



BRUHAT BENGALURU MAHANAGARA PALIKE

Office of the
Deputy Conservator of Forests,
Bruhat Bengaluru Mahanagara Palike
N.R Square, Bangalore

No: DCF/PR.-364./2024-25

Date: 20.07.2024

To,

The Chief Engineer,
Phase 2A P1
Bangalore Metro Rail Corporation Ltd,
Shantinagar,
Bengaluru.

OFFICIAL MEMORANDUM

Sub: Permission regarding Translocation and Removal of trees which are standing on the LHS/RHS of ORR at the Project Area for BMRCL Project for the Entry/Exit structures of HSR Layout Metro Station and some trees are standing along the Service Road from ORP No. 140 to ORP 175 (Agara to Ibbaluru RH Side) for Viaduct Girder Erection, Bengaluru – reg

Ref: a. BMRCL Application No. BMRCL/ORR/PH-2A/P1/2024/239/18866 dtd 27.02.2024
b. BMRCL Application No. BMRCL/ORR/PH-2A/P1/2024/253/1541 dtd 29.04.2024
c. Member Secretary, TEC and ACF letter No. ACF-North/PR 35 /2024-25 dtd 19.07.2024 along with TEC Report and Proceedings of Tree Expert Committee

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Preamble:

The Chief Engineer, Phase 2A/Package - 1, Bengaluru vide their letters cited under reference (a & b) above, has sought permission for clearance of 62 number of trees which are standing on the LHS/RHS of ORR at the Project Area for BMRCL Project for the Entry/Exit structures of HSR Layout Metro Station and some trees are standing along the Service Road from ORP No. 140 to ORP 175 (Agara to Ibbaluru RH Side) for Viaduct Girder Erection, Bengaluru.

Further BMRCL have stated vide their letter cited under reference (b) that the requirement for removal of trees is at 02 locations viz., 28 trees are required for construction of Entry/Exit Structures of HSR Metro Station area at changed location and 34 trees for Erection of U-Girder with Crane through Tandem Lifting because of the integration of Phase 2A line with Phase 3 line between Agara and Ibbaluru.

The details have been furnished by BMRCL as follows;

i. HSR Station Entry Structure:

Initially, the Metro Station at HSR Layout was proposed with two sides Entry/Exit and for that purpose a land area of 1560.39 sqm belonging to Survey No. 47, CA Site No. 10 at LHS was acquired by BMRCL from BDA for Metro construction. Accordingly, the RHS Entry Structure of the HSR Layout Metro Station was planned after the Nalla Side Service Road.

In the meanwhile, Teachers' Colony Residents Association requested BMRCL for shifting of HSR Layout Station Entry/Exit Structure to the adjacent land duly stating that the land at Survey No. 47, CA Site No. 10, which had been proposed for HSR Layout Metro Station, was later on handed over by BDA to Kendra Upadhyara Sangha (KUS) for the purpose of construction of Community Hall. After discussions, feasibility of adjacent BBMP park area bearing CA Site No. 09 falling within the same Survey No. 47, has been examined and considering the advanced stage of construction of Station Main Box of HSR Station, it has been found that the new location for Entry/Exit is feasible. Due to this shifting of LHS entry, RHS Entry Structure also needed to be shifted longitudinally so as to integrate both side entry and make it assembled at Concourse Level.

After detailed analysis, it is found that 28 Nos of trees will be affecting the entry/exit structure on both sides. In this context it is to mention that with respect to the originally proposed location of the HSR Layout Metro Station, felling permission was accorded for removal of 04 trees (Tree Nos. 214, 215, 216 & 217) vide OM No. A9/Tree Cutting/BMRCL/CR-543/2020-21/2454 dtd. 09.12.2021 of the Tree Office/DCF, Bangalore Urban Division. In pursuance to that, the above mentioned 04 trees (Tree Nos. 214, 215, 216 & 217) were felled because the issue of the new location of HSR Layout Metro Station was not there at that time. Similarly for the RHS of the earlier location of the HSR Metro Station vide OM No. DCF/PR 1128/2022-23 dtd 19.09.2022 of the Tree Officer, BBMP permission was accorded that out of the 06 trees, 05 trees (Tree Nos. 81 to 85) can be felled while 01 tree (Tree No. 86) was to be retained-on-site. Subsequently no trees were felled and all the 06 trees (Tree Nos. 81 to 86) are retained-on-site.

ii. Viaduct-Erection of U Girder by Tandem Lifting:

Initially, the Superstructure Element U-Girder was planned by executing through overhead Launching Girder Erection Method, in which the launcher will move above the Piers and U-Girder will be fed from feeding location. For movement of Launcher, it needs continuous span erection for placing the Girders. As the integration of Phase-2A line with the Phase 3

Line has been envisaged, few additional Piers are yet to be taken up. In order to implement this modified work and due to various reasons like modification of metro piers, traffic diversion, utilities shifting which takes considerable time, there seemed to be delay in the completion of such works thereby affecting the Phase 2A project. Hence in order to complete the project in time, alternative method of erection of Girder has been explored i.e., Tandem Lifting of the U-Girder by using two numbers of Cranes of capacity 400 MT to 500 MT. As the capacity of these cranes is high, they require sufficient turning radius for lifting of U-Girder and placing the same at appropriate position. Therefore trees at Median between Main Carriage Way and Service Road falling within the turning radius of the Cranes will get affected. After detailed analysis, it is found that 34 Nos of trees are falling within the operation zone pertaining to the erection of U-Girder using Tandem Crane Method.

