative society Ltd (NMCS), is worked out as under:

| SI.NO. | Scope of work  | Total amount (RS) Excluding GST |
|--------|--|---------------------------------|
| 1      | Plantation of 1800 Nos Saplings (fruit & flower bearing species) as per scope of work mentioned in BOQ (For detailed BOQ refer Appendix - B)                     | 23,35,095                       |
|        | Maintenance of 1800 Nos Saplings (fruit & flower bearing species)for 03 years period as per scope of work mentioned in BOQ (For detailed BOQ refer Appendix - C) | 32,64,705                       |
|        | <b>Total</b>   | <b>55,99,800</b>                |

SECRETARY





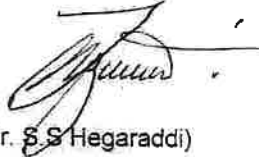
ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲ್ ನಿಗಮ ನಿಯಮಿತ  
Bangalore Metro Rail Corporation Ltd.

448

ಮುಂದುವರಿದ ಹಾಳೆ  
Continuation Sheet

IN WITNESS WHEREOF, the parties here to have caused this Contract Agreement to be signed in their respective names by their authorized representatives on the day and year first above written.

For Bangalore Metro Rail Corporation Limited  
(Employer)



(Mr. S. S. Hegaraddi)  
Executive Director(Civil-1)

WITNESS \_\_\_\_\_

For The Nursery Men Co-operative Society Ltd  
(Contractor)



(Mr. Mohammed Ali,)

Secretary  
**SECRETARY**

The Nursery Men Co-operative Society Ltd  
Lalbagh, Bangalore - 560 064.

WITNESS \_\_\_\_\_



**Clause 4 Obligations of the Employer:**

The Employer agrees, subject to the terms and conditions of the Contract, to pay the Contractor the amount specified, and at the rates and terms and in the manner set forth in the Contract.

**Clause 5 Contract Price:**

5.1 The Employer agrees to pay the Contractor the total amount mentioned below (hereinafter called the Contract Price) and the Contractor agree to accept the total amount mentioned below for the work carried out by them as part of their obligations, responsibilities and liabilities under and according to the provisions and obligations imposed on them by the Contract for Plantation of 1800 Saplings and their maintenance for a period of 03 years.

INR 55,99,800/- (Indian Rupees Fifty five Lakh Ninety Nine Thousand eight Hundred Only) Excluding GST (Inclusive of duties, royalty and Cess etc).

The Contract Price mentioned above will be increased or decreased during the period of performance of the Contract as specifically provided, if any, in the Conditions of Contract and no additional amount on any other account whatsoever shall be payable to the Contractor.

**Clause 6 Completion Time:**

The duration for plantation of saplings shall be 02 (Two) months separately for each location from the date of issue of Notice to proceed (NTP) and the duration for maintenance of Saplings shall be for a total period of 03 years from the date of completion of plantation work separately for each location.

**Clause 7 Integration:**

The Employer and the Contractor agree that this Contract Agreement, together with the other Contract Documents, expresses all the agreements, understandings, promises, and covenants of the parties, and integrates, combines, and supersedes all prior and contemporaneous negotiations, understandings, and agreements, whether written or oral and no modification or alteration of the Contract shall be valid or binding on either party, unless expressed in writing and executed with the same formality as this Contract Agreement, except as may otherwise be specifically provided in the Contract Documents.

**Clause 8 Governing Law:**

This Contract is enforceable and construed under the applicable laws of the Republic of India.

**Clause 9 Language:**

This Contract Agreement and the other Contract Documents are made in the English language.

**Clause 10 Jurisdiction of Court:**

The Courts at Bengaluru shall have the exclusive jurisdiction to adjudicate all the disputes arising out of or concerning this Agreement between the parties.



SECRETARY  
The Nursery Men Co-operative Society Ltd  
Lalbagh, Bangalore - 560 004.

CC

CC

repugnant to the context or meaning thereof be deemed to include its successors and assigns, of the one part.

AND

The Nursery Men Co-operative society Ltd (NMCS), a wing of Horticulture Dept of Govt of Karnataka and having its registered office at Lalbagh, Bangalore-560004 represented herein by Mr. Mohammad Ali, Secretary, who is duly authorized to sign and bind the Company.

WHEREAS, the Contractor in accordance with Indian law offered a quotation and the quotation has been accepted by the Employer for the execution and completion, and remedying of any defects in the work of "Compensatory Plantation and its Maintenance for 03 years for 1800 Saplings in Lakes/ Parks of BBMP/Govt. premises, Bengaluru by BMRCL, in lieu of felling of Trees located in Kothnoor Depot, R-6, Phase -2, Anjanapura Depot and Viaduct for Depot entry line in R4B and Vijinapura Sy no 79 and Benniganahalli Village Sy No 80 and 83 for road widening works, area development for bus hub, Parking ,Multi Model integration etc and Jyothipuram Metro Stations entry exit structures R1-A . the Contractor agree to undertake performance of the contract work under the terms and conditions set forth in this Contract.

AND WHEREAS, THE Employer agrees to hire and the Contractor agree to be hired to implement the work of "Compensatory Plantation and its Maintenance for 03 years for 1800 Saplings in Lakes/ Parks of BBMP/Govt. premises, Bengaluru by BMRCL, in lieu of felling of Trees located in Kothnoor Depot, R-6, Phase -2, Anjanapura Depot and Viaduct for Depot entry line in R4B and Vijinapura Sy no 79 and Benniganahalli Village Sy No 80 and 83 for road widening works, area development for bus hub, Parking ,Multi Model integration etc and Jyothipuram Metro Stations entry exit structures R1-A Projects under the terms and conditions specified in this Contract Agreement and the other Contract Documents.

Now THEREFORE the parties hereby agree as follows:

**Clause 1 Words and Expressions:**

In this Contract all the words and expressions shall have the same meanings as are respectively assigned to them in the conditions of contract hereinafter referred to,

**Clause 2 the Contract Documents:**

The Letter of Acceptance along with its enclosures (Appendix-A, B & C) shall be deemed to form and be read and construed as a part of this Contract Agreement.

**Clause 3 Obligations of the Contractor.**

The mutual rights and Obligations of the Employer and the Contractor shall be as set forth in Contract and in particular:-

The Contractor agrees, subject to the terms and conditions of the Contract, to perform efficiently and faithfully the work of "Compensatory Plantation and its Maintenance for 03 years for 1800 Saplings in Lakes/ Parks of BBMP/Govt. premises, Bengaluru by BMRCL, in lieu of felling of Trees located in Kothnoor Depot, R-6, Phase -2, Anjanapura Depot and Viaduct for Depot entry line in R4B and Vijinapura Sy no 79 and Benniganahalli Village Sy No 80 and 83 for road widening works, area development for bus hub, Parking ,Multi Model integration etc and Jyothipuram Metro Stations entry exit structures R1-A Projects and other facilities requisite for or incidental to the successful completion of the work and in carrying out all duties and obligations imposed by the Contract

  
SECRETARY  
The Nursery Men Co-operative Society Ltd  
Bangalore-560004





सत्यमेव जयते

INDIA NON JUDICIAL

Government of Karnataka

Rs. 200

e-Stamp

Certificate No.

IN-KA11869970114897T

Certificate Issued Date

23-Sep-2021 01:16 PM

Account Reference

NONACC (FI)/ kacrsf108/ SHANTHINAGAR/ KA-BA

Unique Doc Reference

SUBIN-KAKACRSFL0880569920854020T

Purchased by

NURSERY MEN CO OP SOCIETY

Description of Document

Article 12 Bond

Description

WORK AGREEMENT

Consideration Price (Rs.)

0

(Zero)

First Party

BMRCL

Second Party

NURSERY MEN CO OP SOCIETY

Stamp Duty Paid By

NURSERY MEN CO OP SOCIETY

Stamp Duty Amount (Rs.)

200

(Two Hundred only)

सत्यमेव जयते



Please write or type below this line

Contract Agreement

No. BMRCL/SEMU/C-28394/2021-22/LOA-Part-3

This Contract Agreement (hereinafter called the "Contract") is made at Bengaluru on this the 04 day of September 2021 by and between:

BANGALORE METRO RAIL CORPORATION LIMITED, a Public Limited Company incorporated under Companies Act, 1956, having its registered office at III Floor, BMTCL Complex, K.H.Road, Shantinagar, Bengaluru-560027, represented herein by Mr. S.S Hegaraddi, Executive Director (Civil-1), hereinafter referred to as "BMRCL" or "Employer" as the case may be, which expression shall unless excluded by or

Correction - 1 (One)

SECRETARY

Statutory Alert:

- The authenticity of this stamp certificate should be verified at [www.shoestamp.com](http://www.shoestamp.com) or using a Stamp Mobile App of Stock Holding.
- Any discrepancy in the details on this Certificate and as available on the website/mobile app renders it invalid.
- The onus of checking the legitimacy is on the users of the certificate

The Nursery Men Co-operative Society Ltd





Bangalore Metro Rail Corporation Ltd.

Continuation Sheet

7. This Letter of Acceptance shall constitute a contract and an affirmation that all parts of this LOA have been read and fully understood by you. Until a formal agreement is signed, this Letter of Acceptance will constitute a binding contract between **M/s Garden.Up** and **BMRC**.
8. This Letter of Acceptance is sent herewith to you in duplicate. You are requested to return one copy of it duly signed by the authorised signatory on all pages indicating "**Unconditional Acceptance**" thereof so as to reach the undersigned within one week of the receipt of this letter of acceptance.
9. This Letter of Acceptance is issued with the approval of Competent Authority of Bangalore Metro Rail Corporation Ltd, Bengaluru.

