OFFICIAL MEMORANDUM

ದೂರವಾಣಿ /ಫ್ಯಾಕ್ಸ್ - 080-23343464
Email ID -dcfurban82@yahoo.co.in

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

Office of the Deputy Conservator of Forests
Bangalore Urban Division, Aranya Bhavan Compus. 18th cross, Malleshwaram, Bangaloe-560003

No: A9/Tree Cutting /BMRCL/CR- 154/2020-21 Date: 02/03/2021.

Official Memorandum

Sub: Permission for felling of trees in the Extension of E-W corridor (Reach1A) of Bengaluru Metro Rail Project Benniganahalli Lake Bund, Bengaluru-Reg.

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

2. Letter No: BMRCL/Dy.CE/R1A/Ph-II/TREES/2020/4368 Dated 20.11.2020

3. This Office Public Notice vide letter No: A9 /Tree Cutting /BMRCL/CR- 154/2020-21 Dated: 21.11.2020

4. Letter No: RFO/KRPM/Tree Cutting/CR-6/2020-21/167 Dtd. 12.12.2020 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-69/2020-21 Dtd:26-02-2021 along with report and proceedings of Tree Expert Committee.

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Preamble:-

BMRCL submitted a fresh application dated 20.11.2020 read at ref (2) above seeking permission for removal of 91 trees in the Extension of E-W corridor (Reach-1A) of Bengaluru Metro Rail Project at Benniganahalli Lake Bund, Bengaluru 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 felled are more than 50. The public notice appeared in Indian Express, Kannada Prabha & Prajavani news newspapers on 22.11.2020 and 23.11.2020 respectively. The details of the 91 trees sought to be removed and that of 28 other trees in the project area which are not proposed to be removed by BMRCL were also published on the website of BBMP, as per the MOP.

In response to the public notice, 107 number of objections and comments were received from the general public. In the light of the objections, a discussion was held with BMRCL officials to ascertain the nature of the project activities at this location and to confirm the necessity of removal of trees. All the objections were considered carefully, and proceedings of that consideration along with a tabular statement showing the objections and comments from the public, and remarks and findings of the undersigned for each specific objection and comment were prepared on 12.12.2020, besides recording summary of the findings in Template No. 3 of the MOP.

As per BMRCL's application, there are 119 trees in the project area out of which 91 trees are sought to be removed. Detailed enumeration of each of those 91 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 91 trees on 13.12.2020 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 91 trees, and information in Template No 2 and 3 were submitted vide letter dated 15.12.2020 for consideration by the TEC.

The TEC has submitted a detailed report dated 26.02.2021 giving their recommendations for translocation of 52 trees and felling of 39 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 removal of 91 trees is necessary due to following 4 major physical features of the project at the tree locations.

Physical features	Tree Nos.
New Road formation as the Metro Portal piers will be erected on the existing road	1 2 3 4 5 6 7 8 9 44 45 46 47 48 49 58 59 60 90 91 (Total 20 Nos.)
Construction of Retaining Wall for entry portion of Lake Bund	10 11 12 20 21 (Total 5 No's)
Construction of Diaphragm Wall for remaining portion of Lake Bund	13 14 15 16 17 18 19 24 50 51 52 53 54 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 (Total 42 No's.)
Structural Works (Pile cap location over which the pier will come)	22 23 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 55 56 57 (Total 24 No's)

The TEC has further concluded that 52 trees out of these 91 trees are healthy and suitable for translocation. The TEC has accordingly recommended translocation of those 52 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 39 trees out of these 91 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 39 trees.

The TEC has observed that 28 other trees in the project area, which are not sought to be removed by BMRCL, can be retained at their locations as they are not hindering the project activities.

The report of the TEC has been examined. The TEC has provided detailed specific justification for removal of each of the 91 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 52 trees and felling of 39 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. Based on the consideration detailed above, permission is hereby granted for removal of 52 trees by way of translocation as listed with justification in Template No. 5 appended to this Official Memorandum as **Appendix-1.**
2. Permission is hereby also granted for removal of 39 trees by way of felling as listed with justification in Template No. 6 appended to this Official Memorandum as **Appendix-2.**
3. The other 28 trees in the project area for which permission was not sought should be retained on-site only.
4. This order will come into effect fifteen (15) days from the date of uploading of the order on the website of BBMP 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 locations.

         1) Benniganahalli tank bund area
         2) K.R. Puram Metro station (acquired from Lowry school)
         3) Lowry School premises(Adjacent to K.R.Puram Metro Station)
         4) Kempegowda International Airport

      ii. The translocation should be organized by competent agencies, as mentioned in Template 5.

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

   B. Compensatory Plantation:

      i. Arrange compensatory Afforestation of 910 tall and healthy saplings, i.e., @ 10 saplings for each tree removed within 6 months from the date of the removal.

ii. Submit a plan for the compensatory plantation within 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 3 years.

ii. BMRCL should also submit reports regarding condition of the translocated trees and the compensatory plantation every quarter for a period of 3 years to the undersigned.

D. Storage & disposal of felled trees:

i. Among 39 trees to be felled, logs of 03 Rose wood trees (Dalbergia latifolia) should be transported and deposited at the Forest Department Storage in Jarakabande Sandal Godown, Bengaluru Range, Bengaluru.

ii. The extracted wood from other 36 trees to be felled should be deposited with the Range Forest Office, K.R.Puram for disposal.

Sd/-
Tree Officer &
Deputy Conservator of Forests
Bengaluru Urban Division.

Copy to:

1. Respectfully Submitted to Hon'ble Chairman, Tree Authority & Chief Conservator of Forests(Territorial), Bengaluru for kind information.
2. Managing Director, BMRCL, 3rd Floor, BMTC Complex, Shanthinagara, Bengaluru – 560027 for kind information
3. Sri Dattatraya T Devare, A-102 Natasha Golf View Apartments, Domlur Bengaluru– 560071, Petitioner in WP 17841/2018 for kind information
4. Bangalore Environment Trust, 10, Sirur Park B Street Seshadripuram Bengaluru – 560020, Petitioner in WP 17841/2018 for kind information
5. Chief Engineer & Chief Technical Expert (SEMU), BMRCL for kind information
6. Environment Officer, BMRCL for kind information

7. Deputy Chief Engineer – Reach-1A, BMRCL for kind information
8. Assistant Conservator of Forest & Member Secretary, TEC. for kind information
9. Assistant Conservator of Forests, South Sub Division, Bangalore for kind information
10. Range Forest Officer, K.R.Puram Range, K.R.Puram for kind information and necessary action.

Tree Officer &
Deputy Conservator of Forests
Bengaluru Urban Division.

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

TEMPLATE No. 5

PARTICULARS ON TRANSPLANTATION / TRANSLOCATION OF TREE(S)*

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

<table>
<tr><td>Name of the user agency</td><td>Bangalore Metro Rail Corporation Limited</td></tr>
<tr><td>Purpose of the project</td><td>Construction Metro Rail Elevated and Station Structures c, Road diversion works and construction of Diaphragm Wall from Baiyapanahalli to Whitefield</td></tr>
<tr><td>Extent of the project area</td><td>Benniganahalli Tank Bund Area
380 Mts Lrngth and 15 Mts Width</td></tr>
<tr><td>Location of the project area</td><td>Benniganahalli Tank Bund
<table>
<tr><th>Sl. No</th><th>Easting (m)</th><th>Northing (m)</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>1</td><td>789086</td><td>1438104</td><td>12° 59' 42.2815" N</td><td>77° 39' 53.6595" E</td></tr>
<tr><td>5</td><td>789502</td><td>1438322</td><td>12° 59' 49.2288" N</td><td>77° 40' 7.5302" E</td></tr>
</table></td></tr>
<tr><td>Number of tree(s) enumerated in the project area</td><td>119</td></tr>
<tr><td>Number of tree(s) recommended for transplantation / translocation</td><td>52</td></tr>
<tr><td>Feasibility of the tree for transplantation / translocation
(as per Template No. 2 – Tree Assessment Form)</td><td>All the trees are feasible for transplantation/ translocation</td></tr>
<tr><td>Name of the agency identified to execute transplantation / translocation</td><td>TMRH Plantation (Mr. Mohd Iqbal)</td></tr>
<tr><td>Transplantation / Translocation methodology</td><td>Tree Bur lapping Method</td></tr>
<tr><td>Location of receptor site</td><td>1) Benniganhalli Tank Bund Area
<table>
<tr><th>Sl. No.</th><th>Easting (m)</th><th>Northing (m)</th><th>Latitude (N)</th><th>Longitude (E)</th></tr>
<tr><td>1</td><td>789086</td><td>1438104</td><td>12° 59' 42.2815" N</td><td>77° 39' 53.6595" E</td></tr>
<tr><td>2</td><td>789502</td><td>1438322</td><td>12° 59' 49.2288" N</td><td>77° 40' 7.5302" E</td></tr>
</table></td></tr>
</table>

	2) K R Puram Metro Station (Along Lowry School CompounD) <table><tr><th>Sl. No.</th><th>Easting (m)</th><th>Northing (m)</th><th>Latitude (N)</th><th>Longitude (E)</th></tr><tr><td>1</td><td>788356.368</td><td>1437837.202</td><td>12° 59' 33.8532" N</td><td>77° 39' 29.372" E</td></tr><tr><td>2</td><td>788475.324</td><td>1437980.565</td><td>12° 59' 38.4756" N</td><td>77° 39' 33.365" E</td></tr></table> 3)Lowry School Area <table><tr><th>Sl. No.</th><th>Easting (m)</th><th>Northing (m)</th><th>Latitude (N)</th><th>Longitude (E)</th></tr><tr><td>1</td><td>788356.368</td><td>1437837.202</td><td>12° 59' 33.8532" N</td><td>77° 39' 29.372" E</td></tr><tr><td>2</td><td>788475.324</td><td>1437980.565</td><td>12° 59' 38.4756" N</td><td>77° 39' 33.365" E</td></tr></table> 3) Kempegowda International Airport Limited, Bengaluru <table><tr><th>Sl. No.</th><th>Easting (m)</th><th>Northing (m)</th><th>Latitude (N)</th><th>Longitude (E)</th></tr><tr><td>1</td><td>776792.04</td><td>1320109.2</td><td>13° 12' 3.9312" N</td><td>77° 40' 45.1344" E</td></tr><tr><td>2</td><td>777145.14</td><td>1319749.9</td><td>13° 11' 50.9964" N</td><td>77° 42' 52.2504" E</td></tr></table>
Compatibility of receptor site	Soil Investigation for both the location carried out and found to be suitable. Investigation Reports Attached
Number of trees to be transplanted / translocated to the selected receptor site	1) Benniganhalli Tank Bund Area – 5 Trees 2) K R Puram Metro Station (Along Lowry School CompounD) – 22 Trees 3) Lowry School Area – 25 Tress 4) Kempegowda International Airport Limited, Bengaluru.
Spacing between transplanted / translocated trees	5 to 6 mts
Post care management	Proper manure and watering for survival of transplanted/ 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 Template2.
2. *The Project Authorities / User agency should strictly adopt the Transplantation / Translocation guidelines prescribed by UAS (B), GKVK, enclosed as Annexure I to the MOP.*

Date: 02/08/2021

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

*ApplicationNo.:*BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368Date.20.11.2020

*Location:*BenniganahalliTankBund

List of trees permitted for removal by Translocation

Appendix -1

SL No	Tree No.	Species	Location (Lat / Long)	GBH in Mtrs	Height in Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
1	01	Akash mallige	12° 59' 42.4417" N / 77° 39' 53.8933" E	1.30	7.50	3.50	Translocation	Translocation	• Tree is present within the project area with feasible girth size for translocation • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling • Care should be taken during the preparation of tree for translocation for pruning small sized girdled roots and dried branches • Root ball dimensions should be appropriate in consideration to tree no.2, as there is probability of overlapping of root balls of tree no. 1 and 2
2	02	Akash mallige	12° 59' 42.4739" N / 77° 39' 53.9269" E	0.89	7.60	4.50	Translocation	Translocation	Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling • Root ball dimensions should be appropriate in consideration to root ball of tree no. 1 • Tree with feasible girth size for translocation
3	03	Neem Tree	12° 59' 42.6348" N / 77° 39' 54.0944" E	0.81	1.50	6.00	Translocation	Translocation	• Tree is present within the project area • Tree is surrounded by concrete structures; therefore, care should be taken during the preparation process of root ball for translocation • Tree with feasible girth size for

SL No	Tree No.	Species	Location (Lat / Long)	GBH in Mtrs	Height in Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
									translocation
4	05	Hole dasa-vala	12° 59' 42.8939" N / 77° 39' 54.1967" E	0.49	2.50	4.00	Translocation	Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling
5	06	Ficus Bengali	12° 59' 43.0541" N / 77° 39' 54.4305" E	2.00	4.00	6.00	Translocation	Translocation	• Tree is present within the project area with feasible girth size for translocation, • The dead portion of broken trunk should be pruned scientifically while preparing the tree for translocation • Care should be taken during preparation of root ball as a portion of roots are already exposed
6	07	Hole dasa-vala	12° 59' 43.6032" N / 77° 39' 54.8012" E	0.52	3.10	3.50	Translocation	Translocation	• Tree is present within the project area • Concrete blocks are very close to one side of the tree, therefore care should be taken during the preparation process of root ball for translocation • Tree is with feasible girth size for translocation

ApplicationNo.:BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368Date.20.11.2020

*Location:*BenniganahalliTankBund

SL No	Tree No.	Species	Location (Lat / Long)	GBH in Mtrs	Height in Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
7	08	Hole dasa-vala	12° 59' 43.6343" N / 77° 39' 54.9342" E	0.69	2.10	5.50	Translocation	Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling
8	09	Bagane tree	12° 59' 43.9880" N / 77° 39' 55.3359" E	1.12	5.80	2.50	Translocation	Translocation	• Tree is present within the project area • Care should be taken during preparation of root ball as a portion of roots are already exposed
9	12	Bagane tree	12° 59' 44.2433" N / 77° 39' 55.8030" E	0.67	3.00	2.50	Translocation	Translocation	• Tree is present within the project area with feasible girth size for translocation • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling
10	13	Hole dasavala	12° 59' 44.8930" N / 77° 39' 55.8762" E	0.86	4.60	3.50	Translocation	Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling
11	14	Jamun Tree(Nerale)	12° 59' 44.7606" N / 77° 39' 56.1070" E	0.62	4.10	4.00	Translocation	Translocation	• Tree is present within the project area with feasible girth size for translocation • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling

ApplicationNo.:BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368Date.20.11.2020

*Location:*BenniganahalliTankBund

SL No	Tree No.	Species	Location (Lat / Long)	GBH in Mtrs	Height in Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
12	15	Hole dasa-vala	12° 59' 44.9540" N / 77° 39' 56.2749" E	0.96	6.10	6.00	Translocation	Translocation	• Tree is present within the project area with feasible girth size for translocation • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling • There are minor defects on the trunk, however these defects do not impact survival of the tree after translocation
13	18	Kari jaali Tree	12° 59' 44.9177" N / 77° 39' 56.6393" E	0.99	4.30	10.00	Translocation	Translocation	• Tree is present within the project area with feasible girth size for translocation • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling
14	19	Hole dasa-vala	12° 59' 45.0156" N / 77° 39' 56.6072" E	0.70	5.00	5.00	Translocation	Translocation	• Tree is present within the project area with feasible girth size for translocation • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling
15	21	Rain Tree	12° 59' 44.6220" N / 77° 39' 56.9346" E	0.72	7.30	6.00	Translocation	Translocation	• Tree is present within the project area with feasible girth size for translocation • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling

SL No	Tree No.	Species	Location (Lat / Long)	GBH in Mtrs	Height in Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
16	22	Akash mallige	12° 59' 44.7829" N / 77° 39' 57.1021" E	0.41	4.60	3.50	Translocation	Translocation	• Tree is present within the project area with feasible girth size for translocation • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling
17	23	Akash mallige	12° 59' 44.7825" N / 77° 39' 57.1353" E	1.35	7.10	6.00	Translocation	Translocation	• Tree is present within the project area with feasible girth size for translocation • Tree is with multiple suckers which has to be pruned appropriately during the process of translocation • Care to be taken during excavation of root ball as the tree is present near to tree no. 22 • No adverse construction impacts or intrusions within the tree protection zone
18	44 (A)	Akash mallige	12° 59' 48.4928" N / 77° 40' 6.3615" E	0.78	3.20	4.00	Translocation	Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling • There are minor defects on the trunk, however these defects do not impact survival of the tree species after translocation

SL No	Tree No.	Species	Location (Lat / Long)	GBH in Mtrs	Height in Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
	(B)		12° 59' 48.9094" N / 77° 40' 6.9630" E	0.62	2.40	4.00			• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling • There are minor defects on the trunk, however these defects do not impact survival of the tree species after translocation
19	45 (A)	Hole dasa-vala	12° 59' 48.7054" N / 77° 40' 7.8231" E	0.34	2.80	3.00	Translocation	Translocation	• Tree is present within the project area • Even though, tree has forked branches, and the girth of both trunk is feasible for transplanting. • Appropriate root ball can be excavated.
	(B)		12° 59' 48.7380" N / 77° 40' 7.8234" E	0.44	2.70	3.50			• Tree is present within the project area • Even though, tree has forked branches, and the girth of both trunk is feasible for transplanting. • Appropriate root ball can be excavated.
20	46	Dali-chandra	12° 59' 49.0333" N / 77° 40' 7.5613" E	0.71	5.20	4.00	Translocation	Translocation	• Tree is present within the project area • Drainage is very close to one side of the tree, therefore care should be taken during the preparation process of root ball for translocation • Tree is with feasible girth size for translocation
21	47	honge	12° 59' 49.1644" N / 77° 40' 7.4632" E	0.73	3.50	4.00	Translocation	Translocation	• Tree is present within the project area • Drainage is very close to one side of the tree, therefore care should be taken during the preparation process of root ball for translocation • Tree is with feasible girth size for

SL No	Tree No.	Species	Location (Lat / Long)	GBH in Mtrs	Height In Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
									translocation
22	48	Ava-landa	12° 59' 44.8174" N / 77° 39' 56.9035" E	0.67	5.90	2.00	Translocation	Translocation	• Tree is present within the project area • Tree is leaned towards the temple compound wall, care should be taken to manage required canopy size while transplanting. • Appropriate root ball can be excavated
23	49	Hole dasa-vala	12° 59' 46.6257" N / 77° 40' 1.3337" E	0.55	5.30	5.00	Translocation	Translocation	• Tree is present within the project area • Tree is feasible girth size for translocation • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball.
24	58	Akash mallige	12° 59' 46.6568" N / 77° 40' 1.4667" E	0.26	2.5	0.50	Translocation	Translocation	• Tree is present within the project area and near the staircase near to flyover, and tree is having feasible girth size for translocation • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball.

SL No	Tree No.	Species	Location (Lat / Long)	GBH in Mtrs	Height in Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
25	61	Rose Wood Tree	12° 59' 46.7205" N / 77° 40' 1.6001" E	0.71	8.00	5.00	Translocation	Translocation	• Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball Tree with straight bole and feasible girth size for translocation
26	62	Rose Wood Tree	12° 59' 46.8787" N / 77° 40' 2.0329" E	0.76	7.00	6.00	Translocation	Translocation	• Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball Tree with straight bole and feasible girth size for translocation
27	63	Rose Wood Tree	12° 59' 46.9098" N / 77° 40' 2.1659" E	0.95	10.00	6.00	Translocation	Translocation	• Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree with feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation.
28	64	Rose Wood Tree	12° 59' 46.9732" N / 77° 40' 2.3324" E	0.53	4.00	4.00	Translocation	Translocation	• Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball Young tree with straight bole and feasible girth size (0.5 meter) for translocation

SL No	Tree No.	Species	Location (Lat / Long)	GBH in Mtrs	Height in Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
29	65	Rose Wood Tree	12° 59' 47.0043" N / 77° 40' 2.4654" E	0.79	8.00	4.00	Translocation	Translocation	• Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball Even though tree with little leaned/bend and it is having feasible girth size for translocation
30	66	Rose Wood Tree	12° 59' 47.0677" N / 77° 40' 2.6319" E	0.89	8.00	4.50	Translocation	Translocation	• Tree is present within the project are, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball Tree with straight bole and feasible girth size for translocation
31	67	Rose Wood Tree	12° 59' 47.1313" N / 77° 40' 2.7652" E	0.74	8.00	4.00	Translocation	Translocation	• Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball Tree with straight bole and feasible girth size for translocation
32	68	Rose Wood Tree	12° 59' 47.1625" N / 77° 40' 2.8982" E	0.77	8.00	3.50	Translocation	Translocation	• Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree with straight bole and feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for

SL No	Tree No.	Species	Location (Lat / Long)	GBH in Mtrs	Height in Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
									translocation.
33	69	Rose Wood Tree	12° 59' 47.2255" N / 77° 40' 3.0979" E	0.71	8.00	4.00	Translocation	Translocation	• Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree with feasible girth size for translocation Even though trunk of the tree is debarked due to physical damaged, recommended for translocation.
34	70	Rose Wood Tree	12° 59' 47.2570" N / 77° 40' 3.1977" E	1.18	8.00	5.00	Translocation	Translocation	• Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree with feasible girth size for translocation Even though trunk of the tree is debarked due to physical damaged, recommended for translocation.

SL No	Tree No.	Species	Location (Lat / Long)	GBH in Mtrs	Height in Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
35	71	Rose Wood Tree	12° 59' 47.4788" N / 77° 40' 3.7639" E	0.71	11.00	4.50	Translocation	Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree with feasible girth size for translocation Even though trunk of the tree is debarked due to physical damaged, recommended for translocation
36	72	Rose Wood Tree	12° 59' 47.5421" N / 77° 40' 3.9304" E	0.71	7.00	5.00	Translocation	Translocation	• Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree with straight bole and feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation.
37	74	Rose Wood Tree	12° 59' 47.5733" N / 77° 40' 4.0634" E	0.76	8.00	5.00	Translocation	Translocation	• Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree with feasible girth size for translocation Even though trunk of the tree is debarked due to physical damaged, recommended for translocation.

SL No	Tree No.	Species	Location (Lat / Long)	GBH in Mtrs	Height in Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
38	75	Rose Wood Tree	12° 59' 47.6366" N / 77° 40' 4.2299" E	0.68	7.00	5.00	Translocation	Translocation	• Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball Young tree with straight bole and feasible girth size (0.7meter) for translocation
39	76	Rose Wood Tree	12° 59' 47.6674" N / 77° 40' 4.3960" E	0.61	7.00	5.50	Translocation	Translocation	• Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Young tree with straight bole and feasible girth size (0.58 meter) for translocation Not found any significant visual symptoms, hence qualifies for translocation
40	77	Rose Wood Tree	12° 59' 47.8906" N / 77° 40' 4.8295" E	0.64	6.00	4.40	Translocation	Translocation	• Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Young tree with straight bole and feasible girth size (0.60 meter) for translocation Not found any significant visual symptoms, hence qualifies for translocation

ApplicationNo.:BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368Date.20.11.2020

*Location:*BenniganahalliTankBund

SL No	Tree No.	Species	Location (Lat / Long)	GBH in Mtrs	Height in Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
41	78	Rose Wood Tree	12° 59' 47.8900" N / 77° 40' 4.8959" E	0.61	4.00	2.50	Translocation	Translocation	• Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Young tree with straight bole and feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation
42	80	Rose Wood Tree	12° 59' 47.9218" N / 77° 40' 4.9625" E	0.75	7.00	5.00	Translocation	Translocation	• Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree having straight bole and feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation
43	81	Rose Wood Tree	12° 59' 48.0163" N / 77° 40' 5.2620" E	0.60	4.00	5.00	Translocation	Translocation	• Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree with feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation

SL No	Tree No.	Species	Location (Lat / Long)	GBH in Mtrs	Height in Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
44	82	Rose Wood Tree	12° 59' 48.0800" N / 77° 40' 5.3954" E	0.46	3.50	3.50	Translocation	Translocation	• Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Young tree having straight bole and feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation.
45	83	Rose Wood Tree	12° 59' 48.1436" N / 77° 40' 5.5287" E	0.63	6.00	4.50	Translocation	Translocation	• Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Even though trunk of this tree is physically/mechanically damaged and attacked by some wood borer, recommended for translocation. • Tree may reequip with new environment by adopting proper translocation measures.
46	84	Rose Wood Tree	12° 59' 48.1748" N / 77° 40' 5.6617" E	0.61	6.00	3.00	Translocation	Translocation	• Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Young tree having straight bole and feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation.

*ApplicationNo.:*BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368Date.20.11.2020

*Location:*BenniganahalliTankBund

SL No	Tree No.	Species	Location (Lat / Long)	GBH in Mtrs	Height in Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
47	85	Rose Wood Tree	12° 59' 48.3021" N / 77° 40' 5.9284" E	0.83	8.00	5.00	Translocation	Translocation	• Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Young tree having straight bole and feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation.
48	86	Rose Wood Tree	12° 59' 48.3655" N / 77° 40' 6.0949" E	0.67	8.00	4.50	Translocation	Translocation	• Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Young tree having straight bole and feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation.
49	88	Rose Wood Tree	12° 59' 48.4291" N / 77° 40' 6.2282" E	0.55	4.00	4.00	Translocation	Translocation	• Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Young tree having straight bole and feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation.

ApplicationNo.:BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368Date.20.11.2020

*Location:*BenniganahalliTankBund

SL No	Tree No.	Species	Location (Lat / Long)	GBH in Mtrs	Height in Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
50	89 (A)	Rose Wood Tree	12° 59' 48.5565" N / 77° 40' 6.4949" E	0.56	6.00	4.00	Translocation	Translocation	• Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Tree is having forked branches at 0.5 meter from ground level and it qualifies for excavation of applicable root ball Not found any significant visual symptoms, hence qualifies for translocation.
	(B)	Rose Wood Tree	12° 59' 42.4417" N / 77° 39' 53.8933" E	0.67	6.00	4.00			• Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Tree is having forked branches at 0.5 meter from ground level and it qualifies for excavation of applicable root ball Not found any significant visual symptoms, hence qualifies for translocation.
51	90	Rose Wood Tree	12° 59' 42.4739" N / 77° 39' 53.9269" E	0.69	9.00	4.00	Translocation	Translocation	• Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball Even though tree trunk is mechanically damaged and it is attacked by wood borer, recommended for transplanting, this tree may reequip, since the metabolic activity of young aged tree is more, but transplantation has to be done with scientifically.

ApplicationNo.:BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368Date.20.11.2020

*Location:*BenniganahalliTankBund

SL No	Tree No.	Species	Location (Lat / Long)	GBH in Mtrs	Height in Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
52	91	Rose Wood Tree	12° 59' 42.6348" N / 77° 39' 54.0944" E	0.83	8.00	5.00	Translocation	Translocation	• Tree is present within the project area, • No adverse construction impacts or instrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree having feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation.

Summary:

Total Number of Enumerated Trees	**91**
Total number of trees permitted for removal by translocation	**52**

Date: 02.03.2021

Tree Officer &
Deputy Conservator Of Forests,
Bangalore Urban Division, Bangalore.