As such Public Notice dated 03.06.2024 was issued by the Tree Officer & DCF, Bruhat Bengaluru Mahanagara Palike as per Section 8 (3) of the Karnataka Preservation of Trees Act 1976 (as amended in 2015) with the intention to invite objections/remarks from public.

In this context, the Tree Officer has confirmed that no objection/post has been received from the public in response to the said public notice. Further, the Tree Officer, BBMP also emphasized that the first priority of the Forest authorities will be to save and retain more number of trees at the spot/site and in case that is not possible, the next option would be translocation of such trees which fulfill the desired criteria like having suitable girth, satisfactory status/health condition of the tree, feasibility of root-ball excavation of appropriate size and felling of the trees has to be last resort. The Compensatory Afforestation would involve planting of saplings duly following the norms of 10 saplings to be planted in lieu of each tree translocated/felled (i.e., in the ratio 1:10).

In this context, the Field Forest Officers, BBMP conducted the spot inspections on 20.03.2024, the ACF/DCF visited the areas on 07.06.2024, and then TEC visited the areas and conducted field Inspections on 21.06.2024, duly examining all the trees besides having discussions with the Project Engineers.

The Field Inspection Report was tabled during the TEC meeting held on 02.07.2024 and detailed discussions were held.

- i. The primary objective of the TEC was to retain-on-site as many trees as possible.
- ii. In case the trees are falling within the project activity area and their removal becomes inevitable, the next option for TEC was for translocation of trees depending upon its general condition and its location so that the extraction of root ball of adequate size becomes feasible.

- iii. The felling of trees has to be the last resort and that has to be done very judiciously in a prudent manner.

Based on the records/documents produced by BMRCL, followed by thorough scrutiny of the same and detailed discussions of the field inspection reports which were prepared after examination of each and every tree, the following order is issued.

ORDER

Under the circumstances explained above and in exercise of the powers vested with the undersigned as per Section 8 (3) of Karnataka Preservation of Trees Act, 1976 and based on the guidelines and decisions taken as per the Field Inspection Report and Proceedings of the Meeting dated 02.07.2024 of the TEC for retention-on-site, translocation, and removal of 55 trees standing on the LHS/RHS of ORR at the Project Area for BMRCL Project for the Entry/Exit structures of HSR Layout Metro Station and 114 trees which are standing along the Service Road from ORP No. 140 to ORP 175 (Agara to Ibbaluru RH Side) for Viaduct Girder Erection, Bengaluru, the below mentioned schedule is approved subject to the conditions mentioned thereon. This Order will come into effect after fifteen (15) days from the date of uploading of the order on the Official website of BBMP and for that purpose separate directions will be issued from this Office.

SCHEDULE

1. The One Hundred and Eight (108) trees [80 trees (All Unnumbered) along the Service Road from ORP No. 140 to ORP 175 and 28 trees (01 Enumerated + 27 Unnumbered) at LHS/RHS of the ORR for the Entry/Exit structures of HSR Layout Metro Station] which are listed with justification, enclosed to this Official Memorandum as Annexure A have to be retained-on-site. Hence permission is declined to remove the above said 108 trees and they should continue to stand at their present locations.
2. Based on the considerations as stated above and also detailed in the Report, the Twenty (20) trees [13 trees (All Enumerated) along the Service Road from ORP No. 140 to ORP 175 and 07 trees (All Enumerated) at LHS/RHS of ORR for the Entry/Exit structures of HSR Layout Metro Station] which are listed with justification, enclosed to this Official Memorandum as Annexure B have to be translocated. Hence permission is accorded to translocate the said 20 trees to suitable places as mentioned below in the 'Conditions'.

3. The remaining Forty One (41) trees [21 trees (All Enumerated) along the Service Road from ORP No. 140 to ORP 175 and 20 trees (All Enumerated) at LHS/RHS of ORR for the Entry/Exit structures of HSR Layout Metro Station] only which are listed with justification, enclosed to this Official Memorandum as Annexure C can be removed. Hence permission is accorded for removal of these said 41 trees only as per the felling of trees norms adopted by Karnataka Forest Department (KFD).