Thanking you,

Yours faithfully



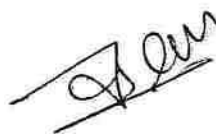
(S.S. Hegaraddi)

Executive Director (Civil)

**Copy to:**

- |                               |   |
|-------------------------------|---|
| 1. Director (P&P)             | - for kind information                      |
| 2. ED/Finance                 | - for kind information and necessary action |
| 3. General Manager (Contract) | - for kind information and necessary action |
| 4. Company Secretary          | - for kind information.                     |
| 5. Chief Engineer (UG)        | - for kind information.                     |
| 6. Chief Engineer (SEMU)      | - for kind information and necessary action |

*Unconditional  
acceptance*





2. **Scope of work:** The Garden Up shall execute and complete the work including maintenance thereof to the full satisfaction of Environment officer BMRCL as per the detailed scope of work and other terms & conditions of contract specified in **Appendix-A** to this letter of acceptance. The Contractor shall fulfil its obligations in conformity with the time schedule stated therein. Further, that the Contractor shall perform the work and carry out its obligations hereunder with all due diligence, efficiency and economy, in accordance with the best practices under the technical supervision and guidance of concerned DCF, BBMP/Urban by the use of safe and effective equipment, materials and methods. The Contractor shall always act, in respect of any matter relating to this contract, as a faithful adviser to BMRCL, and shall at all times support and safeguard the BMRCL's legitimate interests in any dealings with Third Parties.
3. **Completion period of work:** The whole plantation work shall be taken up and completed as instructed at each location of BBMP lake/designated area by BMRCL within (Two) months from the date of issue of Notice to proceed (NTP) by the nominated Environmental officer under this contract. Further the Maintenance work of saplings as specified shall be carried out for a minimum period of 3 years separately at each location of BBMP lake/park/Govt. Premises. the duration will be counted from the date of completion of plantation of Saplings at that particular location of BBMP lake/park.
4. **Performance security:** Within 10 days of issue of Letter of Acceptance and before entering into the contract, you shall furnish performance security for an amount equivalent to 3% of contract price of Rs. 55,99,800/- i.e. Rs. 167994 /- (One Lakh Sixty Seven Thousand Nine Hundred Ninety Four ) only in the form of a Bank Guarantee from an Indian Scheduled Bank (excluding Co-operative banks) or from a Scheduled Foreign Bank as defined in Section 2(e) of RBI Act 1934 read with Second Scheduled in the form acceptable to the BMRCL. The bank Guarantee is to be payable at designated branch in Bangalore only. Alternatively you may submit DD or Bankers cheque of required amount in favour of BMRCL and payable at Bangalore. The Performance Security BG shall remain valid till expiry of contract period stated therein (including any extensions) and it will be released after issue of performance certificate by the BMRCL.
5. **Signing of contract agreement:** It shall be noted that, you should enter into a Contract Agreement with BMRCL on a non-judicial stamp paper of worth Rs 200/- within 15 days from the date of issue of this LOA.
6. **Nomination of Environment officer:** Environment Officer of BMRCL is nominated as Tree officer of BMRCL for this contract. You are hereby advised that further correspondence shall be made with him directly for taking instructions to proceed with the work.

Unconditional accepted

*[Signature]*









5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15229849°      | 77.6860478°            |
| Local 03:45:19 PM | Altitude 803.74 meters |
| GMT 10:15:19 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-HM-69



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15226785°      | 77.68605925°           |
| Local 03:45:29 PM | Altitude 802.97 meters |
| GMT 10:15:29 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-HM-70



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15226612°      | 77.68604668°           |
| Local 03:45:37 PM | Altitude 803.95 meters |
| GMT 10:15:37 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-HM-71



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15226955°      | 77.68604203°           |
| Local 03:45:52 PM | Altitude 805.76 meters |
| GMT 10:15:52 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-HM-72









5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15245816°      | 77.68606958°           |
| Local 03:42:39 PM | Altitude 803.56 meters |
| GMT 10:12:39 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-SP-61



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15245207°      | 77.68604821°           |
| Local 03:42:49 PM | Altitude 803.86 meters |
| GMT 10:12:49 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-SP-62



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15243787°      | 77.68600563°           |
| Local 03:43:10 PM | Altitude 804.95 meters |
| GMT 10:13:10 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-HM-63



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15242021°      | 77.68601467°           |
| Local 03:43:41 PM | Altitude 804.19 meters |
| GMT 10:13:41 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-HM-64





GPS Map  
Camera: Lite

5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

Latitude  
13.15247895°

Longitude  
77.68597319°

Local 03:41:41 PM  
GMT 10:11:41 AM

Altitude 804.11 meters  
Tuesday, 10-05-2022

Note : KIADB-RK-SP-56



GPS Map  
Camera: Lite

5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

Latitude  
13.15248782°

Longitude  
77.68599883°

Local 03:41:51 PM  
GMT 10:11:51 AM

Altitude 803.62 meters  
Tuesday, 10-05-2022

Note : KIADB-RK-SP-57



GPS Map  
Camera: Lite

5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

Latitude  
13.15249612°

Longitude  
77.68600169°

Local 03:41:59 PM  
GMT 10:11:59 AM

Altitude 804.14 meters  
Tuesday, 10-05-2022

Note : KIADB-RK-SP-58



GPS Map  
Camera: Lite

5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

Latitude  
13.1524785°

Longitude  
77.68605487°

Local 03:42:26 PM  
GMT 10:12:26 AM

Altitude 803.42 meters  
Tuesday, 10-05-2022

Note : KIADB-RK-SP-60





GPS Map  
Camera: Lite

5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                          |                           |
|--------------------------|---------------------------|
| Latitude<br>13.15247611° | Longitude<br>77.68592433° |
| Local 03:40:37 PM        | Altitude 805.13 meters    |
| GMT 10:10:37 AM          | Tuesday, 10-05-2022       |

Note : KIADB-RK-HM-51



GPS Map  
Camera: Lite

5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                          |                           |
|--------------------------|---------------------------|
| Latitude<br>13.15242795° | Longitude<br>77.68593734° |
| Local 03:40:50 PM        | Altitude 804.36 meters    |
| GMT 10:10:50 AM          | Tuesday, 10-05-2022       |

Note : KIADB-RK-HM-52



GPS Map  
Camera: Lite

5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                          |                           |
|--------------------------|---------------------------|
| Latitude<br>13.15241114° | Longitude<br>77.68597111° |
| Local 03:41:06 PM        | Altitude 803.39 meters    |
| GMT 10:11:06 AM          | Tuesday, 10-05-2022       |

Note : KIADB-RK-HM-53



GPS Map  
Camera: Lite

5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                          |                           |
|--------------------------|---------------------------|
| Latitude<br>13.15241638° | Longitude<br>77.68597378° |
| Local 03:41:16 PM        | Altitude 803.25 meters    |
| GMT 10:11:16 AM          | Tuesday, 10-05-2022       |

Note : KIADB-RK-HM-54





GPS Map  
CameraLife

5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15245175°      | 77.68585401°           |
| Local 03:39:39 PM | Altitude 805.27 meters |
| GMT 10:09:39 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-TR-47



GPS Map  
CameraLife

5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15250136°      | 77.68587194°           |
| Local 03:39:57 PM | Altitude 804.09 meters |
| GMT 10:09:57 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-SP-48



GPS Map  
CameraLife

5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.1525126°       | 77.68591687°           |
| Local 03:40:07 PM | Altitude 804.58 meters |
| GMT 10:10:07 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-SP-49



GPS Map  
CameraLife

5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15251153°      | 77.68592881°           |
| Local 03:40:20 PM | Altitude 804.75 meters |
| GMT 10:10:20 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-SP-50





5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.1524619°       | 77.68580162°           |
| Local 03:38:40 PM | Altitude 806.51 meters |
| GMT 10:08:40 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-HM-43



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15241989°      | 77.68580801°           |
| Local 03:38:59 PM | Altitude 805.32 meters |
| GMT 10:08:59 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-HM-44



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15241867°      | 77.68585632°           |
| Local 03:39:14 PM | Altitude 805.46 meters |
| GMT 10:09:14 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-HM-45



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15242627°      | 77.68585769°           |
| Local 03:39:26 PM | Altitude 805.01 meters |
| GMT 10:09:26 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-HM-46





5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

Latitude 13.15243777° Longitude 77.68575836°  
Local 03:37:47 PM Altitude 807.27 meters  
GMT 10:07:47 AM Tuesday, 10-05-2022

Note : KIADB-RK-TR-39



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

Latitude 13.15248401° Longitude 77.68576435°  
Local 03:38:07 PM Altitude 807.81 meters  
GMT 10:08:07 AM Tuesday, 10-05-2022

Note : KIADB-RK-TR-40



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

Latitude 13.15249502° Longitude 77.68579065°  
Local 03:38:17 PM Altitude 807.38 meters  
GMT 10:08:17 AM Tuesday, 10-05-2022

Note : KIADB-RK-TR-41



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

Latitude 13.15248761° Longitude 77.6857952°  
Local 03:38:25 PM Altitude 806.79 meters  
GMT 10:08:25 AM Tuesday, 10-05-2022

Note : KIADB-RK-TR-42





5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

Latitude  
13.15246739°

Longitude  
77.68569411°

Local 03:36:47 PM  
GMT 10:06:47 AM

Altitude 807.76 meters  
Tuesday, 10-05-2022

Note : KIADB-RK-HM-35



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

Latitude  
13.15242703°

Longitude  
77.68570293°

Local 03:36:59 PM  
GMT 10:06:59 AM

Altitude 807.08 meters  
Tuesday, 10-05-2022

Note : KIADB-RK-HM-36



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

Latitude  
13.15242177°

Longitude  
77.68574583°

Local 03:37:12 PM  
GMT 10:07:12 AM

Altitude 805.75 meters  
Tuesday, 10-05-2022

Note : KIADB-RK-HM-37



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

Latitude  
13.15240364°

Longitude  
77.6857518°

Local 03:37:33 PM  
GMT 10:07:33 AM

Altitude 806.64 meters  
Tuesday, 10-05-2022

Note : KIADB-RK-HM-38





GPS Map  
Camera Lite

5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                       |
|-------------------|-----------------------|
| Latitude          | Longitude             |
| 13.15246654°      | 77.68562911°          |
| Local 03:36:04 PM | Altitude 806.7 meters |
| GMT 10:06:04 AM   | Tuesday, 10-05-2022   |

Note : KIADB-RK-TR-31



GPS Map  
Camera Lite

5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15249771°      | 77.68565085°           |
| Local 03:36:14 PM | Altitude 807.67 meters |
| GMT 10:06:14 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-TR-32



