



BRUHAT BANGALORE MAHANAGARA PALIKE

No. DCF / BBMP/PR - /2020-21

1790.

Deputy Conservator Forests
Bruhat Bangalore MahanagaraPalike
N.R. Square Annex Building-3
Bengaluru, Date: 01.03.2021

Official Memorandum

Subject: Permission regarding trees felling for Bangalore Metro Project

Reference:

1. Hon'ble High Court Order dated: 18.11.2020 in WP 17841/2018
2. Letter No. BMRCL/REACH.5/PHASE2/TREES/BBMP/PKG3/TREES/ BBMP/ 20/2879, dated: 20.11.2020.
3. Public Notice Vide No. DCF/PR-27-2020-21 dated: 21.11.2020
4. Report of Tree Expert Committee dated: 26.02.2021

Preamble: -

The BMRCL submitted a fresh application read at ref (2) above seeking permission for removal of 15 trees falling in between R V Road and HSR Layout via Marenahalli Road in Reach-5 Package -3 of Bangalore Metro Project, 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 to be felled under the project at all locations are more than 50. The public notice was published in Vijaya Karnataka (Kannada) and Deccan Herald (English) Newspapers on 23.11.2021. The details of the 15 trees sought to be removed by BMRCL and that of 132 other trees standing in the project area were also published on the website of BBMP, as per the MOP.

In response to the public notice, 8 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 from the public, and remarks and findings of the undersigned for each specific objection 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 147 trees in the project area out of which 15 trees are sought to be removed. Detailed enumeration of each of those 15 trees in terms of location, physical parameters, health and defects, etc was prepared by 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 15 trees on 12.12.2020 and recorded in Part-II of Template No. 2. As per the preliminary assessment, 1 tree can be translocated, while other 14 have to be felled as their translocation is not feasible due tree defects or physical site locations.

The proceedings regarding consideration of the objections, tabular statement of the findings along with summary of the findings, detailed enumeration and preliminary assessment of trees along with justification for each of the 15 trees, and information in Template Nos 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 onsite retention of 2 trees and felling of 13 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 and findings of the undersigned, (ii) review of preliminary assessment of trees by the undersigned, (iii) their field inspection, and (iv) post inspection review and report preparation.

The TEC has concluded that 2 trees can be retained at site as one of them will not hinder the project activities and another can be retained with pruning of some of its branches into which the metro / flyover will intrude.

The TEC has also concluded that removal of 13 trees has become necessary due to following 3 major physical features of the project at the tree locations.

| Physical features | Tree Nos. |
|---|--|
| Portal Pier Foundation area of Viaduct | 66, 67, 68, 69 & 70 (Total 05 Nos.) |
| Nallah Diversion area | 85 (Total 01 No) |
| Cantilever wing span of flyover (20m wide) of Road cum Rail structure | 53, 54, 86, 87, 88, 89 & 100 (Total 07 Nos.) |

The TEC has further concluded that translocation of these 13 trees is not feasible for the specific reasons recorded in Part-III of Template No. 2 as well as in the Appendix to the report in respect of each tree. The reasons include, among others, excavation of the root ball of sufficient size not being feasible and various tree defects making the trees unfit for the translocation.

The report of the TEC has been examined. The TEC has provided detailed specific justification for felling of each of the 13 trees. The undersigned concurs with the justification and recommendations of the TEC.

The final assessment of the undersigned has been recorded in Part-IV of Template No. 2. The felling of 13 trees is essential for implementation of the metro project, which seeks to build a public transport system. The adverse impact of the felling will have to be mitigated by directing BMRCL to take up Compensatory Afforestation works.

Hence, the following order.

Order

Based on the consideration detailed above, Permission is refused for removal of 2 trees listed in Appendix 1. They should be retained at site only. The branches of tree no. 1 may be pruned, as required for the project activities.


Permission is hereby granted for felling of 13 trees as listed in Template No. 6 appended to this Order as Appendix 2.

This order will come into effect after 15 days from the date of uploading of the order on the website of BBMP and serving of this order by email to the petitioner in WP17841/2018.

On felling of the trees, the extracted wood should be deposited with the Forest Wing of BBMP for disposal.

The order is subject to following directions to BMRCL.

- i. Arrange Compensatory Afforestation by planting of 130 tall and healthy saplings, i.e., 10 saplings for each tree felled within 6 months from the date of the felling.
- ii. Submit a plan for the Compensatory Afforestation within 2 months from the date of this order.
- iii. Ensure proper and effective care and maintenance of the plantation for a period of 3 years.
- iv. Submit reports regarding condition of the plantation every quarter for a period of 3 years.


Tree Officer
& Deputy Conservator of Forests
Bruhat Bangalore Mahanagara Palike
Bengaluru.

Copy to:

1. The Managing Director, BMRCL, 3rd Floor, BMTC Complex, Shanthinagara, Bengaluru - 560027
2. The Member-Secretary, Tree Expert Committee (TEC), Bengaluru
3. Sri Dattatraya T Devare, A-102 Natasha Golf View Apartments, Domlur Bengaluru - 560071, Petitioner in WP 17841/2018
4. Bangalore Environment Trust, 10, Sirur Park B Street Seshadripuram Bengaluru - 560020, Petitioner in WP 17841/2018
5. The Chief Conservator of Forests, Bengaluru Circle & Chairman, Tree Authority

6. The Deputy Conservator of Forests, Urban Division, Bengaluru
7. The Chief Engineer & Chief Technical Expert (SEMU), BMRCL
8. The Environment Officer, BMRCL
9. The Deputy Chief Engineer – Reach 5, Package -3, BMRCL
10. The Range Forest Officer South Zone
11. The Range Forest Officer East Zone


Tree Officer
& Deputy Conservator of Forests
Bruhat Bangalore Mahanagara Palike
Bengaluru.

PARTICULARS ON TREES TO BE FELLED*

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

| | |
|---|--|
| Name of the user agency | BMRCL |
| Purpose of the project | Construction of Metro Viaduct and Stations between RV Road and HSR Layout via Marenahalli Road (Reach-5, Package-3) |
| Extent of the project area | 19.02 Ha |
| Location of the project area | Between East End Road and CSB Junction for a length of 2.66 km. Start Point Lat: N 12 deg 55 mins 3.6 sec Log : E 77 deg 35 mins 49.1 sec End Point Lat: N 12 deg 54 mins 57.3 sec Log : E 77 deg 37 mins 20.6 sec |
| Number of tree(s) enumerated in the project area | 147 |
| Number of tree(s) recommended for felling | 13 |

* Note: There are 132 plus 2 other trees in the project area, which are not supposed for removal. Those should continue to be present at their current locations. The details of the trees to be retained (2 Nos) and felled (13 Nos) are enclosed in Appendix- 01 and Appendix- 02 respectively.


Tree Officer

Application No.: BMRCL/REACH 5/PHASE 2/PKG 3/TREES/BBMP/20/2879 dated: 20.11.2020


Appendix-1

Project Area: RV Road to HSR layout, Reach-5, Package-3.

List of trees identified for Retention

| Sl No | Tree Number | Species | GBH (m) | Height (m) | Crown Spread (m) | Latitude (D M S) | Longitude (D M S) | Justification |
|-------|-------------|-----------|---------|------------|------------------|--------------------------|--------------------------|--|
| 1 | 1 | Rain Tree | 3.50 | 15.00 | 10.00 | 12 deg 55 min 0.8004 sec | 77 deg 35 min 49.06 sec | <p>Retention</p> <ul style="list-style-type: none"> Tree is present outside the project activity zone. Proposed construction activities (cantilever wing span / Flyover) is intruding into the canopy of tree as explained on site by BMRCL representative / field engineer. Therefore those branches alone grown towards metro lane can be pruned appropriately. |
| 2 | 2 | Dalchanda | 1.00 | 12.00 | 4.00 | 12 deg 55 min 0.8076 sec | 77 deg 35 min 49.538 sec | <p>Retention</p> <ul style="list-style-type: none"> Tree is present outside the project activity zone and does not hinder any of the project activities. |

Date:


Tree Officer
 & Deputy Conservator of Forest
 Bruhat Bangalore Mahanagara Palike
 Bengaluru.

Appendix-2

PROJECT AREA: RV Road to HSR layout, Reach-5, Package-3.
 DWG NO./REACH 5/PHASE 2/PKG 3/1/REES/BBMP/2879 dated: 20.11.2020

| List of trees for Felling | | | | | | | | |
|---------------------------|-------------|----------|---------|------------|------------------|---------------------------------|--------------------------------|---|
| Sl No | Tree Number | Species | GBH (m) | Height (m) | Crown Spread (m) | Latitude (D M S) | Longitude (D M S) | Justification |
| 1 | 53 | Gulmohar | 3.20 | 10.00 | 6.00 | 12 deg 54 min 59.7276 sec | 77 deg 36 min 49.529 sec | <p>Felling</p> <ul style="list-style-type: none">Tree is present within the project area (construction of cantilever wing span / Flyover) and inclined towards the existing road / metroTree is matured with severe defect at branch collar zoneExcavation of applicable root ball proportionate to girth of the tree is not possible as the tree is located close to adjacent building.Collar zone of the trunk is choked around by concrete structures.The conditions above disqualify the tree for transplantation / translocation. |
| 2 | 54 | Gulmohar | 3.00 | 8.00 | 12.00 | 12 deg 54 min 59.7168 sec | 77 deg 36 min 49.874 sec | <p>Felling</p> <ul style="list-style-type: none">Tree is present within the project area (construction of cantilever wing span / Flyover) and inclined towards the existing road and metroTree is matured with forked branch, where the large sized branch is cut and small sized branch is decayedExcavation of applicable root ball proportionate to girth of the tree is not possible as the tree is located close to adjacent buildingCollar zone of the trunk is choked around by concrete structures.The conditions above disqualify the tree for transplantation / translocation. |

| Sl No | Tree Number | Species | GBH (m) | Height (m) | Crown Spread (m) | Latitude (D M S) | Longitude (D M S) | Justification |
|-------|-------------|--------------|---------|------------|------------------|--------------------------------|--------------------------------|---|
| 3 | 66 | SihiHunse | 1.50 | 6.00 | 5.00 | 12 deg 55 min 0.7932 sec | 77 deg 37 min 15.884 sec | Felling |
| | | | | | | | | <ul style="list-style-type: none"> • Tree is present within the project area (construction of portal / pillar foundation) • Tree is forked with dead stub of a broken branch near the forked region • Tree is matured with thick barks peeled /cracked in the collar region • Tree with codominant trunk and included barks • Excavation of root ball is not possible as drainage channel infringes the tree protection zone • The conditions above disqualify the tree for transplantation / translocation |
| 4 | 67 | Bottle Brush | 1.90 | 12.00 | 7.00 | 12 deg 55 min 0.8292 sec | 77 deg 37 min 16.075 sec | Felling |
| | | | | | | | | <ul style="list-style-type: none"> • Tree is present within the project area (construction of portal / pillar foundation) • Tree is forked at 2m from base and inclined • Tree is matured with canker face and thick barks peeled /cracked in the collar region • Excavation of root ball is not possible as drainage channel infringes the tree protection zone • The conditions above disqualify the tree for transplantation / translocation. |

| Sl No | Tree Number | Species | GBH (m) | Height (m) | Crown Spread (m) | Latitude (D M S) | Longitude (D M S) | Justification |
|-------|-------------|-----------------------|---------|------------|------------------|--------------------------|--------------------------|--|
| 5 | 68 | Basri (Fycus Species) | 3.80 | 10.00 | 7.00 | 12 deg 55 min 0.948 sec | 77 deg 37 min 16.126 sec | <p>Felling</p> <ul style="list-style-type: none"> Tree is present within the project area (construction of 3 legged pillar with foundation) Ninety percent of the roots of the tree are exposed, girdled and cut on all sides Excavation of root ball is not possible as drainage channel infringes the tree protection zone The conditions above disqualify the tree for transplantation / translocation. |
| 6 | 69 | Bottle Brush | 0.80 | 7.00 | 4.00 | 12 deg 55 min 0.9984 sec | 77 deg 37 min 16.709 sec | <p>Felling</p> <ul style="list-style-type: none"> Tree is present within the project area (construction of 3 legged pillar with foundation) Excavation of root ball is not possible as drainage channel in one side and boundary wall on the other side infringes the tree protection Tree is with canker face at the collar region The conditions above disqualify the tree for transplantation / translocation. |