Conditions

1. No damage should be caused to the trees which are retained on the spot, while carrying out the civil works or any project related works.
2. The trees which are retained-on-site have to be properly protected and maintained. Accordingly BMRCL should give an assurance in this respect.
3. The translocation of trees should be done at the following proposed locations in collaboration with the DCF, BBMP.
 1. *Location Site No. 01 – Vacant space on the right hand side of the road along the Compensatory Afforestation plantation, towards north of the CMP Centre, Training area, HSR 1st Sector, 27th Cross, Ibbalur, Bengaluru.*
 2. *Location Site No. 02 – Vacant space on the right hand side of the road along the Compensatory Afforestation plantation, towards east of the CMP Centre, Training area, HSR 1st Sector, 27th Cross, Ibbalur, Bengaluru.*
4. The Persons/Agencies who are entrusted with translocation works should have sufficient knowledge and experience in such works.
5. The work of translocation of trees has to be executed under close supervision of Officials/Officers of Forest Wing of BBMP and according to the formulated guidelines of UAS, Bengaluru.
6. The trees so translocated have to be properly maintained and taken care of, for a minimum period of three years.
7. The entire process of translocation of trees has to be properly documented and records compiled in a systematic manner.

8. As per the Section 10 of KPT Act 1976, which provides that where any tree has fallen or destroyed due to force of nature or other natural causes, requires to plant a tree or trees in place of the tree so fallen or destroyed.
9. In lieu of the trees translocated and felled, 10 healthy and heightened saplings have to be planted in lieu of each tree either translocated or felled. The saplings have to be planted as per forestry practices and maintained for a minimum period of five years. Photographs and proper documentation has to be submitted for saplings/seedlings planted.
10. Regular monitoring must be done to ensure the conducive growth of translocated trees and planted saplings/seedlings.



Tree Officer and

Deputy Conservator of Forests
Bruhat Bengaluru Mahanagara Palike,
Bengaluru

Copy to:

1. The Chairman, Tree Authority and Chief Conservator of Forests, Bangalore Circle, Bangalore for kind information
2. The Member Secretary – Tree Expect Committee, and the Assistant Conservator of Forests, BBMP for information and further action.
3. The Assistant Conservator of Forests, BBMP for information and further action
4. The Range Forest Officer/Deputy Range Forest Officers for information and further action
5. Office Copy

- * Any objections against the above Order of the Tree Officer, BBMP under Section 14 of the KPT Act 1976, an appeal shall lie to the Tree Authority, Bengaluru.

Annexure –A**Retention of Trees****Application No.: a. BMRCL/ORR/PH-2A/P1/2024/239/18866 dtd 27.02.2024****b. BMRCL/ORR/PH-2A/P1/2024/253/1541 dtd 29.04.2024**

Project Area: Trees standing on LHS/RHS of ORR within the project area for the Entry/Exit structures of HSR Layout Metro Station and some trees are standing along the Service Road from Outer Ring Road Pier No. (ORP) 140 to Outer Ring Road Pier No. (ORP) 175 (Agara to Ibbaluru RH Side) for Viaduct Girder Erection for BMRCL Metro Works, Phase 2A, Package 01.

Sl No.	Tree No	Species Name	Girth (Mtr)	Height (Mtr)	Justification
Along the Service Road from Outer Ring Road Pier No. (ORP) 140 to Outer Ring Road Pier No. (ORP) 175 (Agara to Ibbaluru RH Side) for Viaduct Girder Erection for BMRCL Metro Works, Phase 2A, Package 01					
1.	3/1	Rain Tree	1.40	3.00	The tree is standing (near pillar no. 147) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
2.	3/2	Subabul	0.27	3.50	The tree is standing (near pillar no. 147) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
3.	5/1	Mahogany	0.35	2.50	The tree is standing (b/n pillar no. 148 & 149) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
4.	5/2	Rain Tree	1.74	3.50	The tree is standing (b/n pillar no. 148 & 149) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
5.	5/3	Mahogany	0.19	2.50	The tree is standing (b/n pillar no. 148 & 149) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
6.	7/1	Mahogany	0.30	2.00	The tree is standing (near pillar no. 149) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
7.	7/2	Rain tree	0.47 0.38	2.00	The tree is standing (near pillar no. 149) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.

8.	8/1	Mahogany	0.20	2.00	The tree is standing (near pillar no. 150) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
9.	8/2	Mahogany	0.25	2.00	The tree is standing (near pillar no. 150) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
10.	8/3	Rain tree	1.41	2.00	The tree is standing (near pillar no. 150) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
11.	9/1	Rain Tree	1.20	3.50	The tree is standing (b/n pillar no. 151 & 152) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
12.	10/1	Mahogany	0.25	2.50	The tree is standing (b/n pillar no. 152 & 153) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
13.	10/2	Mahogany	0.20	2.50	The tree is standing (b/n pillar no. 152 & 153) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
14.	10/3	<i>Tabebuia</i> sp.	0.32	2.00	The tree is standing (b/n pillar no. 152 & 153) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
15.	10/4	<i>Tabebuia</i> sp.	0.23	2.00	The tree is standing (b/n pillar no. 152 & 153) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
16.	11/1	Subabul	0.20	2.50	The tree is standing (close to pillar no. 153 & 154) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
17.	11/2	Jungle tree	0.23	2.50	The tree is standing (close to pillar no. 153 & 154) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
18.	11/3	Subabul	0.22	2.50	The tree is standing (close to pillar no. 153 & 154) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.