GPS Map  
Camera Lite

5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15250443°      | 77.68568314°           |
| Local 03:36:22 PM | Altitude 807.77 meters |
| GMT 10:06:22 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-TR-33



GPS Map  
Camera Lite

5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15249801°      | 77.68569141°           |
| Local 03:36:30 PM | Altitude 807.75 meters |
| GMT 10:06:30 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-TR-34





5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15246436°      | 77.68559206°           |
| Local 03:35:15 PM | Altitude 805.89 meters |
| GMT 10:05:15 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-HM-27



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15242799°      | 77.6855842°            |
| Local 03:35:29 PM | Altitude 805.86 meters |
| GMT 10:05:29 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-HM-28



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.1524193°       | 77.68562398°           |
| Local 03:35:40 PM | Altitude 805.79 meters |
| GMT 10:05:40 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-HM-29



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15242031°      | 77.68562976°           |
| Local 03:35:50 PM | Altitude 805.96 meters |
| GMT 10:05:50 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-HM-30





5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15245967°      | 77.68552534°           |
| Local 03:34:24 PM | Altitude 805.42 meters |
| GMT 10:04:24 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-TR-23



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15249861°      | 77.68552934°           |
| Local 03:34:40 PM | Altitude 806.31 meters |
| GMT 10:04:40 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-TR-24



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                       |
|-------------------|-----------------------|
| Latitude          | Longitude             |
| 13.15250601°      | 77.68556827°          |
| Local 03:34:52 PM | Altitude 805.9 meters |
| GMT 10:04:52 AM   | Tuesday, 10-05-2022   |

Note : KIADB-RK-TR-25



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15249756°      | 77.6855734°            |
| Local 03:34:59 PM | Altitude 805.81 meters |
| GMT 10:04:59 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-TR-26





5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

Latitude 13.15246963° Longitude 77.68546919°  
Local 03:33:42 PM Altitude 804.23 meters  
GMT 10:03:42 AM Tuesday, 10-05-2022

Note : KIADB-RK-HM-19



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

Latitude 13.1524324° Longitude 77.68547263°  
Local 03:33:53 PM Altitude 804.89 meters  
GMT 10:03:53 AM Tuesday, 10-05-2022

Note : KIADB-RK-HM-20



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

Latitude 13.15242037° Longitude 77.68551027°  
Local 03:34:02 PM Altitude 804.39 meters  
GMT 10:04:02 AM Tuesday, 10-05-2022

Note : KIADB-RK-HM-21



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

Latitude 13.15242825° Longitude 77.68553005°  
Local 03:34:09 PM Altitude 804.12 meters  
GMT 10:04:09 AM Tuesday, 10-05-2022

Note : KIADB-RK-HM-22





GPS Map  
Camera Lite

5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

Latitude  
13.15248279°

Longitude  
77.68541897°

Local 03:32:29 PM  
GMT 10:02:29 AM

Altitude 807.56 meters  
Tuesday, 10-05-2022

Note : KIADB-RK-TR-15



GPS Map  
Camera Lite

5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

Latitude  
13.15251404°

Longitude  
77.68542181°

Local 03:32:42 PM  
GMT 10:02:42 AM

Altitude 808.26 meters  
Tuesday, 10-05-2022

Note : KIADB-RK-TR-16



GPS Map  
Camera Lite

5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

Latitude  
13.15255281°

Longitude  
77.68546681°

Local 03:33:14 PM  
GMT 10:03:14 AM

Altitude 805.02 meters  
Tuesday, 10-05-2022

Note : KIADB-RK-TR-17



GPS Map  
Camera Lite

5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

Latitude  
13.15251495°

Longitude  
77.68547962°

Local 03:33:23 PM  
GMT 10:03:23 AM

Altitude 804.04 meters  
Tuesday, 10-05-2022

Note : KIADB-RK-TR-18





GPS Map  
Camera Lite

5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                          |                           |
|--------------------------|---------------------------|
| Latitude<br>13.15252697° | Longitude<br>77.68538709° |
| Local 03:27:45 PM        | Altitude 808.24 meters    |
| GMT 09:57:45 AM          | Tuesday, 10-05-2022       |

Note : KIADB-RK-TR-10



GPS Map  
Camera Lite

5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                          |                           |
|--------------------------|---------------------------|
| Latitude<br>13.15248095° | Longitude<br>77.68539019° |
| Local 03:27:55 PM        | Altitude 808.38 meters    |
| GMT 09:57:55 AM          | Tuesday, 10-05-2022       |

Note : KIADB-RK-TR-11



GPS Map  
Camera Lite

5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                          |                           |
|--------------------------|---------------------------|
| Latitude<br>13.15243843° | Longitude<br>77.68540128° |
| Local 03:28:06 PM        | Altitude 808.1 meters     |
| GMT 09:58:06 AM          | Tuesday, 10-05-2022       |

Note : KIADB-RK-TR-12



GPS Map  
Camera Lite

5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                          |                           |
|--------------------------|---------------------------|
| Latitude<br>13.15242662° | Longitude<br>77.68543006° |
| Local 03:28:27 PM        | Altitude 807.19 meters    |
| GMT 09:58:27 AM          | Tuesday, 10-05-2022       |

Note : KIADB-RK-HM-13





5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15245392°      | 77.68531407°           |
| Local 03:26:49 PM | Altitude 808.52 meters |
| GMT 09:56:49 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-TR-05



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15246912°      | 77.68532994°           |
| Local 03:26:57 PM | Altitude 809.42 meters |
| GMT 09:56:57 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-TR-06



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.1524847°       | 77.68533292°           |
| Local 03:27:06 PM | Altitude 809.12 meters |
| GMT 09:57:06 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-TR-07



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15253214°      | 77.68538568°           |
| Local 03:27:36 PM | Altitude 808.77 meters |
| GMT 09:57:36 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-TR-09





Bengaluru,, 5M3M+5PJ, Huvinayakanahalli, Bengaluru,  
Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15254498°      | 77.68526735°           |
| Local 03:25:03 PM | Altitude 809.55 meters |
| GMT 09:55:03 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-TR-01



Bengaluru,, 5M3M+5PJ, Huvinayakanahalli, Bengaluru,  
Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15253341°      | 77.68527871°           |
| Local 03:25:57 PM | Altitude 810.08 meters |
| GMT 09:55:57 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-TR-02



Bengaluru,, 5M3M+5PJ, Huvinayakanahalli, Bengaluru,  
Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15248852°      | 77.68528818°           |
| Local 03:26:06 PM | Altitude 811.01 meters |
| GMT 09:56:06 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-TR-03



5M4J+5WJ, Hoovinayakanahalli Cross, Huvinayakanahalli,  
Bengaluru, Karnataka 562149, India

|                   |                        |
|-------------------|------------------------|
| Latitude          | Longitude              |
| 13.15246328°      | 77.68531945°           |
| Local 03:26:36 PM | Altitude 809.65 meters |
| GMT 09:56:36 AM   | Tuesday, 10-05-2022    |

Note : KIADB-RK-TR-04

**Saplings planted and their quantity**

**Location of the Plantation:**

ASC NORTH (KGIPUR & ISBLUR military campus)

| Sl. No. | Name of the saplings | Number of saplings planted | Remarks by AEO |
|---------|----------------------|----------------------------|----------------|
| 1       | Amala                | 70                         |                |
| 2       | Jamrin               | 55                         |                |
| 3       | Jack Fruit           | 150                        |                |
| 4       | Indian Almond        | 100                        |                |
| 5       | Indian Figgy         | 150                        |                |
| 7       | Banana poda          | 65                         |                |
| 8       | Hippe                | 70                         |                |
| 9       | T. Ronia             | 100                        |                |
| 10      | Akarika malleja      | 70                         |                |
| 11      | H-Desavala           | 70                         |                |
| 12      | Hole walli           | 70                         |                |
| 13      | Govindsi             | 80                         |                |
| 14      | Naguleya puerha      | 70                         |                |
| 15      | Sipethadia           | 80                         |                |
| 16      | Kadamba              | 70                         |                |

**SECRETARY**

The Nursery Men Co-operative Society Ltd  
Balkrishna, Bangalore - 560 004





Ramakrishna

Saplings planted and their quantity

Location of the Plantation:

| Sl. No. | Name of the saplings | Number of saplings planted | Remarks by AEO |
|---------|----------------------|----------------------------|----------------|
| 17      | Mahaguni             | 100                        |                |
| 18      | Sempige              | 70                         |                |
| 19      | Alla                 | 60                         |                |
| 20      | Arali                | 60                         |                |
| 21      | Bodadi               | 60                         |                |
| 22      | Norela               | 70                         |                |
| 23      | Noelun               | 70                         |                |
| 24      | Tapasi               | 50                         |                |
| 25      | Hongu                | 50                         |                |
| 26      | Tare                 | 50                         |                |
| 27      | Sima Ruba            | 60                         |                |
| 28      | JAKARUDA             | 50                         |                |
| 29      | Tecoma               | 65                         | EGIDOR = 678   |
| 28      | Gomy                 | 40                         | ISBLOR = 1450  |
|         |                      | 2125                       | 2125           |

SECRETARY

The Nursery Men Co-operative Society Ltd



## Saplings Planted and their quantity

### Location Of the Plantation : Neelasandra Army Camp

| SIno         | Name of the Saplings | Number of sapling | Remarks by AEO |
|--------------|----------------------|-------------------|----------------|
| 1            | Bettadanelli         | 45                |                |
| 2            | Hunase               | 35                |                |
| 4            | Halasu               | 45                |                |
| 5            | Hebbalasu            | 54                |                |
| 6            | Kadubadami           | 61                |                |
| 7            | Basavanpada          | 50                |                |
| 8            | Nerale               | 85                |                |
| 9            | Mahaghany            | 35                |                |
| 10           | Kadamba              | 20                |                |
| 11           | Mango                | 20                |                |
| 12           | Pannerale            | 20                |                |
| 13           | Thorematti           | 15                |                |
| 15           | ALA                  | 10                |                |
| 16           | Arali                | 10                |                |
| 17           | Atti                 | 20                |                |
| 18           | Goni                 | 30                |                |
| <b>TOTAL</b> |                      | <b>555</b>        |                |