| SI No | Tree Number | Species | GBH (m) | Height (m) | Crown Spread (m) | Latitude (D M S) | Longitude (D M S) | Justification |
|-------|-------------|--------------|---------|------------|------------------|---------------------------------|--------------------------------|---|
| 7 | 70 | bottle Brush | 0.95 | 7.00 | 4.00 | 12 deg 55 min 1.0236 sec | 77 deg 37 min 16.806 sec | <p>Felling</p> <ul style="list-style-type: none"> • Tree is forked 2m from base and present within the project area (construction of 3 legged pillar with foundation) • Excavation of root ball is not possible as drainage channel in one side and boundary wall on the other side infringes the tree protection • The conditions above disqualify the tree for transplantation / translocation. |
| 8 | 85 | Rain Tree | 2.70 | 12.00 | 20.00 | 12 deg 54 min 58.1184 sec | 77 deg 37 min 3.824 sec | <p>Felling</p> <ul style="list-style-type: none"> • Tree has multiple (4) branches. • Excavation of root ball is not possible due, tree is located in between existing drainage channel and newly constructed nala diversion canal. • Tree is also silviculturally matured. • The conditions above disqualify the tree for transplantation / translocation. |
| 9 | 86 | Gulmohar | 2.20 | 12.00 | 6.00 | 12 deg 54 min 58.6728 sec | 77 deg 37 min 53.816 sec | <p>Felling</p> <ul style="list-style-type: none"> • Tree is silviculturally matured and bent towards the existing road. • Tree has hollowness and cankers on the trunk. • One major branch of the tree was already pruned. • Base of the trunk was mechanically damaged. • The conditions above disqualify the tree for transplantation / translocation. |

| SI No | Tree Number | Species | GBH (m) | Height (m) | Crown Spread (m) | Latitude (D M S) | Longitude (D M S) | Justification |
|-------|-------------|----------|---------|------------|------------------|---------------------------------|--------------------------------|--|
| 10 | 87 | Gulmohar | 2.30 | 12.00 | 7.00 | 12 deg 54 min 58.7124 sec | 77 deg 36 min 53.485 sec | <p>Felling</p> <ul style="list-style-type: none"> • Tree is silviculturally matured • Two major branches of the tree is already pruned • Tree is bending towards the existing road and roots are girdled at the base of the trunk. • The conditions above disqualify the tree for transplantation / translocation. |
| 11 | 88 | Gulmohar | 2.60 | 15.00 | 12.00 | 12 deg 54 min 58.842 sec | 77 deg 36 min 52.16 sec | <p>Felling</p> <ul style="list-style-type: none"> • Major branches of the tree were already felled. • Some branches of the tree were dead. • Tree is having hollowness at the bottom of the trunk and having boot-trees like structure. • The conditions above disqualify the tree for transplantation / translocation. |
| 12 | 89 | Gulmohar | 2.50 | 8.00 | 4.00 | 12 deg 54 min 58.8816 sec | 77 deg 36 min 51.71 sec | <p>Felling</p> <ul style="list-style-type: none"> • Tree is matured and mechanically damaged. • Ninety per cent of the tree was burnt. • Tree is having epicormics shoots indicating that tree is under stress. • The conditions above disqualify the tree for transplantation / translocation |

| SI No | Tree Number | Species | GBH (m) | Height (m) | Crown Spread (m) | Latitude (D M S) | Longitude (D M S) | Justification |
|-------|-------------|----------|---------|------------|------------------|--------------------------------|--------------------------------|--|
| 13 | 100 | Gulmohar | 1.70 | 8.00 | 5.00 | 12 deg 54 min 59.004 sec | 77 deg 36 min 45.673 sec | Felling <ul style="list-style-type: none"> • Tree is over matured and two major branches of the tree was already pruned. • The tree trunk is mechanically damaged. • Tree is having epicormics shoots. • The conditions above disqualify the tree for transplantation / translocation |

Date:

Tree Officer &
Deputy Conservator of Forest
Bruhat Bangalore Mahanagara Palike
Bengaluru.

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

Date: 26.02.21

Application No.: BMRCL/REACH 5/PHASE 2/PKG 3/TREES/BBMP/20/2879
DATED: 20.11.2020

Location: RV Road to HSR Layout for Construction of Viaduct and Stations
between RV Road to HSR layout, Reach-5, Package-3.

Application No.: BMRCL/REACH 5/PHASE 2/PKG 3/TREES/BBMP/20/2879

Location: RV Road to HSR Layout for construction of Viaduct and Stations Reach-5, Package-3.

**Report of Tree Expert Committee regarding permission sought by
BMRCL for the trees standing in between East End road and CSB Junction over a
length of 2.66 KM (A segment falling under RV Road to HSR Layout, Reach- 5
Package- 3) under section 8(2) and 8(3)(vii) of Karnataka Preservation of Trees
Act, 1976**

Application No. BMRCL/REACH 5/PHASE 2/PKG 3/TREES/BBMP/20/2879 dt:20.11.2020

1. As per the orders of the Hon'ble High Court of Karnataka, the Memorandum of Procedure (herein after mentioned as MOP December-2020) was submitted on 09.12.2020 duly incorporating the directions of the Hon'ble High Court and the work of the Tree Expert Committee (hereinafter mentioned as TEC) was carried out as per the process elucidated in the MOP.
2. The Tree Officer & Deputy Conservator of Forest, BBMP submitted his preliminary assessment regarding the application filed by Bangalore Metro Rail Corporation Ltd (BMRCL) pertaining to 15 number of trees standing in the project area between East End Road and CSB junction over a length of 2.66 Km (A segment falling under RV Road to HSR layout, Reach-5, Package-3). The preliminary assessment was accompanied by following documents.
 - i. A copy of the application dtd. 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 Tree Officer, a complete set of the objections from the public and a copy of the proceedings dtd. 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 (dt.09.12.2020) containing tree details as furnished by Range Forest Officer and Part II (dt.12.12.2020) containing preliminary assessment of the Tree Officer for each of 15 trees proposed for felling by BMRCL.
 - iv. Abstract of the review of the BMRCL application and preliminary assessment of trees by the Tree Officer in Template-3 Part-I.
 - v. A statement prepared by Tree Officer showing the tree details along with preliminary assessment and justification for on-site retention / translocation / felling of trees.

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

Review of the BMRCL application, objections 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 dated 12.12.2020 were perused systematically by the TEC in its

[Signature]
P. 1

meeting held 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 08 number of objections and comments have been received in response to the public notice issued. The objections mostly relate to change in alignment and preserving the greenery of Bengaluru. Few 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 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 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" – Annexure-6).

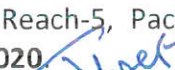
Review of Preliminary Assessment of Trees done by Tree Officer:

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. The TEC noted that the documentation of the trees' details in Template-2 Part-I and the preliminary assessment as per Template-2 Part-II has been done properly by the Forest Officers as envisaged in Step-4 & Step-5 of the MOP.
7. The TEC firmly deliberated that the first option should be to consider possibility of retention of trees at the site itself. The second option, in the event of the removal being necessary, should be to explore the suitability for the translocation. The felling should be the last option for those trees which cannot be retained on-site and are also not suitable for translocation. The TEC decided to make that assessment through the field inspection of each tree.

The TEC decided to verify the preliminary assessment by Tree Officer and for that purpose scheduled the field inspection on **23.12.2020**.

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

Field Inspection by TEC:

9. The field inspection for assessment of trees standing in the project area between East End road and CSB Junction over a length of 2.66 Km (A segment falling under RV Road to HSR layout, Reach-5, Package-3 area for the metro project) was carried out by the TEC on **23.12.2020**. 

Application No.: BMRCL/REACH 5/PHASE 2/PKG 3/TREES/BBMP/20/2879

Location: RV Road to HSR Layout for construction of Viaduct and Stations Reach-5, Package-3.

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 by the Forest Department Officers in Template 2 Part-I, including tree health / tree defects and general assessment as per proviso 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 which can 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 procedure and 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 23.12.2020 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 categorised as follows;

- a) Total number of enumerated trees standing in the project area – 147 Trees (as per Public Notice)
- b) Total number of trees present within the project area, but not hindering any of the project activities – 132 Trees (assessed by Forest Department Officers and BMRCL)
- c) Total number of trees required for removal by BMRCL as per their application – 15 Trees

11. **On-site Retention:** The TEC identified 02 number of trees (Tree No. 1- Rain Tree & Tree No. 2- Dalichanda) that can be retained on-site as one of the tree (Tree No. 2) does not obstruct the project activities and another tree (Tree No. 1) can be retained with pruning of some of the branches.

Y. A. S.

12. As verified during the field inspection, the 13 trees which have been suggested for felling are falling within the following physical features of Metro Viaduct, and therefore these trees needs to be removed from their current location.

| Physical features | Tree Nos. |
|--|---|
| Portal Pier Foundation area of Viaduct | 66, 67, 68, 69 & 70 (Total 05 Nos.) |
| Nallah Diversion area | 85 (Total 01 No) |
| Cantilever wingspan of flyover (20m wide) of Road cum Rail structure | 53, 54, 86, 87, 88, 89 & 100 (Total 07 Nos.) |

The trees with above enumerated numbers are standing within the project construction activity area proposed for the above stated physical features of the Metro Project. Therefore none of these 13 trees can be retained on-site.

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

While finding suitability of the trees for translocation, the TEC considered the following conditions, in addition to the tree health / tree defects, etc., recorded in the Template-2 Part-I

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

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

- 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.
- 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 no suitable trees for translocation at the said site.

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

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

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

| | |
|--|------------|
| Total number of Trees assessed in the project area | 15 |
| Total number of Trees which can be retained on-site | 02 |
| Total number of Trees found suitable for translocation | Nil |
| Total number of Trees assessed for felling | 13 |

[**Note:** In addition to the trees as mentioned under category for retention-on-site, there are another 132 trees which will be retained at their present locations as they are not hindering the BMRCL Project Activities.]

15. The statement containing recommendations and justification for on-site retention / translocation / felling of trees in respect of each tree is appended to this report as **Appendix**.

16. 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.

General Directions to BMRCL/BBMP:

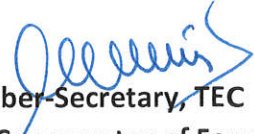
17. BMRCL should be advised to raise Compensatory Afforestation on suitable lands in respect of trees to be removed/felled. For each tree felled/removed, 10 Nos of tall healthy saplings have to be planted and properly maintained for a period of 3 years. Periodic status reports must be submitted by BMRCL 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.

7
Application No.: BMRCL/REACH 5/PHASE 2/PKG 3/TREES/BBMP/20/2879

Location: RV Road to HSR Layout for construction of Viaduct and Stations Reach-5, Package-3.

Record keeping:

18. The Tree Officer is advised to maintain full records of the BMRCL application, its processing, field inspection, etc for a minimum period of 3 years. The information collected in various templates suggested in the MOP, especially Template-2 Part-1 to IV, should be maintained carefully.
19. An abstract of the recommendations of the TEC in Template No.4 of the MOP and a detailed statement containing the recommendations with justification for each of the 15 trees is appended as Appendix to this report.


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

Appendix

Application No.: BMRCL/REACH 5/PHASE 2/PKG 3/TREES/BBMP/20/2879 dated: 20.11.2020

Project Area: RV Road to HSR layout, Reach-5, Package-3.