19.	11/4	Subabul	0.27	2.50	The tree is standing (close to pillar no. 153 & 154) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
20.	11/5	Subabul	0.28	2.50	The tree is standing (close to pillar no. 153 & 154) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
21.	11/6	Mahogany	0.35	2.00	The tree is standing (close to pillar no. 153 & 154) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
22.	13/1	Mahogany	0.43	3.00	The tree is standing (close to pillar no. 155) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
23.	13/2	Rain tree	2.84	3.50	The tree is standing (close to pillar no. 155) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
24.	13/3	Honge	0.18	2.50	The tree is standing (close to pillar no. 155) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
25.	13/4	Mahogany	0.38	3.00	The tree is standing (close to pillar no. 155) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
26.	13/5	<i>Tabeubia</i> sp.	0.38	3.50	The tree is standing (close to pillar no. 155) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
27.	13/6	Nilgiri	0.41	5.00	The tree is standing (close to pillar no. 155) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
28.	13/7	<i>Tabeubia</i> sp.	0.19 0.16	3.00	The tree is standing (close to pillar no. 155) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
29.	14/1	<i>Tabeubia</i> sp.	0.40	3.00	The tree is standing (b/n pillar no. 155 & 156) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.

30.	14/2	Neem	1.57	4.00	The tree is standing (b/n pillar no. 155 & 156) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
31.	14/3	<i>Tabebuia</i> sp.	0.40 0.22	3.00	The tree is standing (b/n pillar no. 155 & 156) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
32.	14/4	<i>Tabebuia</i> sp.	0.50	3.00	The tree is standing (b/n pillar no. 155 & 156) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
33.	18/1	Mahogany	0.28	2.00	The tree is standing (close to pillar no. 157) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
34.	18/2	Subabul	0.35	2.00	The tree is standing (close to pillar no. 157) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
35.	18/3	<i>Tabebuia</i> sp.	0.51	2.00	The tree is standing (close to pillar no. 157) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
36.	20/1	Honge	0.20	2.00	The tree is standing (close to pillar no. 158) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
37.	20/2	Subabul	0.57 0.27	2.00	The tree is standing (close to pillar no. 158) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
38.	22/1	<i>Tabebuia</i> sp.	0.17	2.00	The tree is standing (close to pillar no. 159) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
39.	22/2	Subabul	0.64	2.00	The tree is standing (close to pillar no. 159) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
40.	22/3	Jungle tree	0.17	2.00	The tree is standing (close to pillar no. 159) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.

41.	22/4	<i>Tabebuia</i> sp.	0.44	2.00	The tree is standing (close to pillar no. 159) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
42.	22/5	Honge	0.15	2.00	The tree is standing (close to pillar no. 159) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
43.	23/1	Honge	0.35	2.00	The tree is standing (close to pillar no. 160) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
44.	23/2	Subabul	0.36	3.00	The tree is standing (close to pillar no. 160) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
45.	23/3	<i>Tabebuia</i> sp.	0.81	3.00	The tree is standing (close to pillar no. 160) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
46.	25/1	Subabul	0.40	2.00	The tree is standing (close to pillar no. 161) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
47.	25/2	Honge	0.16	2.00	The tree is standing (close to pillar no. 161) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
48.	25/3	Baage	1.00	3.50	The tree is standing (close to pillar no. 161) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
49.	26/1	Honge	0.19	2.00	The tree is standing (close to pillar no. 162) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
50.	26/2	Subabul	0.39 0.23	2.50	The tree is standing (close to pillar no. 162) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
51.	26/3	Honge	0.22 0.20	2.00	The tree is standing (close to pillar no. 162) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.

52.	27/1	<i>Tabebuia</i> sp.	0.42	3.00	The tree is standing (close to pillar no. 162) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
53.	27/2	<i>Tabebuia</i> sp.	0.35	3.00	The tree is standing (close to pillar no. 162) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
54.	29/1	<i>Tabebuia</i> sp.	0.20	3.00	The tree is standing (close to pillar no. 168) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
55.	29/2	Rain tree	0.70	3.00	The tree is standing (close to pillar no. 168) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
56.	29/3	<i>Tabebuia</i> sp.	0.40	3.00	The tree is standing (close to pillar no. 168) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
57.	29/4	<i>Tabebuia</i> sp.	0.38	3.00	The tree is standing (close to pillar no. 168) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
58.	29/5	<i>Tabebuia</i> sp.	0.40	3.00	The tree is standing (close to pillar no. 168) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
59.	29/6	<i>Tabebuia</i> sp.	0.30	3.00	The tree is standing (close to pillar no. 168) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
60.	29/7	<i>Tabebuia</i> sp.	0.22	3.00	The tree is standing (close to pillar no. 168) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
61.	29/8	Rain tree	2.05	3.50	The tree is standing (close to pillar no. 168) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
62.	29/9	Subabul	0.60	3.00	The tree is standing (close to pillar no. 168) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.