For INDUS HERBS

  
Proprietor

  
ASSISTANT ENVIRONMENT OFFICER  
Bengaluru Metro Rail Corporation Ltd  
Shanthinagar, Bengaluru




## Saplings Planted and their quantity

**Location Of the Plantation : CMPI CAMPUS IBLUR**

| Slno         | Name of the Saplings | Number of sapling | Remarks by AEO |
|--------------|----------------------|-------------------|----------------|
| 1            | ARALI                | 17                |                |
| 2            | AALA                 | 15                |                |
| 3            | ALSTOMIA             | 35                |                |
| 4            | AMLA                 | 3                 |                |
| 5            | ATTI                 | 2                 |                |
| 6            | BASAVANAPADA         | 57                |                |
| 7            | BUGARI               | 23                |                |
| 8            | GONI MARA            | 10                |                |
| 9            | HOLEMATTI            | 31                |                |
| 10           | HOLEDASVALA          | 19                |                |
| 11           | HONGE                | 39                |                |
| 12           | HUHARASI             | 31                |                |
| 13           | JACARANDA            | 16                |                |
| 14           | KADAMBA              | 4                 |                |
| 15           | KADUBADAMI           | 49                |                |
| 16           | KAKKE                | 11                |                |
| 17           | MAHAGONY             | 58                |                |
| 18           | MUHA                 | 2                 |                |
| 19           | NAGALINGA            | 44                |                |
| 20           | NERALE               | 6                 |                |
| 21           | RANJAL               | 7                 |                |
| 22           | SIMARUBA             | 2                 |                |
| 23           | SPATHODEA            | 50                |                |
| 24           | TECOMA               | 3                 |                |
| 25           | THARE                | 2                 |                |
| 26           | TORIMATI             | 24                |                |
| <b>TOTAL</b> |                      | <b>560</b>        |                |

**For INDUS HERBS**

  
Proprietor

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




## Saplings Planted and their quantity

**Location Of the Plantation : ASIC NORTH IBLUR**

| S/no         | Name of the Saplings | Number of sapling | Remarks by AEO |
|--------------|----------------------|-------------------|----------------|
| 1            | AKASHAMALLIGE        | 18                |                |
| 2            | ARALI                | 10                |                |
| 3            | AALA                 | 56                |                |
| 4            | ALSTOMIA             | 17                |                |
| 5            | BURGA                | 167               |                |
| 6            | ATTI                 | 15                |                |
| 7            | BASARI               | 70                |                |
| 8            | BASAVANAPADA         | 11                |                |
| 9            | BUGARI               | 10                |                |
| 10           | CONOCORPUS           | 18                |                |
| 11           | GONI                 | 2                 |                |
| 12           | HALASU               | 16                |                |
| 13           | HOLEDASVALA          | 15                |                |
| 14           | HONGE                | 89                |                |
| 15           | JACARANDA            | 25                |                |
| 16           | KADAMBA              | 144               |                |
| 17           | KADUBADAMI           | 15                |                |
| 18           | MAHAGONY             | 79                |                |
| 19           | NEEM                 | 5                 |                |
| 20           | NAGALINGA            | 64                |                |
| 21           | NERALE               | 42                |                |
| 22           | RANJAL               | 5                 |                |
| 23           | SIMARUBA             | 80                |                |
| 24           | SPATHODEA            | 72                |                |
| 25           | TABUBIEA ROIESA      | 20                |                |
| 26           | THARE                | 4                 |                |
| 27           | TORIMATI             | 41                |                |
| <b>TOTAL</b> |                      | <b>1110</b>       |                |

**For INDUS HERBS**

  
Proprietor

  
ASSISTANT ENVIRONMENT OFFICER  
Bengaluru Metro Rail Corporation Ltd  
Bengaluru

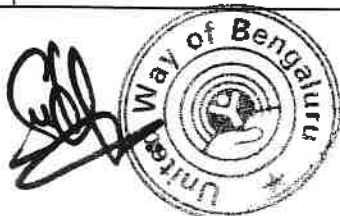





### Saplings Planted and their quantity

**Location of Plantation** - Kempagowda Layout, Challaghatta near Kengeri  
(Block-5-L-Sector , Block-5-I-Sector , Block-6-B-Sector)

| SL NO | Name of the Saplings | Number of Saplings Planted | Remarks by AEO |
|-------|----------------------|----------------------------|----------------|
| 1     | Nagalingpuspha       | 75                         |                |
| 2     | Tabebuia Rosea       | 170                        |                |
| 3     | Hoorasi              | 105                        |                |
| 4     | Spathodia            | 50                         |                |
| 5     | Jacaranda            | 50                         |                |
| 6     | Thormatti            | 150                        |                |
| 7     | Honge                | 115                        |                |
| 8     | Mahagani             | 150                        |                |
| 9     | Neem                 | 140                        |                |
| 10    | Peltophorum          | 30                         |                |
| 11    | Kadu Badami          | 75                         |                |
| 12    | Basari Mara          | 140                        |                |
| 13    | Champaka Mara        | 110                        |                |
| 14    | Kadama               | 70                         |                |
| 15    | Bettada Nellikayi    | 30                         |                |
| 16    | Nerale               | 130                        |                |



  
**ASSISTANT ENVIRONMENT OFFICER**  
 Bengaluru Metro Rail Corporation Ltd  
 Chantlenger, Bengaluru



|    |                       |                 |  |
|----|-----------------------|-----------------|--|
| 17 | Akash Mallige         | 60              |  |
| 18 | Arali                 | 45              |  |
| 19 | Cherry                | 10              |  |
| 20 | Hole Dasavala         | 50              |  |
| 21 | Jack Fruit            | 50              |  |
| 22 | Atti                  | 105             |  |
| 23 | Mango                 | 25              |  |
| 24 | Thare                 | 20              |  |
| 25 | Ala Mara              | 20              |  |
| 26 | Kiru Nalli            | 20              |  |
| 27 | Tamarind              | 50              |  |
| 28 | Basavana Pada         | 50              |  |
| 29 | Tabubia avalaneda     | 30              |  |
|    | <b>Total Saplings</b> | <b>2,125.00</b> |  |



  
 ASSISTANT ENVIRONMENT OFFICER  
 Bengaluru Metro Rail Corporation Ltd  
 Shanthinagar, Bengaluru



Saplings planted and their quantity

Location of the Plantation:

ASC NORTH DABLER

Garden villa

| Sl. No. | Name of the saplings | Number of saplings planted | Remarks by AEO |
|---------|----------------------|----------------------------|----------------|
| 1       | Jammarind            | 50                         |                |
| 2       | Jack fruit           | 100                        |                |
| 3       | Indian Almond        | 50                         |                |
| 4       | Indian fig           | 50                         |                |
| 5       | Basawapada           | 50                         |                |
| 6       | Cheri                | 50                         |                |
| 7       | Mung Jackfruit       | 50                         |                |
| 8       | Hippe                | 60                         |                |
| 9       | Hille Desavala       | 75                         |                |
| 10      | Hille Malli          | 100                        |                |
| 11      | Horvaresi            | 100                        |                |
| 12      | Napaluga purpbe      | 50                         |                |
| 13      | Katamba Kadamba      | 50                         |                |
| 14      | Mahaguni             | 100                        |                |
| 15      | Chayabha             | 100                        |                |



# Saplings planted and their quantity

Location of the Plantation:

| Sl. No. | Name of the saplings | Number of saplings planted | Remarks by AEO |
|---------|----------------------|----------------------------|----------------|
| 16      | Dilla                | 50                         |                |
| 17      | Anali                | 50                         |                |
| 18      | Basari               | 50                         |                |
| 19      | Nerele               | 100                        |                |
| 20      | Ncem                 | 100                        |                |
| 21      | Tayari               | 30                         |                |
| 22      | Gurme                | 50                         |                |
| 23      | T. Rodia             | 100                        |                |
| 24      | Mango                | 55                         |                |
| 25      | Homme                | 50                         |                |
| 26      | Hongues              | 35                         |                |
| 27      | Rangal               | 60                         |                |
| 28      | Tare                 | 35                         |                |
|         |                      | <u>1800</u>                |                |
|         | CMP ISSUES           | 950                        |                |
|         | ADM Block            | <u>850</u><br>1800         |                |

G.V. Mani  
ASSISTANT ENVIRONMENT OFFICER

For GARDEN.UP

Bengaluru Metro Rail Corporation Ltd.  
Chandigarh





## Seedlings Planted and their quantity

**Location of the Plantation: Jayaprakash Narayan Sports Campus, Vidyanagar.**

| Sl. No. | Name of the saplings | Number of saplings planted | Remarks by AEO |
|---------|----------------------|----------------------------|----------------|
| 1       | Tamarind             | 50                         |                |
| 2       | Jack fruit           | 10                         |                |
| 3       | Mango                | 50                         |                |
| 4       | Indian Fig           | 40                         |                |
| 5       | Hole Dasavala        | 20                         |                |
| 6       | Hole Mathi           | 20                         |                |
| 7       | Hoovarasi            | 45                         |                |
| 8       | Champaka             | 40                         |                |
| 9       | Ala                  | 50                         |                |
| 10      | Arali                | 35                         |                |
| 11      | Nerale               | 40                         |                |
| 12      | Neem                 | 15                         |                |
| 13      | Honge                | 45                         |                |
| 14      | Basari               | 20                         |                |
| 15      | Tabubia Rosia        | 20                         |                |
|         | <b>Total</b>         | <b>500</b>                 |                |

For SHEVALAL SIDDHESHWARA  
  
 Proprietor

  
 ASSISTANT ENVIRONMENT OFFICER  
 Bengaluru Metro Rail Corporation Ltd  
 Shanthinagar, Bengaluru



## Seedlings Planted and their quantity

Location of the Plantation: Govt High School, Vidyanagar.