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

TEMPLATE No. 6

PARTICULARS ON TREES TO BE FELLED*

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

<table>
<tr><td>Name of the user agency</td><td colspan="5">Bangalore Metro Rail Corporation Limited</td></tr>
<tr><td>Purpose of the project</td><td colspan="5">Construction Metro Rail Elevated and Station Structures c, Road diversion works and construction of Diaphragm Wall from Baiyapanahalli to Whitefield</td></tr>
<tr><td>Extent of the project area</td><td colspan="5">Benniganahalli Tank Bund Area
380 Mts Lrngth and 15 Mts Width</td></tr>
<tr><td>Location of the project area</td><td colspan="5">Benniganahalli Tank Bund
<table><tr><th>Sl. No</th><th>Easting (m)</th><th>Northing (m)</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>789086</td><td>1438104</td><td>12° 59' 42.2815" N</td><td>77° 39' 53.6595" E</td></tr><tr><td>5</td><td>789502</td><td>1438322</td><td>12° 59' 49.2288" N</td><td>77° 40' 7.5302" E</td></tr></table></td></tr>
<tr><td>Number of tree(s) enumerated in the project area</td><td colspan="5">119</td></tr>
<tr><td>Number of tree(s) recommended for felling</td><td colspan="5">39</td></tr>
</table>

* 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: 02.03.2021

Tree Officer

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

*ApplicationNo.:*BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368Date.20.11.2020

*Location:*BenniganahalliTankBund

List of trees permitted for Felling

Appendix -2

SL No	Tree No.	Species	Location (Lat / Long)	GBH In Mtrs	Height In Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
1	04 (A)	Peepal Tree	12° 59' 42.7327" N / 77° 39' 54.0623" E	1.05	7.30	12.50	Felling	Felling	• Tree is present within the project area with multiforked trunks • Girth size is large; therefore, excavation of root ball proportionate to girth of the tree is not feasible in the site • Tree is surrounded by built-in concrete structures • Tree is infested with termites at the base
	(B)		12° 59' 42.7327" N / 77° 39' 54.0623" E	0.96	7.60				• Tree is present within the project area with multiforked trunks• Girth size is large; therefore, excavation of root ball proportionate to girth of the tree is not feasible in the site • Tree is surrounded by built-in concrete structures • Tree is infested with termites at the base
	(C)		12° 59' 42.7327" N / 77° 39' 54.0623" E	0.45	7.10				• Tree is present within the project area with multiforked trunks • Girth size is large; therefore, excavation of root ball proportionate to girth of the tree is not feasible in the site • Tree is surrounded by built-in concrete structures • Tree is infested with termites at the base
	(D)		12° 59' 42.7327" N / 77° 39' 54.0623" E	0.65	7.20				• Tree is present within the project area with multiforked trunks • Girth size is large; therefore, excavation of root ball proportionate to girth of the tree is not feasible in the site • Tree is surrounded by built-in concrete structures • Tree is infested with termites at the base

SL No	Tree No.	Species	Location (Lat / Long)	GBH In Mtrs	Height In Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
	(E)		12° 59' 42.7327" N / 77° 39' 54.0623" E	1.50	6.90				• Tree is present within the project area with multiforked trunks • Girth size is large; therefore, excavation of root ball proportionate to girth of the tree is not feasible in the site • Tree is surrounded by built-in concrete structures • Tree is infested with termites at the base
	(F)		12° 59' 42.7327" N / 77° 39' 54.0623" E	1.10	6.80				• Tree is present within the project area with multiforked trunks • Girth size is large; therefore, excavation of root ball proportionate to girth of the tree is not feasible in the site • Tree is surrounded by built-in concrete structures • Tree is infested with termites at the base
2	10	Bagane tree	12° 59' 44.1790" N / 77° 39' 55.7359" E	0.67	3.90	3.00	Felling	Felling	• Tree is present within the project area • Top portion of trunk of the tree is broken and does not qualify for translocation / transplantation
3	11 (A)	Caesalpinia Pulcherrima	12° 59' 44.2440" N / 77° 39' 55.7366" E	0.30	3.80	3.00	Felling	Felling	• Tree is present within the project area • Portion of top canopy of the tree are dried, as the canopy touches and rubs on the parapet of nearby flyover • Tree does not fit for transplantation / translocation
	(B)		12° 59' 44.2440" N / 77° 39' 55.7366" E	0.26	3.20				• Tree is present within the project area Tree is present within the project area • Portion of top canopy of the tree are dried, as the canopy touches and rubs on the parapet of nearby flyover • Tree does not fit for transplantation / translocation

ApplicationNo.:BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368Date.20.11.2020

*Location:*BenniganahalliTankBund

SL No	Tree No.	Species	Location (Lat / Long)	GBH In Mtrs	Height In Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
4	16	Tabebuia avellanedae	12° 59' 44.9848" N / 77° 39' 56.4410" E	0.27	3.50	2.00	Felling	Felling	• Tree is present within the project area with feasible girth size for translocation • Basal portion of the tree is injured severely showing canker face • The branch arising at about 1.5m from the base is dead with included barks in the forked region, therefore the tree does not fit for transplantation / translocation
5	17	Tabebuia avellanedae	12° 59' 44.8862" N / 77° 39' 56.5394" E	0.35	3.50	3.00	Felling	Felling	• Tree is present within the project area with feasible girth size for translocation • Forked at 1.5m from the base • Tree is with canker due to injury at the base • A branch had been ripped from a trunk, where 50% of portion of girth of the tree was removed • These conditions as mentioned above makes the tree unfit for transplantation / translocation
6	20	Spathodea Tree	12° 59' 44.6230" N / 77° 39' 56.8351" E	1.85	6.00	8.00	Felling	Felling	• Tree is present within the project area • Girth size is large, therefore excavation of root ball proportionate to girth may not be feasible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
7	24	Rain Tree	12° 59' 45.3234" N / 77° 39' 58.3018" E	1.62	7.30	10.00	Felling	Felling	• Tree is present within the project area and is present very close to an sewage / drainage channel • Girth size is large, therefore excavation of root ball proportionate to girth may affect the existing drainage channel near to the tree • These conditions as mentioned above categorize the tree under felling, as a last resort

ApplicationNo.:BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368Date.20.11.2020

*Location:*BenniganahalliTankBund

SL No	Tree No.	Species	Location (Lat / Long)	GBH In Mtrs	Height In Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
8	25	Akash mallige	12° 59' 45.2204" N / 77° 39' 58.8314" E	0.75	6.90	4.50	Felling	Felling	• The tree is already dead
9	26	Akash mallige	12° 59' 45.1876" N / 77° 39' 58.8642" E	0.68	6.40	3.00	Felling	Felling	• The tree is already dead
10	27	Challa	12° 59' 45.1872" N / 77° 39' 58.8973" E	0.55	6.50	3.00	Felling	Felling	• Tree is present within the project area and is present very close to the flyover • Forked at 1.5m from the base and the top is broken • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
11	28	Akash mallige	12° 59' 45.2499" N / 77° 39' 59.1302" E	0.59	6.20	4.00	Felling	Felling	• Tree is present within the project area and is present very close to the flyover • Trunk is conjoined at the base with tree no. 29 • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort

ApplicationNo.:BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368Date.20.11.2020

*Location:*BenniganahalliTankBund

SL No	Tree No.	Species	Location (Lat / Long)	GBH In Mtrs	Height In Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
12	29 (A)	Peltoforum Pterocarpum Tree	12° 59' 45.2827" N / 77° 39' 59.0974" E	0.76	7.10	4.50	Felling	Felling	• Tree is present within the project area and is present very close to the flyover • Forked trunk conjoined at the base with tree no. 28 • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
	(B)		12° 59' 45.2827" N / 77° 39' 59.0974" E	0.67	6.90	4.50			• Tree is present within the project area and is present very close to the flyover • Forked trunk conjoined at the base with tree no. 28 • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
	(C)		12° 59' 45.2827" N / 77° 39' 59.0974" E	0.46	6.80	3.50			• Tree is present within the project area and is present very close to the flyover • Forked trunk conjoined at the base with tree no. 28 • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort

ApplicationNo.:BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368Date.20.11.2020

*Location:*BenniganahalliTankBund

SL No	Tree No.	Species	Location (Lat / Long)	GBH In Mtrs	Height In Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
13	30	Subabul Tree	12° 59' 45.3139" N / 77° 39' 59.2303" E	0.95	7.10	6.50	Felling	Felling	• Tree is present within the project area and is present very close to the flyover • Trunk is with vertical crack exposing the decayed internal woody structure of the tree • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
14	31 (A)	Akash mallige	12° 59' 45.3461" N / 77° 39' 59.2639" E	0.67	6.70	3.00	Felling	Felling	• Tree is present within the project area and is present very close to the flyover • Tree is multiforked with main trunk showing vertical crack exposing the decayed internal woody structure of the tree • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
	(B)		12° 59' 45.3461" N / 77° 39' 59.2639" E	0.37	6.60	1.50			• Tree is present within the project area and is present very close to the flyover • Tree is multiforked with main trunk showing vertical crack exposing the decayed internal woody structure of the tree • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort

ApplicationNo.:BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368Date.20.11.2020

*Location:*BenniganahalliTankBund

SL No	Tree No.	Species	Location (Lat / Long)	GBH In Mtrs	Height In Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
15	32 (A)	Akash mallige	12° 59' 45.3454" N / 77° 39' 59.3302" E	0.43	6.30	3.00	Felling	Felling	• Tree is present within the project area and is present very close to the flyover • Forked trunk with decayed base • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
	(B)		12° 59' 45.3454" N / 77° 39' 59.3302" E	0.58	7.10				• Tree is present within the project area and is present very close to the flyover • Forked trunk with decayed base • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
16	33	Su-babul Tree	12° 59' 45.3776" N / 77° 39' 59.3637" E	0.93	6.20	4.00	Felling	Felling	• Tree is present in the project area • The tree is already dead.
17	34	Akash mallige	12° 59' 45.3772" N / 77° 39' 59.3968" E	0.39	4.30	1.50	Felling	Felling	• Tree is present in the project area • The tree is already dead.
18	35	Su-babul Tree	12° 59' 45.3772" N / 77° 39' 59.3968" E	0.58	3.90	1.00	Felling	Felling	• Tree is present in the project area • The tree is already dead.

SL No	Tree No.	Species	Location (Lat / Long)	GBH In Mtrs	Height In Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
19	36	Su-babul Tree	12° 59' 45.5696" N / 77° 39' 59.6642" E	0.93	4.90	8.00	Felling	Felling	• Tree is present within the project area and is present very close to the flyover • Trunk of the tree is inclined with canker formation at the base exposing the decayed internal woody structure of the tree • Presence of epicormic shoots on the tree indicates the tree under stress • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
20	37	Rain Tree	12° 59' 45.6008" N / 77° 39' 59.7972" E	1.50	5.70	10.00	Felling	Felling	• Tree is present within the project area and is present very close to the flyover • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
21	38	Su-babul Tree	12° 59' 45.5672" N / 77° 39' 59.8963" E	0.53	4.80	1.50	Felling	Felling	• Tree is present within the project area and is present very close to the flyover • The tree is inclined with canker formation due to mechanical injury visible at the base and mid portion of the trunk of the tree • The branches are broken at the top • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort

ApplicationNo.:BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368Date.20.11.2020

*Location:*BenniganahalliTankBund

SL No	Tree No.	Species	Location (Lat / Long)	GBH In Mtrs	Height In Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
22	39	Su-babul Tree	12° 59' 45.6953" N / 77° 40' 0.0967" E	0.56	3.90	1.50	Felling	Felling	• Tree is present within the project area, inclined and is present very close to the flyover • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
23	40 (A)	Ficus	12° 59' 45.6946" N / 77° 40' 0.1630" E	0.57	4.10	2.50	Felling	Felling	• Tree is present within the project area, inclined and is present very close to the flyover • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
	(B)		12° 59' 45.6946" N / 77° 40' 0.1630" E	0.73	3.90				• Tree is present within the project area, inclined and is present very close to the flyover • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
24	41	Su-babul Tree	12° 59' 45.7572" N / 77° 40' 0.3958" E	0.63	6.90	1.50	Felling	Felling	• Tree is present within the project area and is present very close to the flyover • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort

SL No	Tree No.	Species	Location (Lat / Long)	GBH In Mtrs	Height In Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
25	42 (A)	Subabul Tree	12° 59' 45.9791" N / 77° 40' 0.9620" E	0.95	6.80	3.00	Felling	Felling	• Tree is present within the project area and is present very close to the flyover • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
	(B)		12° 59' 45.9791" N / 77° 40' 0.9620" E	0.62	5.20	0.50			• Tree is present within the project area and is present very close to the flyover and Obstructing Road widening works and Pile, pile cap of BP39A. • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
	(C)		12° 59' 45.9791" N / 77° 40' 0.9620" E	0.56	3.00	0.50			• Tree is present within the project area and is present very close to the flyover • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
	(D)		12° 59' 45.9791" N / 77° 40' 0.9620" E	0.62	3.00	0.50			• Tree is present within the project area and is present very close to the flyover • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort

ApplicationNo.:BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368Date.20.11.2020

*Location:*BenniganahalliTankBund

SL No	Tree No.	Species	Location (Lat / Long)	GBH In Mtrs	Height In Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
26	43	Subabul Tree	12° 59' 46.1068" N / 77° 40' 1.1955" E	0.55	4.80	1.00	Felling	Felling	• Tree is present within the project area and is present very close to the flyover • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
27	50 (A)	Bili Kana-galu	12° 59' 44.9492" N / 77° 39' 56.7391" E	0.34	1	3.00	Felling	Felling	• Tree is present within the project area • Tree has forked branches and basal portion of the tree is little injured • All the branches of this tree pruned, therefore the tree does not fit for transplantation / translocation
	(B)		12° 59' 44.9492" N / 77° 39' 56.7391" E	0.25	1	1.00			• Tree is present within the project area • Tree has forked branches and basal portion of the tree is little injured • All the branches of this tree pruned, therefore the tree does not fit for transplantation / translocation
28	51	Tabe-buia avell-anedae	12° 59' 45.0471" N / 77° 39' 56.7070" E	0.38	2.50	0.10	Felling	Felling	• Tree is present within the project area • Tree is completely dried/dead with fungal fruiting bodies.
29	52	Bou-gain-villea Tree	12° 59' 45.0461" N / 77° 39' 56.8065" E	0.46	2.50	1.00	Felling	Felling	• Tree is present within the project area • Tree is completely dried/dead • Hence recommended for Felling
30	53	Bili Kana-galu	12° 59' 45.0129" N / 77° 39' 56.8724" E	0.38	1.5	1.00	Felling	Felling	• Tree is present within the project area • All the branches of this tree pruned, therefore the tree does not fit for transplantation / translocation.
31	54	Akash mallige	12° 59' 44.9475" N / 77° 39' 56.9049" E	0.26	3.00	1.50	Felling	Felling	• Tree is present within the project area • Tree is completely dried/dead

ApplicationNo.:BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368Date.20.11.2020

*Location:*BenniganahalliTankBund

SL No	Tree No.	Species	Location (Lat / Long)	GBH In Mtrs	Height In Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
32	55	Su-babulla	12° 59' 45.5056" N / 77° 39' 59.5640" E	0.72	4.00	4.00	Felling	Felling	• Tree is present within the project • Tree is completely dried/dead
33	56	Su-babulla	12° 59' 45.6014" N / 77° 39' 59.7309" E	0.53	4.00	-	Felling	Felling	• Tree is present within the project • Tree is completely dried/dead
34	57	Su-babulla	12° 59' 45.6011" N / 77° 39' 59.7640" E	0.58	4.00	1.50	Felling	Felling	• Tree is present within the project area • Tree is completely dried/dead
35	59 (A)	Kari jaali Tree	12° 59' 48.8738" N / 77° 40' 7.2611" E	0.31	2.00	5.00	Felling	Felling	• Tree is present within the project area • Forked from the base • These conditions as mentioned above categorize the tree under felling, as a last resort
	(B)		12° 59' 48.8738" N / 77° 40' 7.2611" E	0.30	2.00				• Tree is present within the project area • Forked from the base These conditions as mentioned above categorize the tree under felling, as a last resort
36	60 (A)	Kari jaali Tree	12° 59' 48.8396" N / 77° 40' 7.4265" E	0.26	2.00	2.50	Felling	Felling	• Tree is present within the project area • Forked from the base • These conditions as mentioned above categorize the tree under felling, as a last resort
	(B)		12° 59' 48.8396" N / 77° 40' 7.4265" E	0.25	2.00	2.00			• Tree is present within the project area • Forked from the base • These conditions as mentioned above categorize the tree under felling, as a last resort
37	73	Rose Wood Tree	12° 59' 47.3843" N / 77° 40' 3.4644" E	0.79	7.00	5.00	Felling	Felling	• Tree is present within the project area • Tree is completely dried/dead Trunk of this tree is physically damaged and also damaged by wood borer

ApplicationNo.:BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368Date.20.11.2020

*Location:*BenniganahalliTankBund

SL No	Tree No.	Species	Location (Lat / Long)	GBH In Mtrs	Height In Mtrs	Crown Spread	TEC Recommendation	Tree Officer Recommendation	Justification
38	79	Rose Wood Tree	12° 59' 47.7636" N / 77° 40' 4.5297" E	0.55	3.00	0.30	Felling	Felling	• Tree is present within the project area • Tree is completely dried/dead and its having fungal fruiting bodies.
39	87	Rose Wood Tree	12° 59' 48.2385" N / 77° 40' 5.7950" E	0.41	4.00	0.40	Felling	Felling	• Tree is present within the project area • Tree is completely dried/dead might be due to severe wood borers

Summary:

Total Number of Enumerated Trees	**91**
Total number of trees recommended for felling	**39**

Date: 02.03.2021

Tree Officer &
Deputy Conservator of Forests,
Bangalore Urban Division, Bangalore.

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

TEC REPORT

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

Date: 26.2.21

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368
Date: 20.11.2020
for Reach1A, Phase 2 of Bengaluru Metro Project

Location: Benniganahalli Tank Bund

II

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Content

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Report of Tree Expert Committee regarding permission sought by BMRCL undersection 8(2) and 8(3)(vii) of Karnataka Preservation of Trees Act.

Application No. BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

1. As per the orders of the Hon'ble High Court of Karnataka, the Memorandum of Procedure (herein after mentioned as "the 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 91 number of trees standing in the project area of Reach 1A of Phase 2 of the Project at Benniganahalli Tank Bund. The preliminary assessment was accompanied by following documents.

i. A copy of the application dated 20.11.2020 from BMRCL along with details and map of the area and the tree details including GPS coordinates.

ii. The Public Notice dated 21.11.2020 issued by the Tree Officer, a complete set of the objections from the public and a copy of the proceedings dated 12.12.2020 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 (dated12.12.2020) containing tree details as furnished by Range Forest Officer and Part II (dated13.12.2020) containing preliminary assessment of the Tree Officer for each of 91 trees proposed for removal by BMRCL.

iv. Abstract of the review of the BMRCL application and preliminary assessment oftrees 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 considerationof 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 in response to Public Notice, and findings of Tree Officer:

3. The BMRCL application, public notice, all objections from the public, findings of the Tree Officer, and his proceedings were perused systematically by the TEC in its meetingheld on 17.12.2020. 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 total 107 number of objections and comments have been received in response to the public notice issued. The objections mostly relate to formal consultation with the residents around the lake area, preserving the natural source of greenery which act as catalyst and lungs for the area, sustainable growth and a balanced decision suitable to stake holders, and no necessity of Metro in the post pandemic period. Few of the objectorshave sought a public consultation / meeting with all stakeholders. Regarding these subjects, it was enquired from Tree Officer and he responded that utmost efforts are being taken to maintain the greenery of Bengaluru and the provisions of KPT Act 1976 envisaging issue of Public Notice to invite the objections from the public are being followed and the same are being considered by the Tree Officer. The TEC concurred with the replies furnished by the Tree Officer regarding the Objections received in response to public notice.

5. The TEC had 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 15.12.2020, including the statement exhibiting the tree details, preliminary assessment and justification for on-site retention / translocation / felling. TheTEC 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 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 fieldinspection of each tree.

   The TEC decided to verify the preliminary assessment by Tree Officer and for that purpose scheduled the field inspection on 19.12.2020.

8. The proceedings of the TEC regarding the above-mentioned review as per

Step-6 ofthe MOP is attached to this report as Annexure-4.

Field Inspection by TEC:

9. The field inspection for assessment of trees standing in Reach1A, Phase 2 of the Metro project area at Benniganahalli Tank Bund was carried out by the TEC on 19.12.2020.

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

   Following activities were carried out by the TEC for assessment of each tree in the project area.

   i. Physical verification of the tree number and the associated information collected bythe 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.

   ii. Confirmation regarding those trees being inside the project construction area.

   iii. Review of preliminary assessment of trees made by the Tree Officer in the Template 2 Part-II.

   iv. Discussion with BMRCL Representatives to explore possibility of carrying out the construction without removal of trees, and identification of such trees whichcan be retained on-site.

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

   vi. 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 procedureand prioritization formulated in Step-7 of the MOP.

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

Post Inspection Review and Report Preparation:

10. Having completed the field inspection on 19.12.2020 the TEC met to deliberate and review its findings and assessment and further to formulate its recommendations and prepare the report for those trees present in the project area categorized as follows;

a) Total number of enumerated trees standing in the project area – 119 Trees (as per Public Notice)
b) Total number of trees present within the project area, but not hindering any of the project activities – 28 (as observed by TEC during Field Inspection)
c) Total number of trees required for removal by BMRCL as per their application – 91 Trees

On-site Retention: The TEC observed that though there are 28 other trees standing in the project area but they are not hindering the project activities. BMRCL authorities have not sought the removal of these trees and they assured that these 28 trees shall be retained at their respective locations. Hence TEC recommends for On-site Retention of these 28 trees at the spot.

11. As verified during the field inspection, all the 91 trees which have been proposed for removal by BMRCL, are falling within the following physical features of Metro Project.

Physical features	Tree Nos.
New Road formation as the Metro Portal piers will be erected on the existing road	1 2 3 4 5 6 7 8 9 44 45 46 47 48 49 58 59 60 90 91 (Total 20 Nos.)
Construction of Retaining Wall for entry portion of Lake Bund	10 11 12 20 21 (Total 5 Nos)
Construction of Diaphragm Wall for remaining portion of Lake Bund	13 14 15 16 17 18 19 24 50 51 52 53 54 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 (Total 42 Nos.)
Structural Works (Pile cap location over which the pier will come)	22 23 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 55 56 57 (Total 24 Nos)

Since the trees are standing right in the middle of the construction area and hindering the project activities, the TEC concluded that none of these 91 trees can be retained onsite.

12. **Translocation:** Having concluded that the retention of the above mentioned 91 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 the nearby flyover structures, trunks proximity to the

cement / concreteor 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 / driedmajor 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 were specifically not recommended for the translocation.

Taking into consideration of the above mentioned assessment attributes, the TEC found that there are 52 number of trees at the site suitable for translocation.

13. The remaining 39 trees were not found suitable either for retention on-site or translocation and hence will have to be felled as a last resort depending on their general condition and location.

14. Assessment of sites for translocation: The TEC visited the following sites for the translocation as proposed by BMRCL and recommended by the Tree Officer.

i. Benniganahalli tank area (outside the project area)

ii. K.R. Puram Metro Station (Land acquired from Lowry School)

iii. Lowry School premises (Adjacent to K R Puram Metro Station)

BMRCL have recently suggested another area as follows which has been recommended by the Tree officer for translocation of trees purpose

iv. Kempegowda International Airport Areas

15. The Committee considered the soil test analysis report of the above three sites (i, ii & iii) as prepared by Department of Soil Science and Agricultural Chemistry, UAS, GKVK, Bangalore with following inference;

> "The 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 concurred with the said report of UAS, Bengaluru and found that translocation of trees can be done in the proposed sites vide para 14 (i,ii,iii) above

after following the advice as rendered by UAS, Bengaluru. The TEC also concurs with the recommendation of the Tree officer regarding translocation of trees at site vide para 14 (iv) above.

16. **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 could be saved by translocation 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 silviculturaly 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.

Total number of Trees assessed in the project area	**91**
Total number of Trees which can be retained on-site	**NIL**
Total number of Trees found suitable for translocation	**52**
Total number of Trees assessed for felling	**39**

    NOTE: The TEC also recommends for on-site retention of other 28 number of trees which are standing in the Project area but not affecting the Project activities. BMRCL has also not sought permission of removal of the said 28 trees. Hence, the same will have to retained on the present locations.

    The translocation should be carried out by competent agencies following the guidelines formulated by UAS, GKVK, a copy of which is placed as Annexure-7.

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

    i. Meticulous scrutiny of recommendations by the Tree Officer in compliance to the MOP;

    ii. Field inspection to assess each and every tree and record the status of tree and recommendation for its on-site retention / translocation / felling, besides inspecting the three translocation sites stated at para 14 (i, ii & iii) above.

General Directions to BMRCL/DCF, Bengaluru Urban Division:

18. BMRCL should be advised to raise Compensatory Afforestation on suitable lands in respect of trees to be removed by translocation or felling. For each tree removed, 10 Nos of tall and 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.

Record keeping:

19. 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 bemaintained carefully.

20. An abstract of the recommendation of the TEC in Template 4 and a detailed statement containing the recommendations with justification for each of the 91 trees covered in the application are appended as Appendix to this report.

Dt: 26.2.21

Member Secretary, TEC
& Assistant Conservator of Forests, BBMP
Bengaluru

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020
Location: Benniganahalli Tank Bund

TEMPLATE No. 4

ABSTRACT OF TEC REPORT

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

<table>
<tr><td>Name of the user agency</td><td>Bangalore Metro Rail Corporation Limited</td></tr>
<tr><td>Purpose of the project</td><td>Construction Metro Rail Elevated and Station Structures, Road diversion works and construction of Diaphragm Wall from Baiyapanahalli to Whitefield</td></tr>
<tr><td>Extent of the project area</td><td>Benniganahalli Tank Bund Area
380 Mts Length and 15 Mts Width</td></tr>
<tr><td>Location of the project area</td><td>Benniganahalli Tank Bund
<table>
<tr><th>Sl. No</th><th>Easting (m)</th><th>Northing (m)</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>1</td><td>789086</td><td>1438104</td><td>12° 59' 42.2815" N</td><td>77° 39' 53.6595" E</td></tr>
<tr><td>5</td><td>789502</td><td>1438322</td><td>12° 59' 49.2288" N</td><td>77° 40' 7.5302" E</td></tr>
</table></td></tr>
<tr><td>Number of tree(s) enumerated in the project area</td><td>119</td></tr>
<tr><td>Number of tree(s) proposed for removal by user agency</td><td>91</td></tr>
<tr><td>Overall opinion on objections from the public</td><td>Preserving the natural resource of greenery and involvement of public at decision making level</td></tr>
<tr><td>Number of tree(s) recommended for on-site retention</td><td>NIL*</td></tr>
<tr><td>Number of tree(s) recommended for transplantation / translocation</td><td>52</td></tr>
<tr><td>Number of tree(s) recommended for felling</td><td>39</td></tr>
</table>

* Note: There are 28 other trees standing in project area, which are not proposed for removal. Those should be retained at their current locations.

Member Secretary, TEC
& Assistant Conservator of Forests, BBMP
Bengaluru

Appendix

Recommendations and justification for on-site retention / translocation / felling of trees by Tree Expert Committee

Case / Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date.20.11.2020

Project Area: **Benniganahalli Tank Bund**

List 1: Trees recommended for Translocation

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
1	01	Akash mallige	12° 59' 42.4417" N / 77° 39' 53.8933" E	1.30	7.50	• **Translocation** • Tree is present within the project area with feasible girth size for translocation • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling • Care should be taken during the preparation of tree for translocation for pruning small sized girdled roots and dried branches • Root ball dimensions should be appropriate in consideration to tree no.2, as there is probability of overlapping of root balls of tree no. 1 and 2

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
2	02	Akash mallige	12° 59' 42.4739" N / 77° 39' 53.9269" E	0.89	7.60	• **Translocation** Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling • Root ball dimensions should be appropriate in consideration to root ball of tree no. 1 • Tree with feasible girth size for translocation
3	03	Neem Tree	12° 59' 42.6348" N / 77° 39' 54.0944" E	0.81	1.50	• **Translocation** • Tree is present within the project area • Tree is surrounded by concrete structures; therefore, care should be taken during the preparation process of root ball for translocation • Tree with feasible girth size for translocation
4	05	Hole dasa-vala	12° 59' 42.8939" N / 77° 39' 54.1967" E	0.49	2.50	• **Translocation** • Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling
5	06	Ficus Bengali	12° 59' 43.0541" N / 77° 39' 54.4305" E	2.00	4.00	• **Translocation** • Tree is present within the project area with feasible girth size for translocation, • The dead portion of broken trunk should be pruned scientifically while preparing the tree for translocation • Care should be taken during preparation of root ball as a portion of roots are already exposed

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
6	07	Hole dasa-vala	12° 59' 43.6032" N / 77° 39' 54.8012" E	0.52	3.10	• **Translocation** • Tree is present within the project area • Concrete blocks are very close to one side of the tree, therefore care should be taken during the preparation process of root ball for translocation • Tree is with feasible girth size for translocation
7	08	Hole dasa-vala	12° 59' 43.6343" N / 77° 39' 54.9342" E	0.69	2.10	• **Translocation** • Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling
8	09	Bagane tree	12° 59' 43.9880" N / 77° 39' 55.3359" E	1.12	5.80	• **Translocation** • Tree is present within the project area • Care should be taken during preparation of root ball as a portion of roots are already exposed
9	12	Bagane tree	12° 59' 44.2433" N / 77° 39' 55.8030" E	0.67	3.00	• **Translocation** • Tree is present within the project area with feasible girth size for translocation • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling
10	13	Hole dasavala	12° 59' 44.8930" N / 77° 39' 55.8762" E	0.86	4.60	• **Translocation** • Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling

13

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
11	14	Jamun Tree (Nerale)	12° 59' 44.7606" N / 77° 39' 56.1070" E	0.62	4.10	• **Translocation** • Tree is present within the project area with feasible girth size for translocation • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling
12	15	Hole dasa-vala	12° 59' 44.9540" N / 77° 39' 56.2749" E	0.96	6.10	• **Translocation** • Tree is present within the project area with feasible girth size for translocation • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling • There are minor defects on the trunk, however these defects do not impact survival of the tree after translocation
13	18	Kari jaali Tree	12° 59' 44.9177" N / 77° 39' 56.6393" E	0.99	4.30	• **Translocation** • Tree is present within the project area with feasible girth size for translocation • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling
14	19	Hole dasa-vala	12° 59' 45.0156" N / 77° 39' 56.6072" E	0.70	5.00	• **Translocation** • Tree is present within the project area with feasible girth size for translocation • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
15	21	Rain Tree	12° 59' 44.6220" N / 77° 39' 56.9346" E	0.72	7.30	• **Translocation** • Tree is present within the project area with feasible girth size for translocation • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling
16	22	Akash mallige	12° 59' 44.7829" N / 77° 39' 57.1021" E	0.41	4.60	• **Translocation** • Tree is present within the project area with feasible girth size for translocation • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling
17	23	Akash mallige	12° 59' 44.7825" N / 77° 39' 57.1353" E	1.35	7.10	• **Translocation** • Tree is present within the project area with feasible girth size for translocation • Tree is with multiple suckers which has to be pruned appropriately during the process of translocation • Care to be taken during excavation of root ball as the tree is present near to tree no. 22 • No adverse construction impacts or intrusions within the tree protection zone
18	44 (A)	Akash mallige	12° 59' 48.4928" N / 77° 40' 6.3615" E	0.78	3.20	• **Translocation** • Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling • There are minor defects on the trunk, however these defects do not impact survival of the tree species after translocation

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
	(B)		12° 59' 48.9094" N / 77° 40' 6.9630" E	0.62	2.40	• **Translocation** • Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling • There are minor defects on the trunk, however these defects do not impact survival of the tree species after translocation
19	45 (A)	Hole dasa-vala	12° 59' 48.7054" N / 77° 40' 7.8231" E	0.34	2.80	• **Translocation** • Tree is present within the project area • Even though, tree has forked branches, and the girth of both trunk is feasible for transplanting. • Appropriate root ball can be excavated.
	(B)		12° 59' 48.7380" N / 77° 40' 7.8234" E	0.44	2.70	• **Translocation** • Tree is present within the project area • Even though, tree has forked branches, and the girth of both trunk is feasible for transplanting. • Appropriate root ball can be excavated.
20	46	Dali-chandra	12° 59' 49.0333" N / 77° 40' 7.5613" E	0.71	5.20	• **Translocation** • Tree is present within the project area • Drainage is very close to one side of the tree, therefore care should be taken during the preparation process of root ball for translocation • Tree is with feasible girth size for translocation
21	47	honge	12° 59' 49.1644" N / 77° 40' 7.4632" E	0.73	3.50	• **Translocation** • Tree is present within the project area • Drainage is very close to one side of the tree, therefore care should be taken during the preparation process of root ball for translocation

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
						• Tree is with feasible girth size for translocation
22	48	Ava-landa	12° 59' 44.8174" N / 77° 39' 56.9035" E	0.67	5.90	• **Translocation** • Tree is present within the project area • Tree is leaned towards the temple compound wall, care should be taken to manage required canopy size while transplanting. • Appropriate root ball can be excavated
23	49	Hole dasa-vala	12° 59' 46.6257" N / 77° 40' 1.3337" E	0.55	5.30	• **Translocation** • Tree is present within the project area • Tree is feasible girth size for translocation • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball.
24	58	Akash mallige	12° 59' 46.6568" N / 77° 40' 1.4667" E	0.26	2.5	• **Translocation** • Tree is present within the project area and near the staircase near to flyover, and tree is having feasible girth size for translocation • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball.
25	61	Rose Wood Tree	12° 59' 46.7205" N / 77° 40' 1.6001" E	0.71	8.00	• **Translocation** • Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball Tree with straight bole and feasible girth size for

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
						translocation
26	62	Rose Wood Tree	12° 59' 46.8787" N / 77° 40' 2.0329" E	0.76	7.00	• **Translocation** • Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball Tree with straight bole and feasible girth size for translocation
27	63	Rose Wood Tree	12° 59' 46.9098" N / 77° 40' 2.1659" E	0.95	10.00	• **Translocation** • Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree with feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation.
28	64	Rose Wood Tree	12° 59' 46.9732" N / 77° 40' 2.3324" E	0.53	4.00	• **Translocation** • Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball Young tree with straight bole and feasible girth size (0.5 meter) for translocation

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
29	65	Rose Wood Tree	12° 59' 47.0043" N / 77° 40' 2.4654" E	0.79	8.00	• **Translocation** • Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball Even though tree with little leaned/bend and it is having feasible girth size for translocation
30	66	Rose Wood Tree	12° 59' 47.0677" N / 77° 40' 2.6319" E	0.89	8.00	• **Translocation** • Tree is present within the project are, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball Tree with straight bole and feasible girth size for translocation
31	67	Rose Wood Tree	12° 59' 47.1313" N / 77° 40' 2.7652" E	0.74	8.00	• **Translocation** • Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball Tree with straight bole and feasible girth size for translocation
32	68	Rose Wood Tree	12° 59' 47.1625" N / 77° 40' 2.8982" E	0.77	8.00	• **Translocation** • Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree with straight bole and feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation.