List of trees identified for retention

| SI No | Tree Number | Species | GBH (m) | Height (m) | Crown Spread (m) | Latitude (D M S) | Longitude (D M S) | Recommendation with Justification |
|-------|-------------|------------|---------|------------|------------------|--------------------------|--------------------------|--|
| 1 | 1 | Rain Tree | 3.50 | 15.00 | 10.00 | 12 deg 55 min 0.8004 sec | 77 deg 35 min 49.06 sec | Retention: <ul style="list-style-type: none"> Tree is present outside the project area Proposed construction activities (cantilever wing span / Flyover) is intruding into the canopy of tree as explained on site by BMRCL representative / field engineer. Therefore those branches alone grown towards metro lane can be pruned appropriately. |
| 2 | 2 | Dalichanda | 1.00 | 12.00 | 4.00 | 12 deg 55 min 0.8076 sec | 77 deg 35 min 49.538 sec | Retention: <ul style="list-style-type: none"> Tree is present outside the project area and do not hinder any of the project activities. |

List of trees for Felling

| SI No | Tree Number | Species | GBH (m) | Height (m) | Crown Spread (m) | Latitude (D M S) | Longitude (D M S) | Justification |
|-------|-------------|----------|---------|------------|------------------|---------------------------|--------------------------|---|
| 1 | 53 | Gulmohar | 3.20 | 10.00 | 6.00 | 12 deg 54 min 59.7276 sec | 77 deg 36 min 49.529 sec | Felling: <ul style="list-style-type: none"> Tree is present within the project area (construction of cantilever wing span / Flyover) and inclined towards the existing road / metro lane. Tree is matured with severe defect at branch collar zone Excavation of applicable root ball Collar zone of the trunk is choked around by concrete structures. The conditions above disqualify the tree for transplantation / translocation. |

| | | | | | | | | |
|---|----|--------------|------|-------|-------|---------------------------------|--------------------------------|---|
| 2 | 54 | Gulmohar | 3.00 | 8.00 | 12.00 | 12 deg 54 min 59.7168 sec | 77 deg 36 min 49.874 sec | <p>Felling:</p> <ul style="list-style-type: none"> Tree is present within the project area (construction of cantilever wing span / Flyover) and inclined towards the existing road and metro lane Tree is matured with forked branch, where the large sized branch is cut and small sized branch is decayed Excavation of applicable root ball proportionate to girth of the tree is not possible as the tree is located close to adjacent building Collar zone of the trunk is choked around by concrete structures. The conditions above disqualify the tree for transplantation / translocation. |
| 3 | 66 | SihiHunse | 1.50 | 6.00 | 5.00 | 12 deg 55 min 0.7932 sec | 77 deg 37 min 15.884 sec | <p>Felling:</p> <ul style="list-style-type: none"> Tree is present within the project area (construction of portal / pillar foundation) Tree is forked with dead stub of a broken branch near the forked region Tree is matured with thick barks peeled /cracked in the collar region Tree with codominant trunk and included barks Excavation of root ball is not possible as drainage channel infringes the tree protection zone The conditions above disqualify the tree for transplantation / translocation |
| 4 | 67 | Bottle Brush | 1.90 | 12.00 | 7.00 | 12 deg 55 min | 77 deg 37 min | <p>Felling:</p> <ul style="list-style-type: none"> Tree is present within the project area (construction of portal / pillar foundation) Tree is forked at 2m from base and inclined Tree is matured with canker face and thick barks peeled /cracked in the collar region |

| | | | | | | | | |
|---|----|-----------------------|------|-------|------|--------------------------------|--------------------------------|---|
| | | | | | | 0.8292 sec | 16.075 sec | <ul style="list-style-type: none"> Excavation of root ball is not possible as drainage channel infringes the tree protection zone The conditions above disqualify the tree for transplantation / translocation. |
| 5 | 68 | Basri (Fycus Species) | 3.80 | 10.00 | 7.00 | 12 deg 55 min 0.948 sec | 77 deg 37 min 16.126 sec | Felling: <ul style="list-style-type: none"> Tree is present within the project area (construction of 3 legged pillar with foundation) Ninety percent of the roots of the tree are exposed, girdled and cut on all sides Excavation of root ball is not possible as drainage channel infringes the tree protection zone The conditions above disqualify the tree for transplantation / translocation. |
| 6 | 69 | Bottle Brush | 0.80 | 7.00 | 4.00 | 12 deg 55 min 0.9984 sec | 77 deg 37 min 16.709 sec | Felling: <ul style="list-style-type: none"> Tree is present within the project area (construction of 3 legged pillar with foundation) Excavation of root ball is not possible as drainage channel in one side and boundary wall on the other side infringes the tree protection zone Tree is with canker face at the collar region The conditions above disqualify the tree for transplantation / translocation. |
| 7 | 70 | bottle Brush | 0.95 | 7.00 | 4.00 | 12 deg 55 min 1.0236 sec | 77 deg 37 min 16.806 sec | Felling: <ul style="list-style-type: none"> Tree is forked 2m from base and present within the project area (construction of 3 legged pillar with foundation) Excavation of root ball is not possible as drainage channel in one side and boundary wall on the other side infringes the tree protection zone The conditions above disqualify the tree for transplantation / translocation. |

| | | | | | | | | |
|----|----|-----------|------|-------|-------|---------------------------------|--------------------------------|--|
| 8 | 85 | Rain Tree | 2.70 | 12.00 | 20.00 | 12 deg 54 min 58.1184 sec | 77 deg 37 min 3.824 sec | Felling: <ul style="list-style-type: none"> Tree has multiple (4) branches. Excavation of root ball is not possible due, tree is located in between existing drainage channel and newly constructed nala diversion canal. Tree is also silviculturally matured. The conditions above disqualify the tree for transplantation / translocation. |
| 9 | 86 | Gulmohar | 2.20 | 12.00 | 6.00 | 12 deg 54 min 58.6728 sec | 77 deg 37 min 53.816 sec | Felling: <ul style="list-style-type: none"> Tree is silviculturally matured and bent towards the existing road. Tree has hollowness and cankers on the trunk. One major branch of the tree was already pruned. Base of the trunk was mechanically damaged. The conditions above disqualify the tree for transplantation / translocation. |
| 10 | 87 | Gulmohar | 2.30 | 12.00 | 7.00 | 12 deg 54 min 58.7124 sec | 77 deg 36 min 53.485 sec | Felling: <ul style="list-style-type: none"> Tree is silviculturally matured Two major branches of the tree is already pruned Tree is bending towards the existing road and roots are girdled at the base of the trunk. The conditions above disqualify the tree for transplantation / translocation. |
| 11 | 88 | Gulmohar | 2.60 | 15.00 | 12.00 | 12 deg 54 min 58.842 sec | 77 deg 36 min 52.16 sec | Felling: <ul style="list-style-type: none"> Major branches of the tree were already felled. Some branches of the tree were dead. Tree is having hollowness at the bottom of the trunk and having boot-trees like structure. The conditions above disqualify the tree for transplantation / translocation. |

| | | | | | | | | |
|----|-----|----------|------|------|------|---------------------------------|--------------------------------|---|
| 12 | 89 | Gulmohar | 2.50 | 8.00 | 4.00 | 12 deg 54 min 58.8816 sec | 77 deg 36 min 51.71 sec | Felling: <ul style="list-style-type: none"> Tree is matured and mechanically damaged. Ninety per cent of the tree was burnt. Tree is having epicormics shoots indicating that tree is under stress. The conditions above disqualify the tree for transplantation / translocation |
| 13 | 100 | Gulmohar | 1.70 | 8.00 | 5.00 | 12 deg 54 min 59.004 sec | 77 deg 36 min 45.673 sec | Felling: <ul style="list-style-type: none"> Tree is over matured and two major branches of the tree was already pruned. The tree trunk is mechanically damaged. Tree is having epicormics shoots. The conditions above disqualify the tree for transplantation / translocation |

Date: 26.02.21




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

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)

| | |
|--|--|
| Name of the user agency | BMRCL |
| Purpose of the project | Construction of Metro Viaduct and Stations between RV Road and HSR Layout via Marenahalli Road (Reach-5, Package-3) |
| Extent of the project area | 19.02 Ha |
| Location of the project area | Between East End Road and CSB Junction for a length of 2.66 km. Start Point Lat: N 12 deg 55 mins 3.6 sec Log : E 77 deg 35 mins 49.1 sec End Point Lat: N 12 deg 54 mins 57.3 sec Log : E 77 deg 37 mins 20.6 sec |
| Number of tree(s) enumerated in the project area | 147 |
| Number of tree(s) proposed for removal by user agency | 15 |
| Overall opinion on objections from the public | To save maximum number of trees and include public while taking decisions. |
| Number of tree(s) recommended for on-site retention | 02 * |
| Number of tree(s) recommended for transplantation / translocation | 0 |
| Number of tree(s) recommended for felling | 13 |

*Note: - In addition there are 132 other trees in the project area, which are not supposed for removal by BMRCL. Those trees should continue to be present at their current locations.


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

ANNEXURE-1

(14)

Public Notice


No. DCF/PR/27/2020-21

Date: 21.11.2020

This is to bring to notice of all citizens of Bengaluru that Bangalore Metro Rail Corporation Limited (BMRCL) had submitted the application to the undersigned for removal of trees between East End Road and CSB Junction for a length of 2.66 km in the road going from R.V. Road to HSR Layout via Marenahalli Road. Details are given below:

| | | |
|--|--|--|
| Name of the Project | Construction of Metro Viaduct and Stations between RV Road and HSR Layout via Marenahalli Road (Reach-5 Package-3). | |
| Agency | Bangalore Metro Rail Corporation Limited | |
| Purpose for removal of tree(s) | Infringing Construction Activities of Metro Rail Project and Traffic Movement. | |
| Description of the area with clear demarcation of boundaries or with GPS readings | Between East End Road and CSB Junction for a length of 2.66 km with following co-ordinates. 1. Lat N 12° 55' 03.6" and Long E 77° 35' 49.1" (Starting Point) 2. Lat N 12° 54' 57.3" and Long E 77° 37' 20.6" (End Point) | |
| Enumeration of trees 1. Total no trees standing in the project area 2. Total no. of trees proposed to be removed | 147 (Annexure-I) 15 (Annexure-II) | Description of Trees, species, location, Area Map etc are uploaded in the website of BBMP for information of all. (www.bbmp.gov.in) |
| Mode of communication of comments (Public can send their comments either by E-mail / Post / Hand) | Address: The Deputy Conservator of Forest (Tree Officer, BBMP) Ground Floor, Annex-3 Building, N.R. Square, Bangalore-560001. Email ID: tree.officer@bbmp.gov.in | |
| Deadline for filing objections | Ten (10) days from the date of Publication of this notification *Comments should be relevant and specific to the project | |

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


21/11/20
Deputy Conservator of Forests
(Tree Officer, BBMP)
Bangalore

ನಂ. DCF/PR/27/2020-21

ದಿನಾಂಕ: 21.11.2020

ಪತ್ರಿಕಾ ಪ್ರಕಟಣೆ

ಈ ಮೂಲಕ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಮತ್ತು ಸುತ್ತಮುತ್ತಲಿನ ಸಮಸ್ತ ನಾಗರಿಕರ ಗಮನಕ್ಕೆ ತರುವುದೇನೆಂದರೆ, ಆರ್.ವಿ. ರಸ್ತೆ ಇಂದ ಪೆ.ಎಸ್.ಆರ್. ಲೇಔಟ್ (ಮಾರೇನಹಳ್ಳಿ ರಸ್ತೆ ಮುಖಾಂತರ) ಮಾರ್ಗದಲ್ಲಿನ ಈಸ್ಟ್ ಎಂಡ್ ರಸ್ತೆ ಇಂದ ಪಿ.ಎಸ್.ಜಿ ಜಂಕ್ಷನ್ ವರೆಗಿನ 2.66 ಕಿ.ಮೀ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ನಡೆಯುತ್ತಿರುವ ಮೆಟ್ರೋ ಕಾಮಗಾರಿಗಾಗಿ ಅಡ್ಡ ಬರುತ್ತಿರುವ ಮರಗಳ ತೆರವಿಗಾಗಿ ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲು ನಿಗಮ ನಿಯಮಿತವು ಮನವಿ ಸಲ್ಲಿಸಿದ್ದು, ವಿವರಗಳು ಕೆಳಕಂಡಂತಿರುತ್ತವೆ.