63.	29/10	Subabul	0.37	3.00	The tree is standing (close to pillar no. 168) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
64.	29/11	<i>Tabebuia</i> sp.	0.45	3.50	The tree is standing (close to pillar no. 168) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
65.	29/12	<i>Tabebuia</i> sp.	0.33	3.50	The tree is standing (close to pillar no. 168) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
66.	29/13	Mahogany	0.54	3.00	The tree is standing (close to pillar no. 168) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
67.	29/14	<i>Tabebuia</i> sp.	0.22	3.00	The tree is standing (close to pillar no. 168) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
68.	29/15	<i>Tabebuia</i> sp.	0.36	3.00	The tree is standing (close to pillar no. 168) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
69.	29/16	<i>Tabebuia</i> sp.	0.34	3.00	The tree is standing (close to pillar no. 168) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
70.	29/17	Mahogany	0.50	2.50	The tree is standing (close to pillar no. 168) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
71.	29/18	Honge	0.35 0.33	2.00	The tree is standing (close to pillar no. 168) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
72.	29/19	Honge	0.38	2.00	The tree is standing (close to pillar no. 168) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
73.	29/20	Honge	0.28 0.24	2.00	The tree is standing (close to pillar no. 168) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.

74.	29/21	Subabul	0.39 0.20	3.50	The tree is standing (close to pillar no. 168) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
75.	29/22	Honge	0.22 0.19	2.00	The tree is standing (close to pillar no. 168) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
76.	29/23	Mahogany	0.48	3.00	The tree is standing (close to pillar no. 168) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
77.	29/24	Honge	0.22	2.00	The tree is standing (close to pillar no. 168) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
78.	29/25	Honge	0.25	2.00	The tree is standing (close to pillar no. 168) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
79.	32/1	<i>Peltophorum</i> sp.	1.50	3.00	The tree is standing (close to pillar no. 169) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.
80.	34/1	<i>Peltophorum</i> sp.	1.30	3.00	The tree is standing (close to pillar no. 170) in the project area, and does not hinder the earmarked working space for heavy machine crane. The tree is recommended for retention.

LHS/RHS of ORR within the project area for the Entry/Exit structures of HSR Layout Metro Station

81.	1/1	Mahogany	0.90	3.50	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.
82.	1/2	Mahogany	0.48 0.50	3.50	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.
83.	12/1	Mahogany	0.71	3.00	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.
84.	13/1	<i>Tabebuia</i> sp.	0.45	2.00	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.
85.	14/1	Jungle tree	0.30	3.00	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.

86.	14/2	<i>Spathodea</i> sp.	1.70	3.00	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.
87.	15/1	Mahogany	0.20	3.00	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.
88.	15/2	Guava	0.22	3.00	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.
89.	15/3	Honge	0.48 0.44	3.00	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.
90.	15/4	Mahogany	0.29	3.00	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.
91.	15/5	Silver Oak	0.26	4.00	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.
92.	15/6	Jungle tree	0.52	3.50	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.
93.	15/7	Sampige	0.33 0.27	4.00	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.
94.	16	Mahogany	0.29	3.50	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.
95.	17/1	Honge	0.15	2.00	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.
96.	19/1	Honge	0.30	2.00	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.
97.	19/2	Honge	0.44	2.50	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.
98.	19/3	Honge	0.40	2.00	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.
99.	21/1	Castor	0.50	3.00	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.
100.	21/2	Akash mallige	0.32 0.17	2.50	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.

101.	21/3	Honge	0.19 0.11	2.00	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.
102.	21/4	Cherry	0.70	2.50	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.
103.	21/5	Honge	0.22 0.18	3.00	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.
104.	21/6	Honge	0.22 0.17 0.18 0.18	3.00	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.
105.	21/7	Kadubadami	0.48	2.50	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.
106.	21/8	Kadubadami	0.40 0.40	2.50	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.
107.	21/9	Kadubadami	0.46 0.37	2.50	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.
108.	21/10	Honge	0.35	2.50	The tree is standing in the project area, and do not interfere the proposed construction activities. The tree is recommended for retention.
Total trees for Retention-on-Site = 108 Nos					



Tree Officer &
Deputy Conservator of Forests
BBMP, Bangalore

Annexure-B**Translocation of Trees**

Application No.: a. BMRCL/ORR/PH-2A/P1/2024/239/18866 dtd 27.02.2024

b. BMRCL/ORR/PH-2A/P1/2024/253/1541 dtd 29.04.2024

Project Area: Trees standing on LHS/RHS of ORR within the project area for the Entry/Exit structures of HSR Layout Metro Station and some trees are standing along the Service Road from Outer Ring Road Pier No. (ORP) 140 to Outer Ring Road Pier No. (ORP) 175 (Agara to Ibbaluru RH Side) for Viaduct Girder Erection for BMRCL Metro Works, Phase 2A, Package 01

Sl No.	Tree No	Species Name	Girth (Mtr)	Height (Mtr)	Justification
Along the Service Road from Outer Ring Road Pier No. (ORP) 140 to Outer Ring Road Pier No. (ORP) 175 (Agara to Ibbaluru RH Side) for Viaduct Girder Erection for BMRCL Metro Works, Phase 2A, Package 01					
1.	6	Mahogany	0.27	2.00	The tree is standing (b/n pillar no. 148 & 149) in the project area earmarked for working space for heavy machine crane. The above ground physical condition of the tree is healthy. The tree is recommended for translocation.
	6A		0.18		
2.	10	Tabeubia sp.	0.27	3.00	The tree is multiforked, and standing (b/n pillar no. 152 & 153) in the project area earmarked for working space for heavy machine crane. The above ground physical condition of the tree is healthy. The tree is recommended for translocation.
	10A		0.25		
	10B		0.19		
	10C		0.15		
3.	12	Mahogany	0.27	2.00	The tree is standing (b/n pillar no. 153 & 154) in the project area earmarked for working space for heavy machine crane. The base of the tree is conjoined with base of tree no. 11. The above ground physical condition of the tree is healthy. The tree is recommended for translocation.
	12A		0.18		
4.	13	Mahogany	0.22	2.50	The tree is standing (near pillar no. 155) in the project area earmarked for working space for heavy machine crane. The above ground physical condition of the tree is healthy. The tree is recommended for translocation.
	13A		0.17	2.00	
5.	14	Tabeubia sp.	0.35	2.00	The tree is standing (b/n pillar no. 155 & 156) in the project area earmarked for working space for heavy machine crane. The base of the tree is conjoined with base of tree no. 15. The above ground physical condition of the tree is healthy. The tree is recommended for translocation.
	14A		0.29		
6.	16	Tabeubia sp.	0.32	3.00	The tree is forked, and standing (b/n pillar no. 156 & 157) in the project area earmarked for working space for heavy machine crane. The above ground physical condition of
	16A		0.31	3.00	

					the tree is healthy. The tree is recommended for translocation.
7.	17	<i>Tabebuia</i> sp.	0.55	2.50	The tree is standing (b/n pillar no. 156 & 157) in the project area earmarked for working space for heavy machine crane. The above ground physical condition of the tree is healthy. The tree is recommended for translocation.
8.	20	Mahogany	0.32	3.00	The tree is standing (near pillar no. 158) in the project area earmarked for working space for heavy machine crane. The above ground physical condition of the tree is healthy. The tree is recommended for translocation.
9.	25	Honge	0.28	1.90	The tree is standing (near pillar no. 161) in the project area earmarked for working space for heavy machine crane. The above ground physical condition of the tree is healthy. The tree is recommended for translocation.
10.	28	Honge	0.31	1.80	The tree is standing (b/n pillar no. 163 & 164) in the project area earmarked for working space for heavy machine crane. The above ground physical condition of the tree is healthy. The tree is recommended for translocation.
11.	30	<i>Tabebuia</i> sp.	3.00	2.50	The tree is standing (close to pillar no. 168) in the project area, and does not hinder the earmarked working space for heavy machine crane. The above ground physical condition of the tree is healthy. The tree is recommended for translocation.
12.	31	Rain tree	0.64	3.00	The tree is forked, standing (b/n pillar no. 168 & 169) in the project area, and does not hinder the earmarked working space for heavy machine crane. The above ground physical condition of the tree is healthy. The tree is recommended for translocation.
	31A		0.48		
	31B		0.32		
13.	32	<i>Tabebuia</i> sp.	0.19	3.00	The tree is standing (close to pillar no. 169) in the project area, and does not hinder the earmarked working space for heavy machine crane. The above ground physical condition of the tree is healthy. The tree is recommended for translocation.

LHS/RHS of ORR within the project area for the Entry/Exit structures of HSR Layout Metro Station

14.	1	Mahogany	0.71	4.00	The tree is standing (close to the retaining wall of storm water drain) in the project area, and the physical appearance of the tree is healthy. The tree is recommended for translocation.
15.	2	Mahogany	0.64	3.80	The tree is standing (close to the retaining wall of storm water drain) in the project area, and the physical appearance of the tree is healthy. The tree is recommended for translocation.

16.	5	Akash mallige	0.30	2.00	The tree is standing (close to the retaining wall of storm water drain) in the project area, and the physical appearance of the tree is healthy. The tree is recommended for translocation.
	5A		0.30		
17.	7	Akash mallige	0.25	2.10	The tree is standing (close to the retaining wall of storm water drain) in the project area, and the physical appearance of the tree is healthy. The tree is recommended for translocation.
18.	11	Akash mallige	0.62	3.40	The tree is standing (close to the retaining wall of storm water drain) in the project area, and the physical appearance of the tree is healthy. The tree is recommended for translocation.
19.	17	Honge	0.27	1.90	The tree is standing in the project area, and the above ground physical appearance of the tree is healthy. The tree is recommended for translocation.
20.	21	Kadubadami	0.36	1.90	The tree is standing in the project area, and the above ground physical appearance of the tree is healthy. The tree is recommended for translocation.
Total trees for Translocation = 20 Nos					



Tree Officer &
Deputy Conservator of Forests
BBMP, Bangalore

Annexure-C**Felling of Trees****Application No.: a. BMRCL/ORR/PH-2A/P1/2024/239/18866 dtd 27.02.2024****b. BMRCL/ORR/PH-2A/P1/2024/253/1541 dtd 29.04.2024**

Project Area: Trees standing on LHS/RHS of ORR within the project area for the Entry/Exit structures of HSR Layout Metro Station and some trees are standing along the Service Road from Outer Ring Road Pier No. (ORP) 140 to Outer Ring Road Pier No. (ORP) 175 (Agara to Ibbaluru RH Side) for Viaduct Girder Erection for BMRCL Metro Works, Phase 2A, Package 01

Sl No.	Tree No	Species Name	Girth (Mtr)	Height (Mtr)	Justification
Along the Service Road from Outer Ring Road Pier No. (ORP) 140 to Outer Ring Road Pier No. (ORP) 175 (Agara to Ibbaluru RH Side) for Viaduct Girder Erection for BMRCL Metro Works, Phase 2A, Package 01					
1.	1	Rain Tree	1.50	3.00	The tree is standing (near pillar no. 146) in the project area earmarked for working space for heavy machine crane. The tree is matured (girth unsuits for relocation). The tree is recommended for felling.
2.	2	Rain Tree	1.77	3.00	The tree is standing (b/n pillar no. 146 & 147) in the project area earmarked for working space for heavy machine crane. The tree is matured (girth unsuits for relocation). The tree is recommended for felling.
3.	3	Rain Tree	1.70	3.00	The tree is standing (near pillar no. 147) in the project area earmarked for working space for heavy machine crane. The tree is matured (girth unsuits for relocation). The tree is recommended for felling.
4.	4	Rain Tree	1.75	2.50	The tree is standing (b/n pillar no. 147 & 148) in the project area earmarked for working space for heavy machine crane. The tree is matured (girth unsuits for relocation). The tree is recommended for felling.
5.	5	Rain Tree	2.60	3.50	The tree is standing (b/n pillar no. 148 & 149) in the project area earmarked for working space for heavy machine crane. The tree is matured (girth unsuits for relocation). The tree is recommended for felling.
6.	7	Rain Tree	1.92	3.00	The tree is standing (near to pillar no. 149) in the project area earmarked for working space for heavy machine crane. The tree is topped. The tree is recommended for felling.
7.	8	Rain Tree	1.38	5.00	The tree is standing (near pillar no. 150) in the project area earmarked for working space for heavy machine crane. The tree is matured (girth unsuits for relocation). The tree is recommended for felling.
8.	9	Rain Tree	1.45	3.00	The tree is standing (b/n pillar no. 151 & 152) in the project area earmarked for working space for heavy machine crane. The tree is topped. The tree is recommended for felling.

9.	11	Subabul	0.27	2.00	The tree is standing (b/n pillar no. 153 & 154) in the project area earmarked for working space for heavy machine crane. The base of the tree is conjoined with base of tree no. 12. The tree is recommended for felling.
10.	15	Subabul	0.26	2.50	The tree is standing (b/n pillar no. 155 & 156) in the project area earmarked for working space for heavy machine crane. The base of the tree is conjoined with base of tree no. 14. The tree is recommended for felling.
11.	18	Rain Tree	2.10	3.00	The tree is standing (near pillar no. 157) in the project area earmarked for working space for heavy machine crane. The tree is matured (girth unsuits for relocation). The tree is recommended for felling.
12.	19	Subabul	0.57	3.00	The tree is forked, and standing (b/n pillar no. 157 & 158) in the project area earmarked for working space for heavy machine crane. The tree is defective (bent). The tree is recommended for felling.
	19A		0.46		
13.	21	Subabul	0.49	3.00	The tree is forked, and standing (b/n pillar no. 158 & 159) in the project area earmarked for working space for heavy machine crane. The tree is defective (bent). The tree is recommended for felling.
	21A		0.47	3.00	
14.	22	Subabul	0.75	3.10	The tree is standing (close to pillar no. 159) in the project area earmarked for working space for heavy machine crane. The tree is defective (bent). The tree is recommended for felling.
15.	23	Honge	0.29	1.80	The tree is standing (near pillar no. 160) in the project area earmarked for working space for heavy machine crane. The base of the tree is conjoined with base of tree no. 24. The tree is recommended for felling.
16.	24	Subabul	0.48	3.00	The tree is standing (near pillar no. 160) in the project area earmarked for working space for heavy machine crane. The base of the tree is conjoined with base of tree no. 23. The tree is recommended for felling.
17.	26	Honge	0.25	2.00	The tree is standing (near pillar no. 162) in the project area earmarked for working space for heavy machine crane. The tree is cut. The tree is recommended for felling.
18.	27	Subabul	0.30	2.50	The tree is standing (near pillar no. 162) in the project area earmarked for working space for heavy machine crane. The tree is topped. The tree is recommended for felling.
19.	29	Rain tree	2.50	3.80	The tree is standing (near pillar no. 168) in the project area earmarked for working space for heavy machine crane. The tree is matured (girth unsuits for relocation). The tree is recommended for felling.
20.	33	Subabul	0.33	2.50	The tree is standing (b/n pillar no. 169 & 170) in the project area earmarked for working space for heavy machine crane. The tree is defective (bent). The tree is recommended for felling.
21.	34	Rain tree	1.85	3.50	The tree is standing (close to pillar no. 170) in the project area earmarked for working space for heavy machine crane. The tree is matured (girth unsuits for relocation). The tree is recommended for felling.

LHS/RHS of ORR within the project area for the Entry/Exit structures of HSR Layout Metro Station

22.	3	<i>Tabebuia</i> sp.	0.99	3.90	The tree is standing (close to the retaining wall of storm water drain) in the project area, with defective (decay) collar region. The tree is recommended for felling.
23.	4 4A 4B 4C	Mahogany	0.55 0.38 0.56 0.26	4.00	The tree is standing (close to the retaining wall of storm water drain) in the project area, with defective (weak branch union) trunks. The tree is recommended for felling.
24.	6 6A 6B	Hoovarasi	0.56 0.46 0.27	3.00	The tree is standing (close to the retaining wall of storm water drain) in the project area, with defective (decay) collar region. The tree is recommended for felling.
25.	8	<i>Tabebuia</i> sp.	1.20	3.80	The tree is standing (close to the retaining wall of storm water drain) in the project area, and the field condition (not suitable for excavation of desired root ball) does not suit for relocation of the tree. The tree is recommended for felling.
26.	9	Akash mallige	0.52	4.00	The tree is standing (close to the retaining wall of storm water drain) in the project area, and the field condition (not suitable for excavation of desired root ball) does not suit for relocation of the tree. The tree is recommended for felling.
27.	10	Honge	0.45	2.50	The tree is standing (close to the retaining wall of storm water drain) in the project area, and the field condition (not suitable for excavation of desired root ball) does not suit for relocation of the tree. The tree is recommended for felling.
28.	12 12A 12B	Akash mallige	0.25 0.29 0.26	2.30	The tree is multiforked, and standing (close to the retaining wall of storm water drain) in the project area, with defective (decay) symptoms. The tree is recommended for felling.
29.	13	Jacaranda	2.00	3.00	The tree is matured (girth unsuits relocation), and standing in the project area, with defective (decay) symptoms. The tree is recommended for felling.
30.	14 14A 14B 14C	<i>Spathodea</i> sp.	1.67 0.58 0.84 1.06	4.00	The tree is matured, multiforked, and standing in the project area, with defective (decay) symptoms. The tree is recommended for felling.
31.	15 15A	<i>Spathodea</i> sp.	2.18 0.37	4.00 4.00	The tree is forked, matured (girth unsuits relocation), and standing in the project area. The tree is recommended for felling.
32.	18 18A	<i>Spathodea</i> sp.	2.17 1.22	4.80 4.80	The tree is matured, multiforked, and standing in the project area, with defective (decay) symptoms. The tree is recommended for felling.
33.	19	Jacaranda	0.45	3.00	The tree is standing in the project area, and the field condition (close to tree no. 20, not suitable for excavation of desired root ball) does not suit for relocation of the tree. The tree is recommended for felling.

34.	20 20A 20B 20C	Jacaranda	0.35 0.20 0.17 0.20	4.00 4.00 4.00 4.00	The tree is multiforked, standing in the project area, and the field condition (close to tree no. 19, not suitable for excavation of desired root ball) does not suit for relocation of the tree. The tree is recommended for felling.
35.	22	Jacaranda	1.60	4.00	The tree is standing in the project area (earmarked for road widening), and the field condition (girth - not suitable for excavation of desired root ball) does not suit for relocation of the tree. The tree is recommended for felling.
36.	23	Jacaranda	2.00	4.00	The tree is standing in the project area (earmarked for road widening), and the field condition (girth - not suitable for excavation of desired root ball) does not suit for relocation of the tree. The tree is recommended for felling.
37.	24	<i>Tabeubia</i> sp.	1.20	3.00	The tree is standing in the project area (earmarked for secondary wing pillar), and the field condition (girth - not suitable for excavation of desired root ball) does not suit for relocation of the tree. The tree is recommended for felling.
38.	25	Subabul	0.47	3.00	The tree is standing in the project area (earmarked for secondary wing pillar), and the field condition (decay symptoms) does not suit for relocation of the tree. The tree is recommended for felling.
39.	26	<i>Tabeubia</i> sp.	0.96	3.00	The tree is standing in the project area (earmarked for secondary wing pillar), and the field condition (girth - not suitable for excavation of desired root ball) does not suit for relocation of the tree. The tree is recommended for felling.
40.	27	<i>Tabeubia</i> sp.	1.10	4.50	The tree is standing in the project area (earmarked for secondary wing pillar), and the field condition (girth - not suitable for excavation of desired root ball) does not suit for relocation of the tree. The tree is recommended for felling.
41.	28	<i>Tabeubia</i> sp.	0.67	3.30	The tree is standing in the project area (earmarked for secondary wing pillar), and the field condition (decay symptoms) does not suit for relocation of the tree. The tree is recommended for felling.

Total trees for Translocation = 41 Nos.



Tree Officer &

Deputy Conservator of Forests

BBMP, Bangalore