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ಕರ್ನಾಟಕ ಅರಣ್ಯ ಇಲಾಖೆ  
ಉಪ ಅರಣ್ಯ ಸಂರಕ್ಷಣಾಧಿಕಾರಿಯವರ ಕಛೇರಿ  
ಬೆಂಗಳೂರು ನಗರ ವಿಭಾಗ, ಅರಣ್ಯ ಭವನ ಸಂಕೀರ್ಣ, 18ನೇ ಅಡ್ಡರಸ್ತೆ, ಮಲ್ಲೇಶ್ವರಂ, ಬೆಂಗಳೂರು - 560 003

### Office of the Deputy Conservator of Forests

Bangalore Urban Division, AranyaBhavanCompus. 18<sup>th</sup> cross, Malleshwaram, Bangalore-560003

No: A9/Tree Cutting /BMRCL/CR-480/2020-21

Date: 26/08/2021.

### Official Memorandum

Sub: Permission for felling of trees infringing the Metro Rail Construction work at Vijinapura Sy No. 79 & Benniganahalli Village sy No.80 & 83 and Jyothipura Metro Station Entry Exit Structure Reach -1A.

Ref:1. Hon'ble High Court Order dated: 18.11.2020 in WP 17841/2018

2. Letter No: BMRCL/Dy.CE/R1A/Ph2/Trees/2021/4527 Dated 20.01.2021.
3. This Office Public Notice vide letter No: A9 /Tree Cutting /BMRCL/CR- 480/2020-21 Dated: 10-02-2021.
4. Letter No: RFO/KRPuram/tree cutting/CR-6/2020-21/Dtd. 16.03.2021 O/o of The Range Forest Officer, K.R.Puram Range, K.R.Puram
5. Members Secretary and ACF BBMP, Bengaluru Letter No.ACF/PR.43/2021-22 Dtd.25-08-2021 along with report and proceeding of Tree Expert Committee.

\*\_\*\_\*

#### **Preamble:-**

BMRCL submitted a fresh application dated 20.01.2021 read at ref (2) above seeking permission for removal of 42 trees infringing the Metro Rail Construction work at Vijinapura Sy No. 79 & Benniganahalli Village sy No.80 & 83 and Jyothipura Metro Station Entry Exit Structure Reach -1A, as per the directions issued by the Hon'ble High Court of Karnataka vide Order dated: 18.11.2020 in WP No. 17841/2018 read at ref (1) above.

The processing and consideration of the application was taken up as per provisions of the Karnataka Preservation of Trees Act, 1976 (hereinafter mentioned as "the Act") and the Memorandum of Procedure (hereinafter mentioned as "the MOP") formulated by the Tree Expert Committee

(hereinafter mentioned as "the TEC"). As stipulated under Section 8(3)(vii) of the Act, a public notice in Template No. 1 of the MOP was issued duly inviting the objections from the public, as the total number of trees proposed to be removed are more than 50, though the number at this location is 42 only. The public notice appeared Vijaya karnataka newspaper and The Hindu news paper on 11.02.2021. The details of the project area, Number of trees to be removed, GPS Co-ordinates and physical details of those trees were uploaded in the website of BBMP, as per the MOP.

In response to the public notice, no objections/suggestions were received from the general public. The proceedings of that consideration along with a tabular statement showing the objections from the public, and remarks and findings of the undersigned for each specific objection and comment were prepared on 20.03.2021, besides recording summary of the findings in Template No. 3 of the MOP.

As per BMRCL's application, there are 47 trees in the project area out of which 42 trees are sought to be removed. Detailed enumeration of each of those 47 trees in terms of location, physical parameters, health and defects, etc. was organized from the forest officers in Part-I of Template No. 2 of the MOP. Thereafter, the same was verified by the undersigned and a preliminary assessment in terms of possibility of onsite retention or translocation or felling along with justification was carried out through inspection of those 47 trees on 19.03.2021 and recorded in Part-II of Template No. 2.

The proceedings regarding consideration of the objections, tabular statement of the findings along with summary, detailed enumeration and preliminary assessment along with justification for each of the 42 trees, and information in Template No 2 and 3 were submitted vide letter dated 26.03.2021 for consideration by the TEC.

The TEC has submitted a detailed report dated 25.08.2021 giving their recommendations for onsite retention of 15 trees, translocation of 8 trees and felling of 24 trees with justification for each of them along with an abstract of the report in Template No. 4. It is noted from the report that the TEC carried out their activities in 4 stages, namely, (i) review of the application, objections received from the public and findings by the undersigned, (ii) review of preliminary assessment by the undersigned, (iii) their field inspection, and (iv) post inspection review and report preparation.

The TEC has concluded that out of total 47 trees proposed for removal by BMRCL, the project activities can be carried out without removal of following 15 trees.

| <b>Trees recommended by TEC for Onsite Retention</b> |   |
|--|---|
| Tree Numbers   | 8A & B, 9A & B, 10, 11, 12, 13,16, 18, 27, 31,42, 43, 44, 46, and 47A,B,C<br>Total = 15 nos |

The TEC concluded that the balance 32 trees need to be removed as they are falling within the following physical features of Metro Project.

| <b>Physical Features</b>     | <b>Tree Numbers</b>  |
|------------------------------|--|
| Metro station Entry and Exit | 01, 02,03,04,05,06,07<br><b>Total – 07 Nos.</b>  |
| Pile Cap BP-47               | 14 and 15<br><b>Total – 02 Nos.</b>  |
| Consruction of Bus Hub       | 17, 19,20,21,22,23,24,25,26,28,29,30,32,33<br>34, 35, 36,37, 38, 39, 40, 41 and 45<br><b>Total – 23 Nos.</b> |

The TEC has further concluded that 08 trees out of these 32 trees are healthy and suitable for translocation. The TEC has accordingly recommended translocation of those 08 trees to save them. Based on the inspection and soil test reports of the proposed receptor sites, the TEC has confirmed suitability of those sites for the translocation.

The TEC has also concluded that 24 trees out of these 32 trees are not suitable for the translocation as they have major defects or extraction of the root ball of adequate size is not practical. The TEC has accordingly recommended felling of those 24 trees.

The report of the TEC has been examined. The TEC has provided detailed specific justification for removal of each of the 47 trees, besides giving justification for translocation or felling of the trees in Part-III of Template 2 as well as in Appendix to its report. The undersigned concurs with the recommendations and justification of the TEC.

The final assessment of the undersigned has been recorded in Part-IV of Template No. 2. The translocation of 08 trees and felling of 24 trees are essential for implementation of the metro project, which seeks to build a sustainable public transport system. The adverse impact of the felling of trees

will have to be mitigated by directing BMRCL to take up compensatory plantation in adequate number.

Hence, the following order.

### **Order**

1. Permission is refused for removal of Fifteen(15) trees listed in **Appendix 1** appended to this Official Memorandum. They should be retained at site only.
2. Based on the consideration detailed above, permission is hereby granted for removal of Eight (8) trees by way of translocation as listed with justification in Template No. 5 appended to this Official Memorandum as **Appendix-2**.
3. Permission is hereby also granted for removal of Twenty Four(24) trees by way of felling as listed with justification in Template No. 6 appended to this Official Memorandum as **Appendix-3**.
4. This order will come into effect fifteen (15) days from the date of uploading of the order on the websites of BBMP and Karnataka Forest Department and serving by email on the petitioners in WP 17841/2018.
5. The order is subject to following directions to BMRCL.

#### **A. Translocation of trees:**

- i. The translocation should be carried out only at following location.

- 1) Along the boundary wall of the K.R.Puram Metro Station adjacent to Lowry School compound wall. K.R.Puram Bangalore-560048

The translocation should be organized by competent agencies, at the cost of BMRCL as mentioned in Template 5.

The translocation should follow the methodology suggested by UAS, GKVK.

#### **B. Compensatory Plantation:**

- i. The BMRCL to arrange compensatory Afforestation of 320 tall and healthy saplings, i.e., @ 10 saplings for each tree removed within Six(6) months from the date of the removal.
- ii. BMRCL to submit a plan for the compensatory plantation within Two(2) months from the date of this order.

**C. 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 Three(3) years.
- ii. BMRCL should also submit reports regarding condition of the translocated trees and the compensatory plantation every quarter for a period of Three(3) years to the undersigned and follow the appropriate recommendation of the Tree officer.

**D. Storage & disposal of felled trees:**

- i. The extracted wood from 24 trees to be felled should be deposited at Jarakbande Kaval Tenkey Depot with the Bangalore Range Forest Officer, through the Range Forest Officer, K.R.Puram for disposal.

**Sd/-**

**Tree Officer &  
Deputy Conservator of Forests  
Bengaluru Urban Division.**

**Copy to:**

1. Chairman, Tree Authority and Chief Conservator of Forests(Territorial),Bangalore for kind information.
2. Managing Director, BMRCL, 3rd Floor, BMTC Complex, Shanthinagara, Bengaluru - 560027.
3. General Manager, Social and Environment Management Unit, BMRCL, 5<sup>th</sup> Floor, BMTC Complex, Shanthinagara, Bengaluru - 560027.
4. Sri Dattatraya T Devare, A-102 Natasha Golf View Apartments, Domlur Bengaluru- 560071, Petitioner in WP 17841/2018.
5. Bangalore Environment Trust, 10, Sirur Park B Street Seshadripuram Bengaluru – 560020, Petitioner in WP 17841/2018.
6. Deputy Chief Engineer , Engineer/R1A/BMRCL, 3rd Floor, BMTC Complex, Shanthinagara, Bengaluru - 560027
7. Assistant Conservator of Forests, BBMP & Member Secretary, Tree Expert Committee appointed by Hon'ble High Court in WP 17841/2018.

8. Assistant Conservator of Forests, South Sub Division, Bangalore for kind information and necessary action.
9. Range Forest Officer, K.R.Puram Range, K.R.Puram for kind information and necessary action.
10. Office Copy.



**Tree Officer &  
Deputy Conservator of Forests,  
Bengaluru Urban Division.**

**Tree Officer and  
Deputy Conservator of Forests  
Bangalore Urban Division.  
BANGALORE**

## Appendix-1

## List Of Trees Recommended for On-site Retention

| Sl. No | Tree No. | Tree Name | GBH (m) | Total Height (m) | GPS Location       |                  | Crown spread (m) | TEC Recommendation | Tree Officer Recommendation | Justifications  |
|--------|----------|-----------|---------|------------------|--------------------|------------------|------------------|--------------------|-----------------------------|---|
|        |          |           |         |                  | Latitude (N)       | Longitude (E)    |                  |                    |                             |   |
| 01     | 8A       | Ashoka    | 0.89    | 4.00             | 12° 59' 50.0568" N | 77° 40' 8.231" E | 3                | Retention          | Retention                   | THE TREE IS PRESENT OUTSIDE THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CAN BE RETAINED   |
|        | 8B       | Ashoka    | 0.75    | 4.00             | 12° 59' 50.0568" N | 77° 40' 8.231" E | 3                | Retention          | Retention                   | THE TREE IS PRESENT OUTSIDE THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CAN BE RETAINED   |
|        | 9A       | Ashoka    | 0.61    | 4.00             | 12° 59' 50.0568" N | 77° 40' 8.274" E | 2                | Retention          | Retention                   | THE TREE IS PRESENT OUTSIDE THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE, THE TREE CAN BE RETAINED. |
| 02     | 9B       | Ashoka    | 0.49    | 4.00             | 12° 59' 50.0568" N | 77° 40' 8.274" E | 1                | Retention          | Retention                   | THE TREE IS PRESENT OUTSIDE THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CAN BE RETAINED.  |
| 03     | 10       | Neem Tree | 0.40    | 2.50             | 12° 59' 50.0604" N | 77° 40' 8.303" E | 0.5              | Retention          | Retention                   | THE TREE IS PRESENT OUTSIDE THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CAN BE RETAINED.  |

|    |    |             |      |      |                    |                    |   |           |           |   |
|----|----|-------------|------|------|--------------------|--------------------|---|-----------|-----------|---|
| 04 | 11 | Ashoka      | 1.01 | 6.00 | 12° 59' 50.064" N  | 77° 40' 8.339" E   | 2 | Retention | Retention | THE TREE IS PRESENT OUTSIDE THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CAN BE RETAINED.  |
| 05 | 12 | Ashoka      | 0.64 | 8.00 | 12° 59' 49.3236" N | 77° 40' 8.2554" E  | 1 | Retention | Retention | THE TREE IS PRESENT ABUTTING (INSIDE) THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; HOWEVER THE POSITION OF THE TREE DO NOT HINDER THE CONSTRUCTION ACTIVITIES, THEREFORE THE TREE CAN BE RETAINED.  |
| 06 | 13 | Phycus Alba | 0.94 | 8.00 | 12° 59' 49.2805" N | 77° 40' 8.1606" E  | 6 | Retention | Retention | THE TREE IS PRESENT ABUTTING (INSIDE) THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; HOWEVER THE POSITION OF THE TREE DO NOT HINDER THE CONSTRUCTION ACTIVITIES, THEREFORE THE TREE CAN BE RETAINED.  |
| 07 | 16 | Banni Tree  | 0.92 | 6.00 | 12° 59' 48.9553" N | 77° 40' 6.7685" E  | 5 | Retention | Retention | THE TREE IS PRESENT ABUTTING (INSIDE) THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; HOWEVER THE POSITION OF THE TREE DO NOT HINDER THE CONSTRUCTION ACTIVITIES, THEREFORE THE TREE CAN BE RETAINED.  |
| 08 | 18 | Rain Tree   | 1.33 | 8.00 | 12° 59' 44.5393" N | 77° 39' 54.9946" E | 8 | Retention | Retention | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; HOWEVER THE POSITION OF THE TREE IS VERY CLOSE TO EXISTING FLYOVER WHICH WILL NOT BE DISTURBED DURING ANY OF THE PROPOSED CONSTRUCTION ACTIVITIES AND HENCE THERE IS NO PROBABILITY OF CONSTRUCTION ACTIVITIES TO INTERFERE THE TREE PROTECTION ZONE, THEREFORE THE TREE IS RECOMMENDED FOR RETENTION. |



|    |    |               |      |      |                          |                       |     |           |           |   |
|----|----|---------------|------|------|--------------------------|-----------------------|-----|-----------|-----------|---|
| 08 | 18 | Rain Tree     | 1.33 | 8.00 | 12° 59'<br>44.5393"<br>N | 77° 39'<br>54.9946" E | 8   | Retention | Retention | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; HOWEVER THE POSITION OF THE TREE IS VERY CLOSE TO EXISTING FLYOVER WHICH WILL NOT BE DISTURBED DURING ANY OF THE PROPOSED CONSTRUCTION ACTIVITIES AND HENCE THERE IS NO PROBABILITY OF CONSTRUCTION ACTIVITIES TO INTERFERE THE TREE PROTECTION ZONE, THEREFORE THE TREE IS RECOMMENDED FOR RETENTION. |
| 09 | 27 | Rain Tree     | 1.15 | 7.00 | 12° 59'<br>43.4203"<br>N | 77° 39'<br>53.2159" E | 8   | Retention | Retention | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; HOWEVER THE POSITION OF THE TREE IS VERY CLOSE TO EXISTING FLYOVER WHICH WILL NOT BE DISTURBED DURING ANY OF THE PROPOSED CONSTRUCTION ACTIVITIES AND HENCE THERE IS NO PROBABILITY OF CONSTRUCTION ACTIVITIES TO INTERFERE THE TREE PROTECTION ZONE, THEREFORE THE TREE IS RECOMMENDED FOR RETENTION. |
| 10 | 31 | Hole dasavala | 0.58 | 3.50 | 12° 59'<br>42.9240"<br>N | 77° 39'<br>53.2454" E | 3   | Retention | Retention | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; HOWEVER THE POSITION OF THE TREE DOES NOT HINDER ANY OF THE CONSTRUCTION ACTIVITIES, THEREFORE THE TREE CAN BE RETAINED.   |
| 11 | 42 | Tecoma        | 0.61 | 3.00 | 12° 59'<br>42.8207"<br>N | 77° 39'<br>53.1956" E | 2.5 | Retention | Retention | THE TREE IS RECOMMENDED FOR RETENTION.<br>THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; HOWEVER THE POSITION OF THE TREE DOES NOT HINDER ANY OF THE CONSTRUCTION ACTIVITIES, THEREFORE THE TREE CAN BE RETAINED.   |

|    |     |             |      |       |                          |                       |     |           |           |   |
|----|-----|-------------|------|-------|--------------------------|-----------------------|-----|-----------|-----------|---|
| 12 | 43  | Rain Tree   | 1.91 | 9.00  | 12° 59'<br>42.8039"<br>N | 77° 39'<br>53.0053" E | 12  | Retention | Retention | THE TREE IS PRESENT WITHIN THE PROJECT AREA<br>PROPOSED FOR CONSTRUCTION OF BUS HUB AREA;<br>HOWEVER THE POSITION OF THE TREE DOES NOT<br>HINDER ANY OF THE CONSTRUCTION ACTIVITIES,<br>THEREFORE THE TREE CAN BE RETAINED. |
| 13 | 44  | Tecoma      | 0.56 | 4.50  | 12° 59'<br>42.6691"<br>N | 77° 39'<br>52.9696" E | 2   | Retention | Retention | THE TREE IS RECOMMENDED FOR RETENTION.  |
| 14 | 46  | Banyan Tree | 5.30 | 8.00  | 12° 59'<br>42.2243"<br>N | 77° 39'<br>53.1055" E | 15  | Retention | Retention | THE TREE IS PRESENT WITHIN THE PROJECT AREA<br>PROPOSED FOR CONSTRUCTION OF BUS HUB AREA;<br>HOWEVER THE POSITION OF THE TREE DOES NOT<br>HINDER ANY OF THE CONSTRUCTION ACTIVITIES,<br>THEREFORE THE TREE CAN BE RETAINED. |
| 15 | 47A | Peepal Tree | 0.62 | 11.00 | 12° 59'<br>42.7502"<br>N | 77° 39'<br>54.6129" E | 4.0 | Retention | Retention | THE TREE IS RECOMMENDED FOR RETENTION.  |
|    | 47B | Peepal Tree | 0.71 | 11.00 | 12° 59'<br>42.7502"<br>N | 77° 39'<br>54.6129" E | 5   | Retention | Retention | THE TREE IS PRESENT WITHIN THE PROJECT AREA<br>PROPOSED FOR CONSTRUCTION OF BUS HUB AREA;<br>HOWEVER THE POSITION OF THE TREE DOES NOT<br>HINDER ANY OF THE CONSTRUCTION ACTIVITIES,<br>THEREFORE THE TREE CAN BE RETAINED. |
|    | 47C | Peepal Tree | 0.41 | 11.00 | 12° 59'<br>42.7502"<br>N | 77° 39'<br>54.6129" E | 5   | Retention | Retention | THE TREE IS RECOMMENDED FOR RETENTION.  |

Summary:

|  |    |
|--|----|
| Total Number of Enumerated Trees                                 | 47 |
| Total Number of Trees assessed as suitable for on site retention | 15 |



Tree Officer &  
Deputy Conservator of Forests,  
Bengaluru Urban Division, Bengaluru

Tree Officer and  
Deputy Conservator of Forests  
Bangalore Urban Division,  
BANGALORE.