| | | |
|---|--|---|
| ಯೋಜನೆಯ ಹೆಸರು | ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲು ನಿಗಮ ನಿಯಮಿತ ವಯವಸ್ಥೆ ಮತ್ತು ಸ್ಟೇಷನ್ ಕಾಮಗಾರಿ ಆರ್.ವಿ. ರಸ್ತೆಯಿಂದ ಪೆ.ಎಸ್.ಆರ್. ಲೇಔಟ್ (ಮಾರೇನಹಳ್ಳಿ ರಸ್ತೆ ಮುಖಾಂತರ) (ರೀಡ್-5, ಪ್ಯಾಕೇಜ್-3). | |
| ಎಜೆನ್ಸಿಯ ಹೆಸರು | ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲು ನಿಗಮ ನಿಯಮಿತ | |
| ಮರ ತೆರವು ಗೊಳಿಸುವ ಉದ್ದೇಶ | ಮೆಟ್ರೋ ರೈಲು ಕಾಮಗಾರಿಗೆ ಅಡ್ಡ ಬರುತ್ತಿರುವುದರಿಂದ ಮತ್ತು ಸಂಚಾರ ದಟ್ಟಣೆಯನ್ನು ಕಡಿಮೆ ಮಾಡಲು. | |
| ಯೋಜನೆಯ ಬರುತ್ತಿರುವ ಪ್ರದೇಶದ ಜಿ.ಪಿ.ಎಸ್. ರೀಡಿಂಗ್ | ಈಸ್ಟ್ ಎಂಡ್ ರಸ್ತೆ ಇಂದ ಪಿ.ಎಸ್.ಜಿ ಜಂಕ್ಷನ್ ವರೆಗಿನ 2.66 ಕಿ.ಮೀ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಬರುವ ನಿರ್ದೇಶಾಂಕಗಳು. 1. Lat N 12° 55' 03.6" and Long E 77° 35' 49.1" (ಪ್ರಾರಂಭ) 2. Lat N 12° 54' 57.3" and Long E 77° 37' 20.6" (ಅಂತ್ಯ) | |
| ಯೋಜನಾ ಪ್ರದೇಶದಲ್ಲಿ ಪ್ರಸ್ತುತ ಇರುವ ಮರಗಳು | 147 (Annexure-I) | ಮರಗಳ ವಿವರ. ಜಾತಿ. |
| ಯೋಜನಾ ಪ್ರದೇಶದಲ್ಲಿ ತೆರವು ಗೊಳಿಸಬೇಕಾದ ಮರಗಳು | 15 (Annexure-II) | ಮರಗಳಿರುವ ಜಾಗ. ನಕಾಶೆಗಳ ವಿವರಗಳನ್ನು ಬಿಬಿಎಂಪಿ ವೆಬ್ ಸೈಟ್‌ನಲ್ಲಿ ಮಾಹಿತಿಗಾಗಿ ಒದಗಿಸಲಾಗಿದೆ. (www.bbmp.gov.in) |
| ಆಕ್ಷೇಪಣೆಗಳನ್ನು ಸಲ್ಲಿಸುವ ವಿಧಾನ (ಸಾರ್ವಜನಿಕರು ನೇರವಾಗಿ/ಇ-ಮೇಲ್/ಅಂಚೆ ಮುಖಾಂತರ ಈ ಕೆಳಸಹಿದಾರರ ಕಛೇರಿಗೆ ಸಲ್ಲಿಸಬಹುದು) | ವಿಳಾಸ: ಉಪ ಅರಣ್ಯ ಸಂರಕ್ಷಣಾಧಿಕಾರಿ, (ವೃಕ್ಷಾಧಿಕಾರಿ, ಬಿಬಿಎಂಪಿ) ಸೆಲಮಹಡಿ, ಅನೇಕ್ ಬಲ್ಡಿಂಗ್ -3, ಎಸ್.ಆರ್. ವೃತ್ತ, ಬೆಂಗಳೂರು -560001. Email ID: dcfbbmp@yahoo.co.in | |
| 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.

ಉಪ ಅರಣ್ಯ ಸಂರಕ್ಷಣಾಧಿಕಾರಿ,
(ವೃಕ್ಷಾಧಿಕಾರಿ, ಬಿಬಿಎಂಪಿ)
ಬೆಂಗಳೂರು



BRUHAT BANGALORE MAHANAGARA PALIKE

No: DCF/PR. 27/2020-21

Office of the
Deputy Conservator of Forests
Bruhat Bangalore Mahanagara Palike
N.R. Square Annex Building-3
Bengaluru, dated: 21.11.2020

To
The Public Relation Officer
Bangalore Metro Rail Corporation Ltd.,
Shanthinagra
Bengaluru-27

Sir,

Sub: Publishing a Public Notice regarding removal/translocation
of trees in East end road to CSB junction (Reach-5, Package-3
of BMRCL)

In pursuance of the discussions held on 21.11.2020 in the Chambers of Additional Chief Secretary to Government F&E, a public notice has to be issued for removal/savings of tree in Reach-5 of BMRCL project. A Public Notice to be issued as per Karnataka Preservation of Trees Act, 1976 is prepared and enclosed which may be arranged to be published both in English and Kannada leading News paper on behalf of BBMP.

Yours faithfully

Tree Officer and
Deputy Conservator of Forests,
Bruhat Bangalore Mahanagara Palike.



BRUHAT BANGALORE MAHANAGARA PALIKE

Office of the Deputy Conservator of Forests
Bruhat Bangalore Mahanagara Palike, N.R. Square,
Annex-3 Building, Bengaluru

No. : DCF/PR/27/2020-21

Date: 21.11.2020

PUBLIC NOTICE

This is to bring to notice of all citizens of Bengaluru that Bangalore Metro Rail Corporation Limited (BMRCL) had submitted the application to the undersigned for removal of trees between East End Road and CSB Junction for a length of 2.66 km in the road going from R.V. Road to HSR Layout via Marenahalli Road. Details are given below:

| | | |
|---|---|--|
| Name of the Project | Construction of Metro Viaduct and Stations between RV Road and HSR Layout via Marenahalli Road (Reach-5 Package-3). | |
| Agency | Bangalore Metro Rail Corporation Limited | |
| Purpose for removal of tree(s) | Infringing Construction Activities of Metro Rail Project and Traffic Movement. | |
| Description of the area with clear demarcation of boundaries or with GPS readings | Between East End Road and CSB Junction for a length of 2.66 km with following co-ordinates. 1. Lat N 12° 55' 03.6" and Long E 77° 35' 49.1" (Starting Point) 2. Lat N 12° 54' 57.3" and Long E 77° 37' 20.6" (End Point) | |
| Enumeration of trees | | Description of Trees, species, location, Area Map etc are uploaded in the website of BBMP for information of all. (www.bbmp.gov.in) |
| 1.Total no trees standing in the project area | 147 (Annexure-I) | |
| 2. Total no. of trees proposed to be removed | 15 (Annexure-II) | |
| Mode of communication of comments (Public can send their comments either by E-mail/Post/Hand) | Address: The Deputy Conservator of Forests (Tree Officer, BBMP) Ground Floor, Annex-3 Building, N.R. Square, Bengaluru-560001. Email ID: dcfbbmp12@gmail.com The documents can be verified in the office of the undersigned during office hours. | |
| Deadline for filing objections | Ten (10) days from the date of Publication of this notification *Comments should be relevant and specific to the project | |

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

Sd/- Deputy Conservator of Forests, (Tree Officer, BBMP) Bengaluru

STAY PROTECTED FROM COVID-19, NO CARELESSNESS UNTIL THERE IS A CURE.



Wear Mask



6 Feet
Follow Physical Distancing



Maintain Hand Hygiene



ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಉಪ ಅರಣ್ಯ ಸಂರಕ್ಷಣಾಧಿಕಾರಿಗಳ ಕಛೇರಿ, ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ,
ಎಸ್.ಆರ್.ವೃತ್ತ, ಅನೇಕ್ ಕಟ್ಟಡ-3, ಬೆಂಗಳೂರು

ಸಂಖ್ಯೆ : ಡಿಪಿಎಫ್/ಪಿಆರ್/27/2020-21

ದಿನಾಂಕ: 21.11.2020

ಸಾರ್ವಜನಿಕ ಪ್ರಕಟಣೆ

ಈ ಮೂಲಕ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಮತ್ತು ಸುತ್ತಮುತ್ತಲಿನ ಸಮಸ್ತ ನಾಗರಿಕರ ಗಮನಕ್ಕೆ ತರುವುದೇನೆಂದರೆ, ಆರ್.ಪಿ. ರಸ್ತೆ ಇಂದ ಹೆಚ್.ಎಸ್.ಆರ್ ಲೇಔಟ್ (ಮಾರೇನಹಳ್ಳಿ ರಸ್ತೆ ಮುಖಾಂತರ) ಮಾರ್ಗದಲ್ಲಿನ ಈಸ್ಟ್ ಎಂಡ್ ರಸ್ತೆ ಇಂದ ಸಿ.ಎಸ್.ಬಿ ಜಂಕ್ಷನ್ ವರೆಗಿನ 2.66 ಕಿ.ಮೀ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ನಡೆಯುತ್ತಿರುವ ಮೆಟ್ರೋ ಕಾಮಗಾರಿಗಾಗಿ ಅಡ್ಡ ಬರುತ್ತಿರುವ ಮರಗಳ ತೆರವಿಗಾಗಿ ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲು ನಿಗಮ ನಿಯಮಿತವು ಮನವಿ ಸಲ್ಲಿಸಿದ್ದು, ವಿವರಗಳು ಕೆಳಕಂಡಂತಿರುತ್ತವೆ.