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
33	69	Rose Wood Tree	12° 59' 47.2255" N / 77° 40' 3.0979" E	0.71	8.00	• **Translocation** • Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree with feasible girth size for translocation Even though trunk of the tree is debarked due to physical damaged, recommended for translocation.
34	70	Rose Wood Tree	12° 59' 47.2570" N / 77° 40' 3.1977" E	1.18	8.00	• **Translocation** • Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree with feasible girth size for translocation Even though trunk of the tree is debarked due to physical damaged, recommended for translocation.
35	71	Rose Wood Tree	12° 59' 47.4788" N / 77° 40' 3.7639" E	0.71	11.00	• **Translocation** • Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree with feasible girth size for translocation Even though trunk of the tree is debarked due to physical damaged, recommended for translocation

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
36	72	Rose Wood Tree	12° 59' 47.5421" N / 77° 40' 3.9304" E	0.71	7.00	• **Translocation** • Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree with straight bole and feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation.
37	74	Rose Wood Tree	12° 59' 47.5733" N / 77° 40' 4.0634" E	0.76	8.00	• **Translocation** • Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree with feasible girth size for translocation Even though trunk of the tree is debarked due to physical damaged, recommended for translocation.
38	75	Rose Wood Tree	12° 59' 47.6366" N / 77° 40' 4.2299" E	0.68	7.00	• **Translocation** • Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball Young tree with straight bole and feasible girth size (0.7meter) for translocation

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
39	76	Rose Wood Tree	12° 59' 47.6674" N / 77° 40' 4.3960" E	0.61	7.00	• **Translocation** • Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Young tree with straight bole and feasible girth size (0.58 meter) for translocation Not found any significant visual symptoms, hence qualifies for translocation
40	77	Rose Wood Tree	12° 59' 47.8906" N / 77° 40' 4.8295" E	0.64	6.00	• **Translocation** • Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Young tree with straight bole and feasible girth size (0.60 meter) for translocation Not found any significant visual symptoms, hence qualifies for translocation
41	78	Rose Wood Tree	12° 59' 47.8900" N / 77° 40' 4.8959" E	0.61	4.00	• **Translocation** • Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Young tree with straight bole and feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
42	80	Rose Wood Tree	12° 59' 47.9218" N / 77° 40' 4.9625" E	0.75	7.00	• **Translocation** • Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree having straight bole and feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation
43	81	Rose Wood Tree	12° 59' 48.0163" N / 77° 40' 5.2620" E	0.60	4.00	• **Translocation** • Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree with feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation
44	82	Rose Wood Tree	12° 59' 48.0800" N / 77° 40' 5.3954" E	0.46	3.50	• **Translocation** • Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Young tree having straight bole and feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation.

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
45	83	Rose Wood Tree	12° 59' 48.1436" N / 77° 40' 5.5287" E	0.63	6.00	• **Translocation** • Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Even though trunk of this tree is physically/mechanically damaged and attacked by some wood borer, recommended for translocation. • Tree may reequip with new environment by adopting proper translocation measures.
46	84	Rose Wood Tree	12° 59' 48.1748" N / 77° 40' 5.6617" E	0.61	6.00	• **Translocation** • Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Young tree having straight bole and feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation.
47	85	Rose Wood Tree	12° 59' 48.3021" N / 77° 40' 5.9284" E	0.83	8.00	• **Translocation** • Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Young tree having straight bole and feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation.

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
48	86	Rose Wood Tree	12° 59' 48.3655" N / 77° 40' 6.0949" E	0.67	8.00	• **Translocation** • Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Young tree having straight bole and feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation.
49	88	Rose Wood Tree	12° 59' 48.4291" N / 77° 40' 6.2282" E	0.55	4.00	• **Translocation** • Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Young tree having straight bole and feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation.
50	89 (A)	Rose Wood Tree	12° 59' 48.5565" N / 77° 40' 6.4949" E	0.56	6.00	• **Translocation** • Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Tree is having forked branches at 0.5 meter from ground level and it qualifies for excavation of applicable root ball Not found any significant visual symptoms, hence qualifies for translocation.

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
	(B)	Rose Wood Tree	12° 59' 42.4417" N / 77° 39' 53.8933" E	0.67	6.00	• **Translocation** • Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Tree is having forked branches at 0.5 meter from ground level and it qualifies for excavation of applicable root ball Not found any significant visual symptoms, hence qualifies for translocation.
51	90	Rose Wood Tree	12° 59' 42.4739" N / 77° 39' 53.9269" E	0.69	9.00	• **Translocation** • Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball Even though tree trunk is mechanically damaged and it is attacked by wood borer, recommended for transplanting, this tree may reequip, since the metabolic activity of young aged tree is more, but transplantation has to be done with scientifically.
52	91	Rose Wood Tree	12° 59' 42.6348" N / 77° 39' 54.0944" E	0.83	8.00	• **Translocation** • Tree is present within the project area, • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree having feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation.

Summary:

Total number of enumerated trees proposed for removal in the Project Area	**91**
Total number of trees recommended for translocation	**52** (out of 91 trees)

List 2: Trees Recommended for Felling

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
1	04 (A)	Peepal Tree	12° 59' 42.7327" N / 77° 39' 54.0623" E	1.05	7.30	• **Felling** • Tree is present within the project area with multiforked trunks • Girth size is large; therefore, excavation of root ball proportionate to girth of the tree is not feasible in the site • Tree is surrounded by built-in concrete structures • Tree is infested with termites at the base
	(B)		12° 59' 42.7327" N / 77° 39' 54.0623" E	0.96	7.60	• **Felling** • Tree is present within the project area with multiforked trunks• Girth size is large; therefore, excavation of root ball proportionate to girth of the tree is not feasible in the site • Tree is surrounded by built-in concrete structures • Tree is infested with termites at the base
	(C)		12° 59' 42.7327" N / 77° 39' 54.0623" E	0.45	7.10	• **Felling** • Tree is present within the project area with multiforked trunks • Girth size is large; therefore, excavation of root ball proportionate to girth of the tree is not feasible in the site • Tree is surrounded by built-in concrete structures • Tree is infested with termites at the base

27

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
	(D)		12° 59' 42.7327" N / 77° 39' 54.0623" E	0.65	7.20	• **Felling** • Tree is present within the project area with multiforked trunks • Girth size is large; therefore, excavation of root ball proportionate to girth of the tree is not feasible in the site • Tree is surrounded by built-in concrete structures • Tree is infested with termites at the base
	(E)		12° 59' 42.7327" N / 77° 39' 54.0623" E	1.50	6.90	• **Felling** • Tree is present within the project area with multiforked trunks • Girth size is large; therefore, excavation of root ball proportionate to girth of the tree is not feasible in the site • Tree is surrounded by built-in concrete structures • Tree is infested with termites at the base
	(F)		12° 59' 42.7327" N / 77° 39' 54.0623" E	1.10	6.80	• **Felling** • Tree is present within the project area with multiforked trunks • Girth size is large; therefore, excavation of root ball proportionate to girth of the tree is not feasible in the site • Tree is surrounded by built-in concrete structures • Tree is infested with termites at the base
2	10	Bagane tree	12° 59' 44.1790" N / 77° 39' 55.7359" E	0.67	3.90	• **Felling** • Tree is present within the project area • Top portion of trunk of the tree is broken and does not qualify for translocation / transplantation
3	11 (A)	Caesalpinia Pulcherrima	12° 59' 44.2440" N / 77° 39' 55.7366" E	0.30	3.80	• **Felling** • Tree is present within the project area • Portion of top canopy of the tree are dried, as the canopy touches and rubs on the parapet of nearby

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
						flyover • Tree does not fit for transplantation / translocation
	(B)		12° 59' 44.2440" N / 77° 39' 55.7366" E	0.26	3.20	• **Felling** • Tree is present within the project area Tree is present within the project area • Portion of top canopy of the tree are dried, as the canopy touches and rubs on the parapet of nearby flyover • Tree does not fit for transplantation / translocation
4	16	Tabebuia avellanedae	12° 59' 44.9848" N / 77° 39' 56.4410" E	0.27	3.50	• **Felling** • Tree is present within the project area with feasible girth size for translocation • Basal portion of the tree is injured severely showing canker face • The branch arising at about 1.5m from the base is dead with included barks in the forked region, therefore the tree does not fit for transplantation / translocation
5	17	Tabebuia avellanedae	12° 59' 44.8862" N / 77° 39' 56.5394" E	0.35	3.50	• **Felling** • Tree is present within the project area with feasible girth size for translocation • Forked at 1.5m from the base • Tree is with canker due to injury at the base • A branch had been ripped from a trunk, where 50% of portion of girth of the tree was removed • These conditions as mentioned above makes the tree unfit for transplantation / translocation

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
6	20	Spathodea Tree	12° 59' 44.6230" N / 77° 39' 56.8351" E	1.85	6.00	• **Felling** • Tree is present within the project area • Girth size is large, therefore excavation of root ball proportionate to girth may not be feasible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
7	24	Rain Tree	12° 59' 45.3234" N / 77° 39' 58.3018" E	1.62	7.30	• **Felling** • Tree is present within the project area and is present very close to an sewage / drainage channel • Girth size is large, therefore excavation of root ball proportionate to girth may affect the existing drainage channel near to the tree • These conditions as mentioned above categorize the tree under felling, as a last resort
8	25	Akash mallige	12° 59' 45.2204" N / 77° 39' 58.8314" E	0.75	6.90	• **Felling** • The tree is already dead
9	26	Akash mallige	12° 59' 45.1876" N / 77° 39' 58.8642" E	0.68	6.40	• **Felling** • The tree is already dead
10	27	Challa	12° 59' 45.1872" N / 77° 39' 58.8973" E	0.55	6.50	• **Felling** • Tree is present within the project area and is present very close to the flyover • Forked at 1.5m from the base and the top is broken • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
11	28	Akash mallige	12° 59' 45.2499" N / 77° 39' 59.1302" E	0.59	6.20	• **Felling** • Tree is present within the project area and is present very close to the flyover • Trunk is conjoined at the base with tree no. 29 • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
12	29 (A)	Peltoforum Pterocarpum Tree	12° 59' 45.2827" N / 77° 39' 59.0974" E	0.76	7.10	• **Felling** • Tree is present within the project area and is present very close to the flyover • Forked trunk conjoined at the base with tree no. 28 • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
	(B)		12° 59' 45.2827" N / 77° 39' 59.0974" E	0.67	6.90	• **Felling** • Tree is present within the project area and is present very close to the flyover • Forked trunk conjoined at the base with tree no. 28 • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
	(C)		12° 59' 45.2827" N / 77° 39' 59.0974" E	0.46	6.80	• **Felling** • Tree is present within the project area and is present very close to the flyover • Forked trunk conjoined at the base with tree no. 28 • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
13	30	Subabul Tree	12° 59' 45.3139" N / 77° 39' 59.2303" E	0.95	7.10	• **Felling** • Tree is present within the project area and is present very close to the flyover • Trunk is with vertical crack exposing the decayed internal woody structure of the tree • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
14	31 (A)	Akash mallige	12° 59' 45.3461" N / 77° 39' 59.2639" E	0.67	6.70	• **Felling** • Tree is present within the project area and is present very close to the flyover • Tree is multiforked with main trunk showing vertical crack exposing the decayed internal woody structure of the tree • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
						tree under felling, as a last resort
	(B)		12° 59' 45.3461" N / 77° 39' 59.2639" E	0.37	6.60	• **Felling** • Tree is present within the project area and is present very close to the flyover • Tree is multiforked with main trunk showing vertical crack exposing the decayed internal woody structure of the tree • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
15	32 (A)	Akash mallige	12° 59' 45.3454" N / 77° 39' 59.3302" E	0.43	6.30	• **Felling** • Tree is present within the project area and is present very close to the flyover • Forked trunk with decayed base • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
	(B)		12° 59' 45.3454" N / 77° 39' 59.3302" E	0.58	7.10	• **Felling** • Tree is present within the project area and is present very close to the flyover • Forked trunk with decayed base • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
16	33	Su-babul Tree	12° 59' 45.3776" N / 77° 39' 59.3637" E	0.93	6.20	• **Felling** • Tree is present in the project area • The tree is already dead.
17	34	Akash mallige	12° 59' 45.3772" N / 77° 39' 59.3968" E	0.39	4.30	• **Felling** • Tree is present in the project area • The tree is already dead.
18	35	Su-babul Tree	12° 59' 45.3772" N / 77° 39' 59.3968" E	0.58	3.90	• **Felling** • Tree is present in the project area • The tree is already dead.
19	36	Su-babul Tree	12° 59' 45.5696" N / 77° 39' 59.6642" E	0.93	4.90	• **Felling** • Tree is present within the project area and is present very close to the flyover • Trunk of the tree is inclined with canker formation at the base exposing the decayed internal woody structure of the tree • Presence of epicormic shoots on the tree indicates the tree under stress • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
						close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
20	37	Rain Tree	12° 59' 45.6008" N / 77° 39' 59.7972" E	1.50	5.70	• **Felling** • Tree is present within the project area and is present very close to the flyover • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
21	38	Su-babul Tree	12° 59' 45.5672" N / 77° 39' 59.8963" E	0.53	4.80	• **Felling** • Tree is present within the project area and is present very close to the flyover • The tree is inclined with canker formation due to mechanical injury visible at the base and mid portion of the trunk of the tree • The branches are broken at the top • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
22	39	Su-babul Tree	12° 59' 45.6953" N / 77° 40' 0.0967" E	0.56	3.90	• **Felling** • Tree is present within the project area, inclined and is present very close to the flyover • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
23	40 (A)	Ficus	12° 59' 45.6946" N / 77° 40' 0.1630" E	0.57	4.10	• **Felling** • Tree is present within the project area, inclined and is present very close to the flyover • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
	(B)		12° 59' 45.6946" N / 77° 40' 0.1630" E	0.73	3.90	• **Felling** • Tree is present within the project area, inclined and is present very close to the flyover • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
24	41	Su-babul Tree	12° 59' 45.7572" N / 77° 40' 0.3958" E	0.63	6.90	• **Felling** • Tree is present within the project area and is present very close to the flyover • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
25	42 (A)	Subabul Tree	12° 59' 45.9791" N / 77° 40' 0.9620" E	0.95	6.80	• **Felling** • Tree is present within the project area and is present very close to the flyover • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
	(B)		12° 59' 45.9791" N / 77° 40' 0.9620" E	0.62	5.20	• **Felling** • Tree is present within the project area and is present very close to the flyover and Obstructing Road widening works and Pile, pile cap of BP39A. • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort

37

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
	(C)		12° 59' 45.9791" N / 77° 40' 0.9620" E	0.56	3.00	• **Felling** • Tree is present within the project area and is present very close to the flyover • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
	(D)		12° 59' 45.9791" N / 77° 40' 0.9620" E	0.62	3.00	• **Felling** • Tree is present within the project area and is present very close to the flyover • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
26	43	Subabul Tree	12° 59' 46.1068" N / 77° 40' 1.1955" E	0.55	4.80	• **Felling** • Tree is present within the project area and is present very close to the flyover • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
27	50 (A)	Bili Kana-galu	12° 59' 44.9492" N / 77° 39' 56.7391" E	0.34	1	• **Felling** • Tree is present within the project area • Tree has forked branches and basal portion of the tree is little injured • All the branches of this tree pruned, therefore the tree

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
						does not fit for transplantation / translocation
	(B)		12° 59' 44.9492" N / 77° 39' 56.7391" E	0.25	1	• **Felling** • Tree is present within the project area • Tree has forked branches and basal portion of the tree is little injured • All the branches of this tree pruned, therefore the tree does not fit for transplantation / translocation
28	51	Tabe-buia avell-anedae	12° 59' 45.0471" N / 77° 39' 56.7070" E	0.38	2.50	• **Felling** • Tree is present within the project area • Tree is completely dried/dead with fungal fruiting bodies.
29	52	Bou-gain-villea Tree	12° 59' 45.0461" N / 77° 39' 56.8065" E	0.46	2.50	• **Felling** • Tree is present within the project area • Tree is completely dried/dead • Hence recommended for Felling
30	53	Bili Kana-galu	12° 59' 45.0129" N / 77° 39' 56.8724" E	0.38	1.5	• **Felling** • Tree is present within the project area • All the branches of this tree pruned, therefore the tree does not fit for transplantation / translocation.
31	54	Akash mallige	12° 59' 44.9475" N / 77° 39' 56.9049" E	0.26	3.00	• **Felling** • Tree is present within the project area • Tree is completely dried/dead
32	55	Su-babulla	12° 59' 45.5056" N / 77° 39' 59.5640" E	0.72	4.00	• **Felling** • Tree is present within the project • Tree is completely dried/dead

39

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
33	56	Su-babulla	12° 59' 45.6014" N / 77° 39' 59.7309" E	0.53	4.00	• **Felling** • Tree is present within the project • Tree is completely dried/dead
34	57	Su-babulla	12° 59' 45.6011" N / 77° 39' 59.7640" E	0.58	4.00	• **Felling** • Tree is present within the project area • Tree is completely dried/dead
35	59 (A)	Kari jaali Tree	12° 59' 48.8738" N / 77° 40' 7.2611" E	0.31	2.00	• **Felling** • Tree is present within the project area • Forked from the base • These conditions as mentioned above categorize the tree under felling, as a last resort
	(B)		12° 59' 48.8738" N / 77° 40' 7.2611" E	0.30	2.00	• **Felling** • Tree is present within the project area • Forked from the base These conditions as mentioned above categorize the tree under felling, as a last resort
36	60 (A)	Kari jaali Tree	12° 59' 48.8396" N / 77° 40' 7.4265" E	0.26	2.00	• **Felling** • Tree is present within the project area • Forked from the base • These conditions as mentioned above categorize the tree under felling, as a last resort
	(B)		12° 59' 48.8396" N / 77° 40' 7.4265" E	0.25	2.00	• **Felling** • Tree is present within the project area • Forked from the base • These conditions as mentioned above categorize the tree under felling, as a last resort

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

SL No	Tree No.	Species	Location (Lat / Long)	GBH	Height	Recommendation with Justification
37	73	Rose Wood Tree	12° 59' 47.3843" N / 77° 40' 3.4644" E	0.79	7.00	• **Felling** • Tree is present within the project area • Tree is completely dried/dead Trunk of this tree is physically damaged and also damaged by wood borer
38	79	Rose Wood Tree	12° 59' 47.7636" N / 77° 40' 4.5297" E	0.55	3.00	• **Felling** • Tree is present within the project area • Tree is completely dried/dead and its having fungal fruiting bodies.
39	87	Rose Wood Tree	12° 59' 48.2385" N / 77° 40' 5.7950" E	0.41	4.00	• **Felling** • Tree is present within the project area • Tree is completely dried/dead might be due to severe wood borers

Summary:

Total number of enumerated trees proposed for removal in the Project Area	**91**
Total number of trees recommended for felling	**39** (out of 91 trees)

Member Secretary, TEC
& Assistant Conservator of Forests, BBMP
Bengaluru

ANNEXURE - 1

THE NEW SUNDAY EXPRESS
KARNATAKA
05 BENGALURU SUNDAY 22.11.2020

KARNATAKA FOREST DEPARTMENT

Office of the Deputy Conservator of Forests, Bangalore Urban Division, Aranya Bhavan Compus, 18th Cross, Malleshwaram, Bangalore 560003. Email: dcfurban82@yahoo.co.in

[illegible] BMRCL/[illegible]/154/2020-21 [illegible] 21.11.2020

PUBLIC NOTICE

This is to bring to your notice of all citizens of Bengaluru that Metro Rail Corporation Limited (BMRCL) had submitted the application to the undersigned for removal of trees in Benniganahalli lake bund area in Sy. No. 55 & 82 of Benniganahalli village, in the road going from Bengaluru to Old Madras road. Details as given below.

<table>
<tr><td>Name of the project</td><td colspan="2">Construction of Metro Rail Structures, project for Road Diversion and Metro Viaduct from BP34 to 43 including Jyothipuram Station</td></tr>
<tr><td>Name of the Agency</td><td colspan="2">Bangalore Metro Rail Corporation Limited</td></tr>
<tr><td>Purpose for removal of trees</td><td colspan="2">Infringing construction activities of Metro Rail Project and Traffic movement</td></tr>
<tr><td>Description of the area with clear demarcation of boundaries or with GPS readings</td><td colspan="2">GPS details - Boundary, Total length of 355 mtrs
<table>
<tr><th></th><th>Easting (m)</th><th>Northing (m)</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>1</td><td>789086</td><td>1438104</td><td>12° 59' 42.2806" N</td><td>77° 39' 53.858" E</td></tr>
<tr><td>2</td><td>789502</td><td>1438322</td><td>12° 59' 49.2286" N</td><td>77° 40' 7.529" E</td></tr>
</table></td></tr>
<tr><td>Enumeration of trees.
• Total no. of trees standing in the project area</td><td>119 (Annex-I)</td><td rowspan="2">Description of Trees, Species location, Area Map etc are uploaded in the website of BBMP for information of all (www.bbmp.gov.in)</td></tr>
<tr><td>• Total no. of trees proposed to be removed</td><td>91 (Annex-II)</td></tr>
<tr><td>Mode of communication of comments
(Public can send their comments either by E-mail/ Post / Hand</td><td colspan="2">Adress: The Deputy Conservator of Forests, Bangalore Urban Division, Aranya Bhavan Annexe, 18th Cross, Malleshwaram, Bangalore-560003.
Email ID – dcfurban82@yahoo.co.in</td></tr>
<tr><td>Deadline for filing objections</td><td colspan="2">Ten (10) days from the date of Publication of this notification
*Comments should be relevant and specific to the project</td></tr>
</table>

In this background suggestions and objections invited from all citizens in terms of section 8(3)(vii)of The Karnataka Preservation of Tree Act 1976.

Sd/-, Deputy Conservator of Forests
Bangalore Urban Division, Bangalore

DIPR/CO/UL/C/1783/2020-21

ಕನ್ನಡಪ್ರಭ
ಭಾನುವಾರ 22.11.2020
ಬೆಂಗಳೂರು

ಕರ್ನಾಟಕ ಅರಣ್ಯ ಇಲಾಖೆ

ಉಪ ಅರಣ್ಯ ಸಂರಕ್ಷಣಾಧಿಕಾರಿಗಳ ಕಛೇರಿ, ಬೆಂಗಳೂರು ನಗರ ವಿಭಾಗ, ಅರಣ್ಯ ಭವನ ಸಂಕೀರ್ಣ,
18ನೇ ಅಡ್ಡರಸ್ತೆ, ಮಲ್ಲೇಶ್ವರಂ, ಬೆಂಗಳೂರು-560003 E-mail: dcfurban82@yahoo.co.in

ಸಂಖ್ಯೆ: ಎ9/ಮರ ಕಡಿತಲೆ-BMRCL/ಸಿ.ಆರ್-154/2020-21 ದಿನಾಂಕ: 21.11.2020

ಸಾರ್ವಜನಿಕ ಪ್ರಕಟಣೆ

ಈ ಮೂಲಕ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಮತ್ತು ಸುತ್ತಮುತ್ತಲಿನ ಸಮಸ್ತ ನಾಗರೀಕರ ಗಮನಕ್ಕೆ ತರುವುದೇನೆಂದರೆ ಬೈಯ್ಯಪ್ಪನಹಳ್ಳಿ ಮೆಟ್ರೋ ಸ್ಟೇಷನ್‌ನಿಂದ ವೈಟ್ ಫೀಲ್ಡ್ ಮೆಟ್ರೋ ಸ್ಟೇಷನ್‌ವರೆಗಿನ ಮಾರ್ಗದ ಮಧ್ಯೆ ಬರುವ ಬೆನ್ನಿಗಾನಹಳ್ಳಿ ಗ್ರಾಮದ ಸ.ನಂ. 55 ಮತ್ತು 82ರಲ್ಲಿ [illegible] ಬೆಂಗಳೂರು ಕಡೆಯಿಂದ ಹಳೆ ಮದ್ರಾಸ್ ರಸ್ತೆ ಹಾದುಹೋಗುವ ಪಕ್ಕದಲ್ಲಿ ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲು ನಿಗಮ ನಿಯಮಿತ ಸಂಸ್ಥೆಯ ವತಿಯಿಂದ ನಡೆಯುತ್ತಿರುವ ಮೆಟ್ರೋ ಕಾಮಗಾರಿಗೆ ಅಡ್ಡಿಯಾಗುತ್ತಿರುವ ಮರಗಳ ತೆರವಿಗಾಗಿ ಮನವಿ ಸಲ್ಲಿಸಿದ್ದು, ವಿವರಗಳು ಈ ಕೆಳಕಂಡಂತಿರುತ್ತವೆ.

ಯೋಜನೆಯ ಹೆಸರು	Construction of Metro Rail Structures, project for Road Diversion and Metro Viaduct from BP34 to 43 including Jyothipuram Station	
ಏಜೆನ್ಸಿಯ ಹೆಸರು	Bangalore Metro Rail Corporation Limited	
ಮರ ತೆರವುಗೊಳಿಸುವ ಉದ್ದೇಶ	ಮೆಟ್ರೋ ರೈಲು ಕಾಮಗಾರಿಗೆ ಅಡ್ಡಿಯಾಗುತ್ತಿರುವುದರಿಂದ ಮತ್ತು ಸಂಚಾರ ದಟ್ಟಣೆಯನ್ನು ಕಡಿಮೆ ಮಾಡಲು.	
ಯೋಜನೆಯು ಬರುತ್ತಿರುವ ಪ್ರದೇಶದ ಜಿ.ಪಿ.ಎಸ್. ರೀಡಿಂಗ್	GPS details - Boundary, Total length of 355 mtrs (see GPS table below)	
ಯೋಜನಾ ಪ್ರದೇಶದಲ್ಲಿ ಪ್ರಸ್ತುತ ಇರುವ ಮರಗಳು	119 (Annex-I)	ಮರಗಳ ವಿವರ, ಜಾತಿ, ಸುತ್ತಳತೆಯ ಗಾತ್ರ, ಸಂಖ್ಯೆಗಳ ವಿವರಗಳನ್ನು ಇಲಾಖೆಯ ವೆಬ್ ಸೈಟ್‌ನಲ್ಲಿ ಮಾಹಿತಿಗಾಗಿ ಪ್ರಕಟಿಸಲಾಗಿದೆ.
ಯೋಜನಾ ಪ್ರದೇಶದಲ್ಲಿ ತೆರವುಗೊಳಿಸಬೇಕಾದ ಮರಗಳು	91 (Annex-II)	
ಆಕ್ಷೇಪಣೆಗಳನ್ನು ಸಲ್ಲಿಸುವ ವಿಧಾನ (ಸಾರ್ವಜನಿಕರು ನೇರವಾಗಿ/ ಇ-ಮೇಲ್/ಅಂಚೆ ಮುಖಾಂತರ ಈ ಕೆಳಕಂಡಂತೆ ಕಛೇರಿಗೆ ಸಲ್ಲಿಸಬಹುದು)	Adress: The Deputy Conservator of Forests, Bangalore Urban Division, Aranya Bhavan Annexe, 18th Cross, Malleshwaram, Bangalore-560003 Email ID – dcfurban82@yahoo.co.in	
ಆಕ್ಷೇಪಣೆಗಳನ್ನು ಸಲ್ಲಿಸಬೇಕಾದ ಅವಧಿ	ಈ ಪ್ರಕಟಣೆ ಹೊರಡಿಸಿದ ದಿನಾಂಕದಿಂದ 10 ದಿನಗಳೊಳಗಾಗಿ. ಸೂಚನೆ: ಆಕ್ಷೇಪಣೆಗಳು ಪ್ರಸ್ತಾಪಿತ ಯೋಜನೆಗೆ ಮಾತ್ರ ಸಂಬಂಧಿಸಿರಬೇಕು.	

GPS details - Boundary, Total length of 355 mtrs

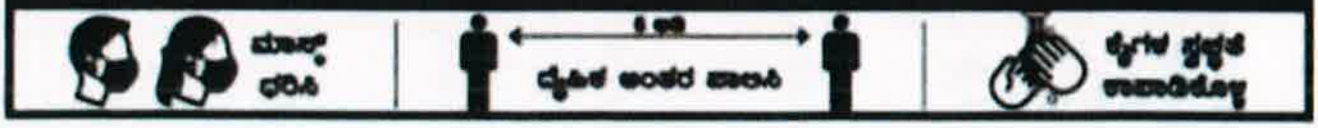
	Easting (m)	Northing (m)	Latitude	Longitude
1	789086	1438104	12° 59' 42.2808" N	77° 39' 53.658" E
2	789502	1438322	12° 59' 49.2288" N	77° 40' 7.529" E

ಮೇಲ್ಕಂಡ ಪ್ರದೇಶದಲ್ಲಿನ ಮರಗಳನ್ನು ತೆರವುಗೊಳಿಸುವ ಸಂಬಂಧ ಸಾರ್ವಜನಿಕರ ಆಕ್ಷೇಪಣೆ/ಸಲಹೆಗಳಿದ್ದಲ್ಲಿ ಕರ್ನಾಟಕ ವೃಕ್ಷ ಸಂರಕ್ಷಣಾ ಅಧಿನಿಯಮ 1976 ಸೆಕ್ಷನ್ 8(3)(vii) ಪ್ರಕಾರ ಸಲಹೆ-ಸೂಚನೆಗಳನ್ನು ನೀಡಲು ಆಹ್ವಾನಿಸಲಾಗಿದೆ.

ಸಹಿ/-
ಉಪ ಅರಣ್ಯ ಸಂರಕ್ಷಣಾಧಿಕಾರಿ,
ಬೆಂಗಳೂರು ನಗರ ವಿಭಾಗ, ಬೆಂಗಳೂರು

[illegible]/1783/2020-21

ಕೋವಿಡ್ 19 ಆತಂಕ ಬೇಡ, ಮುನ್ನೆಚ್ಚರಿಕೆ ಇರಲಿ



ಕರ್ನಾಟಕ ಅರಣ್ಯ ಇಲಾಖೆ

ಉಪ ಅರಣ್ಯ ಸಂರಕ್ಷಣಾಧಿಕಾರಿಗಳ ಕಛೇರಿ, ಬೆಂಗಳೂರು ನಗರ ವಿಭಾಗ, ಅರಣ್ಯ ಭವನ ಸಂಕೀರ್ಣ,
18ನೇ ಅಡ್ಡರಸ್ತೆ, ಮಲ್ಲೇಶ್ವರಂ, ಬೆಂಗಳೂರು–560003. E-mail: dcfurban82@yahoo.co.in

ಸಂಖ್ಯೆ: ಎ9/ಮರ ಕಡಿತಾವಣೆ–BMRCL/ಬಿ.ಆರ್–154/2020–21 ದಿನಾಂಕ: 21.11.2020

ಸಾರ್ವಜನಿಕ ಪ್ರಕಟಣೆ

ಈ ಮೂಲಕ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಮತ್ತು ಸುತ್ತಮುತ್ತಲಿನ ಸಮಸ್ತ ನಾಗರಿಕರ ಗಮನಕ್ಕೆ ತರುವುದೇನೆಂದರೆ ದ್ಯೆಯ್ಯಪ್ಪನಹಳ್ಳಿ ಮೆಟ್ರೋ ಸ್ಟೇಷನ್‌ನಿಂದ ವೈಟ್ ಫೀಲ್ಡ್ ಮೆಟ್ರೋ ಸ್ಟೇಷನ್‌ವರೆಗಿನ ಮಾರ್ಗದ ಮಧ್ಯೆ ಬರುವ ದೊಡ್ಡನಾಗಹಳ್ಳಿ ಗ್ರಾಮದ ಸ.ನಂ. 55 ಮತ್ತು 82ರಲ್ಲಿ ಕೆರೆ ದಂಡೆಯ ಪಕ್ಕದಲ್ಲಿ ಬೆಂಗಳೂರು ಕಡೆಯಿಂದ ಹೊಳೆ ಮದ್ರಾಸ್ ರಸ್ತೆ ಹಾದುಹೋಗುವ ರಸ್ತೆಯಲ್ಲಿ ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲು ನಿಗಮ ನಿಯಮಿತ ಸಂಸ್ಥೆಯ ವತಿಯಿಂದ ನಡೆಯುತ್ತಿರುವ ಮೆಟ್ರೋ ಕಾಮಗಾರಿಗೆ ಅಡ್ಡಬರುತ್ತಿರುವ ಮರಗಳ ತೆರವಿಗಾಗಿ ಮನವಿ ಸಲ್ಲಿಸಿದ್ದು, ವಿವರಗಳು ಈ ಕೆಳಕಂಡಂತಿರುತ್ತವೆ.