**PARTICULARS ON TRANSPLANTATION / TRANSLOCATION OF TREE(S)\***

*(to be prepared in compliance to Step 10 of the Memorandum of Procedure of TEC)*

|   |  |                   |  |     |                   |                   |     |                   |                   |                    |                   |                  |  |                   |                  |
|---|--|-------------------|--|-----|-------------------|-------------------|-----|-------------------|-------------------|--------------------|-------------------|------------------|--|-------------------|------------------|
| <b>Name of the user agency</b>  | Bangalore Metro Rail Corporation Limited   |                   |  |     |                   |                   |     |                   |                   |                    |                   |                  |  |                   |                  |
| <b>Purpose of the project</b>   | Construction of Metro rail Project Phase II  |                   |  |     |                   |                   |     |                   |                   |                    |                   |                  |  |                   |                  |
| <b>Extent of the project area</b>   | 2140.05 Sqm  |                   |  |     |                   |                   |     |                   |                   |                    |                   |                  |  |                   |                  |
| <b>Location of the project area</b>   | <p>Jyothipuram Metro Station, Vijinapura, K R Puram, Bengaluru</p> <table border="1"> <tr> <td>Bus</td><td>12 ° 59' 42.2052"</td><td>77° 39' 50.692" E</td></tr> <tr> <td>Bay</td><td>12 ° 59' 44.6172"</td><td>77° 39' 52.787" E</td></tr> <tr> <td>Station Entry/Exit</td><td>12 ° 59' 48.7176"</td><td>77° 40' 6.694" E</td></tr> <tr> <td></td><td>12 ° 59' 48.8112"</td><td>77° 40' 7.133" E</td></tr> </table> |                   |  | Bus | 12 ° 59' 42.2052" | 77° 39' 50.692" E | Bay | 12 ° 59' 44.6172" | 77° 39' 52.787" E | Station Entry/Exit | 12 ° 59' 48.7176" | 77° 40' 6.694" E |  | 12 ° 59' 48.8112" | 77° 40' 7.133" E |
| Bus   | 12 ° 59' 42.2052"  | 77° 39' 50.692" E |  |     |                   |                   |     |                   |                   |                    |                   |                  |  |                   |                  |
| Bay   | 12 ° 59' 44.6172"  | 77° 39' 52.787" E |  |     |                   |                   |     |                   |                   |                    |                   |                  |  |                   |                  |
| Station Entry/Exit  | 12 ° 59' 48.7176"  | 77° 40' 6.694" E  |  |     |                   |                   |     |                   |                   |                    |                   |                  |  |                   |                  |
|   | 12 ° 59' 48.8112"  | 77° 40' 7.133" E  |  |     |                   |                   |     |                   |                   |                    |                   |                  |  |                   |                  |
| <b>Number of tree(s) enumerated in the project area</b>   | 47 Trees   |                   |  |     |                   |                   |     |                   |                   |                    |                   |                  |  |                   |                  |
| <b>Number of tree(s) recommended for transplantation / translocation</b>  | 08 Trees   |                   |  |     |                   |                   |     |                   |                   |                    |                   |                  |  |                   |                  |
| <b>Feasibility of the tree for transplantation / translocation</b><br><i>(as per Template No. 2 - Tree Assessment Form)</i> | All the trees are feasible for translocation.  |                   |  |     |                   |                   |     |                   |                   |                    |                   |                  |  |                   |                  |
| <b>Name of the agency identified to execute transplantation / translocation</b>   | TMRH Plantations   |                   |  |     |                   |                   |     |                   |                   |                    |                   |                  |  |                   |                  |
| <b>Transplantation / Translocation methodology</b>  | Tree Bur Lapping Method  |                   |  |     |                   |                   |     |                   |                   |                    |                   |                  |  |                   |                  |
| <b>Location of receptor site</b>  | <p>Along the boundary wall of KR Puram Metro Station, Adjacent to Lowry School Compound, K R Puram – 560048</p> <p>Extent: 640 Sqm</p> <p>A. 12° 59' 59.7228" N/77° 40' 43.565" E</p> <p>B. 12° 59' 59.8344" N/77° 40' 46.049" E</p>   |                   |  |     |                   |                   |     |                   |                   |                    |                   |                  |  |                   |                  |

|  |  |
|--|--|
|  | C. 12° 59' 59.5752" N/77° 40' 46.063" E<br>D. 12° 59' 59.4636" N/77° 40' 43.579" E                                 |
| <b>Compatibility of receptor site</b>  | Soil Investigation for the receptor site carried out and found suitable translocation                              |
| <b>Number of trees to be transplanted / translocated to the selected receptor site</b> | Along the boundary wall of KR Puram Metro Station, Adjacent to Lowry School Compound, K R Puram – 560048. 08 trees |
| <b>Spacing between transplanted / translocated trees</b>                               | 8-10 mtrs  |
| <b>Post care management</b>  | Proper manure and watering for survival of translocated trees  |

\* Note:

1. List of the trees to be translocated containing details of kind / species, girth, height, GPS coordinates should be appended to this template. These details should be extracted from relevant parts of Template 2.
2. *The Project Authorities / User agency should strictly adopt the Transplantation / Translocation guidelines prescribed by UAS (B), GKVK, enclosed as Annexure 1 to the MOP.*



**Tree Officer**  
**Tree Officer and**  
**Deputy Conservator of Forests**  
 Bangalore Urban Division,  
 BANGALORE.

## Appendix-2

List of Trees Recommended for Translocation

| Sl.No | Tree No. | Tree Name | GBH (m) | Total Height (m) | GPS Location       |                    | Crown spread (m) | TEC Recommendation | Tree Officer Recommendation | Justifications  |
|-------|----------|-----------|---------|------------------|--------------------|--------------------|------------------|--------------------|-----------------------------|---|
|       |          |           |         |                  | Latitude (N)       | Longitude (E)      |                  |                    |                             |   |
| 01    | 14       | Neem Tree | 0.51    | 4.00             | 12° 59' 49.3215" N | 77° 40' 7.3352" E  | 2.5              | Translocation      | Translocation               | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE FIELD / HEALTH CONDITION OF THE TREE QUALIFIES FOR TRANSPLANTATION; HOWEVER SINCE THE ROOT BALL IS DAMAGED CARE IS NEEDED WHILE PREPARING THE TREE FOR TRANSPLANTATION. |
| 02    | 19       | Palm Tree | 1.75    | 3.50             | 12° 59' 43.7930" N | 77° 39' 55.8177" E | 2                | Translocation      | Translocation               | THE TREE IS RECOMMENDED FOR TRANSPLANTATION.<br>THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE FIELD / HEALTH CONDITION OF THE TREE QUALIFIES THE TREE FOR TRANSPLANTATION.   |

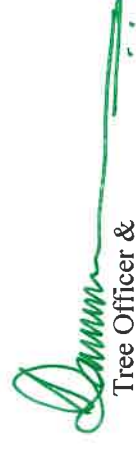
|    |     |                    |      |      |                    |                    |     |               |               |  |
|----|-----|--------------------|------|------|--------------------|--------------------|-----|---------------|---------------|--|
| 03 | 20  | Hatthi Tree        | 0.90 | 5.00 | 12° 59' 43.7427" N | 77° 39' 55.9830" E | 4   | Translocation | Translocation | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>MAJOR PORTION OF LIMBS OF THE TREE HAD BEEN PRUNED, HOWEVER IN CONSIDERATION TO THE IMPORTANCE OF THE SPECIES THE TREE IS RECOMMENDED FOR TRANSPLANTATION AFTER REMOVAL OF DEAD AND DRIED BRANCHES WITH PROPER CARE.        |
| 04 | 24  | Hole dasavala Tree | 0.60 | 2.50 | 12° 59' 43.8321" N | 77° 39' 54.0831" E | 2.5 | Translocation | Translocation | THE TREE IS RECOMMENDED FOR TRANSPLANTATION.<br>THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS RECOMMENDED FOR TRANSPLANTATION, HOWEVER AS THERE IS PARTIAL EXPOSURE OF ROOT BALL ZONE STRICT CARE IS ESSENTIAL WHILE PROCESSING THE TREE FOR TRANSPLANTATION. |
| 05 | 26  | Peepal Tree        | 1.30 | 8.00 | 12° 59' 43.5742" N | 77° 39' 53.6133" E | 3   | Translocation | Translocation | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>MAJOR PORTION OF LIMBS OF THE TREE HAD BEEN PRUNED, HOWEVER IN CONSIDERATION TO THE IMPORTANCE OF THE SPECIES THE TREE IS RECOMMENDED FOR TRANSPLANTATION AFTER REMOVAL OF DEAD AND DRIED BRANCHES WITH PROPER CARE.        |
| 06 | 34A | Honge Tree         | 0.70 | 4.00 | 12° 59' 43.1108" N | 77° 39' 53.9067" E | 3   | Translocation | Translocation | THE TREE IS RECOMMENDED FOR TRANSPLANTATION.<br>THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.  |



|  |               |      |      |                    |                    |   |               |               |   |
|--|---------------|------|------|--------------------|--------------------|---|---------------|---------------|---|
| 34B  | Honge Tree    | 0.80 | 5.00 | 12° 59' 43.1108" N | 77° 39' 53.9067" E | 3 | Translocation | Translocation | THE TREE IS FIT FOR TRANSPLANTATION; HOWEVER APPROPRIATE CARE IS ESSENTIAL WHILE PROCESSING THE TREE FOR TRANSPLANTATION AS THE TREE IS FORKED.   |
| 07   | Teakwood Tree | 0.55 | 5.00 | 12° 59' 42.9842" N | 77° 39' 53.7407" E | 2 | Translocation | Translocation | THE TREE IS RECOMMENDED FOR TRANSPLANTATION.<br>THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br>THE FIELD CONDITION OF THE TREE QUALIFIES THE TREE FOR TRANSPLANTATION.          |
| 08   | Mango Tree    | 0.45 | 3.00 | 12° 59' 42.5023" N | 77° 39' 53.4384" E | 2 | Translocation | Translocation | THE TREE IS RECOMMENDED FOR TRANSPLANTATION.<br>THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br>THE FIELD / HEALTH CONDITION OF THE TREE QUALIFIES THE TREE FOR TRANSPLANTATION. |
| THE TREE IS RECOMMENDED FOR TRANSPLANTATION. |               |      |      |                    |                    |   |               |               |   |

**Summary:**

|  |    |
|--|----|
| Total Number of Enumerated Trees                             | 47 |
| Total Number of Trees assessed as suitable for Translocation | 08 |



Tree Officer &  
Deputy Conservator of Forests,  
Bengaluru Urban Division, Bengaluru

Tree Officer and  
Deputy Conservator of Forests  
Bengaluru Urban Division,  
BANGALORE.

Application No: BMRCL/DyCE/R1A/ph2/Trees/2021/4527

Location: Jyothipuram Metro Station, Vijinapura

**TEMPLATE No. 6****PARTICULARS ON TREES TO BE FELLED\***

*(to be prepared in compliance to Step 9 of the Memorandum of Procedure of TEC)*

|   |   |                      |                   |
|---|---|----------------------|-------------------|
| <b>Name of the user agency</b>                          | Bangalore Metro Rail Corporation Limited                    |                      |                   |
| <b>Purpose of the project</b>                           | Construction of Metro Rail Project Phase II                 |                      |                   |
| <b>Extent of the project area</b>                       | 2140.05 Sqm   |                      |                   |
| <b>Location of the project area</b>                     | Jyothipuram Metro Station, Vijinapura, K R Puram, Bengaluru |                      |                   |
|   | Bus Bay   | 12 ° 59'<br>42.2052" | 77° 39' 50.692" E |
|   |   | 12 ° 59'<br>44.6172" | 77° 39' 52.787" E |
|   | Station Entry/Exit  | 12 ° 59'<br>48.7176" | 77° 40' 6.694" E  |
|   |   | 12 ° 59'<br>48.8112" | 77° 40' 7.133" E  |
| <b>Number of tree(s) enumerated in the project area</b> | 47 Trees  |                      |                   |
| <b>Number of tree(s) recommended for felling</b>        | 24 Trees  |                      |                   |

\* Note:

List of the trees to be felled containing details of kind / species, girth, height, GPS coordinates should be appended to this template. These details should be extracted from relevant parts of Template 2.

Date:



Tree Officer

Tree Officer and  
Deputy Conservator of Forest  
Bangalore Urban Division,  
BANGALORE.



## Appendix-3

## List of Trees Recommended for felling

| Sl.No | Tree No. | Tree Name | GBH (m) | Total Height (m) | GPS Location       |                   | Crown spread (m) | TEC Recommendation | Tree Officer Recommendation | Justifications  |
|-------|----------|-----------|---------|------------------|--------------------|-------------------|------------------|--------------------|-----------------------------|---|
|       |          |           |         |                  | Latitude (N)       | Longitude (E)     |                  |                    |                             |   |
| 01    | 01       | Rain Tree | 2.43    | 9.00             | 12° 59' 50.2107" N | 77° 40' 6.9533" E | 14               | Felling            | Felling                     | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS MATURED AND MULTIFORKED AT 1M FROM THE BASE AND THE FORKED REGIONS ARE FOUND WITH INCLUDED BARKS THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br><br>THE TREE IS RECOMMENDED FOR FELLING. |
| 02    | 02       | Rain Tree | 1.05    | 9.00             | 12° 59' 50.2185" N | 77° 40' 7.0976" E | 6                | Felling            | Felling                     | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS MATURED AND SLANTING WITH BASE CLOSE TO TREE NO. 3, THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br><br>THE TREE IS RECOMMENDED FOR FELLING.  |

|    |    |           |      |       |                          |                         |    |         |         |  |
|----|----|-----------|------|-------|--------------------------|-------------------------|----|---------|---------|--|
| 03 | 03 | Rain Tree | 1.29 | 9.00  | 12° 59'<br>50.1497"<br>N | 77° 40'<br>7.1132"<br>E | 9  | Felling | Felling | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CANNOT BE RETAINED. |
| 04 | 04 | Rain Tree | 1.61 | 9.00  | 12° 59'<br>50.1522"<br>N | 77° 40'<br>7.2880"<br>E | 13 | Felling | Felling | THE TREE IS MATURED AND SLANTING WITH BASE CLOSE TO TREE NO. 2, THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.   |
| 05 | 5A | Rain Tree | 1.17 | 10.00 | 12° 59'<br>50.2752"<br>N | 77° 40'<br>7.2851"<br>E | 6  | Felling | Felling | THE TREE IS MATURED AND SLANTING WITH BASE CLOSE TO TREE NO. 2, THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.   |

|    |    |           |      |       |                          |                         |    |         |         |   |
|----|----|-----------|------|-------|--------------------------|-------------------------|----|---------|---------|---|
|    | 5B | Rain Tree | 1.39 | 10.00 | 12° 59'<br>50.2752"<br>N | 77° 40'<br>7.2851"<br>E | 5  | Felling | Felling | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CANNOT BE RETAINED.  |
| 06 | 06 | Rain Tree | 1.19 | 9.00  | 12° 59'<br>50.2780"<br>N | 77° 40'<br>7.4965"<br>E | 7  | Felling | Felling | THE TREE IS MATURED, MULTIFORKED AND SLANTING; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br><br>THE TREE IS RECOMMENDED FOR FELLING.<br>THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS MATURED AND SLANTING; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION. |
| 07 | 07 | Rain Tree | 1.30 | 10.00 | 12° 59'<br>50.2187"<br>N | 77° 40'<br>7.6892"<br>E | 10 | Felling | Felling | THE TREE IS RECOMMENDED FOR FELLING.<br>THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS MATURED, BENDING; PRESENCE OF VERTICAL CAVITY AND DECAY / OZZING OF SAP, THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br><br>THE TREE IS RECOMMENDED FOR FELLING.             |

|    |     |             |      |       |                    |                    |   |         |         |  |
|----|-----|-------------|------|-------|--------------------|--------------------|---|---------|---------|--|
| 08 | 15A | Peepal Tree | 1.90 | 10.00 | 12° 59' 49.3039" N | 77° 40' 7.2792" E  | 5 | Felling | Felling | <p>THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CANNOT BE RETAINED.</p> <p>THE TREE IS MATURED, MULTIFORKED WITH INCLUDED BARKS AND TREE PROTECTION ZONE COMPROMISED; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.</p> <p>THE TREE IS RECOMMENDED FOR FELLING.</p> |
|    | 15B | Peepal Tree | 2.00 | 10.00 | 12° 59' 49.3039" N | 77° 40' 7.2792" E  | 5 | Felling | Felling |  |
|    | 15C | Peepal Tree | 1.80 | 10.00 | 12° 59' 49.3039" N | 77° 40' 7.2792" E  | 1 | Felling | Felling |  |
|    | 15D | Peepal Tree | 1.70 | 10.00 | 12° 59' 49.3039" N | 77° 40' 7.2792" E  | 3 | Felling | Felling |  |
|    | 15E | Peepal Tree | 1.60 | 10.00 | 12° 59' 49.3039" N | 77° 40' 7.2792" E  | 6 | Felling | Felling |  |
|    | 15F | Peepal Tree | 1.50 | 10.00 | 12° 59' 49.3039" N | 77° 40' 7.2792" E  | 3 | Felling | Felling |  |
| 09 | 17  | Palm Tree   | 0.62 | 7.00  | 12° 59' 44.2481" N | 77° 39' 55.7612" E | 2 | Felling | Felling | <p>THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.</p> <p>THE TREE IS BROKEN AND IN THE VERGE OF DYING AND THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.</p> <p>THE TREE IS RECOMMENDED FOR FELLING.</p>  |



|    |     |        |      |      |                       |                       |   |         |         |  |
|----|-----|--------|------|------|-----------------------|-----------------------|---|---------|---------|--|
| 10 | 21  | Tecoma | 0.85 | 5.00 | 12° 59'<br>43.6985" N | 77° 39'<br>56.9710" E | 5 | Felling | Felling | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA (ENTRY TO BUS HUB); THEREFORE THE TREE CANNOT BE RETAINED. |
| 11 | 22  | Tecoma | 0.67 | 4.00 | 12° 59'<br>43.7346" N | 77° 39'<br>57.0875" E | 4 | Felling | Felling | THE TREE IS MATURED WITH COMPROMISED TREE PROTECTION ZONE; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.                                  |
| 12 | 23A | Tecoma | 0.69 | 3.50 | 12° 59'<br>43.8075" N | 77° 39'<br>57.2672" E | 3 | Felling | Felling | THE TREE IS MATURED WITH COMPROMISED TREE PROTECTION ZONE AND SLANTING; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.                     |
|    | 23B | Tecoma | 0.58 | 3.50 | 12° 59'<br>43.8075" N | 77° 39'<br>57.2672" E | 3 | Felling | Felling | THE TREE IS MATURED WITH COMPROMISED TREE PROTECTION ZONE AND SLANTING; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.                     |
|    |     |        |      |      |                       |                       |   |         |         | THE TREE IS RECOMMENDED FOR FELLING.   |

|    |    |           |      |      |                          |                          |     |         |         |   |
|----|----|-----------|------|------|--------------------------|--------------------------|-----|---------|---------|---|
| 13 | 25 | Karijaali | 1.02 | 5.00 | 12° 59'<br>43.6698"<br>N | 77° 39'<br>53.8272"<br>E | 5   | Felling | Felling | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS MATURED AND BENT; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br><br>THE TREE IS RECOMMENDED FOR FELLING.   |
| 14 | 28 | Tecoma    | 0.81 | 7.00 | 12° 59'<br>43.1311"<br>N | 77° 39'<br>53.5707"<br>E | 2   | Felling | Felling | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS MATURED WITH MAJOR PORTION OF THE ROOT BALL ZONE EXPOSED; THEREFORE THE TREE DOES NOT QUALIFY FOR TRANSPLANTATION.<br><br>THE TREE IS RECOMMENDED FOR FELLING. |
| 15 | 29 | Teecoma   | 0.48 | 5.00 | 12° 59'<br>43.0592"<br>N | 77° 39'<br>53.4709"<br>E | 1.5 | Felling | Felling | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS MATURED AND SLANTING; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br><br>THE TREE IS RECOMMENDED FOR FELLING.   |
| 16 | 30 | Tecoma    | 0.60 | 3.50 | 12° 59'<br>42.9988"<br>N | 77° 39'<br>53.3881"<br>E | 2   | Felling | Felling | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS MATURED WITH COMPROMISED TREE PROTECTION ZONE AND SLANTING; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br><br>THE TREE IS RECOMMENDED FOR FELLING.   |

|    |     |            |      |      |                          |                          |     |         |         |   |
|----|-----|------------|------|------|--------------------------|--------------------------|-----|---------|---------|---|
| 17 | 32  | Tecoma     | 0.58 | 3.50 | 12° 59'<br>43.2903"<br>N | 77° 39'<br>53.7647"<br>E | 2.5 | Felling | Felling | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS DAMAGED SEVERELY AND BROKEN; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br><br>THE TREE IS RECOMMENDED FOR FELLING.                          |
| 18 | 33  | Tecoma     | 0.74 | 5.00 | 12° 59'<br>43.3778"<br>N | 77° 39'<br>53.8432"<br>E | 1.5 | Felling | Felling | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS MATURED AND FORKED WITH INCLUDED BARKS (WEAK UNIONS); THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br><br>THE TREE IS RECOMMENDED FOR FELLING. |
| 19 | 35A | Honge Tree | 0.78 | 5.00 | 12° 59'<br>43.0226"<br>N | 77° 39'<br>53.8161"<br>E | 4   | Felling | Felling | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS MATURED WITH EXTENSIVE EXTERNAL DECAY ALONG THE TRUNK; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.  |
|    | 35B | Honge Tree | 0.48 | 5.00 | 12° 59'<br>43.0226"<br>N | 77° 39'<br>53.8161"<br>E | 2   | Felling | Felling | THE TREE IS RECOMMENDED FOR FELLING.  |

|    |    |                  |      |      |                    |                    |   |         |         |   |
|----|----|------------------|------|------|--------------------|--------------------|---|---------|---------|---|
| 20 | 37 | Nerale Tree      | 0.68 | 6.00 | 12° 59' 42.6949" N | 77° 39' 53.5911" E | 4 | Felling | Felling | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED. |
| 21 | 38 | Ashoka           | 0.96 | 8.00 | 12° 59' 42.7460" N | 77° 39' 53.5600" E | 4 | Felling | Felling | THE TREE IS BENT WITH DECAY SYMPTOMS AT BASE; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.                            |
| 22 | 39 | Bilwapathre Tree | 0.79 | 5.00 | 12° 59' 42.4137" N | 77° 39' 53.6819" E | 4 | Felling | Felling | THE TREE IS MATURED AND DOES NOT FIT FOR TRANSPLANTATION.   |
| 23 | 40 | Banni Tree       | 0.98 | 8.00 | 12° 59' 42.4016" N | 77° 39' 53.5158" E | 5 | Felling | Felling | THE TREE IS MATURED AND DOES NOT FIT FOR TRANSPLANTATION.   |

|    |                                      |        |      |      |                    |                    |   |         |         |   |
|----|--------------------------------------|--------|------|------|--------------------|--------------------|---|---------|---------|---|
| 24 | 45A                                  | Tecoma | 0.62 | 4.50 | 12° 59' 41.9569" N | 77° 39' 52.6793" E | 1 | Felling | Felling | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED. |
|    | 45B                                  | Tecoma | 0.52 | 4.50 | 12° 59' 41.9569" N | 77° 39' 52.6793" E | 1 | Felling | Felling | THE TREE IS MATURED, MULTIFORKED AND SLANTING; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.                           |
|    | THE TREE IS RECOMMENDED FOR FELLING. |        |      |      |                    |                    |   |         |         |   |

**Summary:**

|  |    |
|--|----|
| Total Number of Enumerated Trees                             | 47 |
| Total Number of Trees assessed as suitable for Translocation | 24 |



Tree Officer &  
Deputy Conservator of Forests,  
Bengaluru Urban Division, Bengaluru

**Tree Officer and  
Deputy Conservator of Forests**  
Bengaluru Urban Division,  
BANGALORE.



**Report of Tree Expert Committee**  
**regarding permission sought by BMRCL under Section**  
**8 (2) and 8 (3) (vii) of Karnataka Preservation of Trees Act, 1976**

**Application No.:** BMRCL/Dy.CE/R1A/Ph-2/Trees//2021/4527

dtd 20.01.2021

**Project Area:** Bengaluru Metro Project at Jyothipura Metro Station,  
Vijinapura, Bengaluru

**Location: Jyothipura Metro Station**  
**Bengaluru**





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**Report of Tree Expert Committee regarding permission sought by BMRCL  
under Section 8(2) and 8(3)(vii) of Karnataka Preservation of Trees Act, 1976.**

**Application No.** BMRCL/Dy.CE/R1A/Ph-2/Trees//2021/4527

dtd 20.01.2021

**Project Area:** Jyothipura Metro Station, Vijinapura, Bengaluru

1. As per the orders of the Hon'ble High Court of Karnataka, the Memorandum of Procedure (herein after mentioned as MOP December – 2020) was submitted on 09.12.2020 duly incorporating the directions of the Hon'ble High Court and the work of the Tree Expert Committee (hereinafter mentioned as TEC) was carried out as per the process elucidated in the MOP.
2. The Tree Officer & Deputy Conservator of Forests, Bengaluru Urban Division submitted his preliminary assessment regarding the application filed by Bangalore Metro Rail Corporation Ltd (BMRCL) pertaining to **47** number of trees standing in the project area at Jyothipura Metro Station, Vijinapura, Bengaluru. The preliminary assessment was accompanied by following documents:
  - i. A copy of the application dated 20.01.2021 from BMRCL along with details and map of the area and details of trees including GPS coordinates.
  - ii. The public notice dated 09.02.2021 issued by the Tree Officer, a complete set of the objections from the public and a copy of the proceedings dated 20.03.2021 of the Tree Officer regarding consideration of the objections as per Section 8 (3) (vii) of the Karnataka Preservation of Trees Act, 1976 (Henceforth referred as KPT Act).
  - iii. Tree Assessment Forms in Template-2 with Part-I (dated 18.03.2021) containing tree details as furnished by Range Forest Officer and Part II (dated 19.03.2021) containing preliminary assessment of the Tree Officer for each of 47 trees proposed for removal by BMRCL.
  - iv. Abstract of the review of the BMRCL application and preliminary assessment of trees by the Tree Officer in Template-3 Part-I.
  - v. A statement prepared by Tree Officer showing the tree details along with preliminary assessment and justification for on-site retention / translocation / felling of trees.