| | | |
|---|--|---|
| ಯೋಜನೆಯ ಹೆಸರು | ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲು ನಿಗಮ ನಿಯಮಿತ ವಯಾಡಕ್ಟ್ ಮತ್ತು ಸ್ಟೇಷನ್ ಕಾಮಗಾರಿ ಆರ್.ಪಿ. ರಸ್ತೆಯಿಂದ ಹೆಚ್. ಎಸ್. ಆರ್. ಲೇಔಟ್ (ಮಾರೇನಹಳ್ಳಿ ರಸ್ತೆ ಮುಖಾಂತರ) (ಉಚ್-5, ಪ್ಯಾಕೇಜ್-3). | |
| ವಿಜ್ಞೇಪನೆಯ ಹೆಸರು | ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲು ನಿಗಮ ನಿಯಮಿತ | |
| ಮರ ತೆರವುಗೊಳಿಸುವ ಉದ್ದೇಶ | ಮೆಟ್ರೋ ರೈಲು ಕಾಮಗಾರಿಗೆ ಅಡ್ಡ ಬರುತ್ತಿರುವುದರಿಂದ ಮತ್ತು ಸಂಚಾರ ದಟ್ಟಣೆಯನ್ನು ಕಡಿಮೆ ಮಾಡಲು. | |
| ಯೋಜನೆಯು ಬರುತ್ತಿರುವ ಪ್ರದೇಶದ ಜಿ.ಪಿ.ಎಸ್. ರೀಡಿಂಗ್ | ಈಸ್ಟ್ ಎಂಡ್ ರಸ್ತೆಯಿಂದ ಸಿ.ಎಸ್.ಬಿ ಜಂಕ್ಷನ್ ವರೆಗಿನ 2.66 ಕಿ.ಮೀ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಬರುವ ನಿರ್ದೇಶಾಂಕಗಳು. 1. Lat N 12° 55' 03.6" and Long E 77° 35' 49.1" (ಪ್ರಾರಂಭ) 2. Lat N 12° 54' 57.3" and Long E 77° 37' 20.6" (ಅಂತಿಮ) | |
| ಯೋಜನಾ ಪ್ರದೇಶದಲ್ಲಿ ಪ್ರಸ್ತುತ ಇರುವ ಮರಗಳು | 147 (Annexure-I) | ಮರಗಳ ವಿವರ, ಜಾತಿ, ಮರಗಳಿರುವ ಜಾಗ, ನಕಾಶೆಗಳ ವಿವರಗಳನ್ನು ಜಬ್ಬಿಯು ವೆಬ್‌ಸೈಟ್‌ನಲ್ಲಿ ಮೂಡಿಸಿಗಾಗಿ ಒದಗಿಸಲಾಗಿದೆ. (www.bbmp.gov.in) |
| ಯೋಜನಾ ಪ್ರದೇಶದಲ್ಲಿ ತೆರವುಗೊಳಿಸಬೇಕಾದ ಮರಗಳು | 15 (Annexure-II) | |
| ಅಕ್ಷೇಪಣೆಗಳನ್ನು ಸಲ್ಲಿಸುವ ವಿಧಾನ (ಸಾರ್ವಜನಿಕರು ಸೇರವಾಗಿ/ ಇ-ಮೇಲ್/ಅಂಚೆ ಮುಖಾಂತರ ಈ ಕೆಳಕಂಡವರ ಕಛೇರಿಗೆ ಸಲ್ಲಿಸಬಹುದು) | ವಿಳಾಸ: ಉಪ ಅರಣ್ಯ ಸಂರಕ್ಷಣಾಧಿಕಾರಿ, (ವೃಕ್ಷಾಧಿಕಾರಿ, ಬಿಬಿಎಂಪಿ) ನೆಲಮಹಡಿ, ಅನೇಕ್ ಬಿಲ್ಡಿಂಗ್ -3, ಎಸ್.ಆರ್. ವೃತ್ತ, ಬೆಂಗಳೂರು -560001. Email ID: dcfbbmp12@gmail.com ದಾಖಲೆ ಪತ್ರಗಳನ್ನು ಕೆಳಕಂಡವರ ಕಚೇರಿಯಲ್ಲಿ ಕಚೇರಿ ಕೆಲಸದ ವೇಳೆಯಲ್ಲಿ ಪರಿಶೀಲಿಸಬಹುದು. | |
| ಅಕ್ಷೇಪಣೆಗಳನ್ನು ಸಲ್ಲಿಸಬೇಕಾದ ಅವಧಿ | ಈ ಪ್ರಕಟಣೆ ಹೊರಡಿಸಿದ ದಿನಾಂಕದಿಂದ 10 ದಿನಗಳೊಳಗಾಗಿ. ಸೂಚನೆ: ಅಕ್ಷೇಪಣೆಗಳು ಪ್ರಸ್ತಾವಿತ ಯೋಜನೆಗೆ ಮಾತ್ರ ಸಂಬಂಧಿಸಿರಬೇಕು. | |

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

ಸಹಿ/- ಉಪ ಅರಣ್ಯ ಸಂರಕ್ಷಣಾಧಿಕಾರಿ, (ವೃಕ್ಷಾಧಿಕಾರಿ, ಬಿಬಿಎಂಪಿ) ಬೆಂಗಳೂರು

ದೋಷಿಡ್-19. ಆತಂಕರ ವೇದ; ಮುನ್ನಿಚ್ಛರಿಕೆ ಇರಂ.



ಮಾಸ್ಕ್ ಧರಿಸಿ



6 ಅಡಿ
ದೈಹಿಕ ಅಂತರ
ಪಾಲಿಸಿ



ಲೈಗಳ ಪ್ರಜ್ಞತೆ
ಕಾಪಾಡಿಕೊಳ್ಳಿ

**BRUHAT BANGALORE MAHANAGARA PALIKE**

Office of the Deputy Conservator of Forests
Bruhat Bangalore Mahanagara Palike, N.R. Square,
Annex-3 Building, Bengaluru

No. : DCF/PR/27/2020-21

Date: 21.11.2020

PUBLIC NOTICE

This is to bring to notice of all citizens of Bengaluru that Bangalore Metro Rail Corporation Limited (BMRCL) had submitted the application to the undersigned for removal of trees between East End Road and CSB Junction for a length of 2.66 km in the road going from R.V. Road to HSR Layout via Marenahalli Road. Details are given below:

| | | |
|--|---|--|
| Name of the Project | Construction of Metro Viaduct and Stations between RV Road and HSR Layout via Marenahalli Road (Reach-5 Package-3). | |
| Agency | Bangalore Metro Rail Corporation Limited | |
| Purpose for removal of tree(s) | Infringing Construction Activities of Metro Rail Project and Traffic Movement. | |
| Description of the area with clear demarcation of boundaries or with GPS readings | Between East End Road and CSB Junction for a length of 2.66 km with following co-ordinates. 1. Lat N 12° 55' 03.6" and Long E 77° 35' 49.1" (Starting Point) 2. Lat N 12° 54' 57.3" and Long E 77° 37' 20.6" (End Point) | |
| Enumeration of trees | | Description of Trees, species, location, Area Map etc are uploaded in the website of BBMP for information of all. (www.bbmp.gov.in) |
| 1.Total no trees standing in the project area | 147 (Annexure-I) | |
| 2. Total no. of trees proposed to be removed | 15 (Annexure-II) | |
| Mode of communication of comments (Public can send their comments either by E-mail/Post/Hand) | Address: The Deputy Conservator of Forests (Tree Officer, BBMP) Ground Floor, Annex-3 Building, N.R. Square, Bengaluru-560001. Email ID: dcfbbmp12@gmail.com The documents can be verified in the office of the undersigned during office hours. | |
| Deadline for filing objections | Ten (10) days from the date of Publication of this notification *Comments should be relevant and specific to the project | |

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

Sd/- Deputy Conservator of Forests, (Tree Officer, BBMP) Bengaluru

STAY PROTECTED FROM COVID-19, NO CARELESSNESS UNTIL THERE IS A CURE.



Wear Mask



6 Feet
Follow Physical Distancing



Maintain Hand Hygiene

ANNEXURE-2


Proceedings of Tree Officer & DCF, BBMP

Subject: Objections / Suggestions from the public regarding removal of trees from area of Reach-5 Package-3 metro line

Application No. BMRCL/REACH 5/PHASE 2/PKG 3/TREES/BBMP/20/2879, Dt:20.11.2020

1. Bangalore Metro Rail Corporation (BMRCL) had applied on **20.11.2020** under section 8(2) and 8(3)(vii) of the Karnataka Preservation of Trees Act (henceforth mentioned as the Act) seeking permission to remove **15 trees** from the area of **Reach-5 Package-3**.
2. A public notice 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 **Vijaya Karnataka** and **Deccan Herald**, newspapers on **23.11.2020**, and **Times of India** newspaper on **24.11.2020**. 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 **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, **8** objections / suggestions were received. Those include exploring possibility of change of alignment to save trees, holding a public meeting, calling objections after publishing the tree expert committee's report, excluding traffic movement infringement from scope of the metro project, deciding the removal based on heritage value and age of trees, and allowing felling of trees after exhausting all other options. One objector in particular has misunderstood that all trees in the project area number **147 trees** are to be felled, whereas the proposal is for felling of **15 trees** only.
4. These objections have been considered carefully. Regarding the possibility of change in the alignment, discussions were held with BMRCL engineers. The change in the alignment is neither feasible nor practical. The widening of the road or construction of the diversion road are integral parts of the metro project. The trees sought to be removed for infringing the traffic movement have been identified in consultation with the Traffic Police and BBMP. As per the Act and the procedure formulated by the TEC, the objections are to be called at the first stage itself and not after preparation of the report. The assessment to decide suitability for translocation is done based on several factors which do not require precise estimation of the age. Further, heritage value is an amorphous term for the present context. The specific remarks and findings for the 8 objections are contained in the Annexure to these proceedings.
5. In all cases of tree removal, the first attempt would be to translocate, as feasible and practical based on the objective assessment and expert opinion. Only thereafter, option of felling will be taken up. The extent of compensatory plantation would be in ratio of 1:10.
6. The suitability of each tree for on-site retention or translocation should be assessment through inspection of each tree and the findings along with these proceedings should be placed before the Tree Expert Committee.

Date:-12.12.2020


Tree Officer
&
DEPUTY CONSERVATOR OF FORESTS
Deputy Conservator of Forest, BBMP
BRUHAT BANGALORE MAHANAGARA PALIKE
BENGALURU.

| Remarks and findings of Tree Officer to the objections received from the Public for Reach-5, Package-3 area | | | |
|---|--|---|--|
| Sl. No | Name & Date | Nature of objections/comments | Remarks and findings of Tree Officer |
| 1. | Raja Shekar raja.mcshekar@gmail.com ಟಿ ರಾಜಶೇಖರಯ್ಯ ವಕೀಲರು ಸಮಾಜಸೇವಕರು 24.11.2020 | ಈಗಾಗಲೇ ಬೆಂಗಳೂರಿನಲ್ಲಿ ರೈಲಿಗಾಗಿ ಬಹಳ ಪುಷ್ಕರಗಳ ಮಾರಣಹೋಮ ನಡೆಸಿದ್ದೀರ. ನಾವು ರೈಲ್ವೆ ದುರಸ್ತಿ ಕಾಮಗಾರಿಗಳಿಗೆ ಲಭ್ಯವಿರುವ ಸಾಧ್ಯತೆಗಳನ್ನು ದೃಢೀಕರಿಸಿ, ಇಲಾಖೆಯವರು ಈ ಕಾಮಗಾರಿಗಳನ್ನು ಕೈಗೆತ್ತಿಕೊಳ್ಳುವುದು ಕಡ್ಡಾಯವಾಗಿದೆ. ಕಡ್ಡಾಯವಾಗಿ ಕೆಲಸ ಮಾಡಬೇಕಾಗಿರುವಂತಿರಬಹುದು. ಇದಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ ಪೂರ್ಣ ವಿವರಣೆ ಕೊಡಬೇಕಾಗಿರುವಂತಿರಬಹುದು. | The change in alignment of metro is not feasible. Permission for removal is given when it is essential only. Possibility of translocation of trees is explored first. BMRCL is also directed to take-up compensatory plantation in ratio of 1:10. |
| 2. | S Umesh Cubbon Park walkers Association No: 93, 9th cross, SR Nagar, Lakkasandra, Bangalore-30 advocate.umesh2007@gmail.com | We request to have meeting preferably in the BBMP HO and hold discussions and the meeting date and time published in all newspapers and also officially announced in the BBMP Commissioner Social Media site and also in the BBMP official web site too for public to attend. | No meeting has been envisaged. All objections received from the public are being duly considered. |
| 3. | Vishali Movva vaishali.movva@keystone.law | objection contains of 78 pages which becomes part and parcel of the WP:17841/2018 | Whatever remarks were within the purview of this office has been taken into consideration. The remarks following beyond the authority of the office have been transmitted to the BMRCL. |
| 4. | Green FootPrint contactgreenfootprint@gmail.com | At the outset we would like to point out that BMRCL does not have any right or authority to seek the felling of trees on the ground of the trees "infringing traffic movement" as BMRCL does not have jurisdiction over management or regulation of traffic movement in the city of Bangalore. On this ground alone, the application for tree felling made by BMRCL and the public notice issued in this regard are both void ab initio. As per the judgment of the High Court of Karnataka in the Public Interest litigation petition filed by D M Devare and Bangalore Environment Trust | The removal of these trees has become necessary due to following reasons: i) Due to widening of the road, the trees are in the main carriageway. ii) They are in the diversion roads to facilitate metro construction. iii) Traffic police, while giving permission for the metro work, has asked for removal of these trees. |
| 5. | krishnanveena@gmail.com | At the outset we would like to appreciate your offices for strictly adhering to the requirement of issuing a public notice with regard to the proposed tree felling. We refer to the public notice dated 21/11/2020 with regard to the proposed tree felling for the | |