| Sl. NO. | Name of the saplnts | Number of saplnts planted | Remarks by AEO |
|---------|---------------------|---------------------------|----------------|
| 1       | Atti                | 50                        |                |
| 2       | Jack fruit          | 25                        |                |
| 3       | Guossberry          | 25                        |                |
| 4       | Basavanapada        | 50                        |                |
| 5       | Hole Dasavala       | 45                        |                |
| 6       | Hole Mathi          | 140                       |                |
| 7       | Hoovarasi           | 55                        |                |
| 8       | Champaka            | 30                        |                |
| 9       | Ala                 | 50                        |                |
| 10      | Arali               | 50                        |                |
| 11      | Nerale              | 40                        |                |
| 12      | Neem                | 40                        |                |
| 13      | Honge               | 40                        |                |
| 14      | Basari              | 145                       |                |
| 15      | Tabubia Rosia       | 80                        |                |
| 16      | Mohwa               | 35                        |                |
| 17      | Nagalinga Pushpa    | 50                        |                |
| 18      | Bili Boorga         | 100                       |                |
| 19      | Spethodia           | 75                        |                |
| 20      | Kadamba             | 55                        |                |
| 21      | Mahagani            | 50                        |                |
| 22      | Saraka Indika       | 50                        |                |
| 23      | Ailanthus           | 20                        |                |
|         | <b>Total</b>        | <b>1300</b>               |                |

For signature of Proprietor

*[Signature]*  
Proprietor

*[Signature]*  
ASSISTANT ENVIRONMENT OFFICER  
Bengaluru Metro Rail Corporation Ltd.  
Shanthinagar, Bengaluru



**Saplings Planted and their quantity**

**Location Of the Plantation : KEMPEGOWDA LAYOUT**

| <b>SIno</b>  | <b>Name of the Saplings</b> | <b>Number of sapling</b> | <b>Remarks by AEO</b> |
|--------------|-----------------------------|--------------------------|-----------------------|
| 1            | ARALI                       | 39                       |                       |
| 2            | AALA                        | 70                       |                       |
| 3            | AKASHAMALLIGE               | 28                       |                       |
| 4            | BASARI                      | 64                       |                       |
| 5            | BASAVANAPADA                | 89                       |                       |
| 6            | BUGARI                      | 99                       |                       |
| 7            | HALASU                      | 21                       |                       |
| 8            | HOLEMATTI                   | 8                        |                       |
| 9            | HOLEDASVALA                 | 41                       |                       |
| 10           | HONGE                       | 129                      |                       |
| 11           | HUNSE                       | 80                       |                       |
| 12           | JACARANDA                   | 73                       |                       |
| 13           | KADAMBA                     | 92                       |                       |
| 14           | KADUBADAMI                  | 83                       |                       |
| 15           | KAKKE                       | 68                       |                       |
| 16           | MAHAGONY                    | 211                      |                       |
| 17           | MUHA                        | 32                       |                       |
| 18           | NAGALINGA                   | 48                       |                       |
| 19           | NERALE                      | 80                       |                       |
| 20           | NEEM                        | 7                        |                       |
| 21           | RANJAL                      | 31                       |                       |
| 22           | RUDRAKSHA                   | 5                        |                       |
| 23           | SIMARUBA                    | 24                       |                       |
| 24           | SPATHODEA                   | 164                      |                       |
| 25           | TABUBIA ROSIEA              | 101                      |                       |
| 26           | THARE                       | 8                        |                       |
| 27           | TORIMATI                    | 105                      |                       |
| <b>TOTAL</b> |                             | <b>1800</b>              |                       |

**For INDUS HERBS**

  
Proprietor

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

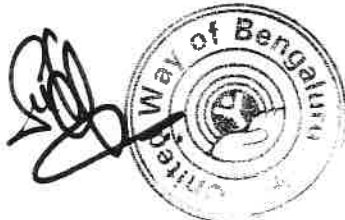


### Saplins Planted and their quantity

**Location of Plantation** - Kempegowda Layout, Challaghatta near Kengeri  
(7Block -DCA ,7-Block-I-Sector , 6 Block-B-Sector , 5-Block-H-Sector)

| SL NO | Name of the Saplins | Number of Saplins Planted | Remarks by AEO |
|-------|---------------------|---------------------------|----------------|
| 1     | Nagalingpuspha      | 70                        |                |
| 2     | Tabebuia Rosea      | 139                       |                |
| 3     | Hoorasi             | 85                        |                |
| 4     | Thormatti           | 110                       |                |
| 5     | Honge               | 146                       |                |
| 6     | Mahagani            | 100                       |                |
| 7     | Neem                | 130                       |                |
| 8     | Kadu Badami         | 120                       |                |
| 9     | Basari Mara         | 105                       |                |
| 10    | Champaka Mara       | 85                        |                |
| 11    | Kadama              | 30                        |                |
| 12    | Bettada Nellikayi   | 40                        |                |
| 13    | Nerale              | 85                        |                |

1,245

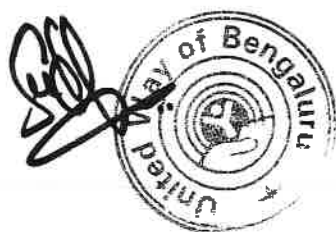


**ASSISTANT ENVIRONMENT OFFICER**  
 Bengaluru Metro Rail Corporation Ltd.  
 Shanthi Nagar, Bengaluru





|    |                       |                 |   |
|----|-----------------------|-----------------|---|
| 14 | Arali                 | 65              |   |
| 15 | Hole Dasavala         | 45              |   |
| 16 | Jack Fruit            | 50              |   |
| 17 | Atti                  | 100             |   |
| 18 | Ala Mara              | 30              |   |
| 19 | Kiru Nalli            | 30              |   |
| 20 | Tamarind              | 55              |   |
| 21 | Tabubia avalaneda     | 25              |   |
| 22 | Goni                  | 45              |   |
| 23 | Bili Booraga          | 80              |   |
| 24 | Tapasi                | 30              |   |
|    | <b>Total Saplings</b> | <b>1,800.00</b> | ✓ |



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



**Saplings planted and their quantity**

**Location of the Plantation:**

ASC NORTH DEGLUR

| Sl. No. | Name of the saplings | Number of saplings planted | Remarks by AEO |
|---------|----------------------|----------------------------|----------------|
| 1       | Tammarind            | 50                         |                |
| 2       | Jack fruit           | 100                        |                |
| 3       | Indian Almond        | 50                         |                |
| 4       | Indian Pigeon        | 50                         |                |
| 5       | Besawana pada        | 50                         |                |
| 6       | Jack fruit           | 50                         |                |
| 7       | Hippe                | 50                         |                |
| 8       | Hde Dasavala         | 100                        |                |
| 9       | Hde mali             | 100                        |                |
| 10      | Hoovarah             | 100                        |                |
| 11      | Abajaliga Peepa      | 50                         |                |
| 12      | Kodasa               | 50                         |                |
| 13      | Mahageni             | 100                        |                |
| 14      | Changaka             | 100                        |                |
| 15      | Alla                 | 50                         |                |

**SECRETARY**



**Location of the Plantation:**

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



| Saplings planted and their quantity |                      |                            |                |
|-------------------------------------|----------------------|----------------------------|----------------|
| Location of the Plantation: N P K L |                      |                            |                |
| Sl. No.                             | Name of the saplings | Number of saplings planted | Remarks by AEO |
| 1                                   | BEVU                 | 40                         | ✓              |
| 2                                   | ALA                  | 35                         | ✓              |
| 3                                   | ARALI                | 30                         | ✓              |
| 4                                   | SAMPIGE              | 70                         | ✓              |
| 5                                   | HUNASE               | 90                         | ✓              |
| 6                                   | HALASU               | 100                        | ✓              |
| 7                                   | KADU BADAMI          | 90                         | ✓              |
| 8                                   | BASAVANAPADA         | 50                         | ✓              |
| 9                                   | TABUBIA ROSIA        | 150                        | ✓              |
| 10                                  | AKASHA MALLIGE       | 30                         | ✓              |
| 11                                  | HOLE DASAVALA        | 40                         | ✓              |
| 12                                  | THORE MATHI          | 170                        | ✓              |

  
SECRETARY

The Nursery Men Co-operative Society Ltd.  
Lalbagh, Bangalore - 560 004.

  
ASSISTANT ENVIRONMENT OFFICER  
Bengaluru Metro Rail Corporation Ltd  
Shanthinagar, Bengaluru





**Saplings planted and their quantity**

**Location of the Plantation:** NPKL

| Sl. No. | Name of the saplings | Number of saplings planted | Remarks by AEO |
|---------|----------------------|----------------------------|----------------|
| 13      | HUVARASI             | 95                         | ✓              |
| 14      | NAGALINGA PUSHPA     | 90                         | ✓              |
| 15      | SPE THODIA           | 50                         | ✓              |
| 16      | MAHAGANI             | 150                        | ✓              |
| 17      | NERALE               | 100                        | ✓              |
| 18      | MAVU                 | 30                         | ✓              |
| 19      | HONGE                | 50                         | ✓              |
| 20      | KADAMBA              | 30                         | ✓              |
| 21      | TARUBIA AVALANDA     | 20                         | ✓              |
| 22      | HONNE                | 70                         | ✓              |
| 23      | BEETE                | 70                         | ✓              |
| 24      | BASARI               | 50                         | ✓              |

TOTAL - 1700

**SECRETARY**

The Nursery Men Co-operative Society Ltd.  
Lalbagh, Bangalore - 560 004.

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



**Saplings planted and their quantity**

**Location of the Plantation:**

NPKL - 4th Block & MAR Road

| Sl. No. | Name of the saplings | Number of saplings planted | Remarks by AEO |
|---------|----------------------|----------------------------|----------------|
| 1       | AMLA                 | 100                        | ✓              |
| 2       | HUNASE               | 100                        | ✓              |
| 3       | AKASHA MALIGE        | 50                         | ✓              |
| 4       | KADU BADAMI          | 180                        | ✓              |
| 5       | CHAMPAKA             | 80                         | ✓              |
| 6       | NEEM                 | 30                         | ✓              |
| 7       | TABUBIA ROSIA        | 95                         | ✓              |
| 8       | MAHAGANI             | 150                        | ✓              |
| 9       | HONGE                | 120                        | ✓              |
| 10      | BASAVANAPADA         | 110                        | ✓              |
| 11      | HALASU               | 50                         | ✓              |
| 12      | NERALE               | 100                        | ✓              |

For GARDEN VILLA

*[Signature]*  
Proprietor

*[Signature]*  
**ASSISTANT ENVIRONMENT OFFICER**  
Bengaluru Metro Rail Corporation Ltd  
Shree Nagar, Bengaluru



**Saplings planted and their quantity**

**Location of the Plantation:** NPKL - 4th Block & MAR Road

| Sl. No. | Name of the saplings | Number of saplings planted | Remarks by AEO |
|---------|----------------------|----------------------------|----------------|
| 13      | NAGALINGA            | 35                         | ✓              |
| 14      | THORE MATHI          | 50                         | ✓              |
| 15      | HUVARASI             | 80                         | ✓              |
| 16      | TABUBIA AVALANDA     | 50                         | ✓              |
| 17      | MANGO                | 50                         | ✓              |
| 18      | NELLI                | 100                        | ✓              |
| 19      | ALA                  | 50                         | ✓              |
| 20      | ARALI                | 50                         | ✓              |
| 21      | SPETHODIA            | 70                         | ✓              |
|         | TOTAL                | 1,700                      | ✓              |
|         |                      |                            |                |

For GARDEN VILLA

*[Signature]*

*[Signature]*  
 ASSISTANT ENVIRONMENT OFFICER  
 Bengaluru Metro Rail Corporation Ltd  
 Shanti Nagar, Bengaluru






| <b>Saplings planted and their quantity</b>   |                             |                                   |                       |
|--|-----------------------------|-----------------------------------|-----------------------|
| Location of the Plantation: <b>KIADB Defence &amp; Aerospace Park, Devanahalli</b> |                             |                                   |                       |
| Name of the Agency: <b>ECOGENE CONCEPTS LLP</b>                                    |                             |                                   |                       |
| <b>SL No.</b>  | <b>Name of the saplings</b> | <b>Number of saplings planted</b> | <b>Remarks by AEO</b> |
| 1  | Amla                        | 100                               |                       |
| 2  | Tamarind                    | 100                               |                       |
| 3  | Jackfruit                   | 100                               |                       |
| 4  | Indian Almond               | 80                                |                       |
| 5  | Basavanapada                | 60                                |                       |
| 6  | Gooseberry Tree             | 80                                |                       |
| 7  | Tabebuia rosea              | 80                                |                       |
| 8  | Akasha Mallige              | 60                                |                       |
| 9  | Hole Dasvaia                | 80                                |                       |
| 10   | Hole Matti,                 | 80                                |                       |
| 11   | Hoorasi                     | 80                                |                       |
| 12   | Nagalinga Pushpa            | 60                                |                       |
| 13   | Spathodea                   | 60                                |                       |
| 14   | Kadambamara                 | 80                                |                       |
| 15   | Mahogany                    | 80                                |                       |

For Ecogene Concepts LLP





Partner

  
 ASSISTANT ENVIRONMENT OFFICER  
 Bengaluru Metro Rail Corp. Ltd.,  
 Bengaluru



|         |                    |      |  |
|---------|--------------------|------|--|
| 16      | Champakamara       | 60   |  |
| 17      | ALA                | 40   |  |
| 18      | Aralimara          | 40   |  |
| 19      | Neralemara         | 80   |  |
| 20      | Neem               | 60   |  |
| 21      | Mango              | 80   |  |
| 22      | Honge              | 40   |  |
| 23      | Thare              | 40   |  |
| 24      | Antuvais           | 40   |  |
| 25      | Tebebuia Avalaneda | 40   |  |
| Total : |                    | 1700 |  |

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

  
**Partner**  
 For Ecogene Concepts LLP



Saplings planted and their quantity

Location of the Plantation:

HOOVINAFA KAWA HALL KIADB

| Sl. No. | Name of the saplings | Number of saplings planted | Remarks by AEO |
|---------|----------------------|----------------------------|----------------|
| 1       | ಕೃಷಿ                 | 33                         | SATISFACTORY   |
| 2       | ಕುಸು                 | 45                         | -do-           |
| 3       | ಕಾಡು ಬಾವು            | 109                        | -do-           |
| 4       | ಬನವನ ಕಾಡು            | 57                         | -do-           |
| 5       | ಕುಸು                 | 6                          | -do-           |
| 6       | ಕಾಡು ಕುಸು            | 68                         | -do-           |
| 7       | ಕಾಡು ಕುಸು            | 198                        | -do-           |
| 8       | ಕಾಡು ಕುಸು            | 21                         | -do-           |
| 9       | ಕಾಡು ಕುಸು            | 82                         | -do-           |
| 10      | ಕಾಡು ಕುಸು            | 30                         | -do-           |
| 11      | ಕಾಡು ಕುಸು            | 156                        | -do-           |
| 12      | ಕಾಡು ಕುಸು            | 60                         | -do-           |
| 13      | ಕಾಡು ಕುಸು            | 71                         | -do-           |
| 14      | ಕಾಡು ಕುಸು            | 156                        | -do-           |
| 15      | ಕಾಡು ಕುಸು            | 106                        | -do-           |



**Saplings planted and their quantity**

**Location of the Plantation:** HOBINAYAKAWA HALLI KIADB AREA

| Sl. No. | Name of the saplings | Number of saplings planted | Remarks by AEO |
|---------|----------------------|----------------------------|----------------|
| 16      | ಹೊವೆ ಮರ              | 3                          | Salis Jalung   |
| 17      | ಹೊವೆ ಮರ              | 2                          | -do-           |
| 18      | ಹೊವೆ ಮರ              | 100                        | -do-           |
| 19      | ಹೊವೆ ಮರ              | 15                         | -do-           |
| 20      | ಹೊವೆ ಮರ              | (130) 130                  | -do-           |
| 21      | ಹೊವೆ ಮರ              | 87                         | -do-           |
| 22      | ಹೊವೆ ಮರ              | 109                        | -do-           |
| 23      | ಹೊವೆ ಮರ              | 1                          | -do-           |
| 24      | ಹೊವೆ ಮರ              | 10                         | -do-           |
| 25      | ಹೊವೆ ಮರ              | 3                          | -do-           |
| 26      | ಹೊವೆ ಮರ              | 24                         | -do-           |
| 27      | ಹೊವೆ ಮರ              | 1                          | -do-           |
| 28      | ಹೊವೆ ಮರ              | 19                         | -do-           |
| 29      | ಹೊವೆ ಮರ              | 4                          | -do-           |
|         |                      | 1700                       |                |

G.N. Manjunath  
**ASSISTANT ENVIRONMENT OFFICER**  
 Bengaluru Metro Corporation Ltd.,  
 Shant Nagar, Bengaluru





Saplings planted and their quantity

Location of the Plantation:

KIADB MAHADEVA KODIGE HALL

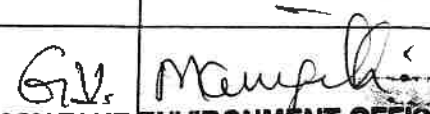
| Sl. No. | Name of the saplings | Number of saplings planted | Remarks by AEO |
|---------|----------------------|----------------------------|----------------|
| 1       | Tamarind             | 102                        |                |
| 2       | Jack fruit           | 79                         |                |
| 3       | Almond               | 83                         |                |
| 4       | T. Rosta             | 113                        |                |
| 5       | Hole Dasavala        | 97                         |                |
| 6       | Hole malhi           | 49                         |                |
| 7       | Hoonavani            | 153                        |                |
| 8       | Nagalinga peepal     | 57                         |                |
| 9       | Spodiadia            | 77                         |                |
| 10      | Kadamba              | 95                         |                |
| 11      | Mahaganai            | 118                        |                |
| 12      | Champak              | 79                         |                |
| 13      | Ara                  | 44                         |                |
| 14      | Arali                | 10                         |                |
| 15      | Wenele               | 99                         |                |



**Saplings planted and their quantity**

**Location of the Plantation:**

| Sl. No. | Name of the saplings | Number of saplings planted | Remarks by AEO |
|---------|----------------------|----------------------------|----------------|
| 16      | Nearm                | 35                         |                |
| 17      | Mango                | 56                         |                |
| 18      | Hongue               | 43                         |                |
| 19      | Unlawale             | 28                         |                |
| 20      | Groni                | 92                         |                |
| 21      | Basani               | 95                         |                |
| 22      | Basavare peda        | 78                         |                |
| 23      | Alli                 | 15                         |                |
| 24      | Shivane              | 14                         |                |
|         |                      |                            |                |
|         | TOTAL                | 1708                       |                |
|         |                      |                            |                |
|         |                      |                            |                |
|         |                      |                            |                |
|         |                      |                            |                |
|         |                      |                            |                |
|         |                      |                            |                |
|         |                      |                            |                |
|         |                      |                            |                |

  
**ASSISTANT ENVIRONMENT OFFICER**  
 Bengaluru Metro Rail Corporation Ltd.,  
 Sharnahalli, Bengaluru



## Geotagging Details of Compensatory Plantation at ASC North, Ejipura, Bengaluru

| SI NO | Coding           | Species Name | Latitude         | Longitude        | Location                      |
|-------|------------------|--------------|------------------|------------------|-------------------------------|
| 1     | ASCN-NMCS-TB-253 | TB           | 12° 56'16.18775" | 77° 38' 3.24193" | ASC North, Ejipura, Bengaluru |
| 2     | ASCN-NMCS-TB-254 | TB           | 12° 56'16.22213" | 77° 38' 3.22908" | ASC North, Ejipura, Bengaluru |
| 3     | ASCN-NMCS-NM-255 | NM           | 12° 56'16.28322" | 77° 38' 3.16957" | ASC North, Ejipura, Bengaluru |
| 4     | ASCN-NMCS-NM-256 | NM           | 12° 56'16.46984" | 77° 38' 3.20644" | ASC North, Ejipura, Bengaluru |
| 5     | ASCN-NMCS-NM-257 | NM           | 12° 56'16.54048" | 77° 38' 3.21464" | ASC North, Ejipura, Bengaluru |
| 6     | ASCN-NMCS-NM-258 | NM           | 12° 56'16.56982" | 77° 38' 3.21587" | ASC North, Ejipura, Bengaluru |
| 7     | ASCN-NMCS-NM-259 | NM           | 12° 56'16.5692"  | 77° 38' 3.15568" | ASC North, Ejipura, Bengaluru |
| 8     | ASCN-NMCS-RJ-260 | RJ           | 12° 56'16.69189" | 77° 38' 3.11622" | ASC North, Ejipura, Bengaluru |
| 9     | ASCN-NMCS-RJ-261 | RJ           | 12° 56'16.91448" | 77° 38' 3.4898"  | ASC North, Ejipura, Bengaluru |
| 10    | ASCN-NMCS-RJ-262 | RJ           | 12° 56'16.97222" | 77° 38' 3.18008" | ASC North, Ejipura, Bengaluru |
| 11    | ASCN-NMCS-RJ-263 | RJ           | 12° 56'17.06564" | 77° 38' 3.06953" | ASC North, Ejipura, Bengaluru |
| 12    | ASCN-NMCS-RJ-264 | RJ           | 12° 56'17.13325" | 77° 38' 3.10222" | ASC North, Ejipura, Bengaluru |
| 13    | ASCN-NMCS-NM-265 | NM           | 12° 56'17.22869" | 77° 38' 3.10171" | ASC North, Ejipura, Bengaluru |
| 14    | ASCN-NMCS-NM-266 | NM           | 12° 56'17.29745" | 77° 38' 3.14459" | ASC North, Ejipura, Bengaluru |
| 15    | ASCN-NMCS-RJ-267 | RJ           | 12° 56'17.37092" | 77° 38' 3.1065"  | ASC North, Ejipura, Bengaluru |
| 16    | ASCN-NMCS-RJ-268 | RJ           | 12° 56'17.4367"  | 77° 38' 3.08958" | ASC North, Ejipura, Bengaluru |
| 17    | ASCN-NMCS-RJ-269 | RJ           | 12° 56'17.46517" | 77° 38' 3.06164" | ASC North, Ejipura, Bengaluru |
| 18    | ASCN-NMCS-RJ-270 | RJ           | 12° 56'17.47169" | 77° 38' 3.0336"  | ASC North, Ejipura, Bengaluru |
| 19    | ASCN-NMCS-RJ-271 | RJ           | 12° 56'17.62339" | 77° 38' 3.06964" | ASC North, Ejipura, Bengaluru |
| 20    | ASCN-NMCS-RJ-272 | RJ           | 12° 56'17.68538" | 77° 38' 3.02878" | ASC North, Ejipura, Bengaluru |
| 21    | ASCN-NMCS-NP-273 | NP           | 12° 56'17.90952" | 77° 38' 3.08296" | ASC North, Ejipura, Bengaluru |
| 22    | ASCN-NMCS-NP-274 | NP           | 12° 56'18.00917" | 77° 38' 3.21749" | ASC North, Ejipura, Bengaluru |
| 23    | ASCN-NMCS-NP-275 | NP           | 12° 56'17.9974"  | 77° 38' 3.25064" | ASC North, Ejipura, Bengaluru |
| 24    | ASCN-NMCS-RJ-276 | RJ           | 12° 56'17.65226" | 77° 38' 3.25169" | ASC North, Ejipura, Bengaluru |
| 25    | ASCN-NMCS-RJ-277 | RJ           | 12° 56'17.48623" | 77° 38' 3.26008" | ASC North, Ejipura, Bengaluru |
| 26    | ASCN-NMCS-RJ-278 | RJ           | 12° 56'17.13646" | 77° 38' 3.39659" | ASC North, Ejipura, Bengaluru |
| 27    | ASCN-NMCS-NM-279 | NM           | 12° 56'16.98853" | 77° 38' 3.41444" | ASC North, Ejipura, Bengaluru |
| 28    | ASCN-NMCS-NM-280 | NM           | 12° 56'16.72469" | 77° 38' 3.37265" | ASC North, Ejipura, Bengaluru |
| 29    | ASCN-NMCS-NM-281 | NM           | 12° 56'16.96769" | 77° 38' 3.90606" | ASC North, Ejipura, Bengaluru |
| 30    | ASCN-NMCS-NM-282 | NM           | 12° 56'16.98349" | 77° 38' 3.89364" | ASC North, Ejipura, Bengaluru |
| 31    | ASCN-NMCS-RJ-283 | RJ           | 12° 56'17.08156" | 77° 38' 3.88295" | ASC North, Ejipura, Bengaluru |
| 32    | ASCN-NMCS-NM-284 | NM           | 12° 56'17.34342" | 77° 38' 3.80605" | ASC North, Ejipura, Bengaluru |
| 33    | ASCN-NMCS-RJ-285 | RJ           | 12° 56'17.56082" | 77° 38' 3.79788" | ASC North, Ejipura, Bengaluru |
| 34    | ASCN-NMCS-RJ-286 | RJ           | 12° 56'17.72138" | 77° 38' 3.85361" | ASC North, Ejipura, Bengaluru |
| 35    | ASCN-NMCS-RJ-287 | RJ           | 12° 56'17.79148" | 77° 38' 3.77894" | ASC North, Ejipura, Bengaluru |
| 36    | ASCN-NMCS-NP-288 | NP           | 12° 56'17.93537" | 77° 38' 3.72311" | ASC North, Ejipura, Bengaluru |
| 37    | ASCN-NMCS-NP-289 | NP           | 12° 56'18.18085" | 77° 38' 3.73038" | ASC North, Ejipura, Bengaluru |
| 38    | ASCN-NMCS-NP-290 | NP           | 12° 56'17.90322" | 77° 38' 3.92575" | ASC North, Ejipura, Bengaluru |
| 39    | ASCN-NMCS-RJ-291 | RJ           | 12° 56'17.91737" | 77° 38' 3.91448" | ASC North, Ejipura, Bengaluru |





|    |                  |    |                  |                  |                               |
|----|------------------|----|------------------|------------------|-------------------------------|
| 40 | ASCN-NMCS-RJ-292 | RJ | 12° 56'17.81221" | 77° 38' 3.96013" | ASC North, Ejipura, Bengaluru |
| 41 | ASCN-NMCS-RJ-293 | RJ | 12° 56'17.68636" | 77° 38' 3.96276" | ASC North, Ejipura, Bengaluru |
| 42 | ASCN-NMCS-NM-294 | NM | 12° 56'17.57346" | 77° 38' 3.99685" | ASC North, Ejipura, Bengaluru |
| 43 | ASCN-NMCS-RJ-295 | RJ | 12° 56'17.41826" | 77° 38' 4.05053" | ASC North, Ejipura, Bengaluru |
| 44 | ASCN-NMCS-RJ-296 | RJ | 12° 56'17.15694" | 77° 38' 4.10996" | ASC North, Ejipura, Bengaluru |
| 45 | ASCN-NMCS-NM-297 | NM | 12° 56'16.93849" | 77° 38' 4.14161" | ASC North, Ejipura, Bengaluru |
| 46 | ASCN-NMCS-HG-298 | HG | 12° 56'17.00783" | 77° 38' 4.94268" | ASC North, Ejipura, Bengaluru |
| 47 | ASCN-NMCS-HG-299 | HG | 12° 56'17.00869" | 77° 38' 4.95967" | ASC North, Ejipura, Bengaluru |
| 48 | ASCN-NMCS-HG-300 | HG | 12° 56'17.07896" | 77° 38' 4.97404" | ASC North, Ejipura, Bengaluru |
| 49 | ASCN-NMCS-NP-301 | NP | 12° 56'17.93368" | 77° 38' 2.86836" | ASC North, Ejipura, Bengaluru |
| 50 | ASCN-NMCS-NP-302 | NP | 12° 56'18.06976" | 77° 38' 3.43712" | ASC North, Ejipura, Bengaluru |
| 51 | ASCN-NMCS-NP-303 | NP | 12° 56'18.05795" | 77° 38' 4.43986" | ASC North, Ejipura, Bengaluru |
| 52 | ASCN-NMCS-RJ-304 | RJ | 12° 56'17.8841"  | 77° 38' 3.46783" | ASC North, Ejipura, Bengaluru |
| 53 | ASCN-NMCS-RJ-305 | RJ | 12° 56'17.74705" | 77° 38' 3.48205" | ASC North, Ejipura, Bengaluru |
| 54 | ASCN-NMCS-RJ-306 | RJ | 12° 56'17.62267" | 77° 38' 3.49544" | ASC North, Ejipura, Bengaluru |
| 55 | ASCN-NMCS-NM-307 | NM | 12° 56'17.4493"  | 77° 38' 3.50563" | ASC North, Ejipura, Bengaluru |
| 56 | ASCN-NMCS-RJ-308 | RJ | 12° 56'17.24748" | 77° 38' 3.54034" | ASC North, Ejipura, Bengaluru |
| 57 | ASCN-NMCS-NM-309 | NM | 12° 56'16.83352" | 77° 38' 3.6249"  | ASC North, Ejipura, Bengaluru |
| 58 | ASCN-NMCS-HG-310 | HG | 12° 56'16.49346" | 77° 38' 3.69071" | ASC North, Ejipura, Bengaluru |
| 59 | ASCN-NMCS-HG-311 | HG | 12° 56'16.38827" | 77° 38' 3.74276" | ASC North, Ejipura, Bengaluru |
| 60 | ASCN-NMCS-HG-312 | HG | 12° 56'16.44666" | 77° 38' 3.96766" | ASC North, Ejipura, Bengaluru |
| 61 | ASCN-NMCS-HG-313 | HG | 12° 56'16.47834" | 77° 38' 3.95257" | ASC North, Ejipura, Bengaluru |
| 62 | ASCN-NMCS-HG-314 | HG | 12° 56'16.62245" | 77° 38' 3.99908" | ASC North, Ejipura, Bengaluru |
| 63 | ASCN-NMCS-HG-315 | HG | 12° 56'16.62335" | 77° 38' 4.0002"  | ASC North, Ejipura, Bengaluru |
| 64 | ASCN-NMCS-NM-316 | NM | 12° 56'16.67191" | 77° 38' 3.92309" | ASC North, Ejipura, Bengaluru |
| 65 | ASCN-NMCS-NM-317 | NM | 12° 56'16.85227" | 77° 38' 3.87596" | ASC North, Ejipura, Bengaluru |
| 66 | ASCN-NMCS-RJ-318 | RJ | 12° 56'17.04653" | 77° 38' 3.7972"  | ASC North, Ejipura, Bengaluru |
| 67 | ASCN-NMCS-RJ-319 | RJ | 12° 56'17.26678" | 77° 38' 3.69186" | ASC North, Ejipura, Bengaluru |
| 68 | ASCN-NMCS-NM-320 | NM | 12° 56'17.39018" | 77° 38' 3.62767" | ASC North, Ejipura, Bengaluru |
| 69 | ASCN-NMCS-RJ-321 | RJ | 12° 56'17.50502" | 77° 38' 3.59513" | ASC North, Ejipura, Bengaluru |
| 70 | ASCN-NMCS-RJ-322 | RJ | 12° 56'17.59888" | 77° 38' 3.56878" | ASC North, Ejipura, Bengaluru |
| 71 | ASCN-NMCS-RJ-323 | RJ | 12° 56'17.82877" | 77° 38' 3.64272" | ASC North, Ejipura, Bengaluru |
| 72 | ASCN-NMCS-NP-324 | NP | 12° 56'18.0065"  | 77° 38' 3.5286"  | ASC North, Ejipura, Bengaluru |
| 73 | ASCN-NMCS-NP-325 | NP | 12° 56'18.16562" | 77° 38' 3.60773" | ASC North, Ejipura, Bengaluru |
| 74 | ASCN-NMCS-NP-326 | NP | 12° 56'18.2126"  | 77° 38' 4.00474" | ASC North, Ejipura, Bengaluru |
| 75 | ASCN-NMCS-NP-327 | NP | 12° 56'18.18827" | 77° 38' 3.98378" | ASC North, Ejipura, Bengaluru |
| 76 | ASCN-NMCS-RJ-328 | RJ | 12° 56'17.69561" | 77° 38' 4.06741" | ASC North, Ejipura, Bengaluru |
| 77 | ASCN-NMCS-NM-329 | NM | 12° 56'17.54074" | 77° 38' 4.14668" | ASC North, Ejipura, Bengaluru |
| 78 | ASCN-NMCS-RJ-330 | RJ | 12° 56'17.41067" | 77° 38' 4.20194" | ASC North, Ejipura, Bengaluru |
| 79 | ASCN-NMCS-RJ-331 | RJ | 12° 56'17.34785" | 77° 38' 4.2139"  | ASC North, Ejipura, Bengaluru |
| 80 | ASCN-NMCS-NM-332 | NM | 12° 56'17.18822" | 77° 38' 4.28395" | ASC North, Ejipura, Bengaluru |
| 81 | ASCN-NMCS-HG-333 | HG | 12° 56'16.75118" | 77° 38' 4.35574" | ASC North, Ejipura, Bengaluru |

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| 82  | ASCN-NMCS-HG-334 | HG | 12° 56'16.74395" | 77° 38' 4.10311" | ASC North, Ejipura, Bengaluru |
| 83  | ASCN-NMCS-HG-335 | HG | 12° 56'16.72807" | 77° 38' 4.38086" | ASC North, Ejipura, Bengaluru |
| 84  | ASCN-NMCS-HG-336 | HG | 12° 56'16.7383"  | 77° 38' 4.3328"  | ASC North, Ejipura, Bengaluru |
| 85  | ASCN-NMCS-HG-337 | HG | 12° 56'16.91167" | 77° 38' 4.57444" | ASC North, Ejipura, Bengaluru |
| 86  | ASCN-NMCS-HG-338 | HG | 12° 56'16.91232" | 77° 38' 4.59139" | ASC North, Ejipura, Bengaluru |
| 87  | ASCN-NMCS-HG-339 | HG | 12° 56'16.97874" | 77° 38' 4.67124" | ASC North, Ejipura, Bengaluru |
| 88  | ASCN-NMCS-HG-340 | HG | 12° 56'17.03947" | 77° 38' 4.61476" | ASC North, Ejipura, Bengaluru |
| 89  | ASCN-NMCS-NM-341 | NM | 12° 56'17.11586" | 77° 38' 4.64006" | ASC North, Ejipura, Bengaluru |
| 90  | ASCN-NMCS-NM-342 | NM | 12° 56'17.14409" | 77° 38' 4.57804" | ASC North, Ejipura, Bengaluru |
| 91  | ASCN-NMCS-RJ-343 | RJ | 12° 56'17.17541" | 77° 38' 4.5348"  | ASC North, Ejipura, Bengaluru |
| 92  | ASCN-NMCS-RJ-344 | RJ | 12° 56'17.18099" | 77° 38' 4.53804" | ASC North, Ejipura, Bengaluru |
| 93  | ASCN-NMCS-RJ-345 | RJ | 12° 56'17.3292"  | 77° 38' 4.5334"  | ASC North, Ejipura, Bengaluru |
| 94  | ASCN-NMCS-RJ-346 | RJ | 12° 56'17.34061" | 77° 38' 4.49372" | ASC North, Ejipura, Bengaluru |
| 95  | ASCN-NMCS-NM-347 | NM | 12° 56'17.47532" | 77° 38' 4.3715"  | ASC North, Ejipura, Bengaluru |
| 96  | ASCN-NMCS-NM-348 | NM | 12° 56'17.48612" | 77° 38' 4.38058" | ASC North, Ejipura, Bengaluru |
| 97  | ASCN-NMCS-RJ-349 | RJ | 12° 56'17.60773" | 77° 38' 4.29684" | ASC North, Ejipura, Bengaluru |
| 98  | ASCN-NMCS-NM-350 | NM | 12° 56'17.68693" | 77° 38' 4.36013" | ASC North, Ejipura, Bengaluru |
| 99  | ASCN-NMCS-NP-351 | NP | 12° 56'18.26723" | 77° 38' 4.28464" | ASC North, Ejipura, Bengaluru |
| 100 | ASCN-NMCS-NP-352 | NP | 12° 56'18.27244" | 77° 38' 4.26016" | ASC North, Ejipura, Bengaluru |
| 101 | ASCN-NMCS-NP-353 | NP | 12° 56'18.28255" | 77° 38' 4.22902" | ASC North, Ejipura, Bengaluru |
| 102 | ASCN-NMCS-NP-354 | NP | 12° 56'18.28198" | 77° 38' 4.21595" | ASC North, Ejipura, Bengaluru |
| 103 | ASCN-NMCS-NP-355 | NP | 12° 56'18.36503" | 77° 38' 4.4102"  | ASC North, Ejipura, Bengaluru |
| 104 | ASCN-NMCS-NP-356 | NP | 12° 56'18.41356" | 77° 38' 4.51144" | ASC North, Ejipura, Bengaluru |
| 105 | ASCN-NMCS-NP-357 | NP | 12° 56'18.39397" | 77° 38' 4.51"    | ASC North, Ejipura, Bengaluru |
| 106 | ASCN-NMCS-NP-358 | NP | 12° 56'18.39347" | 77° 38' 4.57944" | ASC North, Ejipura, Bengaluru |
| 107 | ASCN-NMCS-RJ-359 | RJ | 12° 56'18.14118" | 77° 38' 4.65857" | ASC North, Ejipura, Bengaluru |
| 108 | ASCN-NMCS-RJ-360 | RJ | 12° 56'18.62074" | 77° 38' 5.05882" | ASC North, Ejipura, Bengaluru |
| 109 | ASCN-NMCS-NP-361 | NP | 12° 56'18.61832" | 77° 38' 5.13132" | ASC North, Ejipura, Bengaluru |
| 110 | ASCN-NMCS-NP-362 | NP | 12° 56'18.64972" | 77° 38' 5.17729" | ASC North, Ejipura, Bengaluru |
| 111 | ASCN-NMCS-NP-363 | NP | 12° 56'18.53192" | 77° 38' 5.22542" | ASC North, Ejipura, Bengaluru |
| 112 | ASCN-NMCS-NP-364 | NP | 12° 56'18.47659" | 77° 38' 5.13218" | ASC North, Ejipura, Bengaluru |
| 113 | ASCN-NMCS-HG-365 | HG | 12° 56'18.21448" | 77° 38' 5.17697" | ASC North, Ejipura, Bengaluru |
| 114 | ASCN-NMCS-NP-366 | NP | 12° 56'18.0681"  | 77° 38' 5.18626" | ASC North, Ejipura, Bengaluru |
| 115 | ASCN-NMCS-NP-367 | NP | 12° 56'18.08682" | 77° 38' 5.24296" | ASC North, Ejipura, Bengaluru |
| 116 | ASCN-NMCS-HG-368 | HG | 12° 56'17.95204" | 77° 38' 5.33227" | ASC North, Ejipura, Bengaluru |
| 117 | ASCN-NMCS-NP-369 | NP | 12° 56'17.8291"  | 77° 38' 5.40146" | ASC North, Ejipura, Bengaluru |
| 118 | ASCN-NMCS-NP-370 | NP | 12° 56'17.7347"  | 77° 38' 5.34336" | ASC North, Ejipura, Bengaluru |
| 119 | ASCN-NMCS-HG-371 | HG | 12° 56'17.65385" | 77° 38' 5.37511" | ASC North, Ejipura, Bengaluru |
| 120 | ASCN-NMCS-HG-372 | HG | 12° 56'17.51741" | 77° 38' 5.40024" | ASC North, Ejipura, Bengaluru |
| 121 | ASCN-NMCS-HG-373 | HG | 12° 56'17.39454" | 77° 38' 5.19097" | ASC North, Ejipura, Bengaluru |
| 122 | ASCN-NMCS-HG-374 | HG | 12° 56'17.19938" | 77° 38' 5.22467" | ASC North, Ejipura, Bengaluru |
| 123 | ASCN-NMCS-HG-375 | HG | 12° 56'17.11889" | 77° 38' 5.16836" | ASC North, Ejipura, Bengaluru |