Copies of the public notice, proceedings of the Tree Officer regarding consideration of the objections and his findings, and preliminary assessment of trees are attached to the report as Annexure-1 to Annexure-3.

**Review of the BMRCL application, objections/suggestions in response to Public Notice, and findings of Tree Officer:**

3. The BMRCL application, public notice, all objections/suggestions from the public, findings of the Tree Officer, and his proceedings dated 20.03.2021 were perused systematically by the TEC in its meeting held on **02.07.2021**. The TEC noted that the process prescribed in the MOP from Step-1 to Step-3 have been followed scrupulously by the Tree Officer.
4. The TEC observed that no objection/suggestion has been received in response to the public notice. Generally regarding this matter, the Tree Officer responded that adequate number of saplings will be planted under compensatory afforestation and its proper maintenance will be taken care of. The TEC concurred with the replies furnished by the Tree Officer.
5. The TEC sought and reviewed the presentation made by Chief Engineer, Social and Environment Management Unit, BMRCL regarding the project details, necessity for removal of the trees given the project alignment, possibility of retaining the trees while carrying out the project construction, etc. The Chief Engineer emphasized that Metro Projects being a mass rapid transit system, seeks to set up a convenient, efficient, safe and sustainable mode of public transport. Its benefits include a shift from private modes of transport to public transport, and thereby a significant reduction in use of private vehicles, other things remaining unchanged. Such modal shift is estimated to have a significant reduction in pollution in the project area. (Reference: "Note on Potential Reduction in Pollution" based on iDeCK's study on "Economic Analysis for 2A and 2B Corridors of Bangalore Metro").

**Review of Preliminary Assessment of Trees done by Tree Officer:**

6. The TEC examined the preliminary assessment of trees submitted by Tree Officer vide his letter dated 26.03.2021, including the statement exhibiting the tree details, preliminary assessment and justification for on-site retention / translocation / felling. The TEC noted that the documentation of the trees details in Template-2 Part-I and the preliminary assessment as per Template-2 Part-II has been done properly by the Forest Officers as envisaged in Step-4 & Step-5 of the MOP.

7. The TEC firmly deliberated that the first option should be to consider possibility of retention of trees at the site itself. The second option, in the event of the removal being necessary, should be to explore the suitability of trees for the translocation. The felling should be the last option for those trees which cannot be retained on-site and are also not suitable for translocation. The TEC decided to make that assessment through the field inspection of each tree.

The TEC decided to verify the preliminary assessment by Tree Officer and for that purpose decided to visit the Project Area for field inspections on **05.07.2021**.

8. The proceedings of the TEC regarding the above-mentioned review as per Step-6 of the MOP is attached to this report as Annexure-4.

### **Field Inspection by TEC:**

9. The field inspections for assessment of trees standing in the project area at Jyothipura Metro Station, (Reach IA) for the Metro project was carried out by the TEC on 05.07.2021.

The Tree Officer and the Representatives of BMRCL were present at the project area with all necessary documents.

10. During the field visit the Committee observed and felt that the BMRCL Jyothipuram Metro Station Project has two components viz.,

- i. Construction of Metro Station Entry & Exit;
- ii. Construction of Bus Hub;

At the Project Area during the course of Field Inspections, the following activities were carried out by the TEC for assessment of each tree in the project area.

- iii. Physical verification of the tree number and the associated information collected by the Forest Department Officers in Template 2 Part-I, including tree health / tree defects and general assessment as per provision to section 8(3) of the Act, 1976.
- iv. Confirmation regarding those trees being inside the project construction area.
- v. Review of preliminary assessment of trees made by the Tree Officer in the Template 2 Part-II.
- vi. Discussion with BMRCL Representatives to explore possibility of carrying out the construction without removal of trees, and identification of such trees which can be retained on-site.

vii. Assessment of the general conditions of the trees to decide the feasibility of translocation/transplantation.

viii. Recording of TEC's remarks and recommendations for on-site retention / translocation / felling of trees as stipulated in Template 2 Part-III.

The Committee in its above set of activities was guided by the detailed procedure and prioritization formulated in Step-7 of the MOP.

The proceedings of the TEC regarding the field inspection are attached to this report as Annexure-5.

### **Post-inspection Review and Report Preparation:**

11. Having completed the field inspections on 05.07.2021, the TEC met to review its findings and assessment and further to formulate its recommendations and prepare the report.
12. **On-site Retention:** The TEC identified 15 trees (07 Nos of trees at Construction of Metro Station Entry & Exit + 08 Nos. of trees at Construction of Bus Hub) though standing in the project area but not hindering the project activities, can be retained-on-site.
13. As verified during the field inspection, the remaining 32 trees which will have to be suggested for translocation and felling are falling within the following physical features of Metro Project and therefore these trees need to be removed from their current location.

| <b>Physical Features</b>     | <b>Tree Numbers</b>  |
|------------------------------|--|
| Metro Station Entry and Exit | 01, 02, 03, 04, 05, 06, 07 - <b>Total 07 Nos.</b>  |
| Pile Cap BP - 47             | 14, 15 – <b>Total 02 Nos</b>   |
| Construction of Bus hub      | 17, 19, 20, 21, 22, 23, 24, 25, 26, 28, 29, 30, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 45 – <b>Total 23 Nos</b> |

14. **Translocation:** The next option considered by the TEC was about the trees which can be translocated.

Having concluded that the retention of the above mentioned 32 trees is not possible, the TEC chose the next option of translocation of trees and assessed the suitability of each of these trees. In doing so, the TEC considered the following conditions, in addition to verification and consideration of the tree health / tree defects, etc., recorded in the Template-2 Part-I.

- i. Proximity of tree to building structures, trunks proximity to the cement / concrete or tarred surface.
- ii. The trees having below stated characteristics did not qualify for translocation.

Trees having forked trunk, major wounds on the trunk, debarking, physical damage on the bark, scar due to fire, damage (girdling), rotting due to fungal infection (fruiting bodies of fungus, rotten core, hollowness) or pest infestation (presence of holes and frass as evidence of insect infestation), and dead / dried major branches, etc..

- iii. Other aspects of species viz., economically important species, species that could provide food (nectar, pollen, seeds and fruits) and nesting sources (materials and site) to various fauna.
- iv. The availability of effective zone to extract the root-ball of sufficient size. The trees in the above category (ii) and those without adequate effective zone to extract the root-ball of sufficient size were specifically not recommended for the translocation.

Taking into consideration the above mentioned assessment attributes, the TEC found that there are 08 number of trees (Construction of Metro Entry & Exit = 1 No. and Construction of Bus Hub – 7 Nos.) at the said site which are suitable for translocation.

The remaining 24 Nos. of trees (Construction of Metro Entry & Exit = 08 Nos. and Construction of Bus Hub – 16 Nos.) were not found to be suitable either for retention on-site or for translocation, and hence will have to be felled.

15. **Assessment of areas/sites for Translocation:** Having completed the above assessment of trees at the project area, the Committee visited the following area proposed by BMRCL and recommended by the Tree Officer for translocation of trees.

- i. *Along the K R Puram Metro Station Boundary, Adjacent to Lowry School Compound Wall, K R Puram, Bengaluru – 560 048*

It was informed that the area available for translocation of trees will be about 640 Sq Mtrs. along the boundary wall of K R Puram Metro Station.

16. Further the Committee reviewed the soil test analysis report, of the above K R Puram Metro Station site, as prepared by Department of Soil Science and Agricultural Chemistry, UAS, GKVK, Bangalore and recommended by the Tree Officer and DCF, with the following inference:



*"The Three soil samples provided for analysis are alkaline in nature, low organic carbon content and contain low to medium quantities of major nutrients (N,P,K as per standards) and all other parameters vary from medium to high range as per standards. Therefore with proper amendment application soil is suitable for tree shifting".*

17. Regarding details of the Translocation of Trees, the TEC directed the DCF, Bengaluru Urban Division and BMRCL to submit the precise locations of the proposed areas of translocation along with specific receptor site Coordinates where the trees have to be translocated at the above proposed translocation area.

In response, BMRCL has furnished the details to the Tree Officer and Deputy Conservator of Forests, vide their letter No. BMRCL/Dy.CE/R1A/TREES/2021-22/4988 dtd 03.08.2021. In turn the Tree Officer submitted the required details along with receptor sites coordinates and with his recommendations to TEC which are enclosed as Annexure 6.

18. The entire translocation details were reviewed by TEC. In this context, BMRCL states that the boundary of translocation areas were demarcated and coordinates of specific locations were marked for proposed translocation sites related to the said 08 trees. This exercise of demarcation and coordinates mapping was carried out using Total Station Survey (Topcon Make). The Tree Officer and DCF, Bengaluru Urban Division has inspected the receptor location sites as proposed by BMRCL for the trees to be translocated and recommended accordingly to TEC.

19. On enquiry with the BMRCL and the Tree Officer about the distances of the proposed translocation sites with respect to the places where the trees are standing at present, the authorities remarked that for the tree standing at Jyothipuram Metro Station, the proposed translocation sites situated at *K R Puram Metro Station, Bengaluru* are adjacent to place where the trees are standing at present. The Translocation Area is falling in the BBMP jurisdiction where the provisions of KPT Act, 1976 are applicable.

20. The TEC deliberated and concurred with the recommendation of the Tree Officer, Bengaluru Urban Division regarding the said soil analysis report of UAS, Bangalore and tree translocation details including specific receptor sites coordinates.

21. The TEC opined that translocation of trees can be done in the proposed sites after following the advice as rendered by UAS, Bangalore.

**22. Recommendations of TEC:** The TEC carried out a thorough and multipronged scrutiny of all the trees to make its recommendations regarding:

a) Trees which could be saved by retaining on-site as it is;



- b) Trees which should be translocated depending upon their general condition as assessed and ecological importance, in the event of (a) above not being possible;
- c) Trees recommended for removal in the event of (a) and (b) not being possible including the trees which are silviculturally matured or softwood trees and trees suffering from defects /damages.

Following is the summary of recommendations of the Committee based on the remarks as expressed in the Template-2 Part-III of each tree.

| Particulars  | Jyothipura Metro Station |                 | Total |
|--|--------------------------|-----------------|-------|
|  | Entry & Exit Segment     | Bus Hub Segment |       |
| Total number of Trees examined/observed                    | 16                       | 31              | 47    |
| Total number of Trees found suitable for on-site retention | 07                       | 08              | 15    |
| Total number of Trees found suitable for translocation     | 01                       | 07              | 08    |
| Total number of Trees for felling                          | 08                       | 16              | 24    |

The translocation should be carried out by competent agencies following the guidelines formulated by UAS, GKVK, Bangalore.

In finalizing its report, the TEC has been guided by the process highlighted in Step-8 of the MOP, namely:

- Meticulous scrutiny of recommendations by the Tree Officer in compliance to the MOP;
- Field inspection to assess each and every tree and record the status of tree and recommendation for its on-site retention/translocation/felling and inspection of the translocation area/site as mentioned in para 15 above.

### 23. Directions to BMRCL and DCF, Bengaluru Urban Division

- The entire translocation process of trees has to be executed by BMRCL through the Agencies which are experienced in such field operations under close supervision of the Tree Officer.
- The TEC instructed the Environment Wing of BMRCL to get closely involved in all the field operations related to trees and saplings, maintain records pertaining to Translocation of Trees as well as Compensatory Afforestation, both in respect of the works already executed and to be executed henceforth.


- c) The Tree Officer and BMRCL authorities are directed to properly document the translocation process which includes inter-alia location of the translocated trees, name and address of the Person/Agency to whom the translocation work was entrusted, agreement regarding the proper maintenance of the translocated trees for a period of three years by BMRCL.
- d) BMRCL should be advised to raise Compensatory Afforestation on suitable lands in respect of trees to be removed by translocation and felling. For each tree removed, 10 Nos. of tall healthy saplings should be planted and properly maintained for a period of 3 years. Periodic status reports must be submitted by BMRCL to the Tree Officer. It should be ensured that the greenery of Bengaluru is preserved and enhanced through effective maintenance of planted saplings, translocated trees and standing trees under all circumstances.

#### **24. Monitoring and Evaluation**

Quarterly progress reports have to be submitted by the BMRCL to the Tree Officer who shall regularly monitor and evaluate the maintenance and protection works for conducive growth of saplings planted and trees translocated.

#### **25. Record keeping:**

- i. The Tree Officer is advised to maintain full records of the BMRCL application, its processing, field inspection, etc., for a minimum period of 3 years. The information collected in various templates suggested in the MOP, especially Template-2 Part-1 to IV, should be maintained carefully.
- ii. An abstract of the recommendation of the TEC in Template No.4 and a detailed statement containing the recommendations with justification for each of the 47 trees covered in the application are appended as Appendix to this report

  
Member - Secretary, TEC  
& Asst. Conservator of Forests,  
Bruhat Bengaluru Mahanagara Palike,  
Bengaluru.

**ABSTRACT OF TEC REPORT**

*(to be prepared in compliance to Step 8 of the Memorandum of Procedure of TEC inconsideration to the details documented for each tree in Template No.2 and abstract in Template No.3)*

|  |   |                   |                   |
|--|---|-------------------|-------------------|
| <b>Name of the user agency</b>   | Bangalore Metro Rail Corporation Limited                    |                   |                   |
| <b>Purpose of the project</b>  | Construction of Metro Rail Project Phase II                 |                   |                   |
| <b>Extent of the project area</b>                                      | 2140.05 Sqm   |                   |                   |
| <b>Location of the project area</b>                                    | Jyothipuram Metro Station, Vijinapura, K R Puram, Bengaluru |                   |                   |
|  | Bus Bay   | 12 ° 59' 42.2052" | 77° 39' 50.692" E |
|  |   | 12 ° 59' 44.6172" | 77° 39' 52.787" E |
|  | Station Entry/Exit  | 12 ° 59' 48.7176" | 77° 40' 6.694" E  |
|  |   | 12 ° 59' 48.8112" | 77° 40' 7.133" E  |
| <b>Number of tree(s) enumerated in the project area</b>                | 47 Trees  |                   |                   |
| <b>Number of tree(s) proposed for Removal by user agency</b>           | 47 Trees  |                   |                   |
| <b>Overall opinion on objections from the public</b>                   | Nil   |                   |                   |
| <b>Number of tree(s) recommended for on-site retention</b>             | 15 Trees  |                   |                   |
| <b>Number of tree(s) recommended for transplantation/translocation</b> | 08 Trees  |                   |                   |
| <b>Number of tree(s) recommended for felling</b>                       | 24 Trees  |                   |                   |

*[Signature]*  
 Member Secretary of TEC &  
 Assistant Conservator of Forests  
 BBMP, Bangalore.



## Appendix

## Recommendations and Justifications for on-site Retention/ translocation / felling of trees by Tree Expert Committee

Case/ Application No : BMRCL/DyCE/R1A/ph2/Trees/2021/4527 Dated: 20.01.2021

Project Area: Jyothipuram Metro Station

| Sl. No | Tree No. | Tree Name | GBH (m) | Total Height (m) | GPS Location       |                   | Crown spread (m) | TEC Recommendation | Justifications  |
|--------|----------|-----------|---------|------------------|--------------------|-------------------|------------------|--------------------|---|
|        |          |           |         |                  | Latitude (N)       | Longitude (E)     |                  |                    |   |
| 01     | 01       | Rain Tree | 2.43    | 9.00             | 12° 59' 50.2107" N | 77° 40' 6.9533" E | 14               | Felling            | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS MATURED AND MULTIFORKED AT 1M FROM THE BASE AND THE FORKED REGIONS ARE FOUND WITH INCLUDED BARKS THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br><br>THE TREE IS RECOMMENDED FOR FELLING. |
| 02     | 02       | Rain Tree | 1.05    | 9.00             | 12° 59' 50.2185" N | 77° 40' 7.0976" E | 6                | Felling            | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS MATURED AND SLANTING WITH BASE CLOSE TO TREE NO. 3, THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br><br>THE TREE IS RECOMMENDED FOR FELLING.  |



|    |    |           |      |       |                    |                   |    |         |  |
|----|----|-----------|------|-------|--------------------|-------------------|----|---------|--|
| 03 | 03 | Rain Tree | 1.29 | 9.00  | 12° 59' 50.1497" N | 77° 40' 7.1132" E | 9  | Felling | <p>THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CANNOT BE RETAINED.</p> <p>THE TREE IS MATURED AND SLANTING WITH BASE CLOSE TO TREE NO. 2, THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.</p> <p>THE TREE IS RECOMMENDED FOR FELLING.</p>  |
| 04 | 04 | Rain Tree | 1.61 | 9.00  | 12° 59' 50.1522" N | 77° 40' 7.2880" E | 13 | Felling | <p>THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CANNOT BE RETAINED.</p> <p>THE TREE IS MATURED AND MULTIFORKED AT 2M FROM THE BASE AND THE FORKED REGIONS ARE FOUND WITH INCLUDED BARKS THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.</p> <p>THE TREE IS RECOMMENDED FOR FELLING.</p> |
| 05 | 5A | Rain Tree | 1.17 | 10.00 | 12° 59' 50.2752" N | 77° 40' 7.2851" E | 6  | Felling | <p>THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CANNOT BE RETAINED.</p> <p>THE TREE IS MATURED, MULTIFORKED AND SLANTING; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.</p> <p>THE TREE IS RECOMMENDED FOR FELLING.</p>   |
|    | 5B | Rain Tree | 1.39 | 10.00 | 12° 59' 50.2752" N | 77° 40' 7.2851" E | 5  | Felling | <p>THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CANNOT BE RETAINED.</p> <p>THE TREE IS MATURED, MULTIFORKED AND SLANTING; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.</p> <p>THE TREE IS RECOMMENDED FOR FELLING.</p>   |

|    |    |           |      |       |                    |                   |    |           |  |
|----|----|-----------|------|-------|--------------------|-------------------|----|-----------|--|
| 06 | 06 | Rain Tree | 1.19 | 9.00  | 12° 59' 50.2780" N | 77° 40' 7.4965" E | 7  | Felling   | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS MATURED AND SLANTING; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br><br>THE TREE IS RECOMMENDED FOR FELLING.   |
| 07 | 07 | Rain Tree | 1.30 | 10.00 | 12° 59' 50.2187" N | 77° 40' 7.6892" E | 10 | Felling   | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS MATURED, BENDING; PRESENCE OF VERTICAL CAVITY AND DECAY / OOOZING OF SAP, THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br><br>THE TREE IS RECOMMENDED FOR FELLING. |
| 08 | 8A | Ashoka    | 0.89 | 4.00  | 12° 59' 50.0568" N | 77° 40' 8.231" E  | 3  | Retention | THE TREE IS PRESENT OUTSIDE THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CAN BE RETAINED  |
|    | 8B | Ashoka    | 0.75 | 4.00  | 12° 59' 50.0568" N | 77° 40' 8.231" E  | 3  | Retention | THE TREE IS PRESENT OUTSIDE THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CAN BE RETAINED  |
| 09 | 9A | Ashoka    | 0.61 | 4.00  | 12° 59' 50.0568" N | 77° 40' 8.274" E  | 2  | Retention | THE TREE IS PRESENT OUTSIDE THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CAN BE RETAINED.   |