ಯೋಜನೆಯ ಹೆಸರು	Construction of Metro Rail Structures, project for Road Diversion and Metro Viaduct from BP34 to 43 Including Jyothipuram Station
ಏಜೆನ್ಸಿಯ ಹೆಸರು	Bangalore Metro Rail Corporation Limited
ಮರ ತೆರವುಗೊಳಿಸುವ ಉದ್ದೇಶ	ಮೆಟ್ರೋ ರೈಲು ಕಾಮಗಾರಿಗೆ ಅಡ್ಡಬರುತ್ತಿರುವುದರಿಂದ ಮತ್ತು ಸಂಚಾರ ದಟ್ಟಣೆಯನ್ನು ಕಡಿಮೆ ಮಾಡಲು
ಯೋಜನೆಯು ಬರುತ್ತಿರುವ ಪ್ರದೇಶದ ಜಿ.ಪಿ.ಎಸ್. ರೀಡಿಂಗ್ಸ್	GPS details - Boundary. Total length of 355 mtrs

	Easting (m)	Northing (m)	Latitude	Longitude
1	789086	1438104	12° 59' 42.2808" N	77° 39' 53.658" E
2	789502	1438322	12° 59' 49.2288" N	77° 40' 7.529" E

ಯೋಜನಾ ಪ್ರದೇಶದಲ್ಲಿ ಪ್ರಸ್ತುತ ಇರುವ ಮರಗಳು	119 (Annex-I)	ಮರಗಳ ವಿವರ, ಜಾತಿ, ಮರಗಳಿರುವ ಜಾಗ, ನಕಾಶೆಗಳ ವಿವರಗಳನ್ನು ಬಿಬಿಎಂಪಿ ವೆಬ್ ಸೈಟ್‌ನಲ್ಲಿ ಮಾಹಿತಿಗಾಗಿ ಒದಗಿಸಲಾಗಿದೆ.
ಯೋಜನಾ ಪ್ರದೇಶದಲ್ಲಿ ತೆರವುಗೊಳಿಸಬೇಕಾದ ಮರಗಳು	91 (Annex-II)	
ಆಕ್ಷೇಪಣೆಗಳನ್ನು ಸಲ್ಲಿಸುವ ವಿಧಾನ (ಸಾರ್ವಜನಿಕರು ನೇರವಾಗಿ/ ಇ–ಮೇಲ್/ ಅಂಚೆ ಮುಖಾಂತರ ಈ ಕೆಳಸಹಿದಾರರ ಕಛೇರಿಗೆ ಸಲ್ಲಿಸಬಹುದು)	**Adress:** The Deputy Conservator of Forests, Bangalore Urban Division, Aranya Bhavan Annexe, 18th Cross, Malleshwaram, Bangalore-560003 **Email ID – dcfurban82@yahoo.co.in** ದಾಖಲೆ ಪತ್ರಗಳನ್ನು ಕೆಳಸಹಿದಾರರ ಕಛೇರಿಯಲ್ಲಿ ಕಛೇರಿ ಕೆಲಸದ ವೇಳೆಯಲ್ಲಿ ಪರಿಶೀಲಿಸಬಹುದು.	
ಆಕ್ಷೇಪಣೆಗಳನ್ನು ಸಲ್ಲಿಸಬೇಕಾದ ಅವಧಿ	ಈ ಪ್ರಕಟಣೆ ಹೊರಡಿಸಿದ ದಿನಾಂಕದಿಂದ 10 ದಿನಗಳೊಳಗಾಗಿ. **ಸೂಚನೆ:** ಆಕ್ಷೇಪಣೆಗಳು ಪ್ರಸ್ತಾವಿತ ಯೋಜನೆಗೆ ಮಾತ್ರ ಸಂಬಂಧಿಸಿರಬೇಕು.	

ಮೇಲ್ಕಂಡ ಪ್ರದೇಶದಲ್ಲಿನ ಮರಗಳನ್ನು ತೆರವುಗೊಳಿಸುವ ಸಂಬಂಧ ಸಾರ್ವಜನಿಕರ ಆಕ್ಷೇಪಣೆ/ಸಲಹೆಗಳಿದ್ದಲ್ಲಿ ಕರ್ನಾಟಕ ವೃಕ್ಷ ಸಂರಕ್ಷಣಾ ಕಾಯಿದೆ 1976 ಸೆಕ್ಷನ್ 8(3)(vii) ಪ್ರಕಾರ ಸಲಹೆ–ಸೂಚನೆಗಳನ್ನು ನೀಡಲು ಆಹ್ವಾನಿಸಲಾಗಿದೆ. ಸಹಿ/–

ಉಪ ಅರಣ್ಯ ಸಂರಕ್ಷಣಾಧಿಕಾರಿ,
ಬೆಂಗಳೂರು ನಗರ ವಿಭಾಗ, ಬೆಂಗಳೂರು

ವಾಸಾಸಂ/ಉನಿನ/ಎಲ್‌ಸಿ/1783/2020-21

ANNEXURE - 2

47

Proceedings of Tree Officer & DCF, Bengaluru Urban

Subject: Objections / Suggestions from the public regarding removal of trees from Benniganahalli tank bund area

Case / Application No:BMRCL/Dy.CE/R1A/Ph-II/TREES/2020/4368

No:A9/Tree Feliing/BMRCL/CR-154/2020-21 Date: 12.12.2020.

1. Bangalore Metro Rail Corporation (BMRCL) had applied on **20 Nov 2020** under section 8(2) of the Karnataka Preservation of Trees Act (henceforth mentioned as the Act) seeking permission to remove **91** trees from Benniganahalli tank bund area for construction of metro viaducts and road diversion.

2. A public notice was issued on **21 Nov 2020** 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 **Prajavani and Indian Express Newspapers on 22 Nov 2020 and, Kannadaprabha News paper on 23 Nov 2020**. 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, total **107** objections or suggestions were received. Their break up is as follows.

   a. Objections / Suggestions received on email: **102**

   b. Objections / Suggestions received by post: **Nil**

   c. Objections / Suggestions received by personal delivery: **05**

4. BMRCL was asked vide letter dated **03 DEC 2020** of the undersigned to provide its views regarding possibility of change of the alignment and carrying out the works without removal of the trees. A reply dated **05 Dec 2020**. has been received from BMRCL.

5. The objections / suggestions from the public and the reply from BMRCL has been considered carefully. The objections / suggestions are summarized below.

   a. Formal consultation with the residents in the lake area should be held, though the residents mostly are not opposed to the metro project;

   b. These trees are the only natural source of greenery in the area to act against the high pollution;

   c. Benniganahalli lake and trees are catalyst and lungs for the area,

d. Focus should be on sustainable growth and a balanced decision suitable for all stakeholders;

e. Metro may not be needed in the post-pandemic period.

7. BMRCL in its reply has brought out following aspects.

a. *This common section of Outer Ring Road (ORR) and old Madras Road (OMR) at Benniganahalli tank - Tin Factory - K R Puram is one of the most congested road section in the city witnessing traffic of more than 3.5 lakh PCUs per day (Pre-Covid period), average vehicle speed of 10 km per hour during peak traffic periods, large economic losses, and high level of pollution. The shift from private modes of transport to efficient & sustainable modes of public transport like metro should be the way forward.*

b. *At this location, 2 major metro lines, namely Kengeri to Whitefield Metro (Phase-2) and CSB junction to Airport (Phase 2A & 2B) have been approved. There will be a third line also as the entry line to Baiyappanahalli depot as part of the latter .*

c. *As the road width at this location is already insufficient due to presence of 2 flyovers and large traffic volume, the augmentation of the road capacity and finding road space for the piers of the 3 metro lines are absolutely essential beside creating space for the traffic diversion during the construction period.*

d. *The above requirement entails resizing of the Benniganahalli tank bund to near unifrom width of 5 meter and utilizing the balance for the additional road space, metro piers, foothpath, etc. The resizing will need these trees to be removed.*

e. *The adverse effect of removal of trees from this location will be far lower than the positive impact of reduction in pollution due to shift of people from private vehicles to public transport, lesser congestion and higher speed.*

f. *For mitigating that adverse effect, BMRCL will take up translocation, as feasible, besides compensatory plantations in ratio of 1:10.*

g. *Comprehensive Mobility Plan (CMP) 2020 for Bengaluru envisages at-grade widening of road at Benniganahalli - Tin Factory - K.R.Puram section, multi model integration infrastructure and additional flyover loops across Railway tracks. Suggestions were invited from the public and the same were considered before finalization of the CMP.*

8. While the detailed remarks of the undersigned in respect of each objection / suggestion are appended to these proceedings as Annexure. Overall the findings are the following.

i. The very purpose of inviting objections / suggestions is to get the views of the stakeholders in an organized manner and to consider them carefully while deciding the application.

ii. These persons are not against the project per se; rather they support the project. However, their main concern is regarding loss of trees from their current locations.

iii. The project area at common section of Old Madras Road (OMR) and Outer Ring Road (ORR) is one of the most congested road section in the city with very high traffic volume, low vehicular speed and high pollution.

iv. For constructing the three metro lines and for decongesting the area, the resizing of the lake bund, without impacting the water body, is essential.

v. The removal of the trees is necessary for construction of the sustainable public transport system by way of metro system and bus bays / bus stands besides creation of additional road lanes.

vi. A change in the metro alignment or other road infrastructure or carrying out the project without removal of the trees is not feasible.

vii. The specific concerns of the public regarding removal of trees from their current location should be met through translocation of the trees, as feasible and practical,and also by compensatory plantation in nearby areas, as per land availability.

viii. BMRCL should be encouraged to take up facilities / activities for improving the tank bund area.

9. 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.

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

Deputy Conservator of Forests
Bangalore Urban Division.
BANGALORE.

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TEMPLATE No. 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)

<table>
<tr><td>Name of the user agency</td><td colspan="5">Bangalore Metro Rail Corporation Limited</td></tr>
<tr><td>Purpose of the project</td><td colspan="5">Construction Metro Rail Elevated and Station Structures c, Road diversion works and construction of Diaphragm Wall from Baiyapanahalli to Whitefield</td></tr>
<tr><td>Extent of the project area</td><td colspan="5">Benniganahalli Tank Bund Area
380 Mts Lrngth and 15 Mts Width</td></tr>
<tr><td>Location of the project area</td><td colspan="5">Benniganahalli Tank Bund
<table><tr><th>Sl. No</th><th>Eastin g (m)</th><th>Northi ng (m)</th><th>Latitu de</th><th>Longit ude</th></tr><tr><td>1</td><td>78908 6</td><td>14381 04</td><td>12° 59' 42.281 5" N</td><td>77° 39' 53.659 5" E</td></tr><tr><td>5</td><td>78950 2</td><td>14383 22</td><td>12° 59' 49.228 8" N</td><td>77° 40' 7.5302 " E</td></tr></table></td></tr>
<tr><td>No. of tree(s) enumerated in the project area</td><td colspan="5">119</td></tr>
<tr><td>Number of tree(s) proposed for removal by user agency</td><td colspan="5">91</td></tr>
<tr><td>Number of tree(s) for on-site retention as per preliminary assessment by Tree Officer</td><td colspan="5">NIL</td></tr>
<tr><td>Number of tree(s) for transplantation / translocation as per preliminary assessment by Tree Officer</td><td colspan="5">52</td></tr>
<tr><td>Number of tree(s) for felling as per preliminary assessment by Tree Officer</td><td colspan="5">39</td></tr>
<tr><td>Summary of Proceedings* of consideration of objections received from public by Tree Officer</td><td colspan="5">i.The very purpose of inviting objections / suggestions is to get the views of the stakeholders in an 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. All objections recived in response to the Public notice have been examined carefully.</td></tr>
</table>

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TEMPLATE No. 3

	the application and not after end of the process and receipt of the report from the TEC. • The Removal of the trees in necessary for construction of the sustainable public transport system by the way of Metro system and the complementary roads and facilities for the other models of the transport. • A change in metro Alignment or other road infrastructure or carrying out of project without removal of the trees is not feasible. • The specific concerns of the public regarding removal of trees from their current locations should be met through translocation of the trees, as feasible and practical and also by compensatory plantation in near areas, as per land availability.

* Note: Full proceedings with details should be appended.

Date:

RFO **ACF** **Tree Officer**

Annexure

Remarks of Tree Officer to the objections received from the public in Benniganahalli Tank Bund Area			
Sl. No	**Name & Date**	**Objection from Public**	**Remarks and findings of Tree Officer**
1.	Subhabrata Kundu subhabrata.k@gmail.com 01.12.2020	We understand that 91 trees are proposed to be removed from the Benniganahalli Lake area as per the above public notice. We strongly oppose the proposal which has come up without any consultation with the local residents in the Lake area. This lake and the trees around it are a large & important natural resource in our neighbourhood. It provides critical green cover & urban lung space for thousands residents living the vicinity, in areas like K R Puram, Pai Layout, Old Madras Road Nagavarpalaya and nearby area. While we understand the importance of the Metro Rail project and are not against the same, we request a formal Public Consultation meeting in the lake vicinity before finalising the removal of the trees. All stake holders, including Bangalore Metro Rail Corporation, BBMP, Bangalore Lake Authority, residents & RWAs in the neighbourhood, can be invited to the meeting to share their views, before a final decision is taken. As our city is fast losing trees & green cover, Public consensus & support on this subject is very importatnt, and will help in arriving at a balanced decision suitable to all stake holders. We look forward to the public consultation meeting at the lake & your support.	i.The very purpose of inviting objections / suggestions is to get the views of the stakeholders in an organized manner and to consider them carefully while deciding the application. ii.These persons are not against the project per se; rather they support the project. However, their main concern is regarding loss of trees from their current locations. iii.The project area at common section of Old Madras Road (OMR) and Outer Ring Road (ORR) is one of the most congested road section in the city with very high traffic volume, low vehicular speed and high pollution. iv.For constructing the three metro lines and for decongesting the area, the resizing of the lake bund, without impacting the water body, is essential. v.The removal of the trees is necessary for construction of the sustainable public transport system by way of metro system and bus bays / bus stands besides creation of additional road lanes. vi.A change in the metro alignment or other road infrastructure or carrying out the project without removal of the trees is not feasible. vii.The specific concerns of the public regarding removal of trees from their current location should be met through translocation of the trees, as feasible and practical, and also by compensatory plantation in nearby areas, as per land availability. viii.BMRCL should be encouraged to take up facilities / activities for improving the tank bund area.
2.	Manoj Mathew manuvadakkel@yahoo.com 01.12.2020		
3.	rufus kumar rufus.kumar@rediffmail.com 01.12.2020		
4.	Sourav Basu souravbasu@gamil.com 01.12.2020		
5.	Shaik MD Rafeeque Pasha rafeequepasha.shaik@gmail.com 01.12.2020		
6.	Satish Varada satishkumar.varada@gmailcom 01.12.2020		
7.	Santhosh Kumar tkskumar6236@yahoo.com 01.12.2020		
8.	Dileep Paruchuri PaiLayout dileep.paruchuri@gmail.com 30.11.2020		
9.	abhijit banerjee abhijit_rana2002@yahoo.com 01.12.2020		
10.	Chandrasekhar Nair babjuas@gmail.com 01.12.2020		

Remarks of Tree Officer to the objections received from the public in Benniganahalli Tank Bund Area			
Sl. No	**Name & Date**	**Objection from Public**	**Remarks and findings of Tree Officer**
11.	annu laxmi PaiLayout anupama_vl@yahoo.com 30.11.2020	We understand that 91 trees are proposed to be removed from the Benniganahalli Lake area as per the above public notice. We strongly oppose the proposal which has come up without any consultation with the local residents in the Lake area. This lake and the trees around it are a large & important natural resource in our neighbourhood. It provides critical green cover & urban lung space for thousands residents living the vicinity, in areas like K R Puram, Pai Layout, Old Madras Road Nagavarpalaya and nearby area. While we understand the importance of the Metro Rail project and are not against the same, we request a formal Public Consultation meeting in the lake vicinity before finalising the removal of the trees. All stake holders, including Bangalore Metro Rail Corporation, BBMP, Bangalore Lake Authority, residents & RWAs in the neighbourhood, can be invited to the meeting to share their views, before a final decision is taken. As our city is fast losing trees & green cover, Public consensus & support on this subject is very importatnt, and will help in arriving at a balanced decision suitable to all stake holders. We look forward to the public consultation meeting at the lake & your support.	i.The very purpose of inviting objections / suggestions is to get the views of the stakeholders in an organized manner and to consider them carefully while deciding the application. ii.These persons are not against the project per se; rather they support the project. However, their main concern is regarding loss of trees from their current locations. iii.The project area at common section of Old Madras Road (OMR) and Outer Ring Road (ORR) is one of the most congested road section in the city with very high traffic volume, low vehicular speed and high pollution. iv.For constructing the three metro lines and for decongesting the area, the resizing of the lake bund, without impacting the water body, is essential. v.The removal of the trees is necessary for construction of the sustainable public transport system by way of metro system and bus bays / bus stands besides creation of additional road lanes. vi.A change in the metro alignment or other road infrastructure or carrying out the project without removal of the trees is not feasible. vii.The specific concerns of the public regarding removal of trees from their current location should be met through translocation of the trees, as feasible and practical, and also by compensatory plantation in nearby areas, as per land availability. viii.BMRCL should be encouraged to take up facilities / activities for improving the tank bund area.
12.	Pauly joseph kjpaulyjoseph@gmail.com 01.12.2020		
13.	Nidhi rani nidhi_soham@yahoo.co.in 01.12.2020		
14.	Tapoja Majumdar manjumdar.tapoja@gmail.com 01.12.2020		
15.	Soundarya cbsound007@gmail.com 01.12.2020		
16.	Kiran Babu kiranbabu@yahoo.com 01.12.2020		
17.	Kalidas Saha kalidas@yahoo.com 01.12.2020		
18.	Kumar MS mskumar_ms@yahoo.com 01.12.2020		
19.	Mousikta Dutta mousikta.d@gmail.com 01.12.2020		
20.	Suresh Pinisetty suri_nlr@yahoo.com 01.12.2020		
21.	Purnendu Kumar Rout purnnendupgdbm09@gmail.com 01.12.2020		

Remarks of Tree Officer to the objections received from the public in Benniganahalli Tank Bund Area			
Sl. No	**Name & Date**	**Objection from Public**	**Remarks and findings of Tree Officer**
22.	Venkatramana Pai catchpai@yahoo.com 01.12.2020	We understand that 91 trees are proposed to be removed from the Benniganahalli Lake area as per the above public notice. We strongly oppose the proposal which has come up without any consultation with the local residents in the Lake area. This lake and the trees around it are a large & important natural resource in our neighbourhood. It provides critical green cover & urban lung space for thousands residents living the vicinity, in areas like K R Puram, Pai Layout, Old Madras Road Nagavarpalaya and nearby area. While we understand the importance of the Metro Rail project and are not against the same, we request a formal Public Consultation meeting in the lake vicinity before finalising the removal of the trees. All stake holders, including Bangalore Metro Rail Corporation, BBMP, Bangalore Lake Authority, residents & RWAs in the neighbourhood, can be invited to the meeting to share their views, before a final decision is taken. As our city is fast losing trees & green cover, Public consensus & support on this subject is very importatnt, and will help in arriving at a balanced decision suitable to all stake holders. We look forward to the public consultation meeting at the lake & your support.	i.The very purpose of inviting objections / suggestions is to get the views of the stakeholders in an organized manner and to consider them carefully while deciding the application. ii.These persons are not against the project per se; rather they support the project. However, their main concern is regarding loss of trees from their current locations. iii.The project area at common section of Old Madras Road (OMR) and Outer Ring Road (ORR) is one of the most congested road section in the city with very high traffic volume, low vehicular speed and high pollution. iv.For constructing the three metro lines and for decongesting the area, the resizing of the lake bund, without impacting the water body, is essential. v.The removal of the trees is necessary for construction of the sustainable public transport system by way of metro system and bus bays / bus stands besides creation of additional road lanes. vi.A change in the metro alignment or other road infrastructure or carrying out the project without removal of the trees is not feasible. vii.The specific concerns of the public regarding removal of trees from their current location should be met through translocation of the trees, as feasible and practical, and also by compensatory plantation in nearby areas, as per land availability. viii.BMRCL should be encouraged to take up facilities / activities for improving the tank bund area.
23.	Rachita sreedasyam rachita.yes@gmail.com 01.12.2020		
24.	Siva sankar skadhesive2014@gmail.com 01.12.2020		
25.	Manini Mandal manini.mandal@gmail.com 01.12.2020		
26.	Amitabh Mukherjee amitabhmukho@gmail.com 01.12.2020		
27.	Omkar Joshi joshiomkar84@gmail.com 01.12.2020		
28.	ravi hyd.ravi@rediffmail.com 01.12.2020		
29.	Santhosh Kumar msgsant@rediffmail.com 01.12.2020		
30.	Pankaj Pandey pankaj.embedded@gmail.com 01.12.2020		
31.	Santhosh Kumar sankumar27@hotmail.com 01.12.2020		
32.	Chitra S chitras5bajps@gmail.com 01.12.2020		

SH

Remarks of Tree Officer to the objections received from the public in Benniganahalli Tank Bund Area			
Sl. No	**Name & Date**	**Objection from Public**	**Remarks and findings of Tree Officer**
33.	Vidya Santhosh vidyasanthosh2009@yahoo.com 01.12.2020	We understand that 91 trees are proposed to be removed from the Benniganahalli Lake area as per the above public notice. We strongly oppose the proposal which has come up without any consultation with the local residents in the Lake area. This lake and the trees around it are a large & important natural resource in our neighbourhood. It provides critical green cover & urban lung space for thousands residents living the vicinity, in areas like K R Puram, Pai Layout, Old Madras Road Nagavarpalaya and nearby area. While we understand the importance of the Metro Rail project and are not against the same, we request a formal Public Consultation meeting in the lake vicinity before finalising the removal of the trees. All stake holders, including Bangalore Metro Rail Corporation, BBMP, Bangalore Lake Authority, residents & RWAs in the neighbourhood, can be invited to the meeting to share their views, before a final decision is taken. As our city is fast losing trees & green cover, Public consensus & support on this subject is very importatnt, and will help in arriving at a balanced decision suitable to all stake holders. We look forward to the public consultation meeting at the lake & your support.	i.The very purpose of inviting objections / suggestions is to get the views of the stakeholders in an organized manner and to consider them carefully while deciding the application. ii.These persons are not against the project per se; rather they support the project. However, their main concern is regarding loss of trees from their current locations. iii.The project area at common section of Old Madras Road (OMR) and Outer Ring Road (ORR) is one of the most congested road section in the city with very high traffic volume, low vehicular speed and high pollution. iv.For constructing the three metro lines and for decongesting the area, the resizing of the lake bund, without impacting the water body, is essential. v.The removal of the trees is necessary for construction of the sustainable public transport system by way of metro system and bus bays / bus stands besides creation of additional road lanes. vi.A change in the metro alignment or other road infrastructure or carrying out the project without removal of the trees is not feasible. vii.The specific concerns of the public regarding removal of trees from their current location should be met through translocation of the trees, as feasible and practical, and also by compensatory plantation in nearby areas, as per land availability. viii.BMRCL should be encouraged to take up facilities / activities for improving the tank bund area.
34.	Sarojini TK tksarojini2018@gamil.com 01.12.2020		
35.	Sridhar vvss1804@gmail.com 01.12.2020		
36.	Sreelakshmi Manoj manojsreelakshmi09@gmail.com 01.12.2020		
37.	Santhosh ranade ranade316@yahoo.com 01.12.2020		
38.	Nataraju Upputuri nataraju_u@yahoo.com 01.12.2020		
39.	Vidya Ganapathy cavidyaganapathy@gmail.com 01.12.2020		
40.	Ekamjot Kaur ekamjot051012@gmail.com 01.12.2020		
41.	Gagandeep Kaur gagandeepkaur16111986@gmail.com 01.12.2020		
42.	Subramaniam s subramaniam.sundaresan@gmail.com 01.12.2020		
43.	Dipali Menon dipalimenon@gmail.com 01.12.2020		
44.	D Menon dipalimenon@gmail.com		

Remarks of Tree Officer to the objections received from the public in Benniganahalli Tank Bund Area			
Sl. No	**Name & Date**	**Objection from Public**	**Remarks and findings of Tree Officer**
	01.12.2020		
45.	Sudha Prasanna sudhaprasanna2000@gmail.com 01.12.2020	We understand that 91 trees are proposed to be removed from the Benniganahalli Lake area as per the above public notice. We strongly oppose the proposal which has come up without any consultation with the local residents in the Lake area. This lake and the trees around it are a large & important natural resource in our neighbourhood. It provides critical green cover & urban lung space for thousands residents living the vicinity, in areas like K R Puram, Pai Layout, Old Madras Road Nagavarpalaya and nearby area. While we understand the importance of the Metro Rail project and are not against the same, we request a formal Public Consultation meeting in the lake vicinity before finalising the removal of the trees. All stake holders, including Bangalore Metro Rail Corporation, BBMP, Bangalore Lake Authority, residents & RWAs in the neighbourhood, can be invited to the meeting to share their views, before a final decision is taken. As our city is fast losing trees & green cover, Public consensus & support on this subject is very importatnt, and will help in arriving at a balanced decision suitable to all stake holders. We look forward to the public consultation meeting at the lake & your support.	i.The very purpose of inviting objections / suggestions is to get the views of the stakeholders in an organized manner and to consider them carefully while deciding the application. ii.These persons are not against the project per se; rather they support the project. However, their main concern is regarding loss of trees from their current locations. iii.The project area at common section of Old Madras Road (OMR) and Outer Ring Road (ORR) is one of the most congested road section in the city with very high traffic volume, low vehicular speed and high pollution. iv.For constructing the three metro lines and for decongesting the area, the resizing of the lake bund, without impacting the water body, is essential. v.The removal of the trees is necessary for construction of the sustainable public transport system by way of metro system and bus bays / bus stands besides creation of additional road lanes. vi.A change in the metro alignment or other road infrastructure or carrying out the project without removal of the trees is not feasible. vii.The specific concerns of the public regarding removal of trees from their current location should be met through translocation of the trees, as feasible and practical, and also by compensatory plantation in nearby areas, as per land availability. viii.BMRCL should be encouraged to take up facilities / activities for improving the tank bund area.
46.	Bhavisha Muni bhavish.muni@gmail.com 30.11.2020		
47.	Narasimhan Srinivasn srinivasw265@hotmail.com 30.11.2020		
48.	Krishna Maturu kmmaturu@yahoo.com 30.11.2020		
49.	Abhishek Jayadevan abhishek.jayadevan@gmail.com 30.11.2020		
50.	Srinivas nagarajan nsrinivas89@gmail.com 30.11.2020		
51.	Santhosh Kumar Mannipady santhosh08@gmail.com 30.11.2020		
52.	Jagruti kamath jagrutikamath@gmail.com 30.11.2020		
53.	Joshi M joshidas86@gmail.com 30.11.2020		
54.	Ravi Kumar msrk1956@yahoo.com 30.11.2020		
55.	greeshma manoj sgreeshma1977@gmail.com 30.11.2020		

56

Remarks of Tree Officer to the objections received from the public in Benniganahalli Tank Bund Area			
Sl. No	**Name & Date**	**Objection from Public**	**Remarks and findings of Tree Officer**
56.	Poornanandan T.S tspoorna@gmail.com 30.11.2020	We understand that 91 trees are proposed to be removed from the Benniganahalli Lake area as per the above public notice. We strongly oppose the proposal which has come up without any consultation with the local residents in the Lake area. This lake and the trees around it are a large & important natural resource in our neighbourhood. It provides critical green cover & urban lung space for thousands residents living the vicinity, in areas like K R Puram, Pai Layout, Old Madras Road Nagavarpalaya and nearby area. While we understand the importance of the Metro Rail project and are not against the same, we request a formal Public Consultation meeting in the lake vicinity before finalising the removal of the trees. All stake holders, including Bangalore Metro Rail Corporation, BBMP, Bangalore Lake Authority, residents & RWAs in the neighbourhood, can be invited to the meeting to share their views, before a final decision is taken. As our city is fast losing trees & green cover, Public consensus & support on this subject is very importatnt, and will help in arriving at a balanced decision suitable to all stake holders. We look forward to the public consultation meeting at the lake & your support.	i.The very purpose of inviting objections / suggestions is to get the views of the stakeholders in an organized manner and to consider them carefully while deciding the application. ii.These persons are not against the project per se; rather they support the project. However, their main concern is regarding loss of trees from their current locations. iii.The project area at common section of Old Madras Road (OMR) and Outer Ring Road (ORR) is one of the most congested road section in the city with very high traffic volume, low vehicular speed and high pollution. iv.For constructing the three metro lines and for decongesting the area, the resizing of the lake bund, without impacting the water body, is essential. v.The removal of the trees is necessary for construction of the sustainable public transport system by way of metro system and bus bays / bus stands besides creation of additional road lanes. vi.A change in the metro alignment or other road infrastructure or carrying out the project without removal of the trees is not feasible. vii.The specific concerns of the public regarding removal of trees from their current location should be met through translocation of the trees, as feasible and practical, and also by compensatory plantation in nearby areas, as per land availability. viii.BMRCL should be encouraged to take up facilities / activities for improving the tank bund area.
57.	Poornanandan T.S tspoorna@gmail.com 30.11.2020		
58.	Surya S surya151993@gmail.com 30.11.2020		
59.	Visakh R J rjvisakh@gmail.com 30.11.2020		
60.	N H subramanian nhsaraju@gmail.com 30.11.2020		
61.	Rakshitha Rao rakshitharao1369@gmail.com 30.11.2020		
62.	ramaswamy raghupati rahupatir@yahoo.com 30.11.2020		
63.	bavitha gopinathan bavitha1980@gmail.com 30.11.2020		
64.	Kartik Kamat kskmt2010@gmail.com 30.11.2020		
65.	Naved Iqbal, Mobile No: 8618324251 navediqbal@gmail.com 30.11.2020		
66.	Sethupathi Krishnan setkrish@yahoo.co.in 30.11.2020		
67.	Jaya Singh jaya.singh.1@gmail.com 30.11.2020		