| Remarks and findings of Tree Officer to the objections received from the Public for Reach-5, Package-3 area | | | |
|---|-------------|--|---|
| Sl. No | Name & Date | Nature of objections/comments | Remarks and findings of Tree Officer |
| | | <p>construction of Metro Viaduct and Stations between RV Road and HSR Layout via Marenahalli Road (Reach-5 Package-3) by Bangalore Metro Rail Corporation Limited ("BMRCL"), wherein the purpose of removal of trees has been denoted as "infringing construction activities of metro rail project and traffic movement".</p> <p>We are not clear as to what manner of right or authority BMRCL has, to seek the felling of trees on the ground of the trees "infringing traffic movement" as in our view, BMRCL does not have jurisdiction over management or regulation of traffic movement in the city of Bangalore.</p> <p>As you are aware, pursuant to the judgment in the Public Interest Litigation petition filed by Dattatreya M Devare and Bangalore Environment Trust, the of the High Court of Karnataka ordered the constitution of a Tree Committee was consisting of experts of environment, science, technology and related fields for the preservation of trees and that the Tree Committee constituted should submit in writing the procedure and criteria for arriving at the number and type of trees to be axed and should issue its Report. Most importantly, whenever there is a proposal for felling of trees, the Expert Committee should examine whether the trees proposed to be felled could be saved by adopting any method and felling of trees should be considered only if it is found that after exhausting all methods, it is found that it is impossible to save any tree. In fact, as you are aware, on November 20, 2020, the High Court has restrained BMRCL from cutting any trees for its project between Gottigere and Nagawara, despite the Expert Committee having tabled its Report, since the Expert Committee had given general reasons for cutting all the trees. The High Court had opined that even felling one single tree could have an adverse impact on the environment, as once a tree is felled, it is permanently lost. Hence, the Expert Committee was directed to conduct a fresh exercise for trees to be felled.</p> <p>We also respectfully submit that the details of the trees sought to be felled, as submitted</p> | <p>The removal of these trees has become necessary due to following reasons:</p> <p>i) Due to widening of the road, the trees are in the main carriageway.</p> <p>ii) They are in the diversion roads to facilitate metro construction.</p> <p>iii) Traffic police, while giving permission for the metro work, has asked for removal of these trees.</p> <p>The process formulated by the Tree Expert Committee and approved by the High Court is being followed strictly.</p> |

| Remarks and findings of Tree Officer to the objections received from the Public for Reach-5, Package-3 area | | | |
|--|-----------------------------------|---|---|
| Sl. No | Name & Date | Nature of objections/comments | Remarks and findings of Tree Officer |
| | | <p>by BMRCL do not set out the age of the trees.</p> <p>Prior to passing any order on the felling of trees, the Heritage Committee constituted under the provisions of the Zonal Regulations (Amendment) 2020 should also be consulted and involved as the trees constitute natural heritage precincts as per the provisions thereunder.</p> <p>We would like to state that the roles, responsibilities and functions discharged by you pursuant to your appointment are commendable and we recognize in you, your role as the guardian of the city's greenery. Whilst we are all for the Metro and other public utility projects, these projects should be planned in such a way that the greenery of the city is not compromised in any manner.</p> <p>Therefore we humbly request you to withdraw the public notice, call upon the Tree Committee to issue its Report, table the Report of the Tree Committee before the general public and then re-issue a public notice and call for objections from the general public.</p> | <p>It is neither required as per the law nor it is practical to make this assessment.</p> <p>There is no such requirement.</p> <p>BMRCL is being directed to translocate the trees, as feasible and practical, and to take-up compensatory plantation in ratio 1:10.</p> <p>The objections from the public are to be called at the beginning itself and not after finalization of the report.</p> |
| 6. | Rama ani 1729.aniket@gmail.com | <p>Recently I read a public notice about "Removal of trees between East End Road and CSB Junction".</p> <p>The activities of 'Metro Rail Project and Traffic movements' is the purpose mentioned the notice</p> <p>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.</p> | <p>Metro is meant for facilitating sustainable growth by way of reduction in pollution. The adverse impact due to removal of trees is sought to be mitigated by translocation of trees, as feasible and practical, and by compensatory plantation.</p> |
| 7. | Raja Shekar 24.11.2020 | <p>ಈ ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ ನೀವು ಕೊಟ್ಟಿರುವ ವಿವರಣೆ ಮೆಟ್ರೋ ರೈಲು ಮಾರ್ಗ ರಿಚ್ 5 ಪಾಕ್ಜೇಜ್ 3 ನಲ್ಲಿ 147 ಮರಗಳನ್ನು ಕಡೆಯುವುದರ ವಿವರಣೆ</p> | <p>The change in alignment of metro is not feasible. Permission for removal is given when it is essential only. Possibility of translocation of</p> |

| Remarks and findings of Tree Officer to the objections received from the Public for Reach-5, Package-3 area | | | |
|--|---------------------------|---|--|
| Sl. No | Name & Date | Nature of objections/comments | Remarks and findings of Tree Officer |
| | | <p>ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲು ನಿಗಮ ನಿಯಮಿತ ಈಗಾಗಲೇ ಬೆಂಗಳೂರಿನಲ್ಲಿ ರೈಲಿಗಾಗಿ ಬಹಳಷ್ಟು ಮರಗಳ ಮಾರಣಹೋಮ ನಡೆಸಿದ್ದೀರ ನಾವು ರೈಲ್ವೆ ಬದುಕಬಹುದು ಆದರೆ ಮರಗಳಿಲ್ಲದೆ ಬದುಕಲು ಸಾಧ್ಯವಿಲ್ಲ ಆದ್ದರಿಂದ ಅರಣ್ಯ ಇಲಾಖೆಯವರು ಈ ಮರಗಳನ್ನು ಕಡಿಯದೆ ಪಕ್ಕದಲ್ಲಿ ಎಲ್ಲಾಧರೂ ಮೆಟ್ರೋ'ರೈಲಿಗೆ ವ್ಯವಸ್ಥೆಯನ್ನು ಮಾಡಿಕೊಡಬೇಕಾಗಿ ವಿನಂತಿಸಿಕೊಳ್ಳುತ್ತಿದ್ದೇನೆ ಇದಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ ಪೂರ್ಣ ವಿವರಣೆ ಕೊಡಬೇಕಾಗಿ ವಿನಂತಿ ಕೊಳ್ಳುತ್ತೇನೆ.</p> | <p>trees is explored first. BMRCL is also directed to take-up compensatory plantation in ratio of 1:10.</p> |
| 8. | Raja Shekar 01.12.2020 | <p>Recently I read a public notice about "Removal of trees between East End Road and CSB Junction". The activities of 'Metro Rail Project and Traffic movements' 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. So please consider my objection to "tree removal between East End Road and CSB Junction".</p> | <p>Metro is meant for facilitating sustainable growth by way of reduction in pollution. The adverse impact due to removal of trees is sought to be mitigated by translocation of trees, as feasible and practical, and by compensatory plantation.</p> |

ANNEXURE-3

Annexure 3

Submission of preliminary assessment by Tree Officer to Tree Expert Committee in respect of application No. BMRCL/REACH 5/PHASE 2/PKG3/TREES/BBMP/20 dated 20.11.2020 of BMRCL for removal of 15 trees from RV Road to HSR Layout area.

Application No. BMRCL/REACH 5/PHASE 2/PKG 3/TREES/BBMP/20 Dt : 20.11.2020

To,

Date:-15.12.2020

The Member-Secretary
Tree Expert Committee
Bengaluru City
&
Assistant Conservator of Forest
BBMP

Sir,

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 **15 trees from RV Road to HSR Layout** area for construction of **viaduct and Stations between RV Road to HSR layout, Reach-5, Package-3.**

2. A public notice 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 **Vijaya Karnataka** and **Deccan Herald**, newspapers on **23.11.2020**. and **Times of India** newspaper on **24.11.2020**. 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 **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 **08** 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 **15** trees were inspected personally by me on **12.12.2020**. 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 have considered whether enough space as "tree protection zone" will be available, if a particular tree is to be retained at its present location.

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

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

8. After carrying out the above detailed inspection and the assessment, I have drawn up the proceedings of my consideration of the objections received from the public in response to the public notice. An abstract of the review of the application in Template No.3 (Part-1), a set of the public notices, a complete set of the objections, 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 also enclosed to this submission. Total **15** number of Forms are enclosed.

10. A statement detailing the tree details, preliminary assessment and justification for on-site retention / translocation / felling is also enclosed as Annexure.

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

Thanking you.



Tree Officer

&
TREE OFFICER

Deputy Conservator of Forest
Bengaluru (Urban) District
BRUHAT BANGALORE MAHANAGARA PALIKE
BENGALURU.

Date:- 15.12.2020.

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

Application No: BMRCL/REACH 5/PHASE 2/PKG 3/TREES/BBMP/20/2879 dated: 20.11.2020

Project Area: RV Road to HSR layout, Reach-5, Package-3.

| Sl No | Tree Number | Species | GBH (m) | Height (m) | Crown Spread (m) | Preliminary Assessment (Onsite Retention / Translocation / Felling) | Justification |
|-------|-------------|------------|---------|------------|------------------|---|--|
| 1 | 1 | Rain Tree | 3.5 | 15.00 | 10 | Felling | Rain tree: Tree is infringing with the erection and stressing of cantilever wing span of Road-cum-Rail structure at RP-98 and moreover silviculturally matured. Hence it is recommended for felling. |
| 2 | 2 | Dalichanda | 1.0 | 12.00 | 4 | Felling | Dalichanda: Tree is infringing with the erection and stressing of cantilever wing span of Road-cum-Rail structure at RP-99 and moreover it is not fit for translocation. Hence it is recommended for felling. |
| 3 | 53 | Gulmohar | 3.2 | 10.00 | 6 | Felling | Gulmohar: Major portion of the tree is infringing with the proposed erection and stressing of cantilever wing span of Road-cum-Rail structure in between RP160 and RP161. It is silviculturally matured and comes inside the project area. Hence recommended for felling. |
| 4 | 54 | Gulmohar | 3.0 | 8.00 | 12 | Felling | Felling Gulmohar: Major portion of the tree is infringing with the proposed erection and stressing of cantilever wing span of Road-cum-Rail structure near RP164 and also tree is silviculturally matured and comes inside the project area. Hence recommended for felling. |
| 5 | 66 | Sihi Hunse | 1.5 | 6.00 | 5 | Felling | Sihihunase: Tree is infringing with the proposed Portal Foundation (RPP187/1) of Metro viaduct. Tree is silviculturally |