|    |             |      |      |                    |                   |     |           |  |
|----|-------------|------|------|--------------------|-------------------|-----|-----------|--|
| 9B | Ashoka      | 0.49 | 4.00 | 12° 59' 50.0568" N | 77° 40' 8.274" E  | 1   | Retention | THE TREE IS PRESENT OUTSIDE THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CAN BE RETAINED.   |
| 10 | Neem Tree   | 0.40 | 2.50 | 12° 59' 50.0604" N | 77° 40' 8.303" E  | 0.5 | Retention | THE TREE IS PRESENT OUTSIDE THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CAN BE RETAINED.   |
| 11 | Ashoka      | 1.01 | 6.00 | 12° 59' 50.064" N  | 77° 40' 8.339" E  | 2   | Retention | THE TREE IS PRESENT OUTSIDE THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CAN BE RETAINED.   |
| 12 | Ashoka      | 0.64 | 8.00 | 12° 59' 49.3236" N | 77° 40' 8.2554" E | 1   | Retention | THE TREE IS PRESENT ABUTTING (INSIDE) THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; HOWEVER THE POSITION OF THE TREE DO NOT HINDER THE CONSTRUCTION ACTIVITIES, THEREFORE THE TREE CAN BE RETAINED. |
| 13 | Phycus Alba | 0.94 | 8.00 | 12° 59' 49.2805" N | 77° 40' 8.1606" E | 6   | Retention | THE TREE IS PRESENT ABUTTING (INSIDE) THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; HOWEVER THE POSITION OF THE TREE DO NOT HINDER THE CONSTRUCTION ACTIVITIES, THEREFORE THE TREE CAN BE RETAINED. |



|    |     |             |      |       |                    |                   |     |               |   |
|----|-----|-------------|------|-------|--------------------|-------------------|-----|---------------|---|
| 14 | 14  | Neem Tree   | 0.51 | 4.00  | 12° 59' 49.3215" N | 77° 40' 7.3352" E | 2.5 | Translocation | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE FIELD / HEALTH CONDITION OF THE TREE QUALIFIES FOR TRANSPLANTATION; HOWEVER SINCE THE ROOT BALL IS DAMAGED CARE IS NEEDED WHILE PREPARING THE TREE FOR TRANSPLANTATION.<br><br>THE TREE IS RECOMMENDED FOR TRANSPLANTATION. |
| 15 | 15A | Peepal Tree | 1.90 | 10.00 | 12° 59' 49.3039" N | 77° 40' 7.2792" E | 5   | Felling       | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; THEREFORE THE TREE CANNOT BE RETAINED.  |
|    | 15B | Peepal Tree | 2.00 | 10.00 | 12° 59' 49.3039" N | 77° 40' 7.2792" E | 5   | Felling       | THE TREE IS MATURED, MULTIFORKED WITH INCLUDED BARKS AND TREE PROTECTION ZONE COMPROMISED; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.   |
|    | 15C | Peepal Tree | 1.80 | 10.00 | 12° 59' 49.3039" N | 77° 40' 7.2792" E | 1   | Felling       | THE TREE IS RECOMMENDED FOR FELLING.  |
|    | 15D | Peepal Tree | 1.70 | 10.00 | 12° 59' 49.3039" N | 77° 40' 7.2792" E | 3   | Felling       |   |
|    | 15E | Peepal Tree | 1.60 | 10.00 | 12° 59' 49.3039" N | 77° 40' 7.2792" E | 6   | Felling       |   |
|    | 15F | Peepal Tree | 1.50 | 10.00 | 12° 59' 49.3039" N | 77° 40' 7.2792" E | 3   | Felling       |   |
| 16 | 16  | Banni Tree  | 0.92 | 6.00  | 12° 59' 48.9553" N | 77° 40' 6.7685" E | 5   | Retention     | THE TREE IS PRESENT ABUTTING (INSIDE) THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF FOB (FOOT OVER BRIDGE) PERTINENT TO JYOTHIPURA METRO STATION ENTRY AND EXIT; HOWEVER THE POSITION OF THE TREE DOES NOT HINDER THE CONSTRUCTION ACTIVITIES, THEREFORE THE TREE CAN BE RETAINED.  |

|    |    |             |      |      |                    |                    |   |               |   |
|----|----|-------------|------|------|--------------------|--------------------|---|---------------|---|
| 17 | 17 | Palm Tree   | 0.62 | 7.00 | 12° 59' 44.2481" N | 77° 39' 55.7612" E | 2 | Felling       | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS BROKEN AND IN THE VERGE OF DYING AND THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br><br>THE TREE IS RECOMMENDED FOR FELLING.  |
| 18 | 18 | Rain Tree   | 1.33 | 8.00 | 12° 59' 44.5393" N | 77° 39' 54.9946" E | 8 | Retention     | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; HOWEVER THE POSITION OF THE TREE IS VERY CLOSE TO EXISTING FLYOVER WHICH WILL NOT BE DISTURBED DURING ANY OF THE PROPOSED CONSTRUCTION ACTIVITIES AND HENCE THERE IS NO PROBABILITY OF CONSTRUCTION ACTIVITIES TO INTERFERE THE TREE PROTECTION ZONE, THEREFORE THE TREE IS RECOMMENDED FOR RETENTION. |
| 19 | 19 | Palm Tree   | 1.75 | 3.50 | 12° 59' 43.7930" N | 77° 39' 55.8177" E | 2 | Translocation | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE FIELD / HEALTH CONDITION OF THE TREE QUALIFIES THE TREE FOR TRANSPLANTATION.   |
| 20 | 20 | Hatthi Tree | 0.90 | 5.00 | 12° 59' 43.7427" N | 77° 39' 55.9830" E | 4 | Translocation | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>MAJOR PORTION OF LIMBS OF THE TREE HAD BEEN PRUNED, HOWEVER IN CONSIDERATION TO THE IMPORTANCE OF THE SPECIES THE TREE IS RECOMMENDED FOR TRANSPLANTATION AFTER REMOVAL OF DEAD AND DRIED BRANCHES WITH PROPER CARE.                                     |
|    |    |             |      |      |                    |                    |   |               | THE TREE IS RECOMMENDED FOR TRANSPLANTATION.  |

|    |     |        |      |      |                       |                       |   |         |  |
|----|-----|--------|------|------|-----------------------|-----------------------|---|---------|--|
| 21 | 21  | Tecoma | 0.85 | 5.00 | 12° 59'<br>43.6985" N | 77° 39'<br>56.9710" E | 5 | Felling | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA (ENTRY TO BUS HUB); THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS MATURED WITH COMPROMISED TREE PROTECTION ZONE; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br><br>THE TREE IS RECOMMENDED FOR FELLING.              |
| 22 | 22  | Tecoma | 0.67 | 4.00 | 12° 59'<br>43.7346" N | 77° 39'<br>57.0875" E | 4 | Felling | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA (ENTRY TO BUS HUB); THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS MATURED WITH COMPROMISED TREE PROTECTION ZONE AND SLANTING; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br><br>THE TREE IS RECOMMENDED FOR FELLING. |
| 23 | 23A | Tecoma | 0.69 | 3.50 | 12° 59'<br>43.8075" N | 77° 39'<br>57.2672" E | 3 | Felling | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS MATURED WITH COMPROMISED TREE PROTECTION ZONE AND SLANTING; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br><br>THE TREE IS RECOMMENDED FOR FELLING.                    |
|    | 23B | Tecoma | 0.58 | 3.50 | 12° 59'<br>43.8075" N | 77° 39'<br>57.2672" E | 3 | Felling | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS MATURED WITH COMPROMISED TREE PROTECTION ZONE AND SLANTING; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br><br>THE TREE IS RECOMMENDED FOR FELLING.                    |

|    |    |                          |      |      |                       |                       |     |               |   |
|----|----|--------------------------|------|------|-----------------------|-----------------------|-----|---------------|---|
| 24 | 24 | Hole<br>dasavala<br>Tree | 0.60 | 2.50 | 12° 59'<br>43.8321" N | 77° 39'<br>54.0831" E | 2.5 | Translocation | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS RECOMMENDED FOR TRANSPLANTATION, HOWEVER AS THERE IS PARTIAL EXPOSURE OF ROOT BALL ZONE STRICT CARE IS ESSENTIAL WHILE PROCESSING THE TREE FOR TRANSPLANTATION.  |
| 25 | 25 | Karijaali                | 1.02 | 5.00 | 12° 59'<br>43.6698" N | 77° 39'<br>53.8272" E | 5   | Felling       | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS MATURED AND BENT; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br><br>THE TREE IS RECOMMENDED FOR FELLING.   |
| 26 | 26 | Peepal<br>Tree           | 1.30 | 8.00 | 12° 59'<br>43.5742" N | 77° 39'<br>53.6133" E | 3   | Translocation | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>MAJOR PORTION OF LIMBS OF THE TREE HAD BEEN PRUNED, HOWEVER IN CONSIDERATION TO THE IMPORTANCE OF THE SPECIES THE TREE IS RECOMMENDED FOR TRANSPLANTATION AFTER REMOVAL OF DEAD AND DRIED BRANCHES WITH PROPER CARE.   |
| 27 | 27 | Rain<br>Tree             | 1.15 | 7.00 | 12° 59'<br>43.4203" N | 77° 39'<br>53.2159" E | 8   | Retention     | THE TREE IS RECOMMENDED FOR TRANSPLANTATION.<br><br>THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; HOWEVER THE POSITION OF THE TREE IS VERY CLOSE TO EXISTING FLYOVER WHICH WILL NOT BE DISTURBED DURING ANY OF THE PROPOSED CONSTRUCTION ACTIVITIES AND HENCE THERE IS NO PROBABILITY OF CONSTRUCTION ACTIVITIES TO INTERFERE THE TREE PROTECTION ZONE, THEREFORE THE TREE IS RECOMMENDED FOR RETENTION. |

|    |    |                  |      |      |                       |                       |     |           |   |
|----|----|------------------|------|------|-----------------------|-----------------------|-----|-----------|---|
| 28 | 28 | Tecoma           | 0.81 | 7.00 | 12° 59'<br>43.1311" N | 77° 39'<br>53.5707" E | 2   | Felling   | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF <b>BUS HUB AREA</b> ; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS MATURED WITH MAJOR PORTION OF THE ROOT BALL ZONE EXPOSED; THEREFORE THE TREE DOES NOT QUALIFY FOR TRANSPLANTATION.<br><br>THE TREE IS RECOMMENDED FOR FELLING. |
| 29 | 29 | Teecoma          | 0.48 | 5.00 | 12° 59'<br>43.0592" N | 77° 39'<br>53.4709" E | 1.5 | Felling   | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF <b>BUS HUB AREA</b> ; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS MATURED AND SLANTING; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br><br>THE TREE IS RECOMMENDED FOR FELLING.   |
| 30 | 30 | Tecoma           | 0.60 | 3.50 | 12° 59'<br>42.9988" N | 77° 39'<br>53.3881" E | 2   | Felling   | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF <b>BUS HUB AREA</b> ; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS MATURED WITH COMPROMISED TREE PROTECTION ZONE AND SLANTING; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br><br>THE TREE IS RECOMMENDED FOR FELLING.   |
| 31 | 31 | Hole<br>dasavala | 0.58 | 3.50 | 12° 59'<br>42.9240" N | 77° 39'<br>53.2454" E | 3   | Retention | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF <b>BUS HUB AREA</b> ; HOWEVER THE POSITION OF THE TREE DOES NOT HINDER ANY OF THE CONSTRUCTION ACTIVITIES, THEREFORE THE TREE CAN BE RETAINED.<br><br>THE TREE IS RECOMMENDED FOR RETENTION.   |

|    |     |            |      |      |                       |                       |     |               |   |
|----|-----|------------|------|------|-----------------------|-----------------------|-----|---------------|---|
| 32 | 32  | Tecoma     | 0.58 | 3.50 | 12° 59'<br>43.2903" N | 77° 39'<br>53.7647" E | 2.5 | Felling       | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS DAMAGED SEVERELY AND BROKEN; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br><br>THE TREE IS RECOMMENDED FOR FELLING.                          |
| 33 | 33  | Tecoma     | 0.74 | 5.00 | 12° 59'<br>43.3778" N | 77° 39'<br>53.8432" E | 1.5 | Felling       | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br><br>THE TREE IS MATURED AND FORKED WITH INCLUDED BARKS (WEAK UNIONS); THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br><br>THE TREE IS RECOMMENDED FOR FELLING. |
| 34 | 34A | Honge Tree | 0.70 | 4.00 | 12° 59'<br>43.1108" N | 77° 39'<br>53.9067" E | 3   | Translocation | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.   |
|    | 34B | Honge Tree | 0.80 | 5.00 | 12° 59'<br>43.1108" N | 77° 39'<br>53.9067" E | 3   | Translocation | THE TREE IS FIT FOR TRANSPLANTATION; HOWEVER APPROPRIATE CARE IS ESSENTIAL WHILE PROCESSING THE TREE FOR TRANSPLANTATION AS THE TREE IS FORKED.<br><br>THE TREE IS RECOMMENDED FOR TRANSPLANTATION.   |
| 35 | 35A | Honge Tree | 0.78 | 5.00 | 12° 59'<br>43.0226" N | 77° 39'<br>53.8161" E | 4   | Felling       | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.   |
|    | 35B | Honge Tree | 0.48 | 5.00 | 12° 59'<br>43.0226" N | 77° 39'<br>53.8161" E | 2   | Felling       | THE TREE IS MATURED WITH EXTENSIVE EXTERNAL DECAY ALONG THE TRUNK; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br><br>THE TREE IS RECOMMENDED FOR FELLING.   |

|    |    |               |      |      |                    |                    |   |               |  |
|----|----|---------------|------|------|--------------------|--------------------|---|---------------|--|
| 36 | 36 | Teakwood Tree | 0.55 | 5.00 | 12° 59' 42.9842" N | 77° 39' 53.7407" E | 2 | Translocation | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br>THE FIELD CONDITION OF THE TREE QUALIFIES THE TREE FOR TRANSPLANTATION.<br>THE TREE IS RECOMMENDED FOR TRANSPLANTATION.                                 |
| 37 | 37 | Nerale Tree   | 0.68 | 6.00 | 12° 59' 42.6949" N | 77° 39' 53.5911" E | 4 | Felling       | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br>THE TREE IS BENT WITH DECAY SYMPTOMS AT BASE; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br>THE TREE IS RECOMMENDED FOR FELLING.              |
| 38 | 38 | Ashoka        | 0.96 | 8.00 | 12° 59' 42.7460" N | 77° 39' 53.5600" E | 4 | Felling       | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br>THE TREE IS MATURED AND DOES NOT FIT FOR TRANSPLANTATION.<br>THE TREE IS RECOMMENDED FOR FELLING.   |
| 39 | 39 | Bilwapat Tree | 0.79 | 5.00 | 12° 59' 42.4137" N | 77° 39' 53.6819" E | 4 | Felling       | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br>THE TREE IS MATURED WITH COMPROMISED TREE PROTECTION ZONE; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br>THE TREE IS RECOMMENDED FOR FELLING. |



|    |     |            |      |      |                    |                    |     |               |   |
|----|-----|------------|------|------|--------------------|--------------------|-----|---------------|---|
| 40 | 40  | Banni Tree | 0.98 | 8.00 | 12° 59' 42.4016" N | 77° 39' 53.5158" E | 5   | Felling       | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br>THE TREE IS MATURED AND SLANTING; THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br>THE TREE IS RECOMMENDED FOR FELLING. |
| 41 | 41  | Mango Tree | 0.45 | 3.00 | 12° 59' 42.5023" N | 77° 39' 53.4384" E | 2   | Translocation | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.<br>THE FIELD / HEALTH CONDITION OF THE TREE QUALIFIES THE TREE FOR TRANSPLANTATION.   |
| 42 | 42  | Tecoma     | 0.61 | 3.00 | 12° 59' 42.8207" N | 77° 39' 53.1956" E | 2.5 | Retention     | THE TREE IS RECOMMENDED FOR TRANSPLANTATION.<br>THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; HOWEVER THE POSITION OF THE TREE DOES NOT HINDER ANY OF THE CONSTRUCTION ACTIVITIES, THEREFORE THE TREE CAN BE RETAINED. |
| 43 | 43  | Rain Tree  | 1.91 | 9.00 | 12° 59' 42.8039" N | 77° 39' 53.0053" E | 12  | Retention     | THE TREE IS RECOMMENDED FOR RETENTION.<br>THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; HOWEVER THE POSITION OF THE TREE DOES NOT HINDER ANY OF THE CONSTRUCTION ACTIVITIES, THEREFORE THE TREE CAN BE RETAINED.       |
| 44 | 44  | Tecoma     | 0.56 | 4.50 | 12° 59' 42.6691" N | 77° 39' 52.9696" E | 2   | Retention     | THE TREE IS RECOMMENDED FOR RETENTION.<br>THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; HOWEVER THE POSITION OF THE TREE DOES NOT HINDER ANY OF THE CONSTRUCTION ACTIVITIES, THEREFORE THE TREE CAN BE RETAINED.       |
| 45 | 45A | Tecoma     | 0.62 | 4.50 | 12° 59' 41.9569" N | 77° 39' 52.6793" E | 1   | Felling       | THE TREE IS RECOMMENDED FOR RETENTION.<br>THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; THEREFORE THE TREE CANNOT BE RETAINED.   |



|    |     |             |      |       |                       |                       |     |           |   |
|----|-----|-------------|------|-------|-----------------------|-----------------------|-----|-----------|---|
|    | 45B | Tecoma      | 0.52 | 4.50  | 12° 59'<br>41.9569" N | 77° 39'<br>52.6793" E | 1   | Felling   | TREE CANNOT BE RETAINED.<br>THE TREE IS MATURED, MULTIFORKED AND SLANTING;<br>THEREFORE THE TREE DOES NOT FIT FOR TRANSPLANTATION.<br>THE TREE IS RECOMMENDED FOR FELLING.                                      |
| 46 | 46  | Banyan Tree | 5.30 | 8.00  | 12° 59'<br>42.2243" N | 77° 39'<br>53.1055" E | 15  | Retention | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; HOWEVER THE POSITION OF THE TREE DOES NOT HINDER ANY OF THE CONSTRUCTION ACTIVITIES, THEREFORE THE TREE CAN BE RETAINED. |
| 47 | 47A | Peepal Tree | 0.62 | 11.00 | 12° 59'<br>42.7502" N | 77° 39'<br>54.6129" E | 4.0 | Retention | THE TREE IS RECOMMENDED FOR RETENTION.  |
|    | 47B | Peepal Tree | 0.71 | 11.00 | 12° 59'<br>42.7502" N | 77° 39'<br>54.6129" E | 5   | Retention | THE TREE IS PRESENT WITHIN THE PROJECT AREA PROPOSED FOR CONSTRUCTION OF BUS HUB AREA; HOWEVER THE POSITION OF THE TREE DOES NOT HINDER ANY OF THE CONSTRUCTION ACTIVITIES, THEREFORE THE TREE CAN BE RETAINED. |
|    | 47C | Peepal Tree | 0.41 | 11.00 | 12° 59'<br>42.7502" N | 77° 39'<br>54.6129" E | 5   | Retention | THE TREE IS RECOMMENDED FOR RETENTION.  |

## Summary:

|  |    |
|--|----|
| Total Number of Trees assessed for on-site retention         | 15 |
| Total Number of Trees assessed as suitable for translocation | 08 |
| Total number of Trees assessed for felling                   | 24 |



Member Secretary, TEC

&amp; Assistant Conservator of Forests, BBMP, Bengaluru











# WEATHER WATCH

WINDS ALL OVER THE STATE ARE WEAK IN MOST PARTS. WEATHER IS BENEVOLENT IN MOST PARTS.



Forecast for Thursday: Dewy very dense fog likely in isolated pockets over Purnia, Nalanda, Delhi and Uttar Pradesh.

| City               | Temp | Wind | Humidity | Clouds | Wind | Temp | Wind | Humidity | Clouds |
|--------------------|------|------|----------|--------|------|------|------|----------|--------|
| Bangalore          | 24.0 | 15.0 | 75.0     | 10.0   | 15.0 | 24.0 | 15.0 | 75.0     | 10.0   |
| Mysore             | 23.0 | 14.0 | 74.0     | 10.0   | 14.0 | 23.0 | 14.0 | 74.0     | 10.0   |
| Chennai            | 28.0 | 16.0 | 76.0     | 10.0   | 16.0 | 28.0 | 16.0 | 76.0     | 10.0   |
| Coimbatore         | 22.0 | 13.0 | 73.0     | 10.0   | 13.0 | 22.0 | 13.0 | 73.0     | 10.0   |
| Trichy             | 25.0 | 15.0 | 75.0     | 10.0   | 15.0 | 25.0 | 15.0 | 75.0     | 10.0   |
| Madurai            | 26.0 | 16.0 | 76.0     | 10.0   | 16.0 | 26.0 | 16.0 | 76.0     | 10.0   |
| Thiruvananthapuram | 27.0 | 17.0 | 77.0     | 10.0   | 17.0 | 27.0 | 17.0 | 77.0     | 10.0   |
| Goa                | 28.0 | 18.0 | 78.0     | 10.0   | 18.0 | 28.0 | 18.0 | 78.0     | 10.0   |
| Delhi              | 29.0 | 19.0 | 79.0     | 10.0   | 19.0 | 29.0 | 19.0 | 79.0     | 10.0   |
| Jaipur             | 30.0 | 20.0 | 80.0     | 10.0   | 20.0 | 30.0 | 20.0 | 80.0     | 10.0   |
| Chennai            | 31.0 | 21.0 | 81.0     | 10.0   | 21.0 | 31.0 | 21.0 | 81.0     | 10.0   |
| Coimbatore         | 32.0 | 22.0 | 82.0     | 10.0   | 22.0 | 32.0 | 22.0 | 82.0     | 10.0   |
| Trichy             | 33.0 | 23.0 | 83.0     | 10.0   | 23.0 | 33.0 | 23.0 | 83.0     | 10.0   |
| Madurai            | 34.0 | 24.0 | 84.0     | 10.0   | 24.0 | 34.0 | 24.0 | 84.0     | 10.0   |
| Thiruvananthapuram | 35.0 | 25.0 | 85.0     | 10.0   | 25.0 | 35.0 | 25.0 | 85.0     | 10.0   |
| Goa                | 36.0 | 26.0 | 86.0     | 10.0   | 26.0 | 36.0 | 26.0 | 86.0     | 10.0   |
| Delhi              | 37.0 | 27.0 | 87.0     | 10.0   | 27.0 | 37.0 | 27.0 | 87.0     | 10.0   |
| Jaipur             | 38.0 | 28.0 | 88.0     | 10.0   | 28.0 | 38.0 | 28.0 | 88.0     | 10.0   |
| Chennai            | 39.0 | 29.0 | 89.0     | 10.0   | 29.0 | 39.0 | 29.0 | 89.0     | 10.0   |
| Coimbatore         | 40.0 | 30.0 | 90.0     | 10.0   | 30.0 | 40.0 | 30.0 | 90.0     | 10.0   |
| Trichy             | 41.0 | 31.0 | 91.0     | 10.0   | 31.0 | 41.0 | 31.0 | 91.0     | 10.0   |
| Madurai            | 42.0 | 32.0 | 92.0     | 10.0   | 32.0 | 42.0 | 32.0 | 92.0     | 10.0   |
| Thiruvananthapuram | 43.0 | 33.0 | 93.0     | 10.0   | 33.0 | 43.0 | 33.0 | 93.0     | 10.0   |
| Goa                | 44.0 | 34.0 | 94.0     | 10.0   | 34.0 | 44.0 | 34.0 | 94.0     | 10.0   |
| Delhi              | 45.0 | 35.0 | 95.0     | 10.0   | 35.0 | 45.0 | 35.0 | 95.0     | 10.0   |
| Jaipur             | 46.0 | 36.0 | 96.0     | 10.0   | 36.0 | 46.0 | 36.0 | 96.0     | 10.0   |
| Chennai            | 47.0 | 37.0 | 97.0     | 10.0   | 37.0 | 47.0 | 37.0 | 97.0     | 10.0   |
| Coimbatore         | 48.0 | 38.0 | 98.0     | 10.0   | 38.0 | 48.0 | 38.0 | 98.0     | 10.0   |
| Trichy             | 49.0 | 39.0 | 99.0     | 10.0   | 39.0 | 49.0 | 39.0 | 99.0     | 10.0   |
| Madurai            | 50.0 | 40.0 | 100.0    | 10.0   | 40.0 | 50.0 | 40.0 | 100.0    | 10.0   |

# Conflict with leopards on the rise in State

Better waste management in urban periphery and awareness in people key to minimising it, experts

S. KRISHNA KUMAR

The recent instances of leopards entering human territory and creating panic among locals in different parts of the State underline an increase in human animal conflict owing to urban spread and unchecked destruction of wildlife habitats.

Two leopards being spotted in Bengaluru zone at an apartment complex at Nagar and another at Kengeri and eventually trapped, a leopard snatching a goat in a medical college staff quarters in Channarayana, and a big cat chasing its prey only to get trapped inside a toilet in Mangaluru - these are just some of the incidents reported in the past few days.

But experts insist that leopards always lived in these places before and it is the human intrusion into their territories that is the root of the problem. Leopards are being spotted more frequently as they are being forced to come out in search of prey, say experts.

Sanjay Gubbil, senior scientist, Nature Conservation Foundation, said the



Earlier this month, a leopard was trapped in a bathroom in a house in Bengaluru. Surprisingly, it left the place without injuring the dog.

predation of CCTV cameras and social media has brought them into the spotlight more often. He listed development activities in leopard habitats such as quarrying, mining, proliferation of industries, and infrastructure projects as the key drivers destroying habitats and adding to conflict situations.

In Channarayana, a leopard was in the news recently when a leopard walked into the building was built on a buffer forest zone, which is a leopard habitat.

## Survey findings

Dr. Gubbil and a team of only six wildlife biologists conducted a study, according to which 337 leopards were in conflict situations in the State between 2009 and 2019 and were translocated. A majority - 79% - of these conflicts were reported from Mysuru, Udupi, Hosur, Tumkur, Channarayana, and Mangaluru. Six years later, cases of conflict are being reported from three new areas with regularity.

In Mysuru, leopards have been spotted in industrial areas, captured and translocated, while their presence on the outskirts of the city and in villages are well documented. "We are constantly monitored with calls to capture a leopard because it was sighted somewhere in a village or killed a domestic animal. People panic when it is sighted even in Channarayana," said Dr. Gubbil.

Hills, which is a natural for leopard habitat, said Dr. Gubbil. He said that the Ministry of Environment, Forest and Climate Change indicated that Karnataka has the second highest number of leopards (1,253) in the country, after Madhya Pradesh (1,422).

## Leopard population

The figures were based on sampling in forested habitats in tiger range areas of the country. They did not include coffee and tea plantations, scrub jungles, and other landscapes known to support leopards.

Another study by wildlife scientist Sanjay Gubbil and his team, covering leopards across the State, projected the leopard population at around 2,500. Mr. Gubbil said habitat destruction was also leading to erosion of wild prey and hence, leopards were surviving on livestock, increasing instances of conflict.

## MSIL donates ₹1 cr to govt.

Mysuru Sales International Ltd. (MSIL) recently donated ₹1 crore to the Chief Minister's Relief Fund. According to an MSIL release, its chairman H. Halappa and MD H.P. Prakash handed over a cheque to Chief Minister K.S. Yeddyurappa in the presence of Minister for Large and Medium Industries Jagdish Shastri.

## Fee dilemma: Minister asks for suggestions

Alliance of schools seeks withdrawal of dept. order on fee reduction

A day after private schools threatened to stage a protest against the government's decision to reduce tuition fee, Primary and Secondary Education Minister

S. Suresh Kumar on Wednesday invited school management to come up with suggestions if they had any.

The department had issued an order laying private schools to collect only 70% of the tuition fee. The Minister said the decision was taken after consultation with all the stakeholders.

But they failed to arrive at any decision, following which the department convened a meeting and conveyed recommendations to the government.

Letter to Minister: The Alliance for Right to Learn, a group of 50 small private Central board and international schools, has written to Mr. Kumar urging him to withdraw the

order on fee. It said that the schools had already offered financial aid to parents of students. "With 2,500 students not being in a position to pay even 70% of the tuition fee, over ₹16.34 crore in tuition fee has been waived off collectively across the schools, which is an average of over 2% for each school. We have over 748 crore in outstanding fee," a release from the alliance stated.

**TAMIL NADU WATER SUPPLY AND DRAINAGE BOARD**  
General Manager, Water Supply, Chennai  
Notice No. 10/2021 dated 10/02/2021  
Subject: Tender for supply of 100mm HDPE pipes for the construction of 100mm diameter water supply lines in the area of ...  
Tender closing date: 15/02/2021 at 12.00 PM

**INDUSTRIAL PROMOTION AND INVESTMENT CORPORATION OF ODISHA LIMITED**  
(An ISO 9001:2008 Certified State Level Agency)  
Preparation of Benchmark criteria for allotment of Land, Power and Water to various categories of Steel Plant, Beneficiation Plant and Pulp Plant  
Proposals from eligible firms are invited for selection of a Consulting Agency. For tender details please visit [www.ipicoldisha.com](http://www.ipicoldisha.com). Last date for submission of proposals: 4<sup>th</sup> March 2021 by 03:00 PM

**Office of the Executive Engineer, PWD Division, Ballari**  
Tender Notification  
The Executive Engineer, Public Works Department District, Ballari invites the tenders for the work detailed in the table showing the scope of work to be executed by the contractor.  
Works Department, through e-procurement portal. Two cover tender procedure as per KTFP Act shall be followed. The tender documents can be downloaded from the website <http://www.karnataka.gov.in> from 15-02-2021 onwards. For any additional information the tenders may contact the office of the undersigned during office working hours.  
Note: Any changes either in tender dates or any other conditions, tenders can view in e-procurement portal TABLE

| Sl. No. | Details of Works  | Amount put to Tender (Rs. in Lakhs) |
|---------|---|-------------------------------------|
| 1       | 8443-Deposit Grants (Habitat MLA Local Area Development Scheme) | 94.00                               |
| 2       | KPWD-2020-21-BD-WORK, INDENT135510                              | 94.00                               |

The Tender Events are as under:  
1) Last date for queries through e-procurement portal: 22-02-2021 upto 12.00 Hours.  
2) Last date for submission of tenders through e-procurement portal: 25-02-2021 upto 16.00 Hours.  
3) Date and time of opening of Technical Bids: 26-02-2021 at 16.30 Hours in the office of the Executive Engineer, PWD Division, Ballari.  
Sd/- Executive Engineer, PWD Division, Ballari.  
DPR/Ballari/364/MCA/2020-21

**GOVERNMENT OF KARNATAKA**  
Public Works Department  
Executive Engineer PWD Division Chikodi  
Project No. 0033/2021  
Subject: Tender for supply of 100mm HDPE pipes for the construction of 100mm diameter water supply lines in the area of ...  
Tender closing date: 15/02/2021 at 12.00 PM

**GOVT OF KARNATAKA**  
OFFICE OF THE EXECUTIVE ENGINEER PWD DIVISION KALABURGI  
Sub-Extension of Time of Tender  
Ref: This Office tender notification No. EEPW/DIV/WD/KR/TS/Tender Notification/2020-21/6370 Dt: 04/02/2021  
Under this Office NT cited above, the tender of events for the indent no 133301 is extended as follows:  
1) Pre-Bid Meeting: 15-02-2021 (11.30 Hrs.) 2) Last date for submission of tenders: 15-02-2021 (17.30 Hrs.) 3) Last date for submission of tenders: 15-02-2021 (16.00 Hrs.) 4) Date of Opening of Technical Bids: 20-02-2021 (16.30 Hrs.) 5) Date of opening of Financial Bid: 20-02-2021 (11.30 Hrs.)  
Sd/- Executive Engineer, PWD Division Kalaburgi  
DPR/Kalaburgi/004/MCA/2020-21

**Karnataka Forest Department**  
Office of the Deputy Conservator of Forests  
Bangalore Urban Division, Aranya Bhavan Campus, 18th Cross, Malleshwaram, Bangalore-560003. Phone/Fax: 080-2343444 Email: [dcufbm2@yahoo.co.in](mailto:dcufbm2@yahoo.co.in)  
Public Notice  
This is to bring to your notice of all citizens of Bengaluru that Bangalore Metro Rail Corporation Limited (BMRL) had submitted the application to the undersigned for removal of trees in Vignapada Sy No 79 and Beniganahalli Village Sy No 52 & 83, for Road Widening works, area development for Bus Hub, Parking, Multifunctional integrative etc and synchronous Metro Station Entry/Exit structures. Details as given below:

| Name of the project  | Name of the Agency                       | Purpose for removal of trees  | Description of the area with clear demarcation of boundaries or with GPS readings   | Enumeration of trees  | Area  |
|--|--|---|---|---|---|
| Construction of Elevated Metro Project Balyapurnahalli to Whitefield including stations, Bangalore Metro Rail Corporation Ltd. Phase-3 | Bangalore Metro Rail Corporation Limited | Intending for Road Widening works, area development for Bus Hub, Parking, Multifunctional integrative etc and synchronous Metro Station Entry/Exit structures | Vignapada Sy No 79 and Beniganahalli Village Sy No 52 & 83<br>Bus Hub<br>12° 59' 42.2052" N 77° 39' 50.6922" E<br>12° 59' 44.6172" N 77° 39' 52.7672" E<br>Station Entry/Exit<br>12° 59' 48.7176" N 77° 40' 6.6942" E<br>12° 59' 48.8112" N 77° 40' 7.1232" E | 47 (Annex-I)<br>• Total no. of trees standing in the project area<br>42 (Annex-II)<br>• Total no. of trees proposed to be removed | Area Map etc are uploaded in the website of BMRL for information of all. ( <a href="http://www.bmrl.gov.in">www.bmrl.gov.in</a> ) |

Address: The Deputy Conservator of Forests, Bangalore Urban Division, Aranya Bhavan Campus, 18th Cross, Malleshwaram, Bangalore-560003. Email ID: [dcufbm2@yahoo.co.in](mailto:dcufbm2@yahoo.co.in)  
Deadline for filing objections: Ten (10) days from the date of Publication of this notification  
• Comments should be relevant and specific to the project  
In this background suggestions and objections invited from all citizens in terms of section 8(3) (vi) of The Karnataka Preservation of Trees Act 1976.  
Sd/- Deputy Conservator of Forests, Bangalore Urban Division, Bangalore

**SKMF Karnataka Cooperative Milk Producers' Federation Limited**  
KMF Complex: Dr. M. H. Mangalore Road, DRC Post, Bangalore-560 022.  
Tel: 080-25536825 / 25536789 fax: 080-25361005  
IFT No KMF/ENG/Hamul-Pet Bottle/HT cables & LTR works/2021-21 Date: 18-02-2021  
SHORT TERM TENDER NOTIFICATION  
(TWO COVER SYSTEM) (THROUGH E-PROCUREMENT PORTAL ONLY)  
Karnataka Milk Federation Ltd. Bangalore invites tender from the eligible suppliers/manufacturers through E-procurement for the works mentioned in the table below. The interested and reputed suppliers/manufacturers who have handled similar work may participate in the tender as indicated below by logging on to website [www.skmf.co.in](http://www.skmf.co.in) and also contact Help desk E-mail: [hpdesk@skmf.co.in](mailto:hpdesk@skmf.co.in) and helpline no. 080-35501227/25501216.

| Sl. No. | Name of the work   | Qty   | EMO (Rs)   | Period of completion |
|---------|--|-------|------------|----------------------|
| 1       | Supply & laying of 400Gmm HT UG Power cable along with 450mm RCC tube pipe including necessary civil works from HT Substation to Pet Bottle Plant at Hassan Milk Union premises - Hassan.      | 1 job | 1,00,000/- | 1 months             |
| 2       | Supply, initiation, testing & commissioning of automatic passengers lift (capacity 60 passengers) including necessary civil works for Pet Bottle Plant at Hassan Milk Union premises - Hassan. | 1 job | 45,000/-   | 2 months             |

1. Tender schedules may be downloaded from date: 11-02-2021 to 25-02-2021 up to 4.00 pm  
2. Last date for Tender submission on date: 25-02-2021 up to 4.00 pm  
3. Tender (Part 1) to be opened on date: 26-02-2021 at 4.30 pm.  
For Karnataka Milk Federation Limited  
Sd/- DIRECTOR (ENGG)

**GOVERNMENT OF KARNATAKA**  
Public Works Department  
Executive Engineer PWD Division Chikodi  
Project No. 0033/2021  
Subject: Tender for supply of 100mm HDPE pipes for the construction of 100mm diameter water supply lines in the area of ...  
Tender closing date: 15/02/2021 at 12.00 PM





### **Proceedings of Tree Officer & DCF, Bengaluru Urban**

Subject: Objections / Suggestions from the public regarding removal of 42 trees Near Vijinapura Survey No: 79 & Benniganahalli Village Sy No: 80 & 83 And Jyothipura Metro Station Entry Exit Structure Reach 1A, Bangalore Metro Rail project Phase 2-reg.

1. Case / Application No: BMRCL/ Dy.CE/R1A/Ph2/Trees/2021/4527
2. This office File No: A9.tree cutting/ BMRCL/CR-480/2020-21/2757

**Date: 20-03-2021**

1. Bangalore Metro Rail Corporation (BMRCL) had applied on 20.01.2021 under section 8(2) of the Karnataka Preservation of Trees Act (hence forth mentioned as the Act) seeking permission to removal of trees 42 Near Vijinapura Survey No: 79 & Benniganahalli Village Sy No: 80 & 83 And Jyothipura Metro Station Entry Exit Structure Reach 1A, Bangalore Metro Rail project Phase 2 the metro construction activities are in full swing like pile/pile cap foundations works.
2. A public notice was issued on 10.02.2021 as required under section 8(3)(vii) of the Act, inviting objections from the public within 10 days from the date of publication of the notice. The notice appeared in Vijaya Karnataka Newspaper on 11.02.2021. The details of the project area, total number of trees, total number of trees to be removed, GPS coordinates and physical details of those trees were also uploaded on the website bbmp.gov.in of BBMP to facilitate access to the relevant information by the public. These details were also made available in the office of the undersigned during the working office hours.
3. In response to the notice, we have not objections/Suggestions have received by email/post/by hand. Even though we have not received any objections/suggestions in all the cases of tree removal, the first attempt would be to translocation, as feasible and practical. Only thereafter, option of felling will be taken up. The extent of compensatory plantation would be in ratio 1:10
4. The suitability of each tree for translocation should be assessment through inspection of each tree and the findings along with these proceedings should be placed before the Tree Expert Committee.



Deputy Conservator of Forests  
Bengaluru Urban Division.

**Template 3****Part I**

**ABSTRACT OF REVIEW OF THE APPLICATION SUBMITTED BY  
USER AGENCY INCLUDING PRELIMINARY ASSESSMENT BY  
TREE OFFICER**

*(to be compiled as per details documented for each tree in Template No. 2 and  
to be submitted by Tree Officer to TEC on the day of TEC meeting)*

|  |  |                   |                   |
|--|--|-------------------|-------------------|
| <b>Name of the user agency</b>   | Bangalore Metro Rail Corporation limited   |                   |                   |
| <b>Purpose of the project</b>  | Construction of Metro rail Project Phase II  |                   |                   |
| <b>Extent of the project area</b>  | 2140.05 Sqm  |                   |                   |
| <b>Location of the project area</b>  | Jyothipuram Metro Station, Vijinapura, K R Puram, Bengaluru  |                   |                   |
|  | Bus Bay  | 12 ° 59' 42.2052" | 77° 39' 50.692" E |
|  |  | 12 ° 59' 44.6172" | 77° 39' 52.787" E |
|  | Station Entry/Exit   | 12 ° 59' 48.7176" | 77° 40' 6.694" E  |
|  |  | 12 ° 59' 48.8112" | 77° 40' 7.133" E  |
| <b>No. of tree(s) enumerated in the project area</b>   | 47 Trees   |                   |                   |
| <b>Number of tree(s) proposed for removal by user agency</b>   | 47 Trees   |                   |                   |
| <b>Number of tree(s) for on-site retention as per preliminary assessment by Tree Officer</b>               | 05 Trees   |                   |                   |
| <b>Number of tree(s) for transplantation / translocation as per preliminary assessment by Tree Officer</b> | 04 Trees   |                   |                   |
| <b>Number of tree(s) for felling as per preliminary assessment by Tree Officer</b>                         | 38 Trees   |                   |                   |
| <b>Summary of Proceedings* of consideration of objections received from public by Tree Officer</b>         | <p>-The Very Purpose of inviting Objections/Suggestions is to get the views of the stake holders in the organized manner and to consider them carefully while deciding the application. A public hearing is neither required as per the Law or the MOP formulated by TEC, nor it is practical. No objections have been received from the public.</p> <p>-The removal of Trees is necessary for the</p> |                   |                   |



|  |  |
|--|--|
|  | <p>construction of sustainable public transport system by the way of Metro system and the complementary roads and facilities for the other models of the transport</p> <p>-A change in metro alignment or other road infrastructure or carrying out the project without removal of trees is not feasible</p> |
|--|--|

\* Note: Full proceedings with details should be appended.

**Date:**



**RFO**

**Range Forest Officer**

**E.R. Pam Range, Bangalore.**



**Tree Officer**

**Tree Officer and  
Deputy Conservator of Forests  
Bangalore Urban Division,  
BANGALORE.**

**Submission of preliminary assessment by Tree Officer to Tree Expert Committee in respect of application number BMRCL/Dy.CE/R1A/Ph2/Trees/2021/4527 dated 20.01.2021 of BMRCL for removal of 42 trees Near Vijinapura Survey No:79 & Benniganahalli Village Sy No: 80 & 83 And Jyothipura Metro Station Entry Exit Structure Reach 1A, Bangalore Metro Rail project Phase 2-reg**

Ref: 1.Case / Application No: BMRCL Dy.CE/R1A/Ph2/Trees/2021/4527  
2. This office File No: A9.tree cutting/ BMRCL/CR-480/2020-21/2757

**Date: 26.03.2021**

To,  
The Member-Secretary  
Tree Expert Committee  
Bengaluru City  
&  
Assistant Conservator of Forests  
BBMP.

Sir,

1. Bangalore Metro Rail Corporation (BMRCL) had applied on 20.01.2021 under section 8(2) of the Karnataka Preservation of Trees Act (henceforth mentioned as the Act) seeking permission to removal of trees 42 Near Vijinapura Survey No: 79 & Benniganahalli Village Sy No: 80 & 83 and Jyothipura Metro Station Entry Exit Structure Reach 1A, Bangalore Metro Rail project Phase 2 the metro construction activities are in full swing like pile/pile cap foundations works.
2. A public notice in the Template-1 was issued on 10.02.2021 as required under section 8(3)(vii) of the Act, inviting objections from the public within 10 days from the date of publication of the notice. The notice appeared in Vijaya Karnataka Newspaper on 11.02.2021. The details of the project area, total number of trees, total number of trees to be removed, GPS coordinates and physical details of those trees were also uploaded on the website [www.bbmp.gov.in](http://www.bbmp.gov.in) of BBMP to facilitate access to the relevant information by the public. These details were also made available in the office of the undersigned during the working office hours.
3. In response to the notice, we have not received any objections/suggestions to the Metro Rail project.
4. I have also arranged to get the relevant information compiled and assessment of each tree carried out by the officers of Forest Department in the Template- 2 Part I for all the trees proposed to be removed.
5. Thereafter, all **42** trees were inspected personally by me on 19.03.2021 The concerned engineers of BMRCL in charge of the metro work in this area and the officers of the Forest Department accompanied me for the inspection. During the inspection, I had specifically verified, with assistance of the BMRCL engineers, location of each tree with reference to the project boundaries and the necessity of removal of the tree. While making that assessment I

have considered whether enough space as "tree protection zone" will be available, if a particular tree is to be retained at its present location.

6. During the inspection, I also carried out veracity of the information regarding assessment of each tree compiled by the officers of the Forest Department. Due attention was paid for proper assessment of the tree health / tree defects and general assessment as per proviso to section 8(3) of the Act.

7. For each tree I made a preliminary assessment regarding suitability, in order of priority, for its (i) on-site retention, (ii) translocation, and (iii) felling. The same was recorded in the Template 2 Part II for each tree.

8. After carrying out the above detailed inspection and the assessment, I have drawn up the proceedings of my consideration of the objections received from the public in response to the public notice. A set of the public notices, a complete set of the objections and a copy of the proceedings dated 20.03.2021 of my consideration are enclosed to this submission.

9. The "Tree Assessment Forms" with duly filled in Part I and Part II of the Template 2 for each tree proposed to be removed by the project authority, are enclosed to this submission. Total 47 number of Forms are enclosed.

10. A statement containing the tree details, preliminary assessment and justification for on-site retention/translocation / felling of 42 trees is enclosed as Annexure.-1. There are 5 trees in the project area which are not proposed to be removed by BMRCL. A list containing details of those 5 trees is also enclosed as Annexure-II for the record.

11. The BMRCL has provided the area/locations/sites of the translocation of the trees on 22.03.2021 along with the soil reports by UAS GKV University.

I. Lowry School Premises(Adjacent of K.R. Puram Metro Station).

These site is inspected by me on **23.03.2021** along with BMRCL representatives; with proper amendment application soil is suitable for tree shifting.

12. It is requested that the above information and the documents may kindly be placed before the Tree Expert Committee for consideration and appropriate opinion and recommendations at an early date.

Thanking you.



Tree Officer  
&  
Deputy Conservator of  
Forests, Bengaluru(Urban)  
Division.

**Annexure-I****Statement detailing the tree details, preliminary assessment and justification for / translocation / felling**

Case / Application No: **BMRCL/Dy.CE/R1A/Ph2/Trees/2021/4527** dated 20.01.2021

Project Area: **Vijinapura Survey No: 79 & Benniganahalli Village Sy No: 80 & 83 And Jyothipura Metro Station Entry Exit Structure Reach 1A, Bangalore Metro Rail project Phase 2-reg.**

| Sl. No | Tree No. | Species Name | GBH (m) | Height (m) | Crown Spread (m) | Preliminary Assessment (On-site Retention /Translocation/ Felling) | Justification  |
|--------|----------|--------------|---------|------------|------------------|--|--|
| 1      | 01       | Rain tree    | 2.43    | 9.00       | 14.00            | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential. |
| 2      | 02       | Rain tree    | 1.05    | 9.00       | 6.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential. |
| 3      | 03       | Rain tree    | 1.29    | 9.00       | 9.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential. |
| 4      | 04       | Rain tree    | 1.61    | 9.00       | 13.00            | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential. |
| 5      | 05(A)    | Rain tree    | 1.17    | 10.00      | 6.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation                             |

| Sl. No | Tree No. | Species Name | GBH (m) | Height (m) | Crown Spread (m) | Preliminary Assessment (On-site Retention /Translocation/ Felling) | Justification  |
|--------|----------|--------------|---------|------------|------------------|--|--|
|        | 05(B)    |              | 1.39    | 10.00      | 5.00             |  | hence felling is essential.  |
| 6      | 06       | Rain tree    | 1.19    | 9.00       | 7.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential.       |
| 7      | 07       | Rain tree    | 1.30    | 10.00      | 10.00            | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential.       |
| 8      | 08(A)    | Ashoka       | 0.89    | 4.00       | 3.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential.       |
|        | 08(B)    |              | 0.75    | 4.00       | 3.00             |  |  |
| 9      | 09(A)    | Ashoka       | 0.61    | 9.00       | 2.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential.       |
|        | 09(B)    |              | 0.49    | 9.00       | 1.00             |  |  |
| 10     | 10       | Hebbevu      | 0.40    | 2.50       | 0.50             | Translocation  | The tree is located in BMRCL project activity area. root system supports transplantation hence Transplantation is recommended. |
| 11     | 11       | Ashoka       | 1.01    | 8.00       | 2.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential..      |

| Sl. No | Tree No. | Species Name | GBH (m) | Height (m) | Crown Spread (m) | Preliminary Assessment (On-site Retention /Translocation/ Felling) | Justification  |
|--------|----------|--------------|---------|------------|------------------|--|--|
| 12     | 12       | Ashoka       | 0.64    | 8.00       | 1.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential.       |
| 13     | 13       | Rubber fig   | 0.94    | 8.00       | 6.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential.       |
| 14     | 14       | Bevu         | 0.51    | 4.00       | 2.50             | Translocation  | The tree is located in BMRCL project activity area. Root system supports transplantation hence Transplantation is recommended. |
| 15     | 15(A)    | Arali        | 1.90    | 10.00      | 5.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential.       |
|        | 15(B)    |              | 2.00    | 10.00      | 5.00             |  |  |
|        | 15(C)    |              | 1.80    | 10.00      | 1.00             |  |  |
|        | 15(D)    |              | 1.70    | 10.00      | 3.00             |  |  |
|        | 15(E)    |              | 1.60    | 10.00      | 6.00             |  |  |
|        | 15(F)    |              | 1.50    | 10.00      | 3.00             |  |  |
| 16     | 16       | Banni mara   | 0.92    | 6.00       | 5.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation                                   |

| Sl. No | Tree No. | Species Name | GBH (m) | Height (m) | Crown Spread (m) | Preliminary Assessment (On-site Retention /Translocation/ Felling) | Justification  |
|--------|----------|--------------|---------|------------|------------------|--|--|
|        |          |              |         |            |                  |  | hence felling is essential.  |
| 17     | 17       | Palm         | 0.62    | 7.00       | 2.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential. |
| 18     | 18       | Rain tree    | 1.33    | 8.00       | 8.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential. |
| 19     | 19       | Palm         | 1.75    | 3.50       | 2.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential. |
| 20     | 20       | Atthi        | 0.90    | 5.00       | 4.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential. |
| 21     | 21       | Tecoma       | 0.85    | 5.00       | 5.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential. |
| 22     | 22       | Tecoma       | 0.67    | 4.00       | 4.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential. |
| 23     | 23(A)    | Tecoma       | 0.69    | 3.50       | 3.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation                             |



| Sl. No | Tree No. | Species Name | GBH (m) | Height (m) | Crown Spread (m) | Preliminary Assessment (On-site Retention /Translocation/ Felling) | Justification  |
|--------|----------|--------------|---------|------------|------------------|--|--|
|        | 23(B)    |              | 0.58    | 3.50       | 3.00             | Felling  | hence felling is essential.  |
| 24     | 24       | Holedasavala | 0.60    | 3.50       | 2.50             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential. |
| 25     | 25       | Karijalli    | 1.02    | 5.00       | 5.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential. |
| 26     | 26       | Arali        | 1.30    | 8.00       | 3.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential. |
| 27     | 27✓      | Rain tree    | 1.15    | 7.00       | 8.00             | On-Site Retention  | The tree doesn't comes under construction activity area so the tree can be retained.                                     |
| 28     | 28       | Tecoma       | 0.81    | 5.00       | 2.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential. |
| 29     | 29       | Tecoma       | 0.48    | 5.00       | 1.50             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential. |
| 30     | 30       | Tecoma       | 0.60    | 3.50       | 2.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential. |



| Sl. No | Tree No. | Species Name | GBH (m) | Height (m) | Crown Spread (m) | Preliminary Assessment (On-site Retention /Translocation/ Felling) | Justification  |
|--------|----------|--------------|---------|------------|------------------|--|--|
| 31     | 31       | Holedasavala | 0.58    | 3.50       | 3.00             | On-Site Retention  | The tree doesn't comes under construction activity area so the tree can be retained.   |
| 32     | 32       | Tecoma       | 0.58    | 3.50       | 2.50             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential.       |
| 33     | 33       | Tecoma       | 0.74    | 5.00       | 1.50             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential.       |
| 34     | 34(A)    | Honge mara   | 0.70    | 4.00       | 3.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential.       |
|        | 34(B)    |              | 0.80    | 5.00       | 3.00             |  |  |
| 35     | 35(A)    | Honge mara   | 0.78    | 5.00       | 4.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential.       |
|        | 35(B)    |              | 0.48    | 5.00       | 2.00             |  |  |
| 36     | 36       | Teak         | 0.55    | 5.00       | 2.00             | Translocation  | The tree is located in BMRCL project activity area. root system supports transplantation hence Transplantation is recommended. |
| 37     | 37       | Nerale       | 0.68    | 6.00       | 4.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential.       |

| Sl. No | Tree No. | Species Name | GBH (m) | Height (m) | Crown Spread (m) | Preliminary Assessment (On-site Retention /Translocation/ Felling) | Justification  |
|--------|----------|--------------|---------|------------|------------------|--|--|
| 38     | 38       | Ashoka       | 0.96    | 8.00       | 4.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential.               |
| 39     | 39       | Bilvapatre   | 0.79    | 5.00       | 4.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential.               |
| 40     | 40       | Banni        | 0.98    | 8.00       | 5.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential.               |
| 41     | 41       | Mango        | 0.45    | 3.00       | 2.00             | Translocation  | The tree is located in BMRCL project activity area. root system supports transplantation hence <b>Transplantation is recommended..</b> |
| 42     | 42 ✓     | Tecoma       | 0.61    | 3.00       | 2.50             | On-Site Retention  | The tree doesn't come under construction activity area so the tree can be retained.  |
| 43     | 43 ✓     | Rain tree    | 1.91    | 9.00       | 12.00            | On-Site Retention  | The tree doesn't come under construction activity area so the tree can be retained.  |
| 44     | 44 ✓     | Tecoma       | 0.56    | 4.50       | 2.00             | On-Site Retention  | The tree doesn't come under construction activity area so the tree can be retained.  |
| 45     | 45(A)    | Tecoma       | 0.62    | 4.50       | 1.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential.               |
|        | 45(B)    |              | 0.52    | 4.50       | 1.00             |  |  |

| Sl. No | Tree No. | Species Name | GBH (m) | Height (m) | Crown Spread (m) | Preliminary Assessment (On-site Retention /Translocation/ Felling) | Justification  |
|--------|----------|--------------|---------|------------|------------------|--|--|
| 46     | 46       | Aala         | 5.30    | 8.00       | 15.00            | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential. |
| 47     | 47(A)    | Arali        | 0.62    | 11.00      | 4.00             | Felling  | The tree is located in project activity area. Root system does not qualifies transplantation hence felling is essential. |
|        | 47(B)    |              | 0.71    | 11.00      | 5.00             |  |  |
|        | 47(C)    |              | 0.41    | 11.00      | 5.00             |  |  |

**Summary.**

|   |           |
|---|-----------|
| <b>Total No of Trees Standing in Project Area</b> | <b>42</b> |
| <b>Total No of Trees for Felling</b>              | <b>38</b> |
| <b>Total No of Trees for Translocation</b>        | <b>04</b> |

  
 Deputy Conservator of Forest  
 Bengaluru (Urban) Division.

**Proceedings of Tree Expert Committee Meeting  
dated 02.07.2021 in respect of review of BMRCL Application,  
finding on Objections and Preliminary Assessment of trees by Tree Officer**

**Application No.** BMRCL/Dy.CE/R1A/Ph-2/Trees//2021/4527 dtd 20.01.2021

**Project Area:** Jyothipura Metro Station, Vijinapura, Bengaluru

1. The Tree Officer and Deputy Conservator of Forests, Bengaluru Urban Division vide his letter No. A9.tree cutting/BMRCL/CR-480/2020-21/2757 dated 26.03.2021 has submitted his preliminary assessment of trees related to application filed by BMRCL pertaining to 47 number of trees standing at the proposed **Jyothipura Metro Station Area, Vijinapura, Bengaluru**, of the Metro Project. The submission is accompanied by following documents.
  - a. A copy of the application dated 20.01.2021 from BMRCL along with details and map of the area and details of trees including GPS coordinates.
  - b. The public notice dated 09.02.2021 issued by the Tree Officer & DCF, Bangalore Urban Division, a complete set of the objections/suggestions from the public and a copy of the proceedings dated 20.03.2021 of the Tree Officer regarding consideration of the objections/suggestions as per Section 8(3)(vii) of the Karnataka Preservation of Trees Act, 1976 (Henceforth referred as KPT Act).
  - c. Tree Assessment Forms in Template 2 with Part I (dated 18.03.2021) containing tree details as furnished by Range Forest Officer and Part II (dated 19.03.2021) containing preliminary assessment of the Tree Officer for each of 47 trees proposed for removal by BMRCL.
  - d. Abstract of the review of the BMRCL application and preliminary assessment of trees by the Tree Officer in Template 3 Part I.
  - e. A statement prepared by Tree Officer showing the tree details along with preliminary assessment and justification for on-site retention/translocation/felling of trees.

The very purpose of issue of Public Notice provides a structured way of obtaining concerns / objections of the public and to consider them carefully.

2. The application was reviewed by the Tree Expert Committee (mentioned as TEC henceforth) in its meeting held on 02.07.2021. The TEC also considered the objections/suggestions received from the public, remarks and findings of the Tree Officer in respect of each objection, and proceedings dated 20.03.2021 of the Tree Officer regarding consideration of those objections.
3. The TEC observed that no objection/suggestion has been received in response to the public notice. Generally regarding this matter, the Tree Officer responded that adequate number of saplings will be

planted under compensatory afforestation and its proper maintenance will be taken care of. The TEC concurred with the replies furnished by the Tree Officer.

4. The Chief Engineer, Social and Environment Management Unit (SEMU), BMRCL and concerned Engineers of the project area were present during the meeting. They were asked to make a presentation regarding the project details, necessity for removal of the trees given the project alignment, possibility of retaining the trees while carrying out the project construction.

He emphasized that Metro Project being a mass rapid transit system, seeks to setup a convenient, efficient, safe and sustainable mode of public transport. Its benefits include a shift from private modes of transport to public transport, and thereby a significant reduction in use of private vehicles, other things remaining unchanged. Such modal shift is estimated to have a significant reduction in pollution in the project area. (Reference: "Note on Potential Reduction in Pollution" based on iDeCK's study on "Economic Analysis for 2A and 2B Corridors of Bangalore Metro" Annexure-6)


5. The TEC considered the Abstract of the Review of the Application by the Tree Officer and his preliminary assessment in Template 3 Part I. The Committee noted from the detailed statement containing tree details and preliminary assessment/justification, the following recommendations made by the Tree Officer.

|  |    |
|--|----|
| Total number of Trees assessed in the project area           | 47 |
| Total number of Trees assessed for on-site retention         | 05 |
| Total number of Trees assessed as suitable for translocation | 04 |
| Total number of Trees for felling                            | 38 |

6. The TEC also perused the preliminary assessment of each tree in Part-I & II of Template 2. The TEC noted that the Tree Officer has personally inspected each tree before forming his preliminary assessment.

The TEC decided to visit the project area and scheduled the field inspection for 05.07.2021.

The Tree Officer and the Representatives of BMRCL were asked to be present at the project area at the time of field inspection along with all necessary documents.

  
Member-Secretary, TEC &  
Assistant Conservator of Forests,  
Bruhat Bengaluru Mahanagara Palike  
Bengaluru

**Part II**

*(to be prepared in compliance to Step 6 of the Memorandum of Procedure of TEC)*

**Remarks\* of TEC on the day of TEC meeting:**

(\* Note: including those on objections received in response to the public notice)

The replies and proceedings prepared by the Tree Officer in response to the objections /suggestions/remarks arising out of public notice were read before the Committee. The Tree Officer has considered the said objections/suggestions/remarks falling within the purview and powers vested with him. Regarding technical aspect, the matter was referred to the BMRCL authorities by the Tree Officer. They have responded and their remarks have been mentioned in the annexed sheet of the Tree Officer's proceedings.


After due deliberations, the Tree Expert Committee has directed the Tree Officer to initiate action for the observations/suggestions/remarks falling within the powers vested with him and for the remaining observations/suggestions/remarks related to matters other than trees, the same can be communicated to the Project Authority/Competent Authority for perusal and further action.

The Tree Assessment Forms submitted by the Tree Officer were also perused.

The Tree Expert Committee decided to conduct the detailed spot inspection of the area.

[TEC Meeting Proceedings also attached].

Date: 02/7/21

  
Member Secretary of TEC &  
Assistant Conservator of Forests  
BBMP, Bangalore.





**Proceedings of Tree Expert Committee regarding Field Inspection  
of trees existing at Jyothipura Metro Station area, Vijinapura, pertaining  
to Reach-1A Corridor extending from Biayappanahalli Station (excl.)  
to Visvesvaraya Industrial Area Station of Metro Rail Project, Phase - 2**

**Application No.** BMRCL/Dy.CE/R1A/Ph-2/Trees//2021/4527 dtd 20.01.2021

**Project Area:** Jyothipura Metro Station, Vijinapura, Bengaluru

1. In obedience to the orders of Hon'ble High Court of Karnataka and in furtherance of the earlier meeting proceedings (dtd 02.07.2021), the field inspection for assessment of trees standing in the Metro Rail Project Area at Jyothipura Metro Station, Vijinapura, pertaining to Reach-1A, Phase – 2 Corridor extending from Biayappanahalli Station (excl.) to Visvesvaraya Industrial Area Station of Metro Rail Project, was carried out by the TEC on 05.07.2021. The Tree Officer and the Representatives of BMRCL were present at the site.
2. The following activities were carried out by the TEC for each tree assessed.
  - i. Physical verification of the tree number and the associated information collected by the Forest Department Officers in Template 2 Part I, including tree health / tree defects and general assessment.
  - ii. Confirmation regarding those trees being inside the project construction area.
  - iii. Discussion with BMRCL Representatives to explore possibility of carrying out the construction without removal of trees, and identification of those trees which can be retained on-site.
  - iv. Review of preliminary assessment made by the Tree Officer in the Template 2 Part II.
  - v. Assessment of the general conditions of the trees to decide the feasibility of tree translocation in the event of retention-on-site not possible.
3. The Committee in its above set of activities was guided by the detailed procedure and prioritization formulated in Step 7 of the Memorandum of Procedure (MOP).
4. The Committee carried out the thorough and multipronged scrutiny of all the trees to make its recommendations regarding:
  - a) Trees which could be saved by retaining on-site as it is;
  - b) Trees which should be translocated depending upon their general condition as assessed and ecological importance, in the event of (a) above not being possible;



- c) Trees recommended for removal in the event of (a) and (b) not being possible including the trees which are silviculturally matured or softwood trees and trees suffering from defects / damages.
5. During the field visit, the Committee observed and felt that the BMRCL Jyothipuram Metro Station Project has two components viz.,
- Construction of Metro Station Entry & Exit;
  - Construction of Bus Hub;

Both these segments are separated by a distance of almost 400 mtrs.

The following abstract shows number of trees standing at each of the two segments:

| Name of Construction Segment | Tree Nos.  |
|------------------------------|--|
| Metro Station Entry & Exit   | 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16 – <b>Total 16 trees</b>   |
| Bus Hub                      | 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47 – <b>Total 31 trees</b> |

6. **On-site Retention:** The TEC identified 15 trees (07 Nos of trees at Construction of Metro Station Entry & Exit + 08 Nos. of trees at Construction of Bus Hub) though standing in the project area but not hindering the project activities, can be retained-on-site.
7. As verified during the field inspection, the remaining 32 trees which will have to be suggested for translocation and felling are falling within the following physical features of the Project.

| Physical Features            | Tree Numbers   |
|------------------------------|--|
| Metro Station Entry and Exit | 01, 02, 03, 04, 05, 06, 07 - <b>Total 07 Nos.</b>  |
| Pile Cap BP - 47             | 14, 15 – <b>Total 02 Nos</b>   |
| Construction of Bus Hub      | 17, 19, 20, 21, 22, 23, 24, 25, 26, 28, 29, 30, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 45 – <b>Total 23 Nos</b> |

Since these 32 trees are standing right in the construction activity area and hindering the project activities, their removal becomes inevitable.

8. The next consideration for the Committee was to identify the trees out of the above 32 trees standing in the Construction Zone which are fit for translocation. While making recommendations for translocation of the trees, the Committee considered the following conditions, in addition to the tree health / tree defects etc., recorded in the Template 2 Part I.

- i. Proximity of tree to building structures, trunks proximity to the cement / concrete or tarred surface.
  - ii. The trees having below mentioned characteristics did not qualify for translocation.  
Trees having forked trunk, major wounds on the trunk, debarking, physical damage on the bark, scar due to fire, damage (girdling), rotting due to fungal infection (fruiting bodies of fungus, rotten core, hollowness) or pest infestation (presence of holes and frass as evidence of insect infestation), and dead / dried major branches, etc.
  - iii. Other aspects of species viz., economically important species, species that could provide food (nectar, pollen, seeds and fruits) and nesting sources (materials and site) to various fauna.
5. For the trees having the potential for translocation, availability of effective zone to extract the root-ball of sufficient size was also assessed. The trees in the above category (ii) and those without adequate effective zone to extract the root-ball were specifically not recommended for the translocation.
  6. Lastly the trees, which could neither be retained-on-site nor translocated, were recommended for felling as a last resort.
  7. The assessment with justification for each tree was recorded as stipulated in Part-III of Template 2.
  8. Following is the summary of recommendations of the Committee as recorded in the Template 2 Part III.

Total number of Trees standing in the Jyothipuram Metro Station Project area – 47

| Particulars   | Jyothipura Metro Station |                 | Total |
|---|--------------------------|-----------------|-------|
|   | Entry & Exit Segment     | Bus Hub Segment |       |
| Total number of Trees examined/observed                 | 16                       | 31              | 47    |
| Total number of Trees recommended for on-site retention | 07                       | 08              | 15    |
| Total number of Trees found suitable for translocation  | 01                       | 07              | 08    |
| Total number of Trees for felling                       | 08                       | 16              | 24    |

9. A statement containing recommendations and justification along with the tree details is appended to these proceedings.
10. **Assessment of areas for Translocation:** Having completed the above assessment of trees at the project area, the Committee visited the following area proposed by BMRCL and recommended by

the Tree Officer for translocation of 08 trees (Tree Nos. 14, 19, 20, 24, 26, 34, 36 & 41) to assess the land suitability.

*Along the boundary wall of the K R Puram Metro Station, Adjacent to Lowry School Compound, K R Puram, Bengaluru – 560 048*


It was informed that the area available for translocation of trees will be about 640 Sq Mtr along the boundary wall.

11. The Committee reviewed the soil test analysis report, of the above K R Puram Metro Station site, as prepared by Department of Soil Science and Agricultural Chemistry, UAS, GKVK, Bangalore and recommended by the Tree Officer and DCF, with the following inference:

*“The Three soil samples provided for analysis are alkaline in nature, low organic carbon content and contain low to medium quantities of major nutrients (N,P,K as per standards) and all other parameters vary from medium to high range as per standards. Therefore with proper amendment application soil is suitable for tree shifting”.*

The TEC examined the recommendation of the Tree Officer, Bengaluru Urban Division on the basis of report of UAS, Bangalore with respect to land suitability for translocation of trees.

14. Regarding details of the Translocation of Trees process, the TEC directed the DCF, Bengaluru Urban Division and BMRCL to submit the precise locations of the proposed areas of translocation and specific receptor site coordinates where the trees have to be translocated at the above proposed translocation area.
12. In pursuance to the instructions as mentioned in KPT Act 1976, BMRCL should take up Compensatory afforestation by planting of 320 saplings @ 10 saplings for each of 32 trees to be translocated/felled.

  
Member - Secretary, TEC &  
Assistant Conservator of Forests,  
Bruhat Bengaluru Mahanagara Pallike,  
Bengaluru.

## Annexure 6

|                   |   |  |
|-------------------|---|--|
| Present Location  | : | Jyothipuram Metro Station Entry Exit Structure and Bus Hub   |
| Proposed Location | : | Along the boundary wall of K R Puram Metro Station, Adjacent to Lowry School Compound Wall, K R Puram, Bengaluru<br>[Map 1 Showing Coordinates (Attached)] |
| Extent            | : | 640 Sq Mtrs  |
| West Side         | : | K R Puram Metro Station  |
| East Side         | : | Hyundai Showroom   |
| North Side        | : | K R Puram Metro Station Entry Exit   |
| South Side        | : | Lowry College  |

### Statement showing the specific receptor details for each tree to be translocated

| SL No | Tree No | Species       | GBH (m) | Height (m) | Present Location of Trees<br>{Latitude(N)/<br>Longitude(E)} | Proposed Translocation<br>area with boundary<br>coordinates  | Proposed Receptor Site<br>Coordinates for Tree<br>Translocation<br>{Latitude(N)/<br>Longitude(E)} |                   |
|-------|---------|---------------|---------|------------|---|--|---|-------------------|
| 01    | 14      | Neem Tree     | 0.51    | 4.0        | 12° 59' 49.3215" N/<br>77° 40' 7.3352" E                    | Along KR Puram Metro Station Boundary Wall, Adjacent to Lowry School Compound, K R Puram, Bengaluru<br><br>Extent: 0.06 Ha<br><br>A. 12° 59' 59.7228" N/77° 40' 43.565" E<br><br>B. 12° 59' 59.8344" N/77° 40' 46.049" E<br><br>C. 12° 59' 59.5752" N/77° 40' 46.063" E<br><br>D. 12° 59' 59.4636" N/77° 40' 43.579" E | 12° 59' 59.5572" N  | 77° 40' 43.817" E |
| 02    | 19      | Palm Tree     | 1.75    | 3.5        | 12° 59' 43.7930" N/<br>77° 39' 55.8177" E                   |  | 12° 59' 59.5752" N  | 77° 40' 44.083" E |
| 03    | 20      | Atthi         | 0.90    | 5.0        | 12° 59' 43.7427" N/<br>77° 39' 55.9830" E                   |  | 12° 59' 59.5968" N  | 77° 40' 44.346" E |
| 04    | 24      | Hole Dasavala | 0.60    | 2.5        | 12° 59' 43.8321" N/<br>77° 39' 54.0831" E                   |  | 12° 59' 59.6148" N  | 77° 40' 44.612" E |
| 05    | 26      | Peepal Tree   | 1.30    | 8.0        | 12° 59' 43.5742" N/<br>77° 39' 53.6133" E                   |  | 12° 59' 59.5968" N  | 77° 40' 44.879" E |
| 06    | 34 A    | Honge         | 0.70    | 4.0        | 12° 59' 43.1108" N/<br>77° 39' 53.9067" E                   |  | 12° 59' 59.6148" N  | 77° 40' 45.145" E |
|       | 34B     |               | 0.80    | 5.0        |   |  | 12° 59' 59.6328" N  | 77° 40' 45.433" E |
| 07    | 36      | Teak          | 0.55    | 5.0        | 12° 59' 42.9842" N/<br>77° 39' 53.7407" E                   |  | 12° 59' 59.6544" N  | 77° 40' 45.674" E |
| 08    | 41      | Mango         | 0.45    | 3.0        | 12° 59' 42.5023" N/<br>77° 39' 53.4384" E                   |  | 12° 59' 59.5572" N  | 77° 40' 43.817" E |

  
 Member Secretary of TEC &  
 Assistant Conservator of Forests  
 BBMP, Bangalore.

(45)





## 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

BMRCL/Dy.CE/R1A/Ph2/Trees/2021/4527

Date: 20.01.2021

To,  
**Deputy Conservator of Forest (Tree Officer)**  
Bangalore Urban Division,  
Aranya Bhavan Annex, 18<sup>th</sup> Cross.  
Maaleshwaram, Bengaluru - 560003

**Project:-** Construction of elevated structures (viaduct & stations) of length 8.039Km (Approx.) from Baiyappanahalli station (excl.) to Visvesvaraya Industrial Area Station (incl.) (Chainage 18603.879m to 26643.032m) including Road Widening & allied works and 6 Numbers of Elevated Metro stations viz., Jyothipuram, K.R. Puram, Mahadevapura, Garudacharpalya, Doddanakundi Industrial Area, Visvesvaraya Industrial Area in the Extension of East side of E-W Corridor of Bangalore Metro Rail Project, Phase-2

**Subject:** Removal of trees near Vijinapura Survey No. 79 & Benniganahalli Village Survey No.80 & 83 and Jyothipura Metro station Entry Exit Structure Reach 1A, Bangalore Metro Rail Project Phase 2 - reg

**Ref 1)** Karnataka Preservation of trees rules, 1977/ Form I Dated; 20.01.2021

Bangalore Metro Rail Corporation is carrying out elevated construction works from Baiyapanahalli Metro Station to White Field Metro Station of 15.23 Kms. The Metro Construction activities are in full swing in this reach.

BMRCL is proposed to take up road widening works and Bus Hub near Vijinapura Survey No. 79 and Benniganahalli Village Survey No. 80&83 and Station Entry/Exit structures for Jyothipura Metro Station. A total number of 47 trees are standing in the project area of which 42 numbers are infringing the construction work, which are essential to be removed.

These trees could not be included in the earlier application number BMRCL/Dy.CE/R1A/Ph2/Trees/2020/4320 Date; 20/11/2020 due to non-acquisition of this land and pending finalisation of detailed plan of this area.

It is requested to grant permission to remove the trees as the works of the Metro Rail Project in this reach is affected.

Thanking you

**Deputy Chief Engineer**  
**Engineer/R1A/BMRCL**

**THE KARNATAKA PRESERVATION OF TREES RULES, 1977**

**FORM NO.I**

**Form of Application**

**Date: 20.01.2021**

**From,**

**Engineer (Reach R1A)  
BMRCL Project Office  
Krishnan Palya Road  
Near ESI Local Office  
Baiyapanahalli, Bengaluru – 560038**

**To,**

**The Deputy Conservator of Forests (The Tree Officer),  
Annex Building, BBMP Office  
Hudson Circle,  
Bengaluru – 560002**

**Sir,**

**BMRCCL intend to clear the trees infringing the Metro construction works and bus bay construction works. The details of the infringing trees are enclosed for further necessary action.**

|           |  |  |
|-----------|--|--|
| <b>01</b> | Sy.No. and extent of the land from which the trees are to be felled.   | Vijinapura Survey No.79 and Benniganahalli Village Survey No. 80 & 83                                    |
| <b>02</b> | Location of the Sy.No. with Sy.sketch  | Vijinapura Survey No.79 and Benniganahalli Village Survey No. 80 & 83 and Jyothipuram Metro Station      |
| <b>03</b> | Whether the boundary of Sy.No. is clear and demarcated properly on the ground.   | YES  |
| <b>04</b> | The number and kind of trees intended to be felled with girth of each tree (detailed list to be attached).<br>a. Number of Trees Standing in the Project Area<br>b. Number of Trees proposed to be removed | 47 (Annexure I)<br>42 (Annexure II)  |
| <b>05</b> | The purpose for which the trees are to be felled (specific mention to be made about the purpose)   | Infringing the Metro construction works and bus bay construction works from Baiyapanahalli to Whitefield |

|    |   |    |
|----|---|----|
| 06 | Khata extract and Certificate from the Tahasildar regarding the tenure of the Land (Hiduvali, Darkhast, Inam, Lease, Coffee/Cardamum, Malki, Bane and so on and whether the tree growth is redeemed or unredeemed) and the right over the Land and Tree growth.   | NA |
| 07 | Whether any tree proposed to be felled is reserved to Government, if so, details may be give.   | NA |
| 08 | Whether unconditional consent of the other owners having share in the right to land and the trees if any is obtained (Proof thereof to be enclosed).  | NA |
| 09 | Whether the license or certificate in respect of the following is enclosed in case the purpose of felling is for;<br>(i) Coffee cultivation certificate from Coffee Board<br>(ii) Rubber Cultivation - Certificate from Rubber Board.<br>(iii) Cardamum Cultivation- Certificate from Cardamum Board.<br>(iv) For construction of building Certificate from Village Panchayat or Executive Officers of the Municipality as the case may be. | NA |

I/We therefore, request you to accord permission for clearance of trees infringing **Metro Station construction works and bus bay construction works** from Sy.No. mentioned above.

I/We am/are prepared to furnish other particulars if any require and demanded by the' tree Officer in this regard during the course of enquiry.

I/We agree to abide by the provision of the Karnataka Preservation of Trees Act, 1976 and the Karnataka Forest Act, 1963 and the Rules made thereunder and such other conditions that may be imposed by the Tree Officer.

I/We do hereby agree to indemnify Government of Karnataka against any loss or damage caused on account of permission accorded to me by the Tree Officer based on erroneous or wrong information furnished by me.

Yours Faithfully,

  
Deputy Chief Engineer  
Reach 1A, BMRCL



# **NUMBER OF TREES STANDING IN THE PROJECT AREA (For Bus Hub near Benniganahalli Lake Bund and Jyothipura Metro Station Entry/Exit Structure)**

| SL. NO  | New Tree No. | Tree Name          | Girth of tree @ 1.37m height (m) | Full Height of Tree by Visual Inspection (m) | Easting (m) | Northing (m) | Latitude (N)       | Longitude (E)      | Remarks         |
|---|--------------|--------------------|----------------------------------|--|-------------|--------------|--------------------|--------------------|-----------------|
| 01  | 01           | Subabul Tree       | 0.42                             | 4.00   | 789483.320  | 1438348.494  | 12° 59' 50.0967" N | 77° 40' 6.9199" E  |                 |
| 02  | 02           | Rain Tree          | 2.43                             | 9.00   | 789484.289  | 1438352.009  | 12° 59' 50.2107" N | 77° 40' 6.9533" E  |                 |
| 03  | 03           | Rain Tree          | 1.05                             | 9.00   | 789488.639  | 1438352.296  | 12° 59' 50.2185" N | 77° 40' 7.0976" E  |                 |
| 04  | 04           | Rain Tree          | 1.29                             | 9.00   | 789489.130  | 1438350.186  | 12° 59' 50.1497" N | 77° 40' 7.1132" E  |                 |
| 05  | 05           | Rain Tree          | 1.61                             | 9.00   | 789494.400  | 1438350.317  | 12° 59' 50.1522" N | 77° 40' 7.2880" E  |                 |
| 06  | 6A           | Rain Tree          | 1.17                             | 10.00  | 789494.274  | 1438354.099  | 12° 59' 50.2752" N | 77° 40' 7.2851" E  |                 |
|   | 6B           |                    | 1.39                             | 10.00  |             |              |                    |                    |                 |
| 07  | 07           | Rain Tree          | 1.19                             | 9.00   | 789500.645  | 1438354.251  | 12° 59' 50.2780" N | 77° 40' 7.4965" E  |                 |
| 08  | 08           | Rain Tree          | 1.30                             | 10.00  | 789506.475  | 1438352.487  | 12° 59' 50.2187" N | 77° 40' 7.6892" E  |                 |
| 09  | 9A           | Haale Tree         | 0.21                             | 2.50   | 789501.871  | 1438345.245  | 12° 59' 49.9847" N | 77° 40' 7.5340" E  |                 |
|   | 9B           |                    | 0.17                             | 2.50   |             |              |                    |                    |                 |
| 10  | 10           | Haale Tree         | 0.10                             | 2.50   | 789497.188  | 1438344.544  | 12° 59' 49.9635" N | 77° 40' 7.3784" E  |                 |
| 11  | 11           | Ashoka             | 0.64                             | 8.00   | 789523.836  | 1438325.145  | 12° 59' 49.3236" N | 77° 40' 8.2554" E  |                 |
| 12  | 12           | Phycus Alba        | 0.94                             | 8.00   | 789520.993  | 1438323.790  | 12° 59' 49.2805" N | 77° 40' 8.1606" E  |                 |
| 13  | 13           | Neem Tree          | 0.51                             | 4.00   | 789496.091  | 1438324.788  | 12° 59' 49.3215" N | 77° 40' 7.3352" E  |                 |
| 14  | 14A          | Peepal Tree        | 1.90                             | 10.00  | 789494.408  | 1438324.231  | 12° 59' 49.3039" N | 77° 40' 7.2792" E  |                 |
|   | 14B          |                    | 2.00                             | 10.00  |             |              |                    |                    |                 |
|   | 14C          |                    | 1.80                             | 10.00  |             |              |                    |                    |                 |
|   | 14D          |                    | 1.70                             | 10.00  |             |              |                    |                    |                 |
|   | 14E          |                    | 1.60                             | 10.00  |             |              |                    |                    |                 |
|   | 14F          |                    | 1.50                             | 10.00  |             |              |                    |                    |                 |
| 15  | 15           | Coconut            | 1.04                             | 8.00   | 789486.241  | 1438311.412  | 12° 59' 48.8899" N | 77° 40' 7.0039" E  |                 |
| 16  | 16           | Banni Tree         | 0.92                             | 6.00   | 789479.123  | 1438313.351  | 12° 59' 48.9553" N | 77° 40' 6.7685" E  |                 |
| 17  | 17           | Palm Tree          | 0.62                             | 7.00   | 789148.739  | 1438165.134  | 12° 59' 44.2481" N | 77° 39' 55.7612" E |                 |
| 18  | 18           | Rain Tree          | 1.33                             | 8.00   | 789125.532  | 1438173.844  | 12° 59' 44.5393" N | 77° 39' 54.9946" E |                 |
| 19  | 19           | Palm Tree          | 1.75                             | 3.50   | 789150.588  | 1438151.156  | 12° 59' 43.7930" N | 77° 39' 55.8177" E |                 |
| 20  | 20           | Hatthi Tree        | 0.80                             | 5.00   | 789155.59   | 1438149.663  | 12° 59' 43.7427" N | 77° 39' 55.9830" E |                 |
| 21  | 21           | Tecoma             | 0.85                             | 5.00   | 789185.396  | 1438148.615  | 12° 59' 43.6985" N | 77° 39' 56.9710" E |                 |
| 22  | 22           | Tecoma             | 0.67                             | 4.00   | 789188.895  | 1438149.763  | 12° 59' 43.7346" N | 77° 39' 57.0875" E |                 |
| 23  | 23           | Tecoma             | 0.80                             | 3.50   | 789194.292  | 1438152.06   | 12° 59' 43.8075" N | 77° 39' 57.2672" E |                 |
| 24  | 24           | Hole dasavala Tree | 0.60                             | 2.50   | 789098.273  | 1438151.812  | 12° 59' 43.8321" N | 77° 39' 54.0831" E |                 |
| 25  | 25           | Karijaali          | 1.02                             | 5.00   | 789090.609  | 1438146.74   | 12° 59' 43.6698" N | 77° 39' 53.8272" E |                 |
| 26  | 26           | Peepal Tree        | 1.30                             | 8.00   | 789084.191  | 1438143.733  | 12° 59' 43.5742" N | 77° 39' 53.6133" E |                 |
| 27  | 27           | Rain Tree          | 1.15                             | 7.00   | 789072.257  | 1438138.876  | 12° 59' 43.4703" N | 77° 39' 53.2159" E | Can Be Retained |
| 28  | 28           | Tecoma             | 0.81                             | 7.00   | 789083.05   | 1438130.095  | 12° 59' 43.1311" N | 77° 39' 53.5707" E |                 |
| 29  | 29           | Tecoma             | 0.48                             | 5.00   | 789080.064  | 1438127.852  | 12° 59' 43.0592" N | 77° 39' 53.4709" E |                 |
| 30  | 30           | Tecoma             | 0.60                             | 3.50   | 789077.587  | 1438125.97   | 12° 59' 42.9988" N | 77° 39' 53.3881" E |                 |
| 31  | 31           | Hole dasavala      | 0.58                             | 3.50   | 789073.308  | 1438123.624  | 12° 59' 42.9240" N | 77° 39' 53.2454" E | Can Be Retained |
| 32  | 32           | Tecoma             | 0.58                             | 3.50   | 789088.847  | 1438135.051  | 12° 59' 43.2903" N | 77° 39' 53.7647" E |                 |
| 33  | 33           | Tecoma             | 0.74                             | 5.00   | 789091.187  | 1438137.766  | 12° 59' 43.3778" N | 77° 39' 53.8432" E |                 |
| 34  | 34A          | Honge Tree         | 0.70                             | 4.00   | 789093.187  | 1438129.578  | 12° 59' 43.1108" N | 77° 39' 53.9067" E |                 |
|   | 34B          |                    | 0.80                             | 5.00   |             |              |                    |                    |                 |
| 35  | 35A          | Honge Tree         | 0.78                             | 5.00   | 789090.483  | 1438126.837  | 12° 59' 43.0226" N | 77° 39' 53.8161" E |                 |
|   | 35B          |                    | 0.48                             | 5.00   |             |              |                    |                    |                 |
| 36  | 36           | Teakwood Tree      | 0.55                             | 5.00   | 789088.223  | 1438125.632  | 12° 59' 42.9842" N | 77° 39' 53.7407" E |                 |
| 37  | 37           | Nerale Tree        | 0.68                             | 6.00   | 789083.805  | 1438116.69   | 12° 59' 42.6949" N | 77° 39' 53.5911" E |                 |
| 38  | 38           | Ashoka             | 0.96                             | 8.00   | 789082.852  | 1438118.251  | 12° 59' 42.7460" N | 77° 39' 53.5600" E |                 |
| 39  | 39           | Bitwapathre Tree   | 0.79                             | 5.00   | 789086.633  | 1438108.073  | 12° 59' 42.4137" N | 77° 39' 53.6819" E |                 |
| 40  | 40           | Banni Tree         | 0.98                             | 8.00   | 789081.629  | 1438107.648  | 12° 59' 42.4016" N | 77° 39' 53.5158" E |                 |
| 41  | 41           | Mango Tree         | 0.45                             | 3.00   | 789079.263  | 1438110.72   | 12° 59' 42.5023" N | 77° 39' 53.4384" E |                 |
| 42  | 42           | Tecoma             | 0.61                             | 3.00   | 789071.838  | 1438120.432  | 12° 59' 42.8207" N | 77° 39' 53.1956" E |                 |
| 43  | 43           | Rain Tree          | 1.81                             | 9.00   | 789066.105  | 1438119.856  | 12° 59' 42.8039" N | 77° 39' 53.0053" E | Can Be Retained |
| 44  | 44           | Tecoma             | 0.56                             | 4.50   | 789065.072  | 1438115.7    | 12° 59' 42.6691" N | 77° 39' 52.9696" E |                 |
| 45  | 45A          | Tecoma             | 0.62                             | 4.50   |             |              |                    |                    | Can Be Retained |
|   | 45B          |                    | 0.52                             | 4.50   | 789056.549  | 1438093.71   | 12° 59' 41.9569" N | 77° 39' 52.6793" E | Can Be Retained |
| 46  | 46A          | Banyan Tree        | 5.30                             | 8.00   | 789069.315  | 1438102.065  | 12° 59' 42.2243" N | 77° 39' 53.1055" E | Can Be Retained |
| 47  | 47A          | Peepal Tree        | 0.62                             | 11.00  | 789114.596  | 1438118.713  | 12° 59' 42.7502" N | 77° 39' 54.6129" E |                 |
|   | 47B          |                    | 0.71                             |  |             |              |                    |                    |                 |
|   | 47C          |                    | 0.41                             |  |             |              |                    |                    |                 |
| Total number of trees standing in the Project Area = 47 Trees |              |                    |                                  |  |             |              |                    |                    |                 |
| Total Number of Tree Proposed for Removal = 42                |              |                    |                                  |  |             |              |                    |                    |                 |