Remarks of Tree Officer to the objections received from the public in Benniganahalli Tank Bund Area			
Sl. No	**Name & Date**	**Objection from Public**	**Remarks and findings of Tree Officer**
68.	Charan Kurella charan.kurella@gmail.com 30.11.2020	We understand that 91 trees are proposed to be removed from the Benniganahalli Lake area as per the above public notice. We strongly oppose the proposal which has come up without any consultation with the local residents in the Lake area. This lake and the trees around it are a large & important natural resource in our neighbourhood. It provides critical green cover & urban lung space for thousands residents living the vicinity, in areas like K R Puram, Pai Layout, Old Madras Road Nagavarpalaya and nearby area. While we understand the importance of the Metro Rail project and are not against the same, we request a formal Public Consultation meeting in the lake vicinity before finalising the removal of the trees. All stake holders, including Bangalore Metro Rail Corporation, BBMP, Bangalore Lake Authority, residents & RWAs in the neighbourhood, can be invited to the meeting to share their views, before a final decision is taken. As our city is fast losing trees & green cover, Public consensus & support on this subject is very importatnt, and will help in arriving at a balanced decision suitable to all stake holders. We look forward to the public consultation meeting at the lake & your support.	i.The very purpose of inviting objections / suggestions is to get the views of the stakeholders in an organized manner and to consider them carefully while deciding the application. ii.These persons are not against the project per se; rather they support the project. However, their main concern is regarding loss of trees from their current locations. iii.The project area at common section of Old Madras Road (OMR) and Outer Ring Road (ORR) is one of the most congested road section in the city with very high traffic volume, low vehicular speed and high pollution. iv.For constructing the three metro lines and for decongesting the area, the resizing of the lake bund, without impacting the water body, is essential. v.The removal of the trees is necessary for construction of the sustainable public transport system by way of metro system and bus bays / bus stands besides creation of additional road lanes. vi.A change in the metro alignment or other road infrastructure or carrying out the project without removal of the trees is not feasible. vii.The specific concerns of the public regarding removal of trees from their current location should be met through translocation of the trees, as feasible and practical, and also by compensatory plantation in nearby areas, as per land availability. viii.BMRCL should be encouraged to take up facilities / activities for improving the tank bund area.
69.	Singh Sony sony150678@gmail.com 30.11.2020		
70.	Suresh Kumar izonesuresh@gmail.com 30.11.2020		
71.	Balasubramanian Durai dbala007@yahoo.com 30.11.2020		
72.	Himani Topal himanitopal@gmail.com 30.11.2020		
73.	VS Jayaraman Resident of Pai Layout vs.jr1955@gmail.com 30.11.2020		
74.	Dr.Aysha Aslam ayshaaslam@hotmail.com 30.11.2020		
75.	Suresh Babu vsureshbabu53@gmail.com 30.11.2020		
76.	smk smkrish.mohan@gmail.com 30.11.2020		
77.	Name : Nikhil Bongale Contact : 9611799002 nikhilbongale@gmail.com 30.11.2020		
78.	Indu M <indumk.im@gmail.com> 01.12.2020		

Remarks of Tree Officer to the objections received from the public in Benniganahalli Tank Bund Area			
Sl. No	**Name & Date**	**Objection from Public**	**Remarks and findings of Tree Officer**
79.	Haritha Upputuri <haritha.upputuri@gmail.com 01.12.2020	We understand that 91 trees are proposed to be removed from the Benniganahalli Lake area as per the above public notice. We strongly oppose the proposal which has come up without any consultation with the local residents in the Lake area. This lake and the trees around it are a large & important natural resource in our neighbourhood. It provides critical green cover & urban lung space for thousands residents living the vicinity, in areas like K R Puram, Pai Layout, Old Madras Road Nagavarpalaya and nearby area. While we understand the importance of the Metro Rail project and are not against the same, we request a formal Public Consultation meeting in the lake vicinity before finalising the removal of the trees. All stake holders, including Bangalore Metro Rail Corporation, BBMP, Bangalore Lake Authority, residents & RWAs in the neighbourhood, can be invited to the meeting to share their views, before a final decision is taken. As our city is fast losing trees & green cover, Public consensus & support on this subject is very importatnt, and will help in arriving at a balanced decision suitable to all stake holders. We look forward to the public consultation meeting at the lake & your support.	i.The very purpose of inviting objections / suggestions is to get the views of the stakeholders in an organized manner and to consider them carefully while deciding the application. ii.These persons are not against the project per se; rather they support the project. However, their main concern is regarding loss of trees from their current locations. iii.The project area at common section of Old Madras Road (OMR) and Outer Ring Road (ORR) is one of the most congested road section in the city with very high traffic volume, low vehicular speed and high pollution. iv.For constructing the three metro lines and for decongesting the area, the resizing of the lake bund, without impacting the water body, is essential. v.The removal of the trees is necessary for construction of the sustainable public transport system by way of metro system and bus bays / bus stands besides creation of additional road lanes. vi.A change in the metro alignment or other road infrastructure or carrying out the project without removal of the trees is not feasible. vii.The specific concerns of the public regarding removal of trees from their current location should be met through translocation of the trees, as feasible and practical, and also by compensatory plantation in nearby areas, as per land availability. viii.BMRCL should be encouraged to take up facilities / activities for improving the tank bund area.
80.	Vyshnavi Upputuri <vyshnavi.upputuri@gmail.com, +91 9481 840 834 01.12.2020		
81.	Poojith Upputuri <poojith.upputuri@gmail.com 01.12.2020		
82.	Sudha Prasanna <sudhaprasanna2000@gmail.com 01.12.2020		
83.	annu laxmi <anupama_vl@yahoo.com 01.12.2020		
84.	samhita vintage <samhitavintage@yahoo.in 01.12.2020		
85.	V.L.N.MURTY B <bvlnmurty@gmail.com 01.12.2020		
86.	meera muralidharan <meera.muralidharan73@gmail.com 30.11.2020		
87.	ramaswamy raghupati <raghupatir@yahoo.com, Mobile No: +91 8123101205 30.11.2020		
88.	castle 2012 <atlas458@gmail.com 30.11.2020		
89.	chiramana ashok babu <abc64.nlr@gmail.com, Ph: 9148046939 30.11.2020		

Remarks of Tree Officer to the objections received from the public in Benniganahalli Tank Bund Area			
Sl. No	**Name & Date**	**Objection from Public**	**Remarks and findings of Tree Officer**
90.	Dhiraj Shetty <dhiraj.shetty@gmail.com, Mobile No: 9538802614 30.11.2020	We understand that 91 trees are proposed to be removed from the Benniganahalli Lake area as per the above public notice. We strongly oppose the proposal which has come up without any consultation with the local residents in the Lake area. This lake and the trees around it are a large & important natural resource in our neighbourhood. It provides critical green cover & urban lung space for thousands residents living the vicinity, in areas like K R Puram, Pai Layout, Old Madras Road Nagavarpalaya and nearby area. While we understand the importance of the Metro Rail project and are not against the same, we request a formal Public Consultation meeting in the lake vicinity before finalising the removal of the trees. All stake holders, including Bangalore Metro Rail Corporation, BBMP, Bangalore Lake Authority, residents & RWAs in the neighbourhood, can be invited to the meeting to share their views, before a final decision is taken. As our city is fast losing trees & green cover, Public consensus & support on this subject is very importatnt, and will help in arriving at a balanced decision suitable to all stake holders. We look forward to the public consultation meeting at the lake & your support.	i.The very purpose of inviting objections / suggestions is to get the views of the stakeholders in an organized manner and to consider them carefully while deciding the application. ii.These persons are not against the project per se; rather they support the project. However, their main concern is regarding loss of trees from their current locations. iii.The project area at common section of Old Madras Road (OMR) and Outer Ring Road (ORR) is one of the most congested road section in the city with very high traffic volume, low vehicular speed and high pollution. iv.For constructing the three metro lines and for decongesting the area, the resizing of the lake bund, without impacting the water body, is essential. v.The removal of the trees is necessary for construction of the sustainable public transport system by way of metro system and bus bays / bus stands besides creation of additional road lanes. vi.A change in the metro alignment or other road infrastructure or carrying out the project without removal of the trees is not feasible. vii.The specific concerns of the public regarding removal of trees from their current location should be met through translocation of the trees, as feasible and practical, and also by compensatory plantation in nearby areas, as per land availability. viii.BMRCL should be encouraged to take up facilities / activities for improving the tank bund area.
91.	Muralidharan Krishnamoorthy <kmurali2204@gmail.com 30.11.2020		
92.	Pulacode.V Subramanian Pai Layout. RMail: pvsubra@hotmail.com 30.11.2020		

80

Remarks of Tree Officer to the objections received from the public in Benniganahalli Tank Bund Area			
Sl. No	**Name & Date**	**Objection from Public**	**Remarks and findings of Tree Officer**
93	Tina Ajax tina.ajax@gmail.com 01.12.2020	I am writing to you to express my objection against cutting the trees around Beniganahalli lake for the Metro work. Our only source of greenery is those trees which were planted under the initiative of our Pai Layourt Association. Please take our humble request into consideration.	i.At this location, daily traffic count was more than 3.5 Lakhs PCUs in the Pre-Covid period leading to large pollution and congetion. For mitigating those adverse impacts, Metro as an efficient and sustainable mode of transport is very essential. ii.The positive impacts of the Metro System are far more than the small negative impact of removal of Trees. iii.Moreover, BMRCL will be translocating some of the trees, as feasible, and will also be taking up compensatory plantation in ratio of 1:10.
94	P.Gopu gopu.sp@gmail.com 01.12.2020	This is related to my concern and objection regarding the cutting of trees in Benniganahalli lake for the construction of BMRCL line connecting Byappanahalli - ITPL Look forward for your kind cooperation in saving the only Lake and nature available in the whole area... This lake and the tree acts as a catalyst and LUNGS for the entire area.	i.The water body of the lake will not be impacted in any manner. ii.BMRCL will be asked to take steps to translocate the trees, as feasible and prcatical, and also to transplant trees in ratio of 1:10.
95	Rama ani 1729.aniket@gmail.com 01.12.2020	Recently I read a public notice about Removal of trees in Benniganahalli lake bund area. The activities of Metro Rail Project and traffice movement is the purpose mentioned the notice Earlier, Bangalore was known as Garden City. Given the rampant deforestation in many places, Garden City should focus on sustainable growth. Otherwise its unwanted consequences will return in unexpected ways.	i.Metro provides sustainable mode of public transport. ii.Its positive effect by way of reduction in greenhouse gases and pollution due to the model shift from private transport to public transport far outweighs the small impact from removal of trees.

Remarks of Tree Officer to the objections received from the public in Benniganahalli Tank Bund Area			
Sl. No	**Name & Date**	**Objection from Public**	**Remarks and findings of Tree Officer**
96	Vijaya Bala viji75bala@gmail.com 01.12.2020	A request to save the Beninganahalli Lake Trees Felling. Kindly do the needful	BMRCL will be asked to take steps to translocate the trees, as feasible and practical, and also to transplant trees in ratio of 1:10.
97	Vignesh vignesh.karthik@gmail.com 01.12.2020	We understand that 91 trees are proposed to be removed from the Benniganahalli Lake area as per the above public notice. We strongly oppose the proposal which has come up without any consultation with the local residents in the Lake area.	i.The very purpose of inviting objections / suggestions is to get the views of the stakeholders in an organized manner and to consider them carefully while deciding the application. ii.These persons are not against the project per se; rather they support the project. However, their main concern is regarding loss of trees from their current locations. iii.The project area at common section of Old Madras Road (OMR) and Outer Ring Road (ORR) is one of the most congested road section in the city with very high traffic volume, low vehicular speed and high pollution. iv.For constructing the three metro lines and for decongesting the area, the resizing of the lake bund, without impacting the water body, is essential. v.The removal of the trees is necessary for construction of the sustainable public transport system by way of metro system and bus bays / bus stands besides creation of additional road lanes. vi.A change in the metro alignment or other road infrastructure or carrying out the project without removal of the trees is not feasible. vii.The specific concerns of the public regarding removal of trees from their current location should be met through translocation of the trees, as feasible and practical, and also by compensatory plantation in nearby areas, as per land availability. viii.BMRCL should be encouraged to take up facilities / activities for improving the tank bund area.

62

Remarks of Tree Officer to the objections received from the public in Benniganahalli Tank Bund Area			
Sl. No	**Name & Date**	**Objection from Public**	**Remarks and findings of Tree Officer**
98	Preksha C mudigoudar prekshac108@gmail.com 30.11.2020	To our disappointement, we understand that 91 trees are proposed to be cut from the Benniganahalli Lake area as per the above public notice.We strongly oppose the proposal which has come up without any consultation with the local residents in the Lake area. This lake and the trees around it are a large & important natural resource in our neighbourhood. It provides critical green cover & urban lung space for thousands residents living the vicinity, in areas like K R Puram, Pai Layout, Old Madras Road Nagavarpalaya and nearby area. Request your good selves to take cognizance of the above & support to save these trees. We will be grateful to you madam/Sir.	i.The very purpose of inviting objections / suggestions is to get the views of the stakeholders in an organized manner and to consider them carefully while deciding the application. ii.These persons are not against the project per se; rather they support the project. However, their main concern is regarding loss of trees from their current locations. iii.The project area at common section of Old Madras Road (OMR) and Outer Ring Road (ORR) is one of the most congested road section in the city with very high traffic volume, low vehicular speed and high pollution. iv.For constructing the three metro lines and for decongesting the area, the resizing of the lake bund, without impacting the water body, is essential. v.The removal of the trees is necessary for construction of the sustainable public transport system by way of metro system and bus bays / bus stands besides creation of additional road lanes. vi.A change in the metro alignment or other road infrastructure or carrying out the project without removal of the trees is not feasible. vii.The specific concerns of the public regarding removal of trees from their current location should be met through translocation of the trees, as feasible and practical, and also by compensatory plantation in nearby areas, as per land availability. viii.BMRCL should be encouraged to take up facilities / activities for improving the tank bund area.
99	Shubha B M shubha.bm1@gmail.com 30.11.2020		
100	Basavaraj Gouda brajkm2000@gmail.com 30.11.2020		

Remarks of Tree Officer to the objections received from the public in Benniganahalli Tank Bund Area			
Sl. No	**Name & Date**	**Objection from Public**	**Remarks and findings of Tree Officer**
101	Blu shamalakittane@gmail.com 30.11.2020	Considering that Covid has drastically altered how people move, work and the use of roads and public transport., its pointless to continue losing precious resources with the presumption that everything is goidn to return to pre-covid situation.. Metros are running practically empty and its already a colossal wasate of resources while it is at its suboptimal operation. This is a hasty decision and absolutely not neccessary at this time. We need the trees and some clean air more than anything else Metro has always been over enthusiastic about cutting trees and BBMP doesnt care less anyways. Classic Nanda Road case, whre first thing MEtro wanted to do was cut trees, but the trees on Nanda road are still standing and Metro runs alongside. In any case as mentioned already this is no urgent requirement, lots of public money is going waste just operationg the Metro running way below its intended carrying capacity - we do not need to add to the losses by butting trees and this loss cannot be made up for ever.	i.Bengaluru city with 130 lakh population and 85 lakh private vehicles requires efficient and sustainable mode of Public transport like Metro. It will not be correct to assume that the Metro system will not be needed in the post-Covid period. ii.At this location, 3 metro lines will be passing including one line each for Whitefield Line (Phase 2), ORR-Airport Metro (Phase 2A & 2B) and for the depot entry. The existing road space at this location with traffic of more than 3.5 lakh PCUs daily is highly limited. iii.The location requires decongestion by constructing metro lines as well as creating additional road width. For these purposes, resizing of the lake bund is absolutely necessary. iv.However, that will not lead to any impact on the water body. BMRCL will be taking steps for translocation of trees, as feasible, and also for compensatory plantation in ration of 1:10 to mitigate adverse impact of the removal of trees from this location. v.The positive impacts of metro will far outweigh the small adverse impact of removal of trees.
102	Gopal Krishna <gopalkrishna41953@gmail.com, 9916194121 01.12.2020	As per the order of Forest Dept. notification about 91 trees are to be cut to pave the way for BMRCL plan. It's so sad that fully grown up trees are being removed. We are not against Metro plan but we are concerned with the greenery. We are sick of this concrete jungle encroaching greenery. There should be a way out for this. If it's so inevitable then I suggest that these trees are trans located. Further atleast ten saplings are to be planted for every tree that will be axed. We are interested in protecting not only the lake but the environment	i.The very purpose of inviting objections / suggestions is to get the views of the stakeholders in an organized manner and to consider them carefully while deciding the application. ii.These persons are not against the project per se; rather they support the project. However, their main concern is regarding loss of trees from their current locations. iii.The project area at common section of Old Madras Road (OMR) and Outer Ring Road (ORR) is one of the most congested road section in the city with very high traffic volume, low vehicular speed and

68

Remarks of Tree Officer to the objections received from the public in Benniganahalli Tank Bund Area			
Sl. No	**Name & Date**	**Objection from Public**	**Remarks and findings of Tree Officer**
		too.Hope you would consider our request favourably. Yours sincerely, MR Gopal Krishna.	high pollution. iv.For constructing the three metro lines and for decongesting the area, the resizing of the lake bund, without impacting the water body, is essential. v.The removal of the trees is necessary for construction of the sustainable public transport system by way of metro system and bus bays / bus stands besides creation of additional road lanes. vi.A change in the metro alignment or other road infrastructure or carrying out the project without removal of the trees is not feasible. vii.The specific concerns of the public regarding removal of trees from their current location should be met through translocation of the trees, as feasible and practical, and also by compensatory plantation in nearby areas, as per land availability. viii.BMRCL should be encouraged to take up facilities / activities for improving the tank bund area.
103	Ashish Mukharji, #24/1,, 11th cross, Rukmini Nagar Bangalore 26.11.2020	As the Metro Rail Project has been under construction for almost over a couple of years, it is important to complete the project on time for the betterment of people using public transportation. It will be easy to commute on Meteros as it is time saving and fast. I recommend completing the project mentioned in the notice as committed by the government.	We appriciate your concern towards Public transport System, which will be helpful in reducing vehicular traffic and pollution caused due to the emmision of carbon dioxide hence action will be taken judiciously by clearing trees which are infringing the Metro works.
104	Manjoj Singh, #24/1, 2nd Main, 10th Cross, Vidyaranyapura, Bangalore, 29.11.2020	With reference to the above notice, I suppoort the BMRCL Project, because it helps the sustainable development of Metropolitan city. I support this Metro project, because BMRCL reduces the Traffic and Control number of vehicls on road and It reduces the pollution to a large extent also. Hence I have no objection of this BMRCL project	We appriciate your concern towards Public transport System, which will be helpful in reducing vehicular traffic and pollution caused due to the emmision of carbon dioxide hence action will be taken judiciously by clearing trees which are infringing the Metro works.

Remarks of Tree Officer to the objections received from the public in Benniganahalli Tank Bund Area			
Sl. No	**Name & Date**	**Objection from Public**	**Remarks and findings of Tree Officer**
105	Jaypal Sharma, #24, 3 Main, 12th Cross, Anchepalya, Behind Jindal company, Tumkur Road, Bangalore - 73 30.11.2020	With reference to the above notice, I suppoort the BMRCL Project in particular, the metro rail project in Benniganahalli lake bund area. I support this Metro Project, because BMRCLreduces the Traffic and Control number of vehicles on road and It reduces the pollution to a large extent also. Hence I have no Objection of this BMRCL project.	We appriciate your concern towards Public transport System, which will be helpful in reducing vehicular traffic and pollution caused due to the emmision of carbon dioxide hence action will be taken judiciously by clearing trees which are infringing the Metro works.
106	Vishvanath Bhatia #19/8, 1 Main, 3rd corss , R.R Nagar, Bangalore. 30.11.2020	With reference to the above notice I support the BMRCL projcet in particular, the metro rail projcet in Benniganahalli lake bund area which is beneficial to large IT sector employees in and around of the said area. This project of BMRCL reduces the number of vehicls on road and in turn reduces pollution to a large extent. Hence I support this Metro project and I have no Objection in granting permission to cut trees.	We appriciate your concern towards Public transport System, which will be helpful in reducing vehicular traffic and pollution caused due to the emmision of carbon dioxide hence action will be taken judiciously by clearing trees which are infringing the Metro works.
107	Sampath Kumar H.T. S/o Timmappa, 24, Anurag, 4th cross, 4th Main, MEI Layout Extn, Bangalore-57 01.12.2020	With referernce to the above notice I support the BMRCL project in particular, the metro rail project in Benniganahalli lake bund area which is beneficial to large IT sector employees in and around of the said area. This project of BMRCL reduces the number of vehicles on road and in turn reduces pollution to a large extent. Hence I support this Metro Prooject and I have no Objection in granting permission to cut trees.	We appriciate your concern towards Public transport System, which will be helpful in reducing vehicular traffic and pollution caused due to the emmision of carbon dioxide hence action will be taken judiciously by clearing trees which are infringing the Metro works.

ANNEXURE - 3

Submission of preliminary assessment by Tree Officer to Tree Expert Committee in respect of application number BMRCL/Dy.CE/R1A/Ph-II/TREES/2020/4368 dated 20.11.2020 of BMRCL for removal of 91 trees from Benniganahalli Tank Bund Area.

Date. 15.12.2020

Ref: 1.Case / Application No:BMRCL/Dy.CE/R1A/Ph-II/TREES/2020/4368
2.This office File No:a9.tree cutting/BMRCL/CR-154/2020-21

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

Sir,

1. Bangalore Metro Rail Corporation (BMRCL) had applied on 20.11.2020 under section 8(2) of the Karnataka Preservation of Trees Act (henceforth mentioned as the Act) seeking permission to remove 91 trees from Benniganahalli Tank Bund Area for construction of elevated structures (viaduct & stations) from Baiyyapanahalli station (excl.) to Vishveshwaraya Industrial Area Station (incl) including road widening and allied works.

2. A public notice in the Template-1 was issued on 21.11.2020 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 Kannada Prabha on 22.11.2020 and Prajavani &Indian Express Newspapers on 23.11.2020. 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 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, total 107 objections or suggestions were received. I also called response of BMRCL to those objections in general, and also sought the agency's views regarding possibility in change in the alignment or retention of the trees while carrying out the works. A preliminary review of all the objections as well the response of BMRCL was done by me.

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 91 trees were inspected personally by me on 13.12.2020 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

68

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 derailed 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 12.12.2020 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 91 number of Forms are enclosed.

10. A statement containing the tree details, preliminary assessment and justification for translocation / felling of 91trees is enclosed as Annexure-I. There are another 28 trees in project area which are not proposed to be removed by BMRCL. A list containing details of those 28 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 12-12-2020 along with the soil reports by UAS GKVK University.

(I) Benniganahalli Tank Bund

(II) K.R.Puram Metro station(acquired from Lowry College)

(III) Lowry College area

(iv) Kempegowda International Airport Limited(KIAL)

These sites are inspected by me on 13-12-2020 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.

(Ravishankar S.S.,

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

Deputy Conservator of Forests
Bangalore Urban Division,
BANGALORE.

Statement detailing the tree details, preliminary assessment and justification for on-site retention / translocation / felling

Application No.: **BMRCL/Dy.CE/R1A/Ph-II/TREES/2020/436** Date:15.12.2020

This office File No: A9/Tree cutting/BMRCL-154/2020-21

Project Area: **Benniganahalli Tank Bund Area (Reach 1A)**

SL No	Tree Number	Species	GMB (m)	Height (m)	Crown Spread	Preliminary Assessment (Onsite Retention/Translocation/Felling)	Justification
1	01	Akash mallige	1.30	7.50	3.50	Recommended for Translocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is healthy and young, • Hence Recommended for Translocation
2	02	Akash mallige	0.89	7.60	4.50	Recommended for Translocation	• Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Qualifies for excavation of applicable root ball/ earth balling. • Hence Recommended for Translocation.
3	03	Neem Tree	0.81	1.50	6.00	Recommended for Translocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is healthy and young, • Hence Recommended for Translocation.
4	04 (A)	Peepal Tree	1.05	7.30	12.50	Recommended for Felling	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Girth size is large, therefore

SL No	Tree Number	Species	GMB (m)	Height (m)	Crown Spread	Preliminary Assessment (Onsite Retention/Translocation/Felling)	Justification
							excavation of root ball proportionate to girth of the tree is not feasible in the site • Hence Recommended for Felling
	(B)		0.96	7.60			• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Girth size is large, therefore excavation of root ball proportionate to girth of the tree is not feasible in the site • Hence Recommended for Felling
	(C)		0.45	7.10			• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Girth size is large, therefore excavation of root ball proportionate to girth of the tree is not feasible in the site • Hence Recommended for Felling
	(D)		0.65	7.20			• Tree is present within the project area And obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Girth size is large, therefore excavation of root ball proportionate to girth of the tree is not feasible in the site. • Hence Recommended for Felling.

SL No	Tree Number	Species	GMB (m)	Height (m)	Crown Spread	Preliminary Assessment (Onsite Retention/Translocation/Felling)	Justification
	(E)		1.50	6.90			• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Girth size is large, therefore excavation of root ball proportionate to girth of the tree is not feasible in the site • Hence Recommended for Felling
	(F)		1.10	6.80			• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Girth size is large, therefore excavation of root ball proportionate to girth of the tree is not feasible in the site • Hence Recommended for Felling
5	05	Hole dasavala	0.49	2.50	4.00	Recommended for Translocation	• Tree is present within the project area obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Hence Recommended for Translocation.
6	06	Ficus Bengali	2.00	4.00	6.00	Recommended for Translocation	• Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • girth size is feasible for translocation • Hence Recommended for Translocation.

SL No	Tree Number	Species	GMB (m)	Height (m)	Crown Spread	Preliminary Assessment (Onsite Retention/Translocation/Felling)	Justification
7	07	Hole dasavala	0.52	3.10	3.50	Recommended for Translocation	• Tree is present within the project area And And obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Concrete blocks are very close to one side of the tree, therefore care should be taken during the preparation process of root ball for translocation • Hence Recommended for size for translocation
8	08	Hole dasavala	0.69	2.10	5.50	Recommended for Translocation	• Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • No adverse construction impacts or intrusions within the tree protection zone. • Hence Recommended for translocation.
9	09	Bagane tree	1.12	5.80	2.50	Recommended for Translocation	• Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and healthy • Hence Recomanded for Translocation.
10	10	Bagane tree	0.67	3.90	3.00	Recommended for Felling	• Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Trunk is broken and not feasible for translocation • Hence recommended for felling

SL No	Tree Number	Species	GMB (m)	Height (m)	Crown Spread	Preliminary Assessment (Onsite Retention/Translocation/Felling)	Justification
11	11 (A)	Caesalpinia Pulcherrima	0.30	3.80	3.00	Recommended for Felling	• Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree portion is dried, root ball cannot be extracted • Hence recommended for felling
	(B)		0.26	3.20			• Tree is present within the project area Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree portion is dried, root ball cannot be extracted • Hence recommended for felling
12	12	Bagane tree	0.67	3.00	2.50	Recommended for Translocation	• Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Hence Recommended for Translocation.
13	13	Hole dasavala	0.86	4.60	3.50	Recommended for Translocation	• Tree is present within the project area and and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Hence Recommended for Translocation.
14	14	Jamun Tree(Nerale)	0.62	4.10	4.00	Recommended for Translocation	• Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration

SL No	Tree Number	Species	GMB (m)	Height (m)	Crown Spread	Preliminary Assessment (Onsite Retention/Translocation/Felling)	Justification
							• Hence Recommended for Translocation.
15	15	Hole dasavala	0.96	6.10	6.00	Recommended for Translocation	• Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • The tree is healthy and young • Hence Recommended for Translocation.
16	16	Tabebuia avellanedae	0.27	3.50	2.00	Recommended for Felling	• Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Basal portion of the tree is injured severely showing canker face. • Hence Recommended for Felling.
17	17	Tabebuia avellanedae	0.35	3.50	3.00	Recommended for Felling	• Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is unfit for translocation • Hence Recommended for Felling.
18	18	Kari jaali Tree	0.99	4.30	10.00	Recommended for Translocation	• Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Hence Recommended for translocation

SL No	Tree Number	Species	GMB (m)	Height (m)	Crown Spread	Preliminary Assessment (Onsite Retention/Translocation/Felling)	Justification
19	19	Hole dasavala	0.70	5.00	5.00	Recommended for Translocation	• Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Hence Recommended for Translocation.
20	20	Spathodea Tree	1.85	6.00	8.00	Recommended for Felling	• Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Not feasible for translocation • Hence Recommended for Felling.
21	21	Rain Tree	0.72	7.30	6.00	Recommended for Translocation	• Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Hence Recommended for Translocation.
22	22	Akash mallige	0.41	4.60	3.50	Recommended for Translocation	• Tree is present within the project area obstructing construction of Pile, Pile cap and Pier works of BP34A • with feasible girth size for translocation • Hence Recommended for Translocation.
23	23	Akash mallige	1.35	7.10	6.00	Recommended for Translocation	• Tree is present within the project area obstructing construction of Pile, Pile cap and Pier works of BP34A • with feasible girth size for translocation • Hence Recommended for Translocation.

26

SL No	Tree Number	Species	GMB (m)	Height (m)	Crown Spread	Preliminary Assessment (Onsite Retention/Translocation/Felling)	Justification
24	24	Rain Tree	1.62	7.30	10.00	Recommended for felling	• Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • present very close to an sewage / drainage channel Girth size is large, • Hence Recommended for Felling.
25	25	Akash mallige	0.75	6.90	4.50	Recommended for felling	• Tree is present within the project area and obstructing the construction of Pile, Pile cap and pier BP36A. • The tree is already dead • Hence Recommended for Felling.
26	26	Akash mallige	0.68	6.40	3.00	Recommended for felling	• Tree is present within the project area and obstructing the construction of Pile, Pile cap and pier BP36A. • The tree is already dead • Hence Recommended for Felling.
27	27	Challa	0.55	6.50	3.00	Recommended for felling	• Tree is present within the project area Obstructing construction of Pile and pile cap of BP36A. • is present very close to the flyover • Hence Recommended for Felling.
28	28	Akash mallige	0.59	6.20	4.00	Recommended for felling	• Tree is present within the project area and and Obstructing construction of Pile and pile cap of BP36A. • the tree is present very close to the flyover • Hence Recommended for Felling.

SL No	Tree Number	Species	GMB (m)	Height (m)	Crown Spread	Preliminary Assessment (Onsite Retention/Translocation/Felling)	Justification
29	29 (A)	Peltoforum Pterocarpum Tree	0.76	7.10	4.50	Recommended for felling	• Tree is present within the project area and and Obstructing construction of Pile and pile cap of BP36A. • is present very close to the flyover • Hence Recommended for Felling.
	(B)		0.67	6.90	4.50		• Tree is present within the project area and Obstructing construction of Pile and pile cap of BP36A. • is present very close to the flyover • Hence Recommended for Felling.
	(C)		0.46	6.80	3.50		• Tree is present within the project area and Obstructing construction of Pile and pile cap of BP36A. • is present very close to the flyover • Hence Recommended for Felling.
30	30	Subabul Tree	0.95	7.10	6.50	Recommended for felling	• Tree is present within the project area and Obstructing construction of Pile and pile cap of BP36A. • is present very close to the flyover • Hence Recommended for Felling.
31	31 (A)	Akash mallige	0.67	6.70	3.00	Recommended for felling	• Tree is present within the project area and Obstructing Road widening work construction of pile and pile cap of BPBP36A. • is present very close to the flyover and • Hence Recommended for Felling.

28

SL No	Tree Number	Species	GMB (m)	Height (m)	Crown Spread	Preliminary Assessment (Onsite Retention/Translocation/Felling)	Justification
	(B)		0.37	6.60	1.50		• Tree is present within the project area and Obstructing Road widening work construction of pile and pile cap of BPBP36A. • Located very close to the flyover and • Hence Recommended for Felling.
32	32 (A)	Akash mallige	0.43	6.30	3.00	Recommended for felling	• Tree is present within the project area and Obstructing Road widening work construction of pile and pile cap of BPBP36A. • Forked trunk with decayed base. • Hence Recommended for Felling.
	(B)		0.58	7.10			• Tree is present within the project area and Obstructing Road widening work construction of pile and pile cap of BPBP36A. • Forked trunk with decayed base. • Hence Recommended for Felling.
33	33	Subabul Tree	0.93	6.20	4.00	Recommended for felling	• Tree is present in the project area and obstructing construction of, Pile and pile cap of BP36A. • The tree is already dead • Hence Recomanded for Felling.
34	34	Akash mallige	0.39	4.30	1.50	Recommended for felling	• Tree is present in the project area and obstructing construction of, Pile and pile cap of BP36A. • The tree is already dead • Hence Recommended for Felling.

SL No	Tree Number	Species	GMB (m)	Height (m)	Crown Spread	Preliminary Assessment (Onsite Retention/Translocation/Felling)	Justification
35	35	Subabul Tree	0.58	3.90	1.00	Recommended for felling	• Tree is present in the project area and obstructing construction of, Pile and pile cap of BP36A. • The tree is already dead • Hence Recommended for Felling.
36	36	Subabul Tree	0.93	4.90	8.00	Recommended for felling	• Tree is present within the project area and Road widening works and construction Pile and Pilecap of BP37A. • Is present very close to the flyover • Hence Recommended for Felling.
37	37	Rain Tree	1.50	5.70	10.00	Recommended for felling	• Tree is present within the project area and Obstructing construction of Pile and pile cap of BP36A. • Is present very close to the flyover • Hence Recommended for Felling.
38	38	Subabul Tree	0.53	4.80	1.50	Recommended for felling	• Tree is present within the project area and Obstructing construction of Pile and pile cap of BP36A. • Is present very close to the flyover • Hence Recommended for Felling.
39	39	Subabul Tree	0.56	3.90	1.50	Recommended for felling	• Tree is present within the project area, Obstructing Road widening works and construction of pile, pile cap of BP37A. • Inclined and is present very close to the flyover Hence Recommended for Felling.

SL No	Tree Number	Species	GMB (m)	Height (m)	Crown Spread	Preliminary Assessment (Onsite Retention/Translocation/Felling)	Justification
40	40 (A)	Ficus	0.57	4.10	2.50	Recommended for felling	• Tree is present within the project area, Obstructing Road widening works and construction of pile, pile cap of BP37A. • Inclined and is present very close to the flyover • Hence Recommended for Felling.
	(B)		0.73	3.90			• Tree is present within the project area, Obstructing Road widening works and construction of pile, pile cap of BP37A. • Inclined and is present very close to the flyover • Hence Recommended for Felling.
41	41	Subabul Tree	0.63	6.90	1.50	Recommended for felling	• Tree is present within the project area and Obstructing construction of Pile and pile cap of BP38A. • Is present very close to the flyover • Hence Recommended for Felling.
42	42 (A)	Subabul Tree	0.95	6.80	3.00	Recommended for felling	• Tree is present within the project area and Obstructing Road widening works and Pile, pile cap of BP38A. • Is present very close to the flyover • Hence Recommended for Felling.
	(B)		0.62	5.20	0.50		• Tree is present within the project area and Obstructing Road widening works and Pile, pile cap of BP38A. • Is present very close to the flyover • Hence Recommended for Felling.

SL No	Tree Number	Species	GMB (m)	Height (m)	Crown Spread	Preliminary Assessment (Onsite Retention/Translocation/Felling)	Justification
	(C)		0.56	3.00	0.50		• Tree is present within the project area and Obstructing Road widening works and Pile, pile cap of BP38A. • Is present very close to the flyover • Hence Recommended for Felling.
	(D)		0.62	3.00	0.50		• Tree is present within the project area and Obstructing Road widening works and Pile, pile cap of BP38A. • Is present very close to the flyover • Hence Recommended for Felling.
43	43	Subabul Tree	0.55	4.80	1.00	Recommended for felling	• Tree is present within the project area And Obstructing Road widening works and construction of Pile, pile cap of BP38A • Inclined towards the road side and is present very close to the flyover • Hence Recommended for Felling.
44	44 (A)	Akash mallige	0.78	3.20	4.00	Recommended for Translocation	• Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Hence Recommended for Translocation.
	(B)		0.62	2.40	4.00		• Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Hence Recommended for Translocation.

SL No	Tree Number	Species	GMB (m)	Height (m)	Crown Spread	Preliminary Assessment (Onsite Retention/Translocation/Felling)	Justification
45	45 (A)	Hole dasavala	0.34	2.80	3.00	Recommended for Translocation	• Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Appropriate root ball can be excavated. • Hence Recommended for Translocation.
	(B)		0.44	2.70	3.50		• Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Appropriate root ball can be excavated. • Hence Recommended for Translocation.
46	46	Dalichandra	0.71	5.20	4.00	Recommended for Translocation	• Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Hence Recommended for Translocation.
47	47	honge	0.73	3.50	4.00	Recommended for Translocation	• Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Hence Recommended for Translocation.
48	48	Avalanda	0.67	5.90	2.00	Recommended for Translocation	• Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and healthy

SL No	Tree Number	Species	GMB (m)	Height (m)	Crown Spread	Preliminary Assessment (Onsite Retention/Translocation/Felling)	Justification
							• Hence Recommended for Translocation.
49	49	Hole dasavala	0.55	5.30	5.00	Recommended for Translocation	• Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and healthy • Hence Recommended for Translocation.
50	50 (A)	Bili Kanagalu	0.34	1	3.00	Recommended for Felling	• Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree has forked branches and basal portion of the tree is little injured • Hence Recommended for Felling.
	(B)		0.25	1	1.00		• Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree has forked branches and basal portion of the tree is little injured • Hence Recommended for Felling.
51	51	Tabebuia avellanedae	0.38	2.50	0.10	Recommended for Felling	• Tree is present within the project area and obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is completely dried

SL No	Tree Number	Species	GMB (m)	Height (m)	Crown Spread	Preliminary Assessment (Onsite Retention/Translocation/Felling)	Justification
							• Hence Recommended for Felling.
52	52	Bougainvillea Tree	0.46	2.50	1.00	Recommended for Felling	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is completely dried/dead • Hence recommended for Felling.
53	53	Bili Kanagalu	0.38	1.5	1.00	Recommended for Felling	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Unfit for translocation • Hence recommended for Felling.
54	54	Akash mallige	0.26	3.00	1.50	Recommended for Felling	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is completely dried/dead • Hence recommended for Felling.
55	55	Subabulla	0.72	4.00	4.00	Recommended for Felling	• Tree is present within the project area Obstructing construction of Pile, Pile Cap of BP37A and Road widening works • Tree is completely dried/dead • Hence Recomanded for Felling.

SL No	Tree Number	Species	GMB (m)	Height (m)	Crown Spread	Preliminary Assessment (Onsite Retention/Translocation/Felling)	Justification
56	56	Subabulla	0.53	4.00	-	Recommended for Felling	• Tree is present within the project area Obstructing construction of Pile, Pile Cap of BP37A and Road widening works • Tree is completely dried/dead • Hence Recomanded for Felling.
57	57	Subabulla	0.58	4.00	1.50	Recommended for Felling	• Tree is present within the project area Obstructing construction of Pile, Pile Cap of BP37A and Road widening works • Tree is completely dried/dead • Hence Recomanded for Felling.
58	58	Akash mallige	0.26	2.5	0.50	Recommended for Translocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • tree is having feasible girth size for translocation • Hence Recommended for Translocation.
59	59 (A)	Kari jaali Tree	0.31	2.00	5.00	Recommended for felling	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Forked from the base • Hence Recommended for Felling.
	(B)		0.30	2.00			• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Forked from the base • Hence Recommended for Felling.

86

SL No	Tree Number	Species	GMB (m)	Height (m)	Crown Spread	Preliminary Assessment (Onsite Retention/Translocation/Felling)	Justification
60	60 (A)	Kari jaali Tree	0.26	2.00	2.50	Recommended for felling	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Forked from the base • Hence Recommended for Felling.
	(B)		0.25	2.00	2.00		• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Forked from the base • Hence Recommended for Felling.
61	61	Rose Wood Tree	0.71	8.00	5.00	Recommended for Translocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy • Hence Recommended for Translocation.
62	62	Rose Wood Tree	0.76	7.00	6.00	Recommended for Translocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy • Hence Recommended for Translocation.
63	63	Rose Wood Tree	0.95	10.00	6.00	Recommended for Translocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy

SL No	Tree Number	Species	GMB (m)	Height (m)	Crown Spread	Preliminary Assessment (Onsite Retention/Translocation/Felling)	Justification
							• Hence Recommended for Translocation.
64	64	Rose Wood Tree	0.53	4.00	4.00	Recommended for Translocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy • Hence Recommended for Translocation.
65	65	Rose Wood Tree	0.79	8.00	4.00	Recommended for Translocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy • Hence Recommended for Translocation.
66	66	Rose Wood Tree	0.89	8.00	4.50	Recommended for Translocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy • Hence Recommended for Translocation.
67	67	Rose Wood Tree	0.74	8.00	4.00	Recommanded foro Translocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy • Hence Recommended for Translocation.

89

SL No	Tree Number	Species	GMB (m)	Height (m)	Crown Spread	Preliminary Assessment (Onsite Retention/Translocation/Felling)	Justification
68	68	Rose Wood Tree	0.77	8.00	3.50	Recommanded fo Translocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy • Hence Recommended for Translocation.
69	69	Rose Wood Tree	0.71	8.00	4.00	Recommended for Translocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy • Hence Recommended for Translocation.
70	70	Rose Wood Tree	1.18	8.00	5.00	Recommanded for Translocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy • Hence Recommended for Translocation.
71	71	Rose Wood Tree	0.71	11.00	4.50	Recommanded for Translocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy • Hence Recommended for Translocation.
72	72	Rose Wood Tree	0.71	7.00	5.00	Recommanded fo Translocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy

SL No	Tree Number	Species	GMB (m)	Height (m)	Crown Spread	Preliminary Assessment (Onsite Retention/Translocation/Felling)	Justification
							• Hence Recommended for Translocation.
73	73	Rose Wood Tree	0.79	7.00	5.00	Recommended for Felling	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is completely dried/dead • Hence Recommended for Felling.
74	74	Rose Wood Tree	0.76	8.00	5.00	Recommamded for Tanslocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy • Hence Recommended for Translocation.
75	75	Rose Wood Tree	0.68	7.00	5.00	Recommanded for Translocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy • Hence Recommended for Translocation.
76	76	Rose Wood Tree	0.61	7.00	5.50	Recommamded for Tanslocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy • Hence Recommended for Translocation.

90

SL No	Tree Number	Species	GMB (m)	Height (m)	Crown Spread	Preliminary Assessment (Onsite Retention/Translocation/Felling)	Justification
77	77	Rose Wood Tree	0.64	6.00	4.40	Recommamded for Tanslocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy • Hence Recommended for Translocation.
78	78	Rose Wood Tree	0.61	4.00	2.50	Recommamded for Tanslocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy • Hence Recommended for Translocation.
79	79	Rose Wood Tree	0.55	3.00	0.30	Recommended for Felling	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is completely dried • Hence Recommended for Felling.
80	80	Rose Wood Tree	0.75	7.00	5.00	Recommamded for Tanslocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy • Hence Recommended for Translocation.
81	81	Rose Wood Tree	0.60	4.00	5.00	Recommamded for Tanslocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy

SL No	Tree Number	Species	GMB (m)	Height (m)	Crown Spread	Preliminary Assessment (Onsite Retention/Translocation/Felling)	Justification
							• Hence Recommended for Translocation.
82	82	Rose Wood Tree	0.46	3.50	3.50	Recommamded for Tanslocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy • Hence Recommended for Translocation.
83	83	Rose Wood Tree	0.63	6.00	4.50	Recommended for Translocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy • Hence Recommended for Translocation.
84	84	Rose Wood Tree	0.61	6.00	3.00	Recommended for Translocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy • Hence Recommended for Translocation.
85	85	Rose Wood Tree	0.83	8.00	5.00	Recommended for Translocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy • Hence Recommended for Translocation.

92

SL No	Tree Number	Species	GMB (m)	Height (m)	Crown Spread	Preliminary Assessment (Onsite Retention/Translocation/Felling)	Justification
86	86	Rose Wood Tree	0.67	8.00	4.50	Recommended for Translocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy • Hence Recommended for Translocation.
87	87	Rose Wood Tree	0.41	4.00	0.40	Recommended for Felling	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is completely dried • Hence Recommended for Felling.
88	88	Rose Wood Tree	0.55	4.00	4.00	Recommended for Translocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy • Hence Recommended for Translocation.
89	89 (A)	Rose Wood Tree	0.56	6.00	4.00	Recommended for Translocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy • Hence Recommended for Translocation.
	(B)	Rose Wood Tree	0.67	6.00	4.00		• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy

SL No	Tree Number	Species	GMB (m)	Height (m)	Crown Spread	Preliminary Assessment (Onsite Retention/Translocation/Felling)	Justification
							• Hence Recommended for Translocation.
90	90	Rose Wood Tree	0.69	9.00	4.00	Recommended for Translocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy • Hence Recommended for Translocation.
91	91	Rose Wood Tree	0.83	8.00	5.00	Recommended for Translocation	• Tree is present within the project area, obstructing the Lake Diaphragm wall construction & additional two lane BT Road as part of traffic integration • Tree is young and Healthy • Hence Recommended for Translocation.

Summary:

Total number of Trees assessed as suitable for translocation	**52**
Total number of Trees assessed for felling	**39**

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ANNEXURE - 4

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Annexure - 4

Proceedings of Tree Expert Committee in respect of review of application number BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 dated 20.11.2020 of BMRCL for removal of 91 trees from Benniganahalli Tank Bund area.

Case / Application No. BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368

1. The Tree Officer and Deputy Conservator of Forests, Bengaluru Urban Division vide his letter dt. 15.12.2020 has submitted his preliminary assessment of trees regarding application filed by BMRCL pertaining to 91 number of trees from **Benniganahalli Tank Bund** area of the Metro project. The submission is accompanied by following documents.

   a. A copy of the application dt. 20.11.2020 from BMRCL along with details and map of the area and the tree details including GPS coordinates;

   b. The public notice dated 21.11.2020 issued by Tree Officer and DCF, Bengaluru Urban Division, a complete set of the objections from the public and a copy of the proceedings dt. 12.12.2020 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).

   c. Tree Assessment Forms in Template 2 with Part I (dt.12.12.2020) containing tree details as furnished by RFO and Part II (dt.13.12.2020) containing preliminary assessment of the Tree Officer for each of 91 trees proposed to be removed 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 17.12. 2020.. The TEC also considered the objections received from the public, remarks and findings of the Tree Officer in respect of each objection, and proceedings dated 12.12.2020 of the Tree Officer regarding consideration of those objections.

96

3. The TEC observed that total 107 number of objections have been received in response to the public notice issued. However, most of these objections are general in nature like maintenance of greenery, felling lesser number of trees and maintenance of the natural resources. Some of the objectors have sought a public consultation /meeting with all stakeholders. Regarding this matter, it was enquired from Tree Officer and he responded that the provisions of KPT Act 1976 envisage issue of Public Notice to invite the objections from the public and the same has to be considered by Tree Officer. The TEC Concurred with the replies furnished by the Tree Officer regarding the Objections received in response to public notice.

4. The Chief Engineer, Social and Environment Management Unit, 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 Projects 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	**91**
Total number of Trees assessed for on-site retention	**NIL***
Total number of Trees assessed as suitable for translocation	**52**
Total number of Trees assessed for felling	**39**

*Further, there are another 28 Trees standing in the project area which are not proposed to be removed by BMRCL and hence they will be retained on the site.

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.

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

The TEC decided to visit the spot and scheduled the field inspection on 19.12.2020.

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

Member-Secretary, TEC
& Assistant Conservator of Forests, BBMP
Bengaluru

TEMPLATE No. 3

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].

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

188

ANNEXURE - 5

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

ANNEXURE - 5

Proceedings of Tree Expert Committee regarding field inspection on 19.12.2020 of the trees standing in Benniganahalli Tank Bund area of BMRCL Project area

Application No. BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 dt.20.11.2020

1. In obedience to the orders of Hon'ble High Court of Karnataka and in furtherance of the earlier meeting proceedings dt.17.12.2020, the field inspection for assessment of trees standing in the project area at Benniganahalli Tank Bund was carried out by the TEC on 19.12.2020. 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, and identification of the 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 translocation.

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 thorough and multipronged scrutiny of all the trees standing in the field falling under following category;

   a) Total number of enumerated trees standing in the project area – 119 Trees (as per Public Notice)
   b) Total number of trees present within the project area, but not hindering any of the project activities – 28 (as observed by TEC during Field Inspection)
   c) Total number of trees required for removal by BMRCL as per their application – 91 Trees

100

Further meticulous investigation was carried out by TEC for;

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 silviculturaly matured or softwood trees and trees suffering from defects / damages.

5. As a first priority, the Committee tried to identify the trees that can be retained on site. It was found that there 28 other trees standing in the project area which are not hindering the project activities. These trees have not been proposed for removal by BMRCL. Hence, they can be retained at their current locations.

6. Further the BMRCL reported that the remaining 91 trees for which removal has been sought for are falling in the following physical features of the Metro Project.

Physical features	Tree Nos.
New Road formation as the Metro Portal piers will be erected on the existing road	1 2 3 4 5 6 7 8 9 44 45 46 47 48 49 58 59 60 90 91 (Total 20 Nos.)
Construction of Retaining Wall for entry portion of Lake Bund	10 11 12 20 21 (Total 5 Nos)
Construction of Diaphragm Wall for remaining portion of Lake Bund	13 14 15 16 17 18 19 24 50 51 52 53 54 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 (Total 42 Nos.)
Structural Works (Pile cap location over which the pier will come)	22 23 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 55 56 57 (Total 24 Nos)

Since the trees are standing right in the middle of the construction area and hindering the project activities, the TEC concluded that none of these 91 trees can be retained onsite.

7. In the event of tree falling within the project activity area,the next consideration for the Committee was to identify the trees 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.

8. For the trees having the potential for translocation, availability of effective zone to extract the root-ball 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.

8. The assessment with justification for each tree was recorded as stipulated in Part-III of Template 2.

9. After identifying the trees which can be retained-on-site and for translocation, the remaining trees were classified under felling category as a last resort after examing their general condition and location. The assessment with justification for each tree was recorded as stipulated in Part-III of Template 2.

10. Following is the summary of recommendations of the Committee as recorded in the Template 2 Part III.

Total number of Trees examined/observed	**91**
Total number of Trees found suitable for on-site retention	**NIL***
Total number of Trees found suitable for translocation	**52**
Total number of Trees for felling	**39**

*Note: The TEC observed that there are 28 number of other trees standing in the Project area but not affecting the Project activities. BMRCL has not sought removal of those trees. BMRCL's representatives assured that these 28 trees shall be retained at their respective locations.

11. A statement containing recommendations and remarks along with the tree details is appended to these proceedings.

12. Having completed the above assessment at the project site, the Committee visited the following site(s) proposed by BMRCL and recommended by the Tree officer for the translocation of trees, besides other parts of the tank bund, to assess the land suitability.

a. Benniganahalli tank area (outside the project area)

b. K.R. Puram Metro Station (Land acquired from Lowry School)

c. Lowry School premises (Adjacent to K R Puram Metro Station)

BMRCL have recently suggested another area as follows which has been recommended by the Tree officer for translocation of trees purpose

d. Kempegowda International Airport Areas

102

13. The Committee considered the soil test analysis report of the above three sites (i, ii & iii) as prepared by Department of Soil Science and Agricultural Chemistry, UAS, GKVK, Bangalore with following inference;

> "The 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 concurred with the said report of UAS, Bengaluru and found that translocation of trees can be done in the proposed sites vide para 12 (i,ii,iii) above after following the advice as rendered by UAS, Bengaluru. The TEC also concurs with the recommendation of the Tree officer regarding translocation of trees at site vide para 12 (iv) above.

14. In pursuance to the instructions as mentioned in KPT Act 1976, BMRCL should take up Compensatory Afforestation by planting of 910 saplings @ 10 saplings for each of 91 trees to be translocated/felled.

24.12.20

Member Secretary, TEC
& Assistant Conservator of Forests, BBMP,
Bengaluru

Annexure

Recommendations and Remarks for on-site retention / translocation / felling of trees by Tree Expert Committee

Case / Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/436 Date. 20.11.2020

Project Area: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
1	01	Akash mallige	1.30	7.50	3.50	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling • Care should be taken during the preparation of tree for translocation for pruning small sized girdled roots and dried branches • Root ball dimensions should be appropriate in consideration to tree no.2, as there is probability of overlapping of root balls of tree no. 1 and 2

103

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
2	02	Akash mallige	0.89	7.60	4.50	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling • Root ball dimensions should be appropriate in consideration to root ball of tree no. 1 • Tree with feasible girth size for translocation
3	03	Neem Tree	0.81	1.50	6.00	Recommended for Translocation	• Tree is present within the project area • Tree is surrounded by concrete structures; therefore, care should be taken during the preparation process of root ball for translocation • Tree with feasible girth size for translocation
4	04 (A)	Peepal Tree	1.05	7.30	12.50	Recommended for Felling	• Tree is present within the project area • Girth size is large; therefore, excavation of root ball proportionate to girth of the tree is not feasible in the site • Tree is surrounded by built-in concrete structures • Tree is infested with termites at the base

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
	(B)		0.96	7.60			• Tree is present within the project area • Girth size is large; therefore, excavation of root ball proportionate to girth of the tree is not feasible in the site • Tree is surrounded by built-in concrete structures • Tree is infested with termites at the base
	(C)		0.45	7.10			• Tree is present within the project area • Girth size is large; therefore, excavation of root ball proportionate to girth of the tree is not feasible in the site • Tree is surrounded by built-in concrete structures • Tree is infested with termites at the base
	(D)		0.65	7.20			• Tree is present within the project area • Girth size is large; therefore, excavation of root ball proportionate to girth of the tree is not feasible in the site • Tree is surrounded by built-in concrete structures • Tree is infested with termites at the base

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
	(E)		1.50	6.90			• Tree is present within the project area • Girth size is large; therefore, excavation of root ball proportionate to girth of the tree is not feasible in the site • Tree is surrounded by built-in concrete structures • Tree is infested with termites at the base
	(F)		1.10	6.80			• Tree is present within the project area • Girth size is large; therefore, excavation of root ball proportionate to girth of the tree is not feasible in the site • Tree is surrounded by built-in concrete structures • Tree is infested with termites at the base
5	05	Hole dasavala	0.49	2.50	4.00	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
6	06	Ficus Bengali	2.00	4.00	6.00	Recommended for Translocation	• Tree is present within the project area • The dead portion of broken trunk should be pruned scientifically while preparing the tree for translocation • Care should be taken during preparation of root ball as a portion of roots are already exposed
7	07	Hole dasavala	0.52	3.10	3.50	Recommended for Translocation	• Tree is present within the project area • Concrete blocks are very close to one side of the tree, therefore care should be taken during the preparation process of root ball for translocation • Tree is with feasible girth size for translocation
8	08	Hole dasavala	0.69	2.10	5.50	Recommended for Translocation	•Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
9	09	Bagane tree	1.12	5.80	2.50	Recommended for Translocation	• Tree is present within the project area • Care should be taken during preparation of root ball as a portion of roots are already exposed
10	10	Bagane tree	0.67	3.90	3.00	Recommended for Felling	• Tree is present within the project area • Top portion of trunk of the tree is broken and does not qualify for translocation / transplantation
11	11 (A)	Caesalpinia Pulcherrima	0.30	3.80	3.00	Recommended for Felling	• Tree is present within the project area • Portion of top canopy of the tree are dried, as the canopy touches and rubs on the parapet of nearby flyover • Tree does not fit for transplantation / translocation

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
	(B)		0.26	3.20			• Tree is present within the project area • Portion of top canopy of the tree are dried, as the canopy touches and rubs on the parapet of nearby flyover • Tree does not fit for transplantation / translocation
12	12	Bagane tree	0.67	3.00	2.50	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling
13	13	Hole dasavala	0.86	4.60	·3.50	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
14	14	Jamun Tree(Nerale)	0.62	4.10	4.00	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling
15	15	Hole dasavala	0.96	6.10	6.00	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling • There are minor defects on the trunk, however these defects do not impact survival of the tree after translocation
16	16	Tabebuia avellanedae	0.27	3.50	2.00	Recommended for Felling	• Tree is present within the project area • Basal portion of the tree is injured severely showing canker face • The branch arising at about 1.5m from the base is dead with included barks in the forked region, therefore the tree does not fit for transplantation / translocation

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
17	17	Tabebuia avellanedae	0.35	3.50	3.00	Recommended for Felling	• Tree is present within the project area • Forked at 1.5m from the base • Tree is with canker due to injury at the base • A branch had been ripped from a trunk, where 50% of portion of girth of the tree was removed • These conditions as mentioned above makes the tree unfit for transplantation / translocation
18	18	Kari jaali Tree	0.99	4.30	10.00	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling
19	19	Hole dasavala	0.70	5.00	5.00	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
20	20	Spathodea Tree	1.85	6.00	8.00	Recommended for Felling	• Tree is present within the project area • Girth size is large, therefore excavation of root ball proportionate to girth may not be feasible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
21	21	Rain Tree	0.72	7.30	6.00	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling
22	22	Akash mallige	0.41	4.60	3.50	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
23	23	Akash mallige	1.35	7.10	6.00	Recommended for Translocation	• Tree is present within the project area • Tree is with multiple suckers which has to be pruned appropriately during the process of translocation • Care to be taken during excavation of root ball as the tree is present near to tree no. 22 • No adverse construction impacts or intrusions within the tree protection zone
24	24	Rain Tree	1.62	7.30	10.00	Recommended for felling	• Tree is present within the project area • Girth size is large, therefore excavation of root ball proportionate to girth may affect the existing drainage channel near to the tree • These conditions as mentioned above categorize the tree under felling, as a last resort
25	25	Akash mallige	0.75	6.90	4.50	Recommended for felling	• Tree is present within the project area

113

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
26	26	Akash mallige	0.68	6.40	3.00	Recommended for felling	• Tree is present within the project area
27	27	Challa	0.55	6.50	3.00	Recommended for felling	• Tree is present within the project area • Forked at 1.5m from the base and the top is broken • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
28	28	Akash mallige	0.59	6.20	4.00	Recommended for felling	• Tree is present within the project area • Trunk is conjoined at the base with tree no. 29 • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
29	29 (A)	Peltoforum Pterocarpum Tree	0.76	7.10	4.50	Recommended for felling	• Tree is present within the project area • Forked trunk conjoined at the base with tree no. 28 • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
	(B)		0.67	6.90	4.50		• Tree is present within the project area • Forked trunk conjoined at the base with tree no. 28 • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
	(C)		0.46	6.80	3.50		• Tree is present within the project area • Forked trunk conjoined at the base with tree no. 28 • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
30	30	Subabul Tree	0.95	7.10	6.50	Recommended for felling	• Tree is present within the project area • Trunk is with vertical crack exposing the decayed internal woody structure of the tree • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
31	31 (A)	Akash mallige	0.67	6.70	3.00	Recommended for felling	• Tree is present within the project area • Tree is multiforked with main trunk showing vertical crack exposing the decayed internal woody structure of the tree • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
	(B)		0.37	6.60	1.50		• Tree is present within the project area • Tree is multiforked with main trunk showing vertical crack exposing the decayed internal woody structure of the tree • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
32	32 (A)	Akash mallige	0.43	6.30	3.00	Recommended for felling	• Tree is present within the project area • Forked trunk with decayed base • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
	(B)		0.58	7.10			• Tree is present within the project area • Forked trunk with decayed base • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
33	33	Subabul Tree	0.93	6.20	4.00	Recommended for felling	• Tree is present within the project area • The tree is already dead.
34	34	Akash mallige	0.39	4.30	1.50	Recommended for felling	• Tree is present within the project area • The tree is already dead.

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
35	35	Subabul Tree	0.58	3.90	1.00	Recommended for felling	• Tree is present within the project area • The tree is already dead.
36	36	Subabul Tree	0.93	4.90	8.00	Recommended for felling	• Tree is present within the project area • Trunk of the tree is inclined with canker formation at the base exposing the decayed internal woody structure of the tree • Presence of epicormic shoots on the tree indicates the tree under stress • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
37	37	Rain Tree	1.50	5.70	10.00	Recommended for felling	• Tree is present within the project area • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
38	38	Subabul Tree	0.53	4.80	1.50	Recommended for felling	• Tree is present within the project area • The tree is inclined with canker formation due to mechanical injury visible at the base and mid portion of the trunk of the tree • The branches are broken at the top • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
39	39	Subabul Tree	0.56	3.90	1.50	Recommended for felling	• Tree is present within the project area • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
40	40 (A)	Ficus	0.57	4.10	2.50	Recommended for felling	• Tree is present within the project area • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
	(B)		0.73	3.90			• Tree is present within the project area • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
41	41	Subabul Tree	0.63	6.90	1.50	Recommended for felling	• Tree is present within the project area • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
42	42 (A)	Subabul Tree	0.95	6.80	3.00	Recommended for felling	• Tree is present within the project area • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
	(B)		0.62	5.20	0.50		• Tree is present within the project area • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
	(C)		0.56	3.00	0.50		• Tree is present within the project area • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
	(D)		0.62	3.00	0.50		• Tree is present within the project area • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
43	43	Subabul Tree	0.55	4.80	1.00	Recommended for felling	• Tree is present within the project area • Excavation and preparation of tree with applicable root ball size may not be possible as the tree is present very close to the flyover • These conditions as mentioned above categorize the tree under felling, as a last resort
44	44 (A)	Akash mallige	0.78	3.20	4.00	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling • There are minor defects on the trunk, however these defects do not impact survival of the tree species after translocation

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
	(B)		0.62	2.40	4.00		• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball / earth balling • There are minor defects on the trunk, however these defects do not impact survival of the tree species after translocation
45	45 (A)	Hole dasavala	0.34	2.80	3.00	Recommended for Translocation	• Tree is present within the project area • Even though, tree has forked branches, and the girth of both trunk is feasible for transplanting. • Appropriate root ball can be excavated.
	(B)		0.44	2.70	3.50		• Tree is present within the project area • Even though, tree has forked branches, and the girth of both trunk is feasible for transplanting. • Appropriate root ball can be excavated.