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| Sl No | Tree Number | Species | GBH (m) | Height (m) | Crown Spread (m) | Preliminary Assessment (Onsite Retention / Translocation / Felling) | Justification |
|-------|-------------|-----------------------|---------|------------|------------------|---|---|
| | | | | | | | matured and comes inside the project area. Hence recommended for felling. |
| 6 | 67 | Bottle Brush | 1.90 | 12.00 | 7 | Felling | Bottle Brush: Tree is infringing with the proposed Portal Foundation (RPP187/1) of Metro viaduct. Tree is silviculturally matured and comes inside the project area. Hence recommended for felling. |
| 7 | 68 | Basri (Fycus Species) | 3.8 | 10.00 | 7 | Translocation | Basari/Bottle Brush: Tree is infringing with the proposed Portal Foundation (RPP187/1) of Metro viaduct. Tree comes under project area. Recommended for Translocation |
| 8 | 69 | Bottle Brush | 0.80 | 7.00 | 4 | Felling | Bottle Brush: Tree is infringing with the proposed Portal Foundation (RPP189) of Metro viaduct and it is not fit for translocation. Hence recommended for felling. |
| 9 | 70 | bottle Brush | 0.95 | 7.00 | 4 | Felling | Bottle Brush: Tree is infringing with the proposed Portal Foundation (RPP189) of Metro viaduct. Difficult to get the root ball and moreover it is not fit for translocation. Hence recommended for felling. |
| 10 | 85 | Rain Tree | 2.7 | 12.00 | 20 | Felling | Rain Tree: The Nallah Diversion is planned at this location as the existing Nallah is proposed for construction of Metro viaduct foundation structures and also it is silviculturally matured. Hence recommended for felling. |
| 11 | 86 | Gulmohar | 2.2 | 12.00 | 6 | Felling | Gulmohar: Major portion of the tree is infringing with the proposed erection and stressing of cantilever wing span of Road-cum-Rail structure near RP166 and it is silviculturally matured. Hence recommended for felling. |
| 12 | 87 | Gulmohar | 2.3 | 12.00 | 7 | Felling | Gulmohar: Major portion of the tree is infringing with the proposed erection and stressing of cantilever wing span of Road-cum-Rail structure near RP165 and it is silviculturally matured. Hence recommended for felling. |

| SI No | Tree Number | Species | GBH (m) | Height (m) | Crown Spread (m) | Preliminary Assessment (Onsite Retention / Translocation / Felling) | Justification |
|-------|-------------|----------|---------|------------|------------------|---|---|
| 13 | 88 | Gulmohar | 2.6 | 15.00 | 12 | Felling | Gulmohar: Major portion of the tree is infringing with the proposed erection and stressing of cantilever wing span of Road-cum-Rail structure near RP164 and it is silviculturally matured. Hence recommended for felling. |
| 14 | 89 | Gulmohar | 2.5 | 8.00 | 4 | Felling | Gulmohar: Major portion of the tree is infringing with the proposed erection and stressing of cantilever wing span of Road-cum-Rail structure near RP163 and it is silviculturally matured. Hence recommended for felling. |
| 15 | 100 | Gulmohar | 1.70 | 8.00 | 5 | Felling | Gulmohar: Major portion of the tree is infringing with the proposed erection and stressing of cantilever wing span of Road-cum-Rail structure near RP152 and it is silviculturally matured and lots of damage. Hence recommended for felling. |

Summary:

| | |
|--|-----|
| Total number of Trees assessed for on-site retention | Nil |
| Total number of Trees assessed as suitable for translocation | 01 |
| Total number of Trees assessed for felling | 14 |


Tree Officer
TREE OFFICER

DEPUTY COMMISSIONER OF FORESTS
BENGALURU
BRUHAT BANGALORE PALIKE
BENGALURU.

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)

| | |
|--|--|
| Name of the user agency | Bangalore Metro Rail Corporation Limited |
| Purpose of the project | Construction of Metro Viaduct and Stations between RV Road and HSR Layout via Marenahalli Road (Reach-5, Package-3) |
| Extent of the project area | 19.02 Ha |
| Location of the project area | Between East End Road and CSB Junction for a length of 2.66 km. Start Point Lat: N 12 deg 55 mins 3.6 sec Long : E 77 deg 35 mins 49.1 sec End Point Lat: N 12 deg 54 mins 57.3 sec Long : E 77 deg 37 mins 20.6 sec |
| No. of tree(s) enumerated in the project area | 147 |
| Number of tree(s) proposed for removal by user agency | 15 |
| Number of tree(s) for on-site retention as per preliminary assessment by Tree Officer | Nil |
| Number of tree(s) for transplantation / translocation as per preliminary assessment by Tree Officer | 01 |
| Number of tree(s) for felling as per preliminary assessment by Tree Officer | 14 |

Summary of Proceedings* of consideration of objections received from public by Tree Officer

The change in the alignment is neither feasible nor practical.

The widening of the road or construction of the diversion road are integral parts of the metro project. The trees sought to be removed for infringing the traffic movement have been identified in consultation with the Traffic Police and BBMP.


As per the Act and the procedure formulated by the TEC, the objections are to be called at the first stage itself and not after preparation of the report.

The assessment to decide suitability for translocation is done based on several factors which do not require precise estimation of the age. Further, heritage value is an amorphous term for the present context.

In all cases of tree removal, the first attempt would be to translocate, as feasible and practical based on the objective assessment and expert opinion. Only thereafter, option of felling will be taken up.

* Note: Full proceedings with details should be appended.

Date:15.12.2020


RFO
ಅರಣ್ಯ ಅಧಿಕಾರಿ
ದಕ್ಷಿಣ ವಲಯ
ಅರಣ್ಯ, ಘಟಕ, ಬಿ.ಬಿ.ಎಂ.ಸಿ.


ACE
Assistant Conservator of Forest
Bruhat Bangalore Mahanagara Palike
Bangalore


Tree Officer
&
DEPUTY CONSERVATOR OF FORESTS
BRUHAT BANGALORE MAHANAGARA PALIKE
BANGALORE

ANNEXURE-4

Annexure 4

Proceedings of Tree Expert Committee meeting dated: 17.12.2020 in respect of report submitted by Tree Officer involving BMRCL application NO. BMRCL/REACH 5/PHASE 2/PKG 3/TREES/BBMP/20/2879 dated 20.11.2020 and Preliminary assessment of the trees standing in between RV Road to HSR Layout area.

Application No. BMRCL/REACH 5/PHASE 2/PKG 3/TREES/BBMP/20/2879, dt: 20.11.2020

1. The Tree Officer and Deputy Conservator of Forests, BBMP vide his letter dt. 15.12.2020 has submitted his preliminary assessment of trees regarding application filed by BMRCL pertaining to 15 number of trees for construction of viaduct and Stations between East End Road and CSB junction over a length of 2.66 Km (A segment falling under RV Road to HSR layout, Reach-5, Package-3 area for 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. A copy of public notice (dt. **21.11.2020**), 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.09.12.2020) containing tree details as furnished by Range Forest Officer and Part-II (dt.12.12.2020) containing preliminary assessment of the Tree Officer for each of 15 trees proposed 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 is to provide 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.

3. The TEC observed that total 08 number of objections have been received in response to the public notices issued. The objections mostly relate to change in alignment and preserving the greenery of Bengaluru. Few 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 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

Application No.: BMRCL/REACH 5/PHASE 2/PKG 3/TREES/BBMP/20/2879

Location: RV Road to HSR Layout for construction of Viaduct and Stations Reach-5, Package-3.

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 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")

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 standing in the project area – 147 Trees

BMRCCL proposes to retain – 132 Trees in the project area

Hence total number of trees required for removal by BMRCCL as per their application – 15 Trees


| | |
|--|-------------|
| Total number of Trees assessed in the project area | 15 |
| Total number of Trees assessed for on-site retention | Nil* |
| Total number of Trees assessed as suitable for translocation | 01 |
| Total number of Trees assessed for felling | 14 |

*Further, there are 132 other trees standing in the project area, which are not proposed to be removed by BMRCCL and hence they will be retained on site. Those trees should continue to be present at their current locations.

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

The TEC decided to visit the spot and scheduled the field inspection on **23.12.2020**.

The Tree Officer and the Representatives of BMRCCL 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

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 on the constructive suggestions of the public for the matters falling within the powers vested with him and for the remaining subjects related to matters other than trees, the same can be communicated to the Project Authority/Competent Authority for perusal and future guidance.

The TEC concurred with the findings of the Tree Officer in respect of the objections from the Public.

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.

Date:19.12.2020



Signatures

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

ANNEXURE-5

Annexure- 5

Proceedings of Tree Expert Committee regarding field inspection on 23.12.2020 for the trees standing in between East End Road and CSB junction over a length of 2.66 Km (A segment falling under RV Road to HSR layout, Reach-5, Package-3).

Application No: BMRCL/REACH 5/PHASE 2/PKG 3/TREES/BBMP/20/2879, 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 between East End Road and CSB junction over a length of 2.66 Km (A segment falling under RV Road to HSR layout, Reach-5, Package-3) was carried out by the TEC on 23.12.2020. 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 of trees, and identification of such 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 – 147 Trees (as per Public Notice)
 - b) Total number of trees present within the project area, but not hindering any of the project activities – 132 Trees (assessed by Forest Department Officers and BMRCL)
 - c) Total number of trees required for removal by BMRCL as per their application – 15 Trees

Further meticulous investigation / diagnosis 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 silviculturally 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 and found that out of 15 trees assessed, 02 trees can be retained onsite (Tree No. 1- Rain Tree, Tree No. 2- Dalichanda)
 6. The reasons reported by BMRCL Authorities for removal of remaining 13 trees was that said trees are falling under the following 3 major physical features of the Project.

| Physical features | Tree Nos. |
|---|---|
| Portal Pier Foundation area of Viaduct | 66, 67, 68, 69 & 70 (Total 05 Nos.) |
| Nallah Diversion area | 85 (Total 01 No) |
| Cantilever wing span of flyover (20m wide) of Road cum Rail structure | 53, 54, 86, 87, 88, 89 & 100 (Total 07 Nos.) |

Hence, it was verified and concluded that on-site retention of the above mentioned 13 trees was not possible.

7. In the event of tree falling within the Project activity area, next consideration was translocation of such trees. While making recommendations for translocation of the trees, the Committee considered the following conditions, in addition to the tree health / tree defects etc. as recorded in the Template 2, Part-I.
 - i. Proximity of tree to building structures, trunk's 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 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.
9. Having concluded that removal of the 13 trees from their project location is necessary, the Committee assessed the health/defects of each tree. None of the 13 trees were found to be fit enough for the translocation for the reasons connected to the tree defects or limitations on excavation of the root ball as recorded in Part-III of Template No.2 and in the statement appended to these proceedings.
10. As none of the trees in this application are to be translocated, there was no need to take-up inspection of the site for translocation.
11. Following is the summary of recommendations of the Committee based on the details as recorded and stipulated in Template-2 Part-III.

| | |
|--|-----|
| Total number of Trees examined/observed | 15 |
| Total number of Trees found suitable for on-site retention | 02 |
| Total number of Trees found suitable for translocation | Nil |
| Total number of Trees for felling | 13 |

The justification for retention of the 2 trees has been recorded in part-III of Template-2 as well as in the statement appended to these proceedings.

12. In pursuance to the instructions as mentioned in the KPT Act 1976, BMRCL should take Compensatory Afforestation by plantation of 130 saplings @ 10 saplings for each of 13 trees to be felled.
13. A statement containing recommendations and remarks along with the tree details is appended to these proceedings.