  
 Col. Atul Kulkarni  
 Dy Chief Engineer  
 Bangalore Metro Rail Corporation Limited  
 (BMRC)

# **NUMBER OF TREES PROPOSED FOR REMOVAL (For Bus Hub near Benniganahalli Lake Bund and Jyothipura Metro Station Entry/Exit Structure)**

| SL. NO | New Tree No. | Tree Name          | Girth of tree @ 1.37m height (m) | Full Height of Tree by Visual Inspection (m) | Easting (m) | Northing (m) | Latitude (N)       | Longitude (E)      | Remarks |
|--------|--------------|--------------------|----------------------------------|--|-------------|--------------|--------------------|--------------------|---------|
| 01     | 01           | Subabul Tree       | 0.42                             | 4.00   | 789483.320  | 1438348.494  | 12° 59' 50.0967" N | 77° 40' 6.9199" E  |         |
| 02     | 02           | Rain Tree          | 2.43                             | 9.00   | 789484.289  | 1438352.009  | 12° 59' 50.2107" N | 77° 40' 6.9533" E  |         |
| 03     | 03           | Rain Tree          | 1.05                             | 9.00   | 789488.639  | 1438352.296  | 12° 59' 50.2185" N | 77° 40' 7.0976" E  |         |
| 04     | 04           | Rain Tree          | 1.29                             | 9.00   | 789489.130  | 1438350.186  | 12° 59' 50.1497" N | 77° 40' 7.1132" E  |         |
| 05     | 05           | Rain Tree          | 1.61                             | 9.00   | 789494.400  | 1438350.317  | 12° 59' 50.1522" N | 77° 40' 7.2880" E  |         |
| 06     | 6A           | Rain Tree          | 1.17                             | 10.00  | 789494.274  | 1438354.099  | 12° 59' 50.2752" N | 77° 40' 7.2851" E  |         |
|        | 6B           |                    | 1.39                             | 10.00  |             |              |                    |                    |         |
| 07     | 07           | Rain Tree          | 1.19                             | 9.00   | 789500.645  | 1438354.251  | 12° 59' 50.2780" N | 77° 40' 7.4965" E  |         |
| 08     | 08           | Rain Tree          | 1.30                             | 10.00  | 789506.475  | 1438352.487  | 12° 59' 50.2187" N | 77° 40' 7.6892" E  |         |
| 09     | 9A           | Haale Tree         | 0.21                             | 2.50   | 789501.871  | 1438345.245  | 12° 59' 49.9847" N | 77° 40' 7.5340" E  |         |
|        | 9B           |                    | 0.17                             | 2.50   |             |              |                    |                    |         |
| 10     | 10           | Haale Tree         | 0.10                             | 2.50   | 789497.188  | 1438344.544  | 12° 59' 49.9635" N | 77° 40' 7.3784" E  |         |
| 11     | 11           | Ashoka             | 0.64                             | 8.00   | 789523.836  | 1438325.145  | 12° 59' 49.3236" N | 77° 40' 8.2554" E  |         |
| 12     | 12           | Phycus Alba        | 0.94                             | 8.00   | 789520.993  | 1438323.790  | 12° 59' 49.2805" N | 77° 40' 8.1606" E  |         |
| 13     | 13           | Neem Tree          | 0.51                             | 4.00   | 789496.091  | 1438324.788  | 12° 59' 49.3215" N | 77° 40' 7.3352" E  |         |
| 14     | 14A          | Peepal Tree        | 1.90                             | 10.00  | 789494.408  | 1438324.231  | 12° 59' 49.3039" N | 77° 40' 7.2792" E  |         |
|        | 14B          |                    | 2.00                             | 10.00  |             |              |                    |                    |         |
|        | 14C          |                    | 1.80                             | 10.00  |             |              |                    |                    |         |
|        | 14D          |                    | 1.70                             | 10.00  |             |              |                    |                    |         |
|        | 14E          |                    | 1.60                             | 10.00  |             |              |                    |                    |         |
|        | 14F          |                    | 1.50                             | 10.00  |             |              |                    |                    |         |
| 15     | 15           | Coconut            | 1.04                             | 8.00   | 789486.241  | 1438311.412  | 12° 59' 48.8899" N | 77° 40' 7.0039" E  |         |
| 16     | 16           | Banni Tree         | 0.92                             | 6.00   | 789479.123  | 1438313.351  | 12° 59' 48.9553" N | 77° 40' 6.7685" E  |         |
| 17     | 17           | Palm Tree          | 0.62                             | 7.00   | 789148.739  | 1438165.134  | 12° 59' 44.2481" N | 77° 39' 55.7612" E |         |
| 18     | 18           | Rain Tree          | 1.33                             | 8.00   | 789125.532  | 1438173.844  | 12° 59' 44.5393" N | 77° 39' 54.9946" E |         |
| 19     | 19           | Palm Tree          | 1.75                             | 3.50   | 789150.588  | 1438151.156  | 12° 59' 43.7930" N | 77° 39' 55.8177" E |         |
| 20     | 20           | Hatthi Tree        | 0.90                             | 5.00   | 789155.59   | 1438149.663  | 12° 59' 43.7427" N | 77° 39' 55.9830" E |         |
| 21     | 21           | Tecoma             | 0.85                             | 5.00   | 789185.396  | 1438148.615  | 12° 59' 43.6985" N | 77° 39' 56.9710" E |         |
| 22     | 22           | Tecoma             | 0.67                             | 4.00   | 789188.895  | 1438149.763  | 12° 59' 43.7346" N | 77° 39' 57.0875" E |         |
| 23     | 23           | Tecoma             | 0.80                             | 3.50   | 789194.292  | 1438152.06   | 12° 59' 43.8075" N | 77° 39' 57.2672" E |         |
| 24     | 24           | Hole dasavala Tree | 0.60                             | 2.50   | 789098.273  | 1438151.812  | 12° 59' 43.8321" N | 77° 39' 54.0831" E |         |
| 25     | 25           | Karijaali          | 1.02                             | 5.00   | 789090.609  | 1438146.74   | 12° 59' 43.6698" N | 77° 39' 53.8272" E |         |
| 26     | 26           | Peepal Tree        | 1.30                             | 8.00   | 789084.191  | 1438143.733  | 12° 59' 43.5742" N | 77° 39' 53.6133" E |         |
| 27     | 28           | Tecoma             | 0.81                             | 7.00   | 789083.05   | 1438130.095  | 12° 59' 43.1311" N | 77° 39' 53.5707" E |         |
| 28     | 29           | Tecoma             | 0.48                             | 5.00   | 789080.064  | 1438127.852  | 12° 59' 43.0592" N | 77° 39' 53.4709" E |         |
| 29     | 30           | Tecoma             | 0.60                             | 3.50   | 789077.587  | 1438125.97   | 12° 59' 42.9988" N | 77° 39' 53.3881" E |         |
| 30     | 31           | Hole dasavala      | 0.58                             | 3.50   | 789073.308  | 1438123.624  | 12° 59' 42.9240" N | 77° 39' 53.2454" E |         |
| 31     | 33           | Tecoma             | 0.74                             | 5.00   | 789091.187  | 1438137.766  | 12° 59' 43.3778" N | 77° 39' 53.8432" E |         |
| 32     | 34A          | Honge Tree         | 0.70                             | 4.00   | 789093.187  | 1438129.578  | 12° 59' 43.1108" N | 77° 39' 53.9067" E |         |
|        | 34B          |                    | 0.80                             | 5.00   |             |              |                    |                    |         |
| 33     | 35A          | Honge Tree         | 0.78                             | 5.00   | 789090.483  | 1438126.837  | 12° 59' 43.0226" N | 77° 39' 53.8161" E |         |
|        | 35B          |                    | 0.48                             | 5.00   |             |              |                    |                    |         |
| 34     | 36           | Teakwood Tree      | 0.55                             | 5.00   | 789088.223  | 1438125.632  | 12° 59' 42.9842" N | 77° 39' 53.7407" E |         |
| 35     | 37           | Nerale Tree        | 0.68                             | 6.00   | 789083.805  | 1438116.69   | 12° 59' 42.6949" N | 77° 39' 53.5911" E |         |
| 36     | 38           | Ashoka             | 0.96                             | 8.00   | 789082.852  | 1438118.251  | 12° 59' 42.7460" N | 77° 39' 53.5600" E |         |
| 37     | 39           | Bilwathree Tree    | 0.79                             | 5.00   | 789086.633  | 1438108.073  | 12° 59' 42.4137" N | 77° 39' 53.6819" E |         |
| 38     | 40           | Banni Tree         | 0.98                             | 8.00   | 789081.629  | 1438107.648  | 12° 59' 42.4016" N | 77° 39' 53.5158" E |         |
| 39     | 41           | Mango Tree         | 0.45                             | 3.00   | 789079.263  | 1438110.72   | 12° 59' 42.5023" N | 77° 39' 53.4384" E |         |
| 40     | 42           | Tecoma             | 0.61                             | 3.00   | 789071.838  | 1438120.432  | 12° 59' 42.8207" N | 77° 39' 53.1956" E |         |
| 41     | 46A          | Banyan Tree        | 5.30                             | 8.00   | 789069.315  | 1438102.065  | 12° 59' 42.2243" N | 77° 39' 53.1055" E |         |
| 42     | 47A          | Peepal Tree        | 0.62                             | 11.00  | 789114.596  | 1438118.713  | 12° 59' 42.7502" N | 77° 39' 54.6129" E |         |
|        | 47B          |                    | 0.71                             |  |             |              |                    |                    |         |
|        | 47C          |                    | 0.41                             |  |             |              |                    |                    |         |

Total Number of Tree Proposed for Removal = 42

Col. Atul Kulkarni, B.E.

By Chief Engineer

Bangalore Metro Rail Corporation Ltd.

(Signature)



## ANNEXURE III

## BOUNDARY CORDINATES OF BUS HUB AND JYOTHIPURAM ENTRY EXIT STRUCTURE

| SL. No | Easting<br>(m) | Northing<br>(m) | Latitude<br>(N)   | Longitude<br>(E)  | Remarks   |
|--------|----------------|-----------------|-------------------|-------------------|---|
| 1      | 788996.539     | 1438100.693     | 12 ° 59' 42.2052" | 77° 39' 50.692" E | Boundary co<br>ordinates of Busbay<br>Area                      |
| 2      | 789013.526     | 1438077.341     | 12 ° 59' 41.4384" | 77° 39' 51.246" E |   |
| 3      | 789054.308     | 1438084.924     | 12 ° 59' 41.6724" | 77° 39' 52.603" E |   |
| 4      | 789172.953     | 1438134.470     | 12 ° 59' 43.242"  | 77° 39' 56.552" E |   |
| 5      | 789225.834     | 1438170.840     | 12 ° 59' 44.4084" | 77° 39' 58.32" E  |   |
| 6      | 789176.031     | 1438190.836     | 12 ° 59' 45.0744" | 77° 39' 56.675" E |   |
| 7      | 789058.962     | 1438175.550     | 12 ° 59' 44.6172" | 77° 39' 52.787" E |   |
| 8      | 789476.947     | 1438306.064     | 12 ° 59' 48.7176" | 77° 40' 6.694" E  | Boundary co<br>ordinates of JYP<br>entry/exit -& Temple<br>Area |
| 9      | 789479.983     | 1438354.268     | 12 ° 59' 50.2872" | 77° 40' 6.812" E  |   |
| 10     | 789515.976     | 1438360.462     | 12 ° 59' 50.4744" | 77° 40' 8.008" E  |   |
| 11     | 789527.427     | 1438323.732     | 12 ° 59' 49.2756" | 77° 40' 08.375" E |   |
| 12     | 789490.144     | 1438308.989     | 12 ° 59' 48.8112" | 77° 40' 7.133" E  |   |

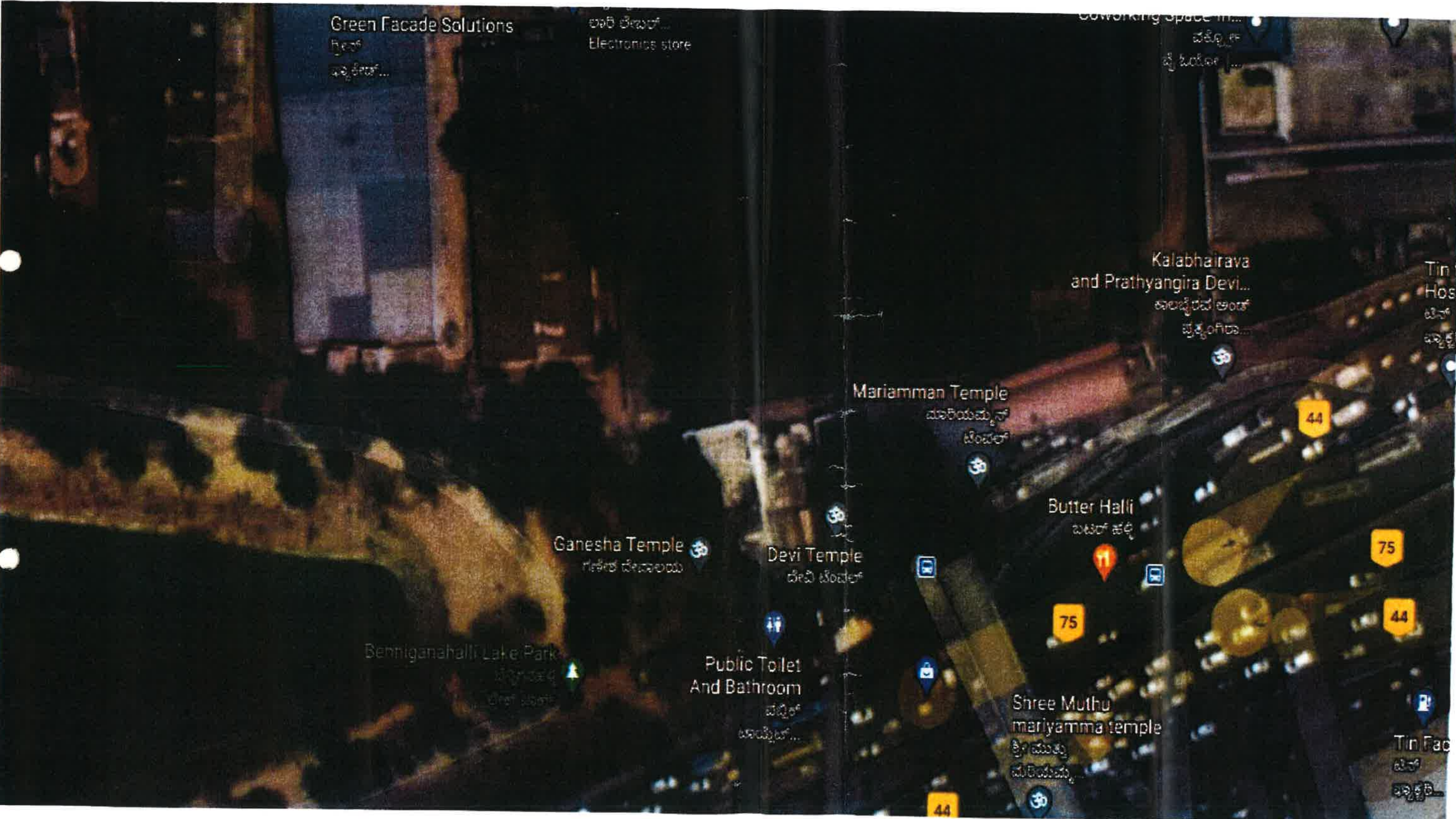
  
 Col. Atul Kulshrestha, Retd.  
 Dy Chief Engineer  
 Bangalore Metro Rail Corporation Limited  
 (BMRCL)





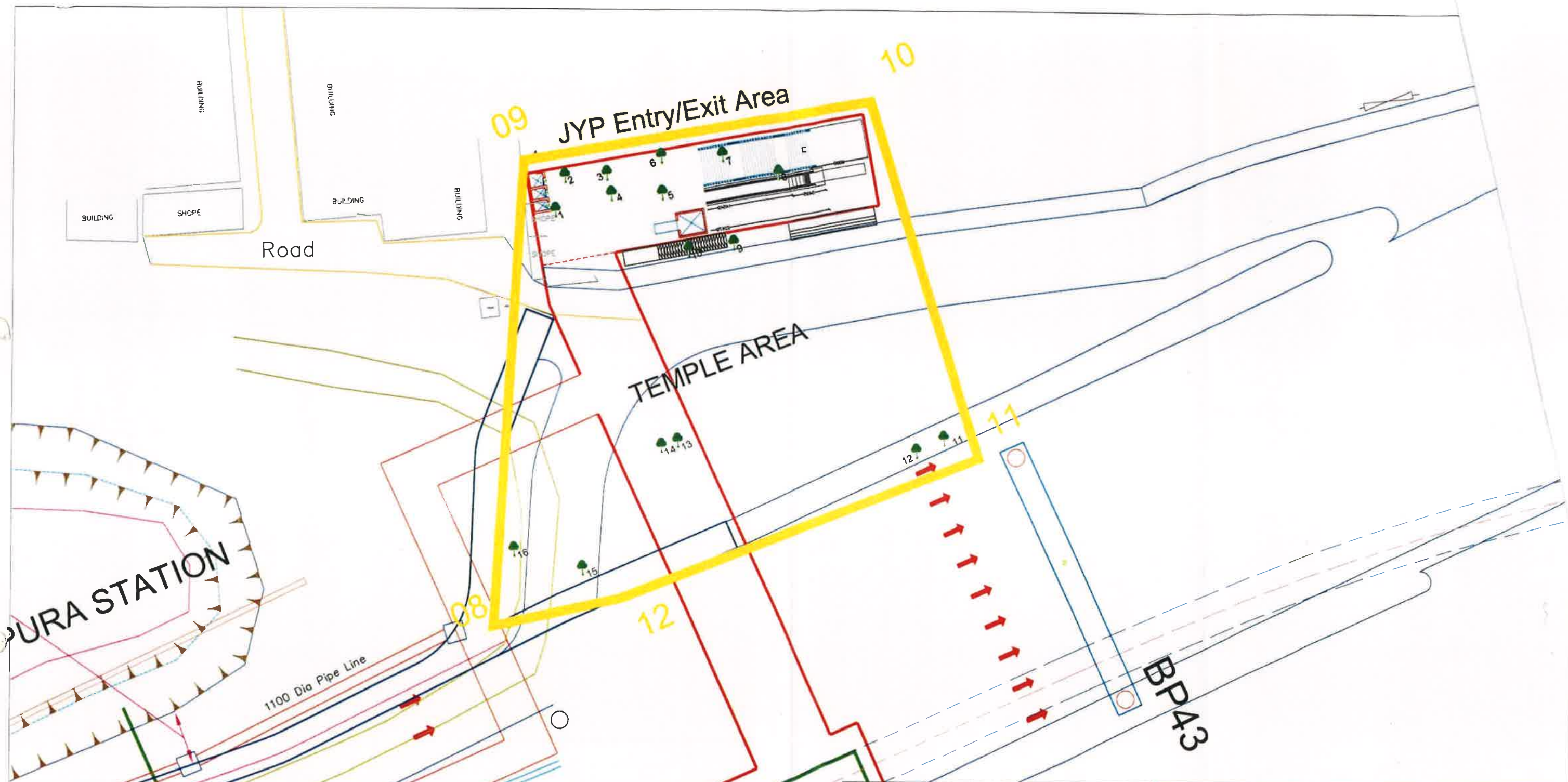
Col. Atul Kulkarni, Retd.  
Dy Chief Engineer  
Bengaluru Metro Rail Corporation Limited  
(Signature)  
AEE





Col. Atul Kulkarni, Retd.  
Dy Chief Engineer  
Bengaluru Metro Rail Corporation Limited (BMRCL)  
PS





| SL. No | Easting (m) | Northing (m) | Latitude (N)      | Longitude (E)     | Remarks   |
|--------|-------------|--------------|-------------------|-------------------|---|
| 8      | 789476.947  | 1438306.064  | 12 ° 59' 48.7176" | 77° 40' 6.694" E  | Boundary co ordinates of JYP entry/exit & Temple Area |
| 9      | 789479.983  | 1438354.268  | 12 ° 59' 50.2872" | 77° 40' 6.812" E  |   |
| 10     | 789515.976  | 1438360.462  | 12 ° 59' 50.4744" | 77° 40' 8.008" E  |   |
| 11     | 789527.427  | 1438323.732  | 12 ° 59' 49.2756" | 77° 40' 08.375" E |   |
| 12     | 789490.144  | 1438308.989  | 12 ° 59' 48.8112" | 77° 40' 7.133" E  |   |

| LEGEND        |  |
|---------------|--|
| RETAINED TREE |  |
| REMOVAL TREE  |  |
| BOUNDARY AREA |  |

| BANGALORE METRO RAIL CORPORATION LTD.   |   |                   |
|---|---|-------------------|
|   | SECTION: R1 Extn:<br>(BAIYAPPANAHALLI TO WHITEFIELD)<br>LAND PLANS. |                   |
| PREPARED BY: BMRL                       | VERIFIED BY: BMRL   | APPROVED BY: BMRL |
|   |   |                   |
| DRG. No. BMRL / PH-II / R-1 Extn / Tree |   | SHEET No 1/R0     |

Col. Atul K. Singh, Retd.  
Dy Chief Engineer  
Bangalore Metro Rail Corporation Limited  
(BMRL)