123

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benn ganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
46	46	Dalichandra	0.71	5.20	4.00	Recommended for Translocation	• Tree is present within the project area • Drainage is very close to one side of the tree, therefore care should be taken during the preparation process of root ball for translocation • Tree is with feasible girth size for translocation
47	47	honge	0.73	3.50	4.00	Recommended for Translocation	• Tree is present within the project area • Drainage is very close to one side of the tree, therefore care should be taken during the preparation process of root ball for translocation • Tree is with feasible girth size for translocation
48	48	Avalanda	0.67	5.90	2.00	Recommended for Translocation	• Tree is present within the project area • Tree is leaned towards the temple compound wall, care should be taken to manage required canopy size while transplanting. • Appropriate root ball can be excavated

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
49	49	Hole dasavala	0.55	5.30	5.00	Recommended for Translocation	• Tree is present within the project area • Tree is feasible girth size for translocation• No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball.
50	50 (A)	Bili Kanagalu	0.34	1	3.00	Recommended for Felling	• Tree is present within the project area • Tree has forked branches and basal portion of the tree is little injured • All the branches of this tree pruned, therefore the tree does not fit for transplantation / translocation
	(B)		0.25	1	1.00		• Tree is present within the project area • Tree has forked branches and basal portion of the tree is little injured • All the branches of this tree pruned, therefore the tree does not fit for transplantation / translocation

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
51	51	Tabebuia avellanedae	0.38	2.50	0.10	Recommended for Felling	• Tree is present within the project area • Tree is completely dried/dead with fungal fruiting bodies.
52	52	Bougainvillea Tree	0.46	2.50	1.00	Recommended for Felling	• Tree is present within the project area • Tree is completely dried/dead • Hence recommended for Felling
53	53	Bili Kanagalu	0.38	1.5	1.00	Recommended for Felling	• Tree is present within the project area • All the branches of this tree pruned, therefore the tree does not fit for transplantation / translocation.

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
54	54	Akash mallige	0.26	3.00	1.50	Recommended for Felling	• Tree is present within the project area • Tree is completely dried/dead
55	55	Subabulla	0.72	4.00	4.00	Recommended for Felling	• Tree is present within the project area • Tree is completely dried/dead
56	56	Subabulla	0.53	4.00	-	Recommended for Felling	• Tree is present within the project area • Tree is completely dried/dead

127

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
57	57	Subabulla	0.58	4.00	1.50	Recommended for Felling	• Tree is present within the project area • Tree is completely dried/dead
58	58	Akash mallige	0.26	2.5	0.50	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball.
59	59 (A)	Kari jaali Tree	0.31	2.00	5.00	Recommended for felling	• Tree is present within the project area • Forked from the base • These conditions as mentioned above categorize the tree under felling, as a last resort

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
	(B)		0.30	2.00			• Tree is present within the project area • Forked from the base These conditions as mentioned above categorize the tree under felling, as a last resort
60	60 (A)	Kari jaali Tree	0.26	2.00	2.50	Recommended for felling	• Tree is present within the project area • Forked from the base • These conditions as mentioned above categorize the tree under felling, as a last resort
	(B)		0.25	2.00	2.00		• Tree is present within the project area • Forked from the base • These conditions as mentioned above categorize the tree under felling, as a last resort

124

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
61	61	Rose Wood Tree	0.71	8.00	5.00	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball Tree with straight bole and feasible girth size for translocation
62	62	Rose Wood Tree	0.76	7.00	6.00	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball Tree with straight bole and feasible girth size for translocation
63	63	Rose Wood Tree	0.95	10.00	6.00	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree with feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation.

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
64	64	Rose Wood Tree	0.53	4.00	4.00	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball Young tree with straight bole and feasible girth size (0.5 meter) for translocation
65	65	Rose Wood Tree	0.79	8.00	4.00	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball Even though tree with little leaned/bend and it is having feasible girth size for translocation
66	66	Rose Wood Tree	0.89	8.00	4.50	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ballTree with straight bole and feasible girth size for translocation

131

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
67	67	Rose Wood Tree	0.74	8.00	4.00	Recommanded foro Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball Tree with straight bole and feasible girth size for translocation
68	68	Rose Wood Tree	0.77	8.00	3.50	Recommanded fo Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree with straight bole and feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation.
69	69	Rose Wood Tree	0.71	8.00	4.00	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree with feasible girth size for translocation Even though trunk of the tree is debarked due to physical damaged, recommended for translocation

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
70	70	Rose Wood Tree	1.18	8.00	5.00	Recommanded for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree with feasible girth size for translocation Even though trunk of the tree is debarked due to physical damaged, recommended for translocation.
71	71	Rose Wood Tree	0.71	11.00	4.50	Recommanded for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree with feasible girth size for translocation Even though trunk of the tree is debarked due to physical damaged, recommended for translocation
72	72	Rose Wood Tree	0.71	7.00	5.00	Recommanded fo Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree with straight bole and feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
73	73	Rose Wood Tree	0.79	7.00	5.00	Recommended for Felling	• Tree is present within the project area • Tree is completely dried/dead Trunk of this tree is physically damaged and also damaged by wood borer
74	74	Rose Wood Tree	0.76	8.00	5.00	Recommamded for Tanslocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball• Tree with feasible girth size for translocationEven though trunk of the tree is debarked due to physical damaged, recommended for translocation.
75	75	Rose Wood Tree	0.68	7.00	5.00	Recommanded for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball Young tree with straight bole and feasible girth size (0.7meter) for translocation

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
76	76	Rose Wood Tree	0.61	7.00	5.50	Recommamded for Tanslocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Young tree with straight bole and feasible girth size (0.58 meter) for translocation Not found any significant visual symptoms, hence qualifies for translocation
77	77	Rose Wood Tree	0.64	6.00	4.40	Recommamded for Tanslocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Young tree with straight bole and feasible girth size (0.60 meter) for translocation Not found any significant visual symptoms, hence qualifies for translocation
78	78	Rose Wood Tree	0.61	4.00	2.50	Recommamded for Tanslocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Young tree with straight bole and feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation

139

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
79	79	Rose Wood Tree	0.55	3.00	0.30	Recommended for Felling	• Tree is present within the project area • Tree is completely dried/dead and its having fungal fruiting bodies.
80	80	Rose Wood Tree	0.75	7.00	5.00	Recommamded for Tanslocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree having straight bole and feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation
81	81	Rose Wood Tree	0.60	4.00	5.00	Recommamded for Tanslocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball• Tree with feasible girth size for translocationNot found any significant visual symptoms, hence qualifies for translocation

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
82	82	Rose Wood Tree	0.46	3.50	3.50	Recommamded for Tanslocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Young tree having straight bole and feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation.
83	83	Rose Wood Tree	0.63	6.00	4.50	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Even though trunk of this tree is physically/mechanically damaged and attacked by some wood borer, recommended for translocation. • Tree may reequip with new environment by adopting proper translocation measures.
84	84	Rose Wood Tree	0.61	6.00	3.00	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Young tree having straight bole and feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation.

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
85	85	Rose Wood Tree	0.83	8.00	5.00	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Young tree having straight bole and feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation.
86	86	Rose Wood Tree	0.67	8.00	4.50	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Young tree having straight bole and feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation.
87	87	Rose Wood Tree	0.41	4.00	0.40	Recommended for Felling	• Tree is present within the project area • Tree is completely dried/dead might be due to severe wood borers

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
88	88	Rose Wood Tree	0.55	4.00	4.00	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball• Young tree having straight bole and feasible girth size for translocationNot found any significant visual symptoms, hence qualifies for translocation.
89	89 (A)	Rose Wood Tree	0.56	6.00	4.00	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Tree is having forked branches at 0.5 meter from ground level and it qualifies for excavation of applicable root ball Not found any significant visual symptoms, hence qualifies for translocation.
	(B)	Rose Wood Tree	0.67	6.00	4.00		• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Tree is having forked branches at 0.5 meter from ground level and it qualifies for excavation of applicable root ball Not found any significant visual symptoms, hence qualifies for translocation

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Sl No	Tree Number	Species	GMH (m)	Height (m)	Crown Spread (M)	Recommendation of TEC (Onsite Retention / Translocation / Felling)	Remarks
90	90	Rose Wood Tree	0.69	9.00	4.00	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball Even though tree trunk is mechanically damaged and it is attacked by wood borer, recommended for transplanting, this tree may reequip, since the metabolic activity of young aged tree is more, but transplantation has to be done with scientifically.
91	91	Rose Wood Tree	0.83	8.00	5.00	Recommended for Translocation	• Tree is present within the project area • No adverse construction impacts or intrusions within the tree protection zone • Qualifies for excavation of applicable root ball • Tree having feasible girth size for translocation Not found any significant visual symptoms, hence qualifies for translocation.

Application No.: BMRCL/Dy.CE/R1A/Ph-II/Trees/2020/4368 Date. 20.11.2020

Location: Benniganahalli Tank Bund

Summary:

Total number of Enumerated Trees	**91**
Total number of Trees assessed for on-site retention	**Nil**
Total number of Trees assessed as suitable for translocation	**52**
Total number of Trees assessed for felling	**39**

24.12.20

Member Secretary, TEC
& Assistant Conservator of Forests, BBMP
Bengaluru

121

BMRCL APPLICATION

ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲು ನಿಗಮ ನಿಯಮಿತ

ಭಾರತ ಸರ್ಕಾರ ಮತ್ತು ಕರ್ನಾಟಕ ಸರ್ಕಾರಗಳ ಜಂಟಿ ಉದ್ಯಮ

ಕೃಷ್ಣಪಾಲ್ಯ ರಸ್ತೆ, ಇಎಸ್‌ಐ ಲೋಕಲ್ ಆಫೀಸ್ ಬಳಿ, ಓಲ್ಡ್ ಎನ್‌ಜಿಇಎಫ್ ಫ್ಯಾಕ್ಟರಿ ಮೇನ್ ರಸ್ತೆ, ಬೈಯಪ್ಪನಹಳ್ಳಿ, ಬೆಂಗಳೂರು-38

Bangalore Metro Rail Corporation Ltd.

(A Joint Venture of Govt. of India & Govt. of Karnataka)

Krishnapalya Road, Near ESI Local Office, Old NGEF Factory Main Road, Baiyapanahali, Bangalore - 38

BMRCL/Dy.CE/R1A/Ph-II/TREES/2020/4369 Date: 20.11.2020

To,

Dy. Conservator of Forest.
4th Floor, Annex Building.
N.R.Square
Bangalore – 560001

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.

Dear Sir,

Subject: Submission of fresh application for tree clearance Near Benniganahalli Tank Bund – reg.

Ref: 1) Orders of Hon'ble High Court of Karnataka dated 18.11.2020 in WP

With reference to the above, we are withdrawing the old applications sought for tree clearance and submitting fresh applications for the clearance of trees as per the directions of the Hon'ble High Court of Karnataka. Hence, I request you to kindly accord permission for tree clearance which are infringing Metro works in Benniganahalli Tank Bund and oblige.

(Col. Atul Kulshrestha)
Engineer_R1A/BMRCL

O/C

FORM I KARNATAKA PRESERVATION OF TREES RULES, 1977

FORM NO.I

[See Rule 4(1)]

Form of Application

From,
Engineer (Reach R1A)
BMRCL Project Office
Krishnan Palya Road
Near ESI Local Office
Baiyapanhalli, Bangalore - 560038

Date: 19.11.2020

To,

The Tree Officer (The Deputy Conservator of Forest),
Banglore Urban Division,
Aranya Bhavan Annex, 18th Cross,
Malleshwaram, Bengaluru-560003

Sir,

BMRCL intend to clear the trees infringing the Metro construction works. The details of the infringing trees are enclosed for your further necessary action.

1.	Sy. No. and extent of the land from which the trees are to be felled.	Survey No.55 & 82
2.	Location of the Sy. No. with Sy. Sketch.	Benniganahalli Tank Bund
3.	Whether the boundary of Sy. No. is clear and demarcated property on the ground	Yes
4.	The number and kind of trees in tended to be felled with girth of each tree (detailed list to be attached) a. Total Number of Trees Standing in the Project Area b. Toatal number of Trees proposed to be removed	 119 (ANNEXURE – I) 91 (ANNEXURE – II)
5.	The purpose for which the trees are to be felled (specific mention to be made about the purpose)	Infringing the Metro Alignment from Baiyapanahalli to Whitefield
6.	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	NA

FORM I KARNATAKA PRESERVATION OF TREES RULES, 1977

	Land and Tree growth.	
7	Whether any tree proposed to be felled is reserved to Government, if so, details may be given.	NA
8.	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
9.	Whether the licensee or certificate in respect of the following is enclosed in case the purpose of felling is for; (i) Coffee cultivation – Certificate from Coffee Board. (ii) Rubber Cultivation – Certificate from Rubber Board. (iii) Cardamom Cultivation Certificate from Cardamom Board. (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 the Metro Construction works.

I/We am/are prepared of 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 there under 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

ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲು ನಿಗಮ ನಿಯಮಿತ
(ಭಾರತ ಸರ್ಕಾರ ಮತ್ತು ಕರ್ನಾಟಕ ಸರ್ಕಾರಗಳ ಜಂಟಿ ಉದ್ಯಮ)
ಕೃಷ್ಣಪಲ್ಯ ರಸ್ತೆ, ಇಎಸ್‌ಐ ಲೋಕಲ್ ಕಚೇರಿ ಹತ್ತಿರ, ಹಳೆಯ ಎನ್‌ಜಿಇಎಫ್ ಫ್ಯಾಕ್ಟರಿ ಮುಖ್ಯ ರಸ್ತೆ, ಬೈಯಪನಹಳ್ಳಿ, ಬೆಂಗಳೂರು-38
Bangalore Metro Rail Corporation Ltd.
(A Joint Venture of Govt. of India & Govt. of Karnataka)
Krishnapalya Road, Near ESI Local Office, Old NGEF Factory Main Road, Baiyapanahali, Bangalore - 38

BMRCL/Dy.CE/R1A/Ph-II/TREES/2020/4[illegible]

Date: 21.11.2020

To ,
The Tree Officer(The Deputy Conservator of Forest),
Bangalore Urban Division,
Aranya Bhavan Annex,18 th Cross.
Malleshwaram,Bengaluru-560003.

Sub: Proposed Construction of elevated structures (viaduct & stations) including road widening an allied works of length 8.039 KM (Approx. from CH.18603.879m to 26643.032) from Baiyappanahalli station dead end to Visveshwaraya Ind. Area station dead end including 6 No.s of Elevated Metro Stations Viz, Jyothipura Station, K.R.Puram Station, Mahadevapura Station, Garudacharpalya Station, Doddenakundi Industrial Area Station, Visveshwaraya Industrial Area Station in the Extension on East side of E-W corridor of Bangalore Metro Rail Project Phase -2, R1a-:"**(91 Nos of Trees out of 119 Trees infringing metro alignment at Benaganahalli tank bund - Reg)."**

Ref 1 :- Our Letter: KARNATAKA PRESERVATION OF TREES RULES,1977/FORM I dated 19.11.2020

Sir,

Further to our earlier submitted application dated 19.11.2020 for clearing the infringing trees at Bennaganahalli lake bund, following additional details is being furnished as per High Court Order.

Metro work is undertaken from Baiyappanahalli to Whitefield for a length of 15.23 kms. Viaduct construction is completed between KR Puram and Whitefield station; Station construction work is under progress. At this stage it is not possible to change metro alignment infringing Bennaganahalli lake bund, due to existence of ORR flyover on one side and Bennaganahalli lake bund on other side. The only option is to occupy the Bennaganahalli lake bund for the construction of Metro work by clearing infringing 91 nos of Trees out of 119 trees.

A copy of Metro Alignment is attached herewith.

This is for your kind information and further necessary action.

(Col Atul Kulshrestha)
Engineer/R1A/BMRCL

CC: ED Civil-2 -for information please.

ANNEXURE - III

Boundary Area Co ordinates			
Sl. No	Latitude	Longitude	Remarks
1	12° 59' 42.2815" N	77° 39' 53.6595" E	Area Starting
2	12° 59' 45.1932" N	77° 39' 55.1498" E	
3	12° 59' 45.8129" N	77° 39' 58.1412" E	
4	12° 59' 48.6537" N	77° 40' 6.5291" E	
5	12° 59' 49.2288" N	77° 40' 7.5302" E	Area Ending
6	12° 59' 48.7044" N	77° 40' 7.9225" E	
7	12° 59' 44.2338" N	77° 39' 56.7315" E	

NUMBER OF TREES STANDING IN THE PROJECT AREA (Includes Trees for Removal, Exempted Trees & Trees to be Retained)

SL. NO	Tree No.	Tree Name	Girth of tree @ 1.37m height (m)	Full Height of Tree by Visual Inspection (m)	Latitude	Longitude	Remarks
01	01	Akash mallige	1.25	7.50	12° 59' 42.4417" N	77° 39' 53.8933" E	
02	02	Akash mallige	0.85	7.60	12° 59' 42.4739" N	77° 39' 53.9269" E	
03	03	Neem Tree	0.82	1.50	12° 59' 42.6348" N	77° 39' 54.0944" E	
04	04 (A)	Peepal Tree	1.05	7.30	12° 59' 42.7327" N	77° 39' 54.0623" E	
	(B)		0.95	7.60			
	(C)		0.45	7.10			
	(D)		0.65	7.20			
	(E)		1.55	6.90			
	(F)		1.05	6.80			
05	05	Hole dasavala	0.49	2.50	12° 59' 42.8939" N	77° 39' 54.1967" E	
06	06	Banyan Tree	2.00	4.00	12° 59' 43.0541" N	77° 39' 54.4305" E	
07	07	Hole dasavala	0.52	3.10	12° 59' 43.6032" N	77° 39' 54.8012" E	
08	08	Hole dasavala	0.67	2.10	12° 59' 43.6343" N	77° 39' 54.9342" E	
09	09	Bagane tree	1.10	5.80	12° 59' 43.9880" N	77° 39' 55.3359" E	
10	10	Bagane tree	0.66	3.90	12° 59' 44.1790" N	77° 39' 55.7359" E	
11	11 (A)	Caesalp nia Pulcherrima	0.30	3.80	12° 59' 44.2440" N	77° 39' 55.7366" E	
	(B)		0.27	3.20			
12	12	Bagane tree	0.65	3.00	12° 59' 44.2433" N	77° 39' 55.8030" E	
13	13	Ho e dasavala	0.82	4.60	12° 59' 44.8930" N	77° 39' 55.8762" E	
14	14	Jamun Tree(Nerale)	0.55	4.10	12° 59' 44.7606" N	77° 39' 56.1070" E	
15	15	Ho e dasavala	0.95	6.10	12° 59' 44.9540" N	77° 39' 56.2749" E	
16	16	Tabebuia avellanedae	0.30	3.50	12° 59' 44.9848" N	77° 39' 56.4410" E	
17	17	Tabebuia avellanedae	0.36	3.50	12° 59' 44.8862" N	77° 39' 56.5394" E	
18	18	Kari jaali Tree	0.92	4.30	12° 59' 44.9177" N	77° 39' 56.6393" E	
19	19	Hole dasavala	0.69	5.00	12° 59' 45.0156" N	77° 39' 56.6072" E	
20	20	Spathodea Tree	1.80	6.00	12° 59' 44.6230" N	77° 39' 56.8351" E	
21	21	Rain Tree	0.48	7.30	12° 59' 44.6220" N	77° 39' 56.9346" E	
22	22	Akash mallige	0.36	4.60	12° 59' 44.7829" N	77° 39' 57.1021" E	
23	23	Akash mallige	1.15	7.10	12° 59' 44.7825" N	77° 39' 57.1353" E	
24	24	Rain Tree	1.60	7.30	12° 59' 45.3234" N	77° 39' 58.3018" E	
25	25	Akash mallige	0.75	6.90	12° 59' 45.2204" N	77° 39' 58.8314" E	
26	26	Akash mallige	0.68	6.40	12° 59' 45.1876" N	77° 39' 58.8642" E	
27	27	Jungle Wood Tree	0.55	6.50	12° 59' 45.1872" N	77° 39' 58.8973" E	
28	28	Akash mallige	0.57	6.20	12° 59' 45.2499" N	77° 39' 59.1302" E	
29	29 (A)	Peltoforum Pterocarpum Tree	0.70	7.10	12° 59' 45.2827" N	77° 39' 59.0974" E	
	(B)		0.65	6.90			
	(C)		0.45	6.80			
30	30	Subabul Tree	0.90	7.10	12° 59' 45.3139" N	77° 39' 59.2303" E	Exempted
31	31 (A)	Akash mallige	0.65	6.70	12° 59' 45.3461" N	77° 39' 59.2639" E	
	(B)		0.32	6.60			
32	32 (A)	Akash mallige	0.40	6.30	12° 59' 45.3454" N	77° 39' 59.3302" E	
	(B)		0.58	7.10			
33	33	Subabul Tree	0.92	6.20	12° 59' 45.3776" N	77° 39' 59.3632" E	Exempted
34	34	Akash mallige	0.38	4.30	12° 59' 45.3772" N	77° 39' 59.3968" E	
35	35	Subabul Tree	0.41	3.90	12° 59' 45.3772" N	77° 39' 59.3968" E	Exempted
36	36	Subabul Tree	0.82	4.90	12° 59' 45.5696" N	77° 39' 59.6642" E	Exempted
37	37	Rain Tree	1.40	5.70	12° 59' 45.6008" N	77° 39' 59.7972" E	
38	38	Subabul Tree	0.50	4.80	12° 59' 45.5672" N	77° 39' 59.8962" E	Exempted
39	39	Subabul Tree	0.55	3.90	12° 59' 45.6953" N	77° 40' 0.0962" E	Exempted
40	40 (A)	Banyan Tree	0.55	4.10	12° 59' 45.6946" N	77° 40' 0.1630" E	
	(B)		0.72	3.90			
41	41	Subabul Tree	0.60	6.90	12° 59' 45.7872" N	77° 40' 0.3958" E	Exempted
42	42 (A)	Subabul Tree	0.90	6.80	12° 59' 45.9791" N	77° 40' 0.9610" E	Exempted
	(B)		0.60	5.20			
	(C)		0.55	3.00			
	(D)		0.60	3.00			
43	43	Subabul Tree	0.38	4.80	12° 59' 46.1068" N	77° 40' 1.1955" E	Exempted
44	44 (A)	Akash mallige	0.60	3.20	12° 59' 48.4928" N	77° 40' 6.3615" E	
	(B)		0.22	2.40			
45	45 (A)	Hole dasavala	0.30	2.80	12° 59' 48.9094" N	77° 40' 6.9630" E	
	(B)		0.35	2.70			
46	46	Dalichandra	0.68	5.20	12° 59' 48.7054" N	77° 40' 7.8231" E	
47	47	honge	0.69	3.50	12° 59' 48.7380" N	77° 40' 7.8234" E	
48	48	Avalanda	0.66	5.90	12° 59' 49.0333" N	77° 40' 7.5613" E	
49	49	Hole dasavala	0.50	5.30	12° 59' 49.1644" N	77° 40' 7.4632" E	
50	50 (A)	Bili Kanagalu	0.34	1	12° 59' 44.9492" N	77° 39' 56.7391" E	
	(B)		0.25	1			
51	51	Tabebuia avellanedae	0.36	2.50	12° 59' 45.0471" N	77° 39' 56.7070" E	
52	52	Bougainvillea Tree	0.46	2.50	12° 59' 45.0461" N	77° 39' 56.8065" E	
53	53	Bili Kanagalu	0.38	1.5	12° 59' 45.0129" N	77° 39' 56.8724" E	
54	54	Akash mallige	0.25	3.00	12° 59' 44.9475" N	77° 39' 56.9049" E	
55	55	Subabulla	0.71	4.00	12° 59' 45.5056" N	77° 39' 59.5640" E	Exempted
56	56	Subabulla	0.53	4.00	12° 59' 45.6014" N	77° 39' 59.2309" E	Exempted
57	57	Subabulla	0.60	4.00	12° 59' 45.6011" N	77° 39' 59.7640" E	Exempted
58	58	Akash mallige	0.22	2.5	12° 59' 44.8174" N	77° 39' 56.9035" E	
59	59 (A)	Kari jaali Tree	0.25	2.00	12° 59' 48.8738" N	77° 40' 7.2611" E	
	(B)		0.20	2.00			
60	60 (A)	Kari jaali Tree	0.24	2.00	12° 59' 48.8396" N	77° 40' 7.4265" E	
	(B)		0.22	2.00			
61	61	Rose Wood Tree	0.70	8.00	12° 59' 46.6257" N	77° 40' 1.3337" E	

DyCE

BMRCL

NUMBER OF TREES STANDING IN THE PROJECT AREA (Includes Trees for Removal, Exempted Trees & Trees to be Retained)

SL. NO	Tree No.	Tree Name	Girth of tree @ 1.37m height (m)	Full Height of Tree by Visual Inspection (m)	Latitude	Longitude	Remarks
62	62	Rose Wood Tree	0.74	7.00	12° 59' 46.6568" N	77° 40' 1.4667" E	
63	63	Rose Wood Tree	0.90	10.00	12° 59' 46.7205" N	77° 40' 1.6001" E	
64	64	Rose Wood Tree	0.50	4.00	12° 59' 46.8787" N	77° 40' 2.0329" E	
65	65	Rose Wood Tree	0.75	8.00	12° 59' 46.9098" N	77° 40' 2.1659" E	
66	66	Rose Wood Tree	0.85	8.00	12° 59' 46.9732" N	77° 40' 2.3324" E	
67	67	Rose Wood Tree	0.70	8.00	12° 59' 47.0043" N	77° 40' 2.4654" E	
68	68	Rose Wood Tree	0.75	8.00	12° 59' 47.0677" N	77° 40' 2.6319" E	
69	69	Rose Wood Tree	0.70	8.00	12° 59' 47.1313" N	77° 40' 2.7652" E	
70	70	Rose Wood Tree	1.10	8.00	12° 59' 47.1625" N	77° 40' 2.8982" E	
71	71	Rose Wood Tree	0.65	11.00	12° 59' 47.2255" N	77° 40' 3.0979" E	
72	72	Rose Wood Tree	0.80	7.00	12° 59' 47.2570" N	77° 40' 3.1977" E	
73	73	Rose Wood Tree	0.78	7.00	12° 59' 47.3843" N	77° 40' 3.4644" E	
74	74	Rose Wood Tree	0.69	8.00	12° 59' 47.4788" N	77° 40' 3.7639" E	
75	75	Rose Wood Tree	0.70	7.00	12° 59' 47.5421" N	77° 40' 3.9304" E	
76	76	Rose Wood Tree	0.58	7.00	12° 59' 47.5733" N	77° 40' 4.0634" E	
77	77	Rose Wood Tree	0.60	6.00	12° 59' 47.6366" N	77° 40' 4.2299" E	
78	78	Rose Wood Tree	0.57	4.00	12° 59' 47.6674" N	77° 40' 4.3960" E	
79	79	Rose Wood Tree	0.47	3.00	12° 59' 47.7636" N	77° 40' 4.5297" E	
80	80	Rose Wood Tree	0.70	7.00	12° 59' 47.8906" N	77° 40' 4.8295" E	
81	81	Rose Wood Tree	0.57	4.00	12° 59' 47.8900" N	77° 40' 4.8959" E	
82	82	Rose Wood Tree	0.40	3.50	12° 59' 47.9218" N	77° 40' 4.9625" E	
83	83	Rose Wood Tree	0.58	6.00	12° 59' 48.0163" N	77° 40' 5.2620" E	
84	84	Rose Wood Tree	0.59	6.00	12° 59' 48.0800" N	77° 40' 5.3954" E	
85	85	Rose Wood Tree	0.75	8.00	12° 59' 48.1436" N	77° 40' 5.5287" E	
86	86	Rose Wood Tree	0.64	8.00	12° 59' 48.1748" N	77° 40' 5.6617" E	
87	87	Rose Wood Tree	0.44	4.00	12° 59' 48.2385" N	77° 40' 5.7950" E	
88	88	Rose Wood Tree	0.47	4.00	12° 59' 48.3021" N	77° 40' 5.9284" E	
89	89 (A)	Rose Wood Tree	0.53	6.00	12° 59' 48.3655" N	77° 40' 6.0949" E	
	(B)	Rose Wood Tree	0.63	6.00			
90	90	Rose Wood Tree	0.65	9.00	12° 59' 48.4291" N	77° 40' 6.2282" E	
91	91	Rose Wood Tree	0.77	8.00	12° 59' 48.5565" N	77° 40' 6.4949" E	
92	R1	Hole dasavala	0.67	4.00	12° 59' 44.8951" N	77° 39' 55.6773" E	To be Retained
93	R2	Rose wood	0.9	5.60	12° 59' 45.0943" N	77° 39' 55.2814" E	To be Retained
94	R3	Rose wood	0.88	7.50	12° 59' 45.0922" N	77° 39' 55.4804" E	To be Retained
95	R4	Rose wood	0.83	8.60	12° 59' 45.0902" N	77° 39' 55.6793" E	To be Retained
96	R5	Rose wood	0.69	6.00	12° 59' 45.0885" N	77° 39' 55.8451" E	To be Retained
97	R6	Rose wood	0.72	5.00	12° 59' 45.1190" N	77° 39' 56.0445" E	To be Retained
98	R7	Rose wood	0.67	4.50	12° 59' 45.1172" N	77° 39' 56.2103" E	To be Retained
99	R8	Rose wood	0.6	7.00	12° 59' 45.2422" N	77° 39' 56.7091" E	To be Retained
100	R9	Rose wood	0.84	8.00	12° 59' 45.3052" N	77° 39' 56.9087" E	To be Retained
101	R10	Rose wood	1.04	9.00	12° 59' 45.3997" N	77° 39' 57.2082" E	To be Retained
102	R11	Rose wood	0.67	8.00	12° 59' 45.5264" N	77° 39' 57.5412" E	To be Retained
103	R12	Rose wood	0.8	7.50	12° 59' 45.5575" N	77° 39' 57.6742" E	To be Retained
104	R13	Rose wood	0.76	6.50	12° 59' 45.6209" N	77° 39' 57.8407" E	To be Retained
105	R14	Rose wood	0.63	5.50	12° 59' 45.7773" N	77° 39' 58.4393" E	To be Retained
106	R15	Rose wood	0.77	5.00	12° 59' 45.9036" N	77° 39' 58.8055" E	To be Retained
107	R16	Spathodia	1.45	10.00	12° 59' 45.9348" N	77° 39' 58.9385" E	To be Retained
108	R17	Rose wood	0.6	6.50	12° 59' 45.9981" N	77° 39' 59.1050" E	To be Retained
109	R18	Rose wood	0.61	5.00	12° 59' 46.1549" N	77° 39' 59.6705" E	To be Retained
110	R19	Rose wood	0.71	5.50	12° 59' 46.1543" N	77° 39' 59.7368" E	To be Retained
111	R20	Rose wood	0.61	5.00	12° 59' 46.1858" N	77° 39' 59.8366" E	To be Retained
112	R21	Rose wood	0.68	6.00	12° 59' 46.2491" N	77° 40' 0.0031" E	To be Retained
113	R22	Rose wood	0.67	8.00	12° 59' 46.2796" N	77° 40' 0.2024" E	To be Retained
114	R23	Rose wood	0.77	7.00	12° 59' 46.3104" N	77° 40' 0.3686" E	To be Retained
115	R24	Rose wood	0.62	9.00	12° 59' 46.3741" N	77° 40' 0.5019" E	To be Retained
116	R25	Rose wood	0.36	6.00	12° 59' 46.4370" N	77° 40' 0.7016" E	To be Retained
117	R26	Rose wood	0.88	6.50	12° 59' 46.4679" N	77° 40' 0.8677" E	To be Retained
118	R27	Rose wood	0.88	7.00	12° 59' 46.5312" N	77° 40' 1.0342" E	To be Retained
119	R28	Rose wood	0.78	5.50	12° 59' 46.5623" N	77° 40' 1.1672" E	To be Retained
Total 119 Trees							

Total number of trees standing in the Project Area = 119 Trees

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NUMBER OF TREES PROPOSED FOR REMOVAL

SL. NO	Tree No.	Tree Name	Girth of tree @ 1.37m height (m)	Full Height of Tree by Visual Inspection (m)	Latitude	Longitude	Remarks
01	01	Akash mallige	1.25	7.50	12° 59' 42.4417" N	77° 39' 53.8933" E	
02	02	Akash mallige	0.85	7.60	12° 59' 42.4739" N	77° 39' 53.9269" E	
03	03	Neem Tree	0.82	1.50	12° 59' 42.6348" N	77° 39' 54.0944" E	
04	04 (A)	Peepal Tree	1.05	7.30	12° 59' 42.7327" N	77° 39' 54.0623" E	
	(B)		0.95	7.60			
	(C)		0.45	7.10			
	(D)		0.65	7.20			
	(E)		1.55	6.90			
	(F)		1.05	6.80			
05	05	Hole dasavala	0.49	2.50	12° 59' 42.6939" N	77° 39' 54.1967" E	
06	06	Banyan Tree	2.00	4.00	12° 59' 43.0541" N	77° 39' 54.4305" E	
07	07	Hole dasavala	0.52	3.10	12° 59' 43.6032" N	77° 39' 54.8012" E	
08	08	Hole dasavala	0.67	2.10	12° 59' 43.6343" N	77° 39' 54.9342" E	
09	09	Bagane tree	1.10	5.80	12° 59' 43.9880" N	77° 39' 55.3359" E	
10	10	Bagane tree	0.66	3.90	12° 59' 44.1790" N	77° 39' 55.7359" E	
11	11 (A)	Caesalpinia Pulcherrima	0.30	3.80	12° 59' 44.2440" N	77° 39' 55.7366" E	
	(B)		0.27	3.20			
12	12	Bagane tree	0.65	3.00	12° 59' 44.2433" N	77° 39' 55.8030" E	
13	13	Hole dasavala	0.82	4.60	12° 59' 44.8930" N	77° 39' 55.8762" E	
14	14	Jamun Tree(Nerale)	0.55	4.10	12° 59' 44.7606" N	77° 39' 56.1070" E	
15	15	Hole dasavala	0.95	6.10	12° 59' 44.9540" N	77° 39' 56.2749" E	
16	16	Tabebuia avellanedae	0.30	3.50	12° 59' 44.9848" N	77° 39' 56.4410" E	
17	17	Tabebuia avellanedae	0.36	3.50	12° 59' 44.8862" N	77° 39' 56.5394" E	
18	18	Kari jaali Tree	0.92	4.30	12° 59' 44.9177" N	77° 39' 56.6393" E	
19	19	Hole dasavala	0.69	5.00	12° 59' 45.0156" N	77° 39' 56.6072" E	
20	20	Spathodea Tree	1.80	6.00	12° 59' 44.6230" N	77° 39' 56.8351" E	
21	21	Rain Tree	0.48	7.30	12° 59' 44.6220" N	77° 39' 56.9346" E	
22	22	Akash mallige	0.36	4.60	12° 59' 44.7829" N	77° 39' 57.1021" E	
23	23	Akash mallige	1.15	7.10	12° 59' 44.7825" N	77° 39' 57.1353" E	
24	24	Rain Tree	1.60	7.30	12° 59' 45.3234" N	77° 39' 58.3018" E	
25	25	Akash mallige	0.75	6.90	12° 59' 45.2204" N	77° 39' 58.8314" E	
26	26	Akash mallige	0.68	6.40	12° 59' 45.1876" N	77° 39' 58.8642" E	
27	27	Jungle Wood Tree	0.55	6.50	12° 59' 45.1872" N	77° 39' 58.8973" E	
28	28	Akash mallige	0.57	6.20	12° 59' 45.2499" N	77° 39' 59.1302" E	
29	29 (A)	Peltoforum Pterocarpum Tree	0.70	7.10	12° 59' 45.2827" N	77° 39' 59.0974" E	
	(B)		0.65	6.90			
	(C)		0.45	6.80			
30	30	Subabul Tree	0.90	7.10	12° 59' 45.1139" N	77° 39' 59.2403" E	Exempted
31	31 (A)	Akash mallige	0.65	6.70	12° 59' 45.3461" N	77° 39' 59.2639" E	
	(B)		0.32	6.60			
32	32 (A)	Akash mallige	0.40	6.30	12° 59' 45.3454" N	77° 39' 59.3302" E	
	(B)		0.58	7.10			
33	33	Subabul Tree	0.92	6.70	12° 59' 45.4726" N	77° 39' 59.3617" E	Exempted
34	34	Akash mallige	0.38	4.90	12° 59' 45.4723" N	77° 39' 59.3968" E	Exempted
35	35	Subabul Tree	0.41	4.90	12° 59' 45.4727" N	77° 39' 59.3968" E	Exempted
36	36	Subabul Tree	0.82	4.90	12° 59' 45.5096" N	77° 39' 59.6613" E	Exempted
37	37	Rain Tree	1.40	5.70	12° 59' 45.6008" N	77° 39' 59.7972" E	
38	38	Subabul Tree	0.50	4.80	12° 59' 45.5623" N	77° 39' 59.8964" E	Exempted
39	39	Subabul Tree	0.55	4.90	12° 59' 45.6983" N	77° 40' 0.0963" E	Exempted
40	40 (A)	Banyan Tree	0.55	4.10	12° 59' 45.6946" N	77° 40' 0.1630" E	
	(B)		0.72	3.90			
41	41	Subabul Tree	0.60	6.50	12° 59' 45.7573" N	77° 40' 0.3958" E	Exempted
42	42 (A)	Subabul Tree	0.90	6.80	12° 59' 45.8791" N	77° 40' 0.9640" E	Exempted
	(B)		0.60	5.20			
	(C)		0.55	5.00			
	(D)		0.60	5.00			
43	43	Subabul Tree	0.38	4.80	12° 59' 46.1068" N	77° 40' 1.1955" E	Exempted
44	44 (A)	Akash mallige	0.60	3.20	12° 59' 48.4928" N	77° 40' 6.3615" E	
	(B)		0.22	2.40			
45	45 (A)	Hole dasavala	0.30	2.80	12° 59' 48.9094" N	77° 40' 6.9630" E	
	(B)		0.35	2.70			
46	46	Dalichandra	0.68	5.20	12° 59' 48.7054" N	77° 40' 7.8231" E	
47	47	honge	0.69	3.50	12° 59' 48.7380" N	77° 40' 7.8234" E	
48	48	Avalanda	0.66	5.90	12° 59' 49.0333" N	77° 40' 7.5613" E	
49	49	Hole dasavala	0.50	5.30	12° 59' 49.1644" N	77° 40' 7.4632" E	
50	50 (A)	Bili Kanagalu	0.34	1	12° 59' 44.9492" N	77° 39' 56.7391" E	
	(B)		0.25	1			
51	51	Tabebuia avellanedae	0.36	2.50	12° 59' 45.0471" N	77° 39' 56.7070" E	
52	52	Bougainvillea Tree	0.46	2.50	12° 59' 45.0461" N	77° 39' 56.8065" E	
53	53	Bili Kanagalu	0.38	1.5	12° 59' 45.0129" N	77° 39' 56.8724" E	
54	54	Akash mallige	0.25	3.00	12° 59' 44.9475" N	77° 39' 56.9049" E	
55	55	Subabulla	0.71	4.00	12° 59' 45.3656" N	77° 39' 59.5630" E	Exempted
56	56	Subabulla	0.53	4.00	12° 59' 45.6614" N	77° 39' 59.7309" E	Exempted
57	57	Subabulla	0.60	4.00	12° 59' 45.6611" N	77° 39' 59.7610" E	Exempted
58	58	Akash mallige	0.22	2.5	12° 59' 44.8174" N	77° 39' 56.9035" E	
59	59 (A)	Kari jaali Tree	0.25	2.00	12° 59' 48.8738" N	77° 40' 7.2611" E	
	(B)		0.20	2.00			
60	60 (A)	Kari jaali Tree	0.24	2.00	12° 59' 48.8396" N	77° 40' 7.4265" E	
	(B)		0.22	2.00			
61	61	Rose Wood Tree	0.70	8.00	12° 59' 46.6257" N	77° 40' 1.3337" E	
62	62	Rose Wood Tree	0.74	7.00	12° 59' 46.6568" N	77° 40' 1.4667" E	
63	63	Rose Wood Tree	0.90	10.00	12° 59' 46.7205" N	77° 40' 1.6001" E	
64	64	Rose Wood Tree	0.50	4.00	12° 59' 46.8787" N	77° 40' 2.0329" E	
65	65	Rose Wood Tree	0.75	8.00	12° 59' 46.9098" N	77° 40' 2.1659" E	
66	66	Rose Wood Tree	0.85	8.00	12° 59' 46.9732" N	77° 40' 2.3324" E	
67	67	Rose Wood Tree	0.70	8.00	12° 59' 47.0043" N	77° 40' 2.4654" E	
68	68	Rose Wood Tree	0.75	8.00	12° 59' 47.0677" N	77° 40' 2.6319" E	
69	69	Rose Wood Tree	0.70	8.00	12° 59' 47.1313" N	77° 40' 2.7652" E	
70	70	Rose Wood Tree	1.10	8.00	12° 59' 47.1625" N	77° 40' 2.8982" E	
71	71	Rose Wood Tree	0.65	11.00	12° 59' 47.2255" N	77° 40' 3.0979" E	
72	72	Rose Wood Tree	0.80	7.00	12° 59' 47.2570" N	77° 40' 3.1977" E	
73	73	Rose Wood Tree	0.78	7.00	12° 59' 47.3843" N	77° 40' 3.4644" E	
74	74	Rose Wood Tree	0.69	8.00	12° 59' 47.4788" N	77° 40' 3.7639" E	
75	75	Rose Wood Tree	0.70	7.00	12° 59' 47.5421" N	77° 40' 3.9304" E	
76	76	Rose Wood Tree	0.58	7.00	12° 59' 47.5733" N	77° 40' 4.0634" E	
77	77	Rose Wood Tree	0.60	6.00	12° 59' 47.6366" N	77° 40' 4.2299" E	

DyCE

BMRCL

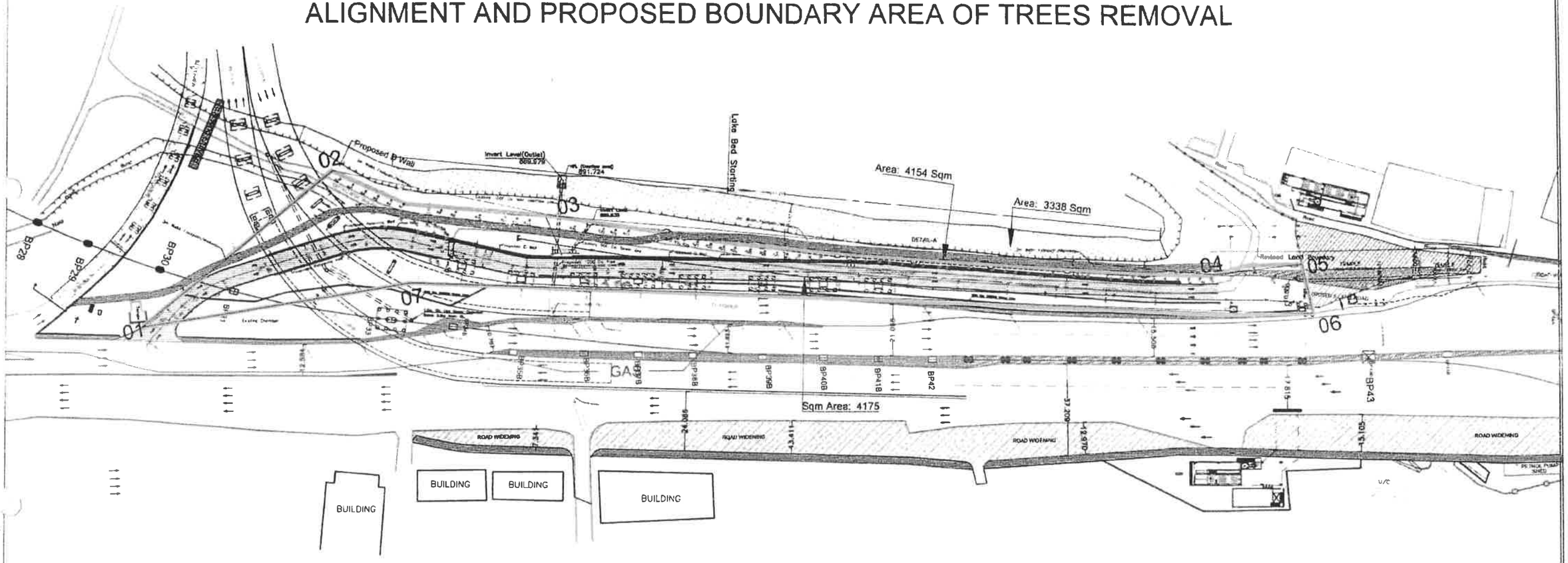
NUMBER OF TREES PROPOSED FOR REMOVAL

SL. NO	Tree No.	Tree Name	Girth of tree @ 1.37m height (m)	Full Height of Tree by Visual Inspection (m)	Latitude	Longitude	Remarks
78	78	Rose Wood Tree	0.57	4.00	12° 59' 47.6674" N	77° 40' 4.3960" E	
79	79	Rose Wood Tree	0.47	3.00	12° 59' 47.7636" N	77° 40' 4.5297" E	
80	80	Rose Wood Tree	0.70	7.00	12° 59' 47.8906" N	77° 40' 4.8295" E	
81	81	Rose Wood Tree	0.57	4.00	12° 59' 47.8900" N	77° 40' 4.8959" E	
82	82	Rose Wood Tree	0.40	3.50	12° 59' 47.9218" N	77° 40' 4.9625" E	
83	83	Rose Wood Tree	0.58	6.00	12° 59' 48.0163" N	77° 40' 5.2620" E	
84	84	Rose Wood Tree	0.59	6.00	12° 59' 48.0800" N	77° 40' 5.3954" E	
85	85	Rose Wood Tree	0.75	8.00	12° 59' 48.1436" N	77° 40' 5.5287" E	
86	86	Rose Wood Tree	0.64	8.00	12° 59' 48.1748" N	77° 40' 5.6617" E	
87	87	Rose Wood Tree	0.44	4.00	12° 59' 48.2385" N	77° 40' 5.7950" E	
88	88	Rose Wood Tree	0.47	4.00	12° 59' 48.3021" N	77° 40' 5.9284" E	
89	89 (A)	Rose Wood Tree	0.53	6.00	12° 59' 48.3655" N	77° 40' 6.0949" E	
	(B)	Rose Wood Tree	0.63	6.00			
90	90	Rose Wood Tree	0.65	9.00	12° 59' 48.4291" N	77° 40' 6.2282" E	
91	91	Rose Wood Tree	0.77	8.00	12° 59' 48.5565" N	77° 40' 6.4949" E	
Total 91 Trees							

DyCE

ANNEXURE - IV

ALIGNMENT AND PROPOSED BOUNDARY AREA OF TREES REMOVAL



ANNEXURE - III

Boundary Area Co ordinates

Sl. No	Easting (m)	Northing (m)	Latitude	Longitude	Remarks
1	789086	1438104	12° 59' 42.2815" N	77° 39' 53.6595" E	Area Starting
2	789130	1438194	12° 59' 45.1932" N	77° 39' 55.1498" E	
3	789220	1438214	12° 59' 45.8129" N	77° 39' 58.1412" E	
4	789472	1438304	12° 59' 48.6537" N	77° 40' 6.5291" E	
5	789502	1438322	12° 59' 49.2288" N	77° 40' 7.5302" E	Area Ending
6	789514	1438306	12° 59' 48.7044" N	77° 40' 7.9225" E	
7	789178	1438165	12° 59' 44.2338" N	77° 39' 56.7315" E	

LEGEND:-

RETAINED TREE

REMOVAL TREE

Boundary Area

BANGALORE METRO RAIL CORPORATION LTD.

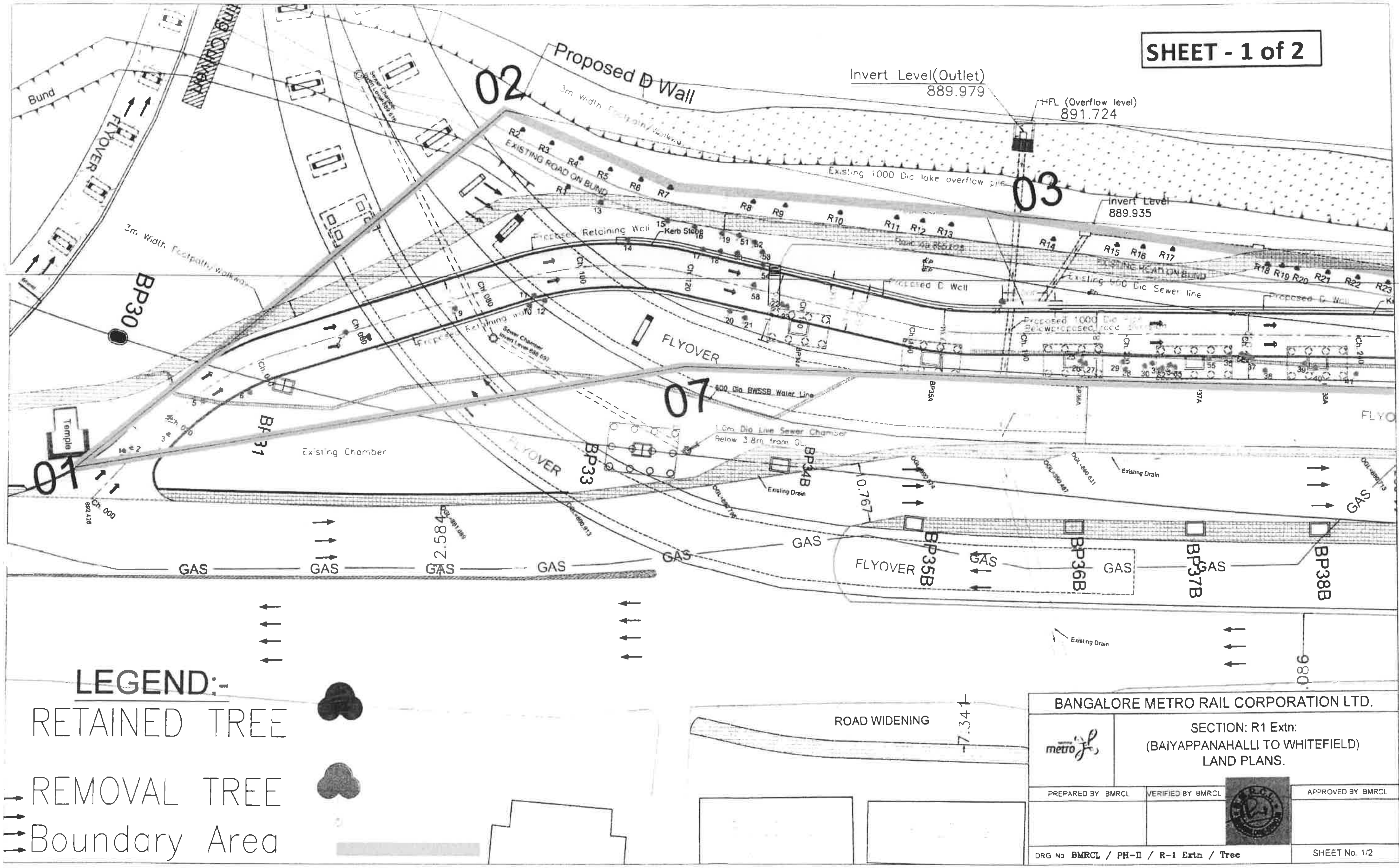
SECTION: R1 Extn:
(BAIYAPPANAHALLI TO WHITEFIELD)
LAND PLANS.

PREPARED BY BMRCL	VERIFIED BY BMRCL	APPROVED BY BMRCL

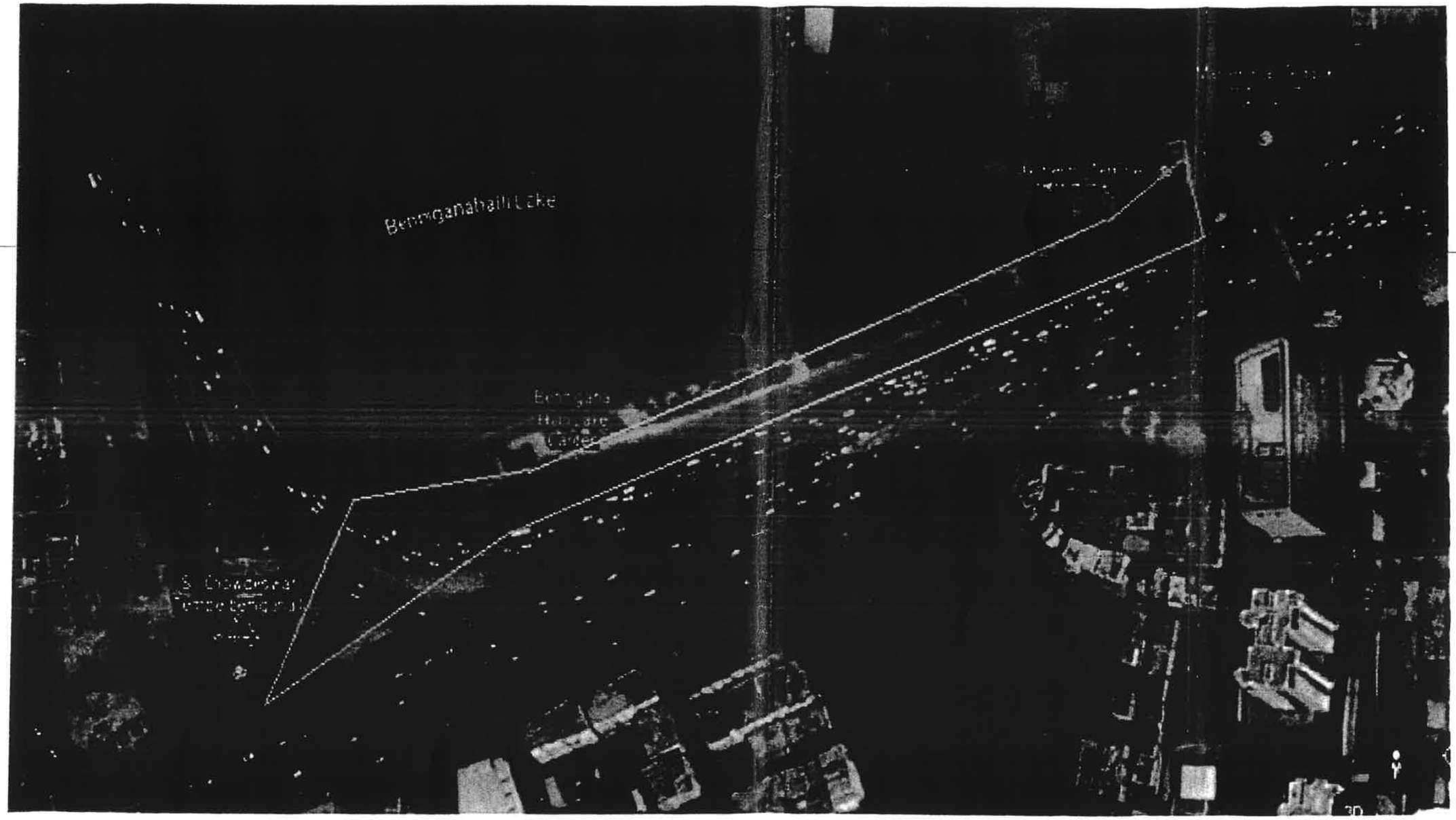
DRG No BMRCL / PH-II / R-1 Extn / Tree

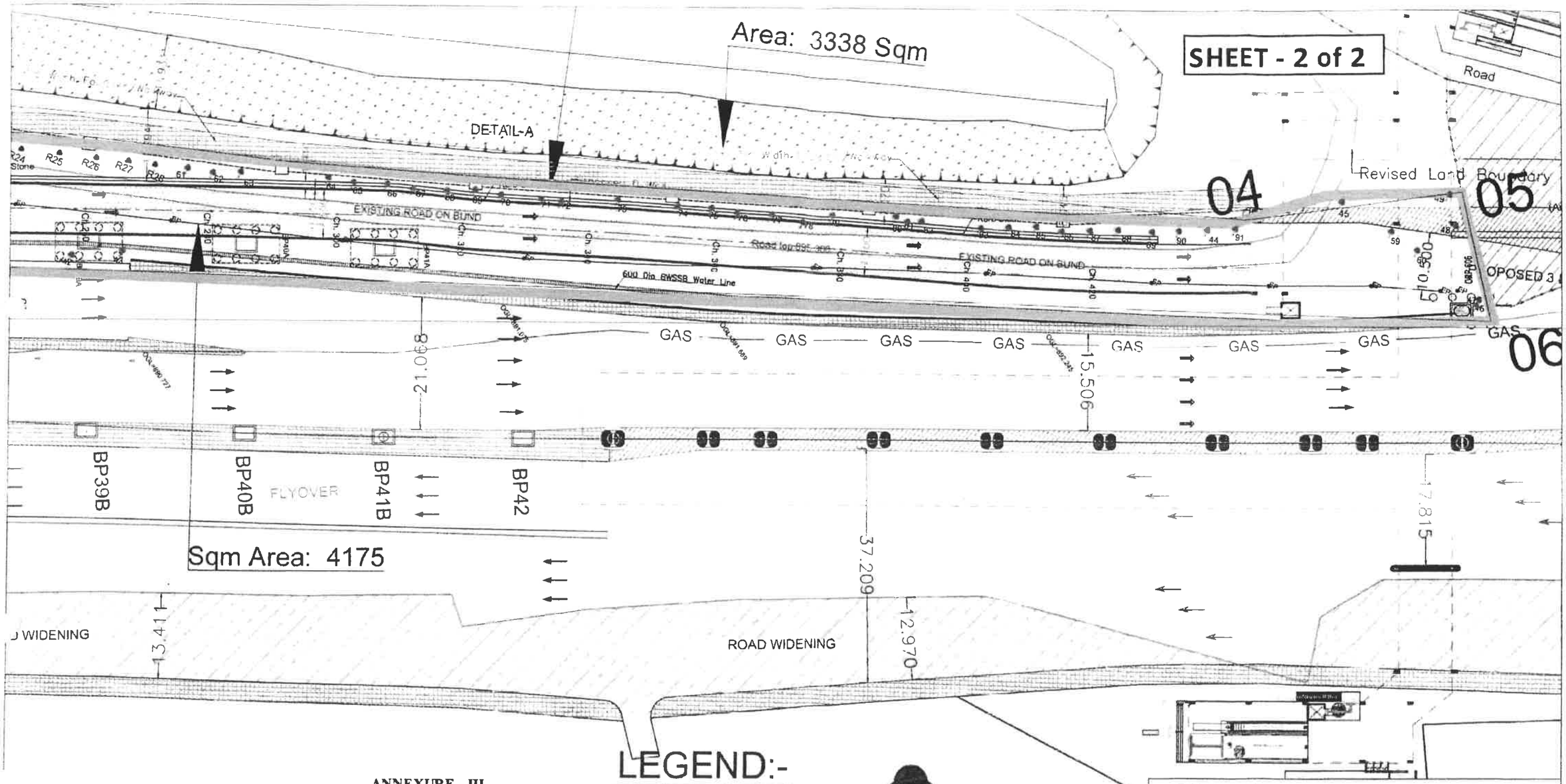
SHEET No. 1/1

13


SHEET - 1 of 2
Proposed D Wall
Invert Level(Outlet)
889.979
HFL (Overflow level)
891.724
Invert Level
889.935
Existing 1000 Dia lake overflow pipe
3m Width Footpath/walkway
EXISTING ROAD ON BUND
Proposed Retaining Wall
Kerb Stone
Existing 600 Dia Sewer line
Proposed D Wall
Proposed 1000 Dia Pipe
600 Dia BWSSB Water Line
1.0m Dia Live Sewer Chamber
Below 3.8m from GL
Existing Chamber
Existing Drain
Sewer Chamber
Temple
Bund
FLYOVER
GAS
BP30
BP31
BP33
BP34B
BP35A
BP35B
BP36B
BP37A
BP37B
BP38A
BP38B
01
02
03
07
0.767
2.584
7.341
ROAD WIDENING
LEGEND:-
RETAINED TREE
REMOVAL TREE
Boundary Area
BANGALORE METRO RAIL CORPORATION LTD.
SECTION: R1 Extn:
(BAIYAPPANAHALLI TO WHITEFIELD)
LAND PLANS.
PREPARED BY BMRCL
VERIFIED BY BMRCL
APPROVED BY BMRCL
DRG No BMRCL / PH-II / R-1 Extn / Tree
SHEET No. 1/2

ANNEXURE - V





ANNEXURE - III

Boundary Area Co ordinates

Sl. No	Easting (m)	Northing (m)	Latitude	Longitude	Remarks
1	789086	1438104	12° 59' 42.2815" N	77° 39' 53.6595" E	Area Starting
2	789130	1438194	12° 59' 45.1932" N	77° 39' 55.1498" E	
3	789220	1438214	12° 59' 45.8129" N	77° 39' 58.1412" E	
4	789477	1438304	12° 59' 48.6537" N	77° 40' 6.5291" E	
5	789502	1438322	12° 59' 49.2288" N	77° 40' 7.5302" E	Area Ending
6	789514	1438306	12° 59' 48.7044" N	77° 40' 7.9225" E	
7	789178	1438165	12° 59' 44.2338" N	77° 39' 56.7315" E	

LEGEND:-

RETAINED TREE

REMOVAL TREE

Boundary Area

BANGALORE METRO RAIL CORPORATION LTD.

SECTION: R1 Extn:
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LAND PLANS.

PREPARED BY BMRCL	VERIFIED BY BMRCL	APPROVED BY BMRCL

DRG No BMRCL / PH-II / R-1 Extn / Tree

SHEET No. 2/2