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

Appendix

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

Application No.: BMRCL/REACH 5/PHASE 2/PKG 3/TREES/BBMP/20/2879, Dated: 20.11.2020

Project Area: RV Road to HSR layout, Reach-5, Package-3.

| Sl No | Tree Number | Species | GBH (m) | Height (m) | Crown Spread (m) | Recommendation of TEC | Remarks |
|---|-------------|------------|---------|------------|------------------|-----------------------|--|
| List of trees recommended for on-site retention | | | | | | | |
| 1 | 1 | Rain Tree | 3.5 | 15.00 | 10 | Retention | <ul style="list-style-type: none"> Tree is present outside the project area Proposed construction activities (cantilever wing span / Flyover) is intruding into the canopy of tree as explained on site by BMRCL representative / field engineer. Therefore those branches alone grown towards metro lane can be pruned appropriately. |
| 2 | 2 | Dalichanda | 1.0 | 12.00 | 4 | Retention | <ul style="list-style-type: none"> Tree is present outside the project area and do not hinder any of the project activities. |

| Sl No | Tree Number | Species | GBH (m) | Height (m) | Crown Spread (m) | Recommendation of TEC | Remarks |
|---------------------------------------|-------------|----------|---------|------------|------------------|-----------------------|---|
| List of trees recommended for felling | | | | | | | |
| 1 | 53 | Gulmohar | 3.2 | 10.00 | 6 | Felling | <ul style="list-style-type: none"> Tree is present within the project area (construction of cantilever wing span / Flyover) and inclined towards the existing road / metro lane Tree is matured with severe defect at branch collar zone Excavation of applicable root ball proportionate to girth of the tree is not possible as the tree is located close to adjacent building Collar zone of the trunk is choked around by concrete structures The conditions above disqualify the tree for translocation / translocation |
| 2 | 54 | Gulmohar | 3.0 | 8.00 | 12 | Felling | <ul style="list-style-type: none"> Tree is present within the project area (construction of cantilever wing span / Flyover) and inclined towards the existing road and metro lane Tree is matured with forked branch, where the large sized branch is cut and small sized branch is decayed Excavation of applicable root ball proportionate to girth of the tree is not possible as the tree is located close to adjacent building Collar zone of the trunk is choked around by concrete structures The conditions above disqualify the tree for translocation / translocation. |

| Sl No | Tree Number | Species | GBH (m) | Height (m) | Crown Spread (m) | Recommendation of TEC | Remarks |
|-------|-------------|------------------------|---------|------------|------------------|-----------------------|---|
| 3 | 66 | SihiHunse | 1.5 | 6.00 | 5 | Felling | <ul style="list-style-type: none"> Tree is present within the project area (construction of portal / pillar foundation) Tree is forked with dead stub of a broken branch near the forked region Tree is matured with thick barks peeled /cracked in the collar region Tree with codominant trunk and included barks Excavation of root ball is not possible as drainage channel infringes the tree protection zone The conditions above disqualify the tree for translocation / translocation |
| 4 | 67 | Bottle Brush | 1.9 | 12.00 | 7 | Felling | <ul style="list-style-type: none"> Tree is present within the project area (construction of portal / pillar foundation) Tree is forked at 2m from base and inclined Tree is matured with canker face and thick barks peeled /cracked in the collar region Excavation of root ball is not possible as drainage channel infringes the tree protection zone The conditions above disqualify the tree for translocation / translocation. |
| 5 | 68 | Basri (Fycus Species) | 3.8 | 10.00 | 7 | Felling | <ul style="list-style-type: none"> Tree is present within the project area (construction of 3 legged pillar with foundation) Ninety percent of the roots of the tree are exposed, girdled and cut on all sides Excavation of root ball is not possible as drainage channel infringes the tree protection zone The conditions above disqualify the tree for translocation / translocation. |

| Sl No | Tree Number | Species | GBH (m) | Height (m) | Crown Spread (m) | Recommendation of TEC | Remarks |
|-------|-------------|--------------|---------|------------|------------------|-----------------------|---|
| 6 | 69 | Bottle Brush | 0.80 | 7.00 | 4 | Felling | <ul style="list-style-type: none"> Tree is present within the project area (construction of 3 legged pillar with foundation) Excavation of root ball is not possible as drainage channel in one side and boundary wall on the other side infringes the tree protection zone Tree is with canker face at the collar region The conditions above disqualify the tree for transplantation / translocation. |
| 7 | 70 | bottle Brush | 0.95 | 7.00 | 4 | Felling | <ul style="list-style-type: none"> Tree is forked 2m from base and present within the project area (construction of 3 legged pillar with foundation) Excavation of root ball is not possible as drainage channel in one side and boundary wall on the other side infringes the tree protection zone The conditions above disqualify the tree for transplantation / translocation. |
| 8 | 85 | Rain Tree | 2.70 | 12.00 | 20 | Felling | <ul style="list-style-type: none"> Tree has multiple (4) branches. Excavation of root ball is not possible due, tree is located in between existing drainage channel and newly constructed nala diversion canal. Tree is also silviculturally matured. The conditions above disqualify the tree for transplantation / translocation |

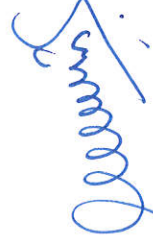
| Sl No | Tree Number | Species | GBH (m) | Height (m) | Crown Spread (m) | Recommendation of TEC | Remarks |
|-------|-------------|----------|---------|------------|------------------|-----------------------|--|
| 9 | 86 | Gulmohar | 2.2 | 12.00 | 6 | Felling | <ul style="list-style-type: none"> Tree is silviculturally matured and bent towards the existing road. Tree has hollowness and cankers on the trunk. One major branch of the tree was already pruned. Base of the trunk was mechanically damaged. The conditions above disqualify the tree for translocation / translocation. |
| 10 | 87 | Gulmohar | 2.3 | 12.00 | 7 | Felling | <ul style="list-style-type: none"> Tree is silviculturally matured Two major branches of the tree is already pruned Tree is bending towards the existing road and roots are girdled at the base of the trunk. The conditions above disqualify the tree for translocation / translocation. |
| 11 | 88 | Gulmohar | 2.6 | 15.00 | 12 | Felling | <ul style="list-style-type: none"> Major branches of the tree were already felled. Some branches of the tree were dead. Tree is having hollowness at the bottom of the trunk and having boot-trees like structure. The conditions above disqualify the tree for translocation / translocation. |

Application No.: BMRCL/REACH 5/PHASE 2/PKG 3/TREES/BBMP/20/2879
Location: Reach-5, Package-3.

| Sl No | Tree Number | Species | GBH (m) | Height (m) | Crown Spread (m) | Recommendation of TEC | Remarks |
|-------|-------------|----------|---------|------------|------------------|-----------------------|---|
| 12 | 89 | Gulmohar | 2.50 | 8.00 | 4 | Felling | <ul style="list-style-type: none"> Tree is matured and mechanically damaged. Ninety per cent of the tree was burnt. Tree is having epicormics shoots indicating that tree is under stress. The conditions above disqualify the tree for translocation / translocation |
| 13 | 100 | Gulmohar | 1.70 | 8.00 | 5 | Felling | <ul style="list-style-type: none"> Tree is over matured and two major branches of the tree was already pruned. The tree trunk is mechanically damaged. Tree is having epicormics shoots. The conditions above disqualify the tree for translocation / translocation |

Summary:

| | |
|---|-----|
| Total number of trees recommended for on-site retention | 02 |
| Total number of trees recommended as suitable for translocation | Nil |
| Total number of trees recommended for felling | 13 |



Member-Secretary, TEC
& Assistant Conservator of Forests,



ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲು ನಿಗಮ ನಿಯಮಿತೆ

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

3ನೇ ಮಹಡಿ, ಬಿ ಎಂ ಟಿ ಸಿ, ಕಾಂಪ್ಲೆಕ್ಸ್, ಕೆ.ಎಚ್. ರಸ್ತೆ, ಶಾಂತಿನಗರ, ಬೆಂಗಳೂರು - 560 027

Bangalore Metro Rail Corporation Ltd.

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

3rd Floor, BMTC Complex, K.H Road, Shantinagar, Bangalore - 560 027

Phone: 080-2296 9200, 2296 9300, Fax: 2296 9222 Web www.bmrc.co.in

BMRCL/REACH 5/PHASE2/PKG3/TREES/BBMP/20/

Date: 20.11.2020

Deputy Conservator of Forests (Tree Officer, BBMP)

4th floor, Annex building

N.R. Square

Bangalore- 560001

Sub: "Removal of trees from RV Road to HSR Layout, Reach 5-Package3, via Marenahalli Road, Ring Road and Hosur Road-Reg".

Ref: 1. Govt. order No: UDD 179 PRJ 2011, Bengaluru, Dt: 21.02.2012.

2. BMRCL/PH2/PKG3/CORRSP/BBMP/1807 dated 24.12.2019.

3. BMRCL/PH2/PKG3/TREES/BBMP/2053 dated 29.02.2020.

Bangalore Metro Rail Corporation has awarded the work of construction of Viaduct and Stations between RV Road to HSR layout, Reach-5, Package-3, to M/s. HCC URC JV. The metro construction activities are in full swing like pile/pile cap, pier/pier cap and launching of segments are in progress including metro stations.

This office vide letter under reference (2) & (3) requested for clearance of trees which are coming inside foundation of metro piers and also on road and footpath affecting the flow of traffic and hindrance for metro construction.

A total of 147 Nos of trees are standing in the project area of which 15nos are essential to be removed with permission for metro construction activities.

The request is once again compiled as per the instructions of Hon'ble High Court of Karnataka as per the attached application along with enclosures. The trees are marked in the GAD and tabulated in the statement enclosed.

It is once again requested to grant permission to remove the trees as the works of construction of metro rail project in this reach is affected.

Dy. Chief Engineer
Reach5-Package3- BMRCL

- Cc: 1. Chairman, expert committee for granting permission for felling of trees as requested above.
2. Executive Director (Civil-2) for information.

FORM I

KARNATAKA PRESERVATION OF TREES RULES, 1977

| | | |
|----|--|----|
| 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 construction activities of Metro Rail Project and Traffic movement.

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,


20/11/2020
Dy. Chief Engineer
Reach5/Package-3
BMRCL

FORM I

KARNATAKA PRESERVATION OF TREES RULES, 1977

FORM NO.I
[See Rule 4(1)]

Form of Application

Date: 20.11.2020

From,
Deputy Chief Engineer
Reach-5, Package-3
BMRCL

To,
Deputy Conservator of Forests (Tree Officer, BBMP)
4th floor, Annex building
N.R. Square
Bangalore- 560001

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. | Between East End Road to CSB Junction for a length of 2.66KM. |
| 2. | Location of the Sy. No. with Sy. Sketch. | Enclosed in Annexure-III |
| 3. | Whether the boundary of Sy. No. is clear and demarcated property on the ground | Yes |
| 4. | The number and kind of trees intended to be felled with girth of each tree (detailed list to be attached) <ul style="list-style-type: none">Total no. of trees standing in the project areaTotal no. of trees proposed to be removed | 147 (Annexure-I) 15 (Annexure-II) |
| 5. | The purpose for which the trees are to be felled (specific mention to be made about the purpose) | Infringing construction activities of Metro Rail Project and Traffic movement. |
| 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 Land and Tree growth. | NA |

04 (52)
(16)

Public Notice

It is for the information of General Public that BMRCL has undertaken the Construction of Metro Viaduct and Stations between RV Road & HSR Layout via Marenahalli Road (Reach-5 package-3). Few trees which are infringing the metro construction activities are to be removed as per the details tabulated against the required particulars as mentioned below:

| | |
|---|---|
| Name of the Project | Construction of Metro Viaduct and Stations between RV Road & HSR Layout via Marenahalli Road (Reach-5 package-3) |
| Agency | Bangalore Metro Rail Corporation Limited. |
| Purpose for removal of tree(s) | Infringing construction activities of Metro Rail Project and Traffic movement. |
| Description of the area with clear demarcation of boundaries or with GPS readings. | Section between East End Road to CSB Junction for a length of 2.66Km. 1. Starting point Lat – N 12 deg 55 min 3.5472 sec Long- E 77 deg 35 min 49.142 sec 2. Ending point Lat – N 12 deg 54 min 57.276 sec Long- E 77 deg 37 min 20.615 sec |
| Enumeration of trees . <ul style="list-style-type: none">• Total no trees standing in the project area.• Total no. of trees proposed to be removed. | 147 (Annexure I) 15 (Annexure II) |
| Mode of communication of comments <i>(public can send their comments either by E-mail/Post/hand)</i> | Address – Deputy Conservator of Forests (Tree Officer,BBMP), Ground floor, Annex-3 building, N.R. Square, Bengaluru- 560001 Email – dcfbbmp12@gmail.com |
| Deadline for filing objections <i>(10 days from the date of publication of notification)</i> | 10 days from the date of publication of notification. Comments should be relevant and specific to the project |

Details of trees, location, co-ordinates, area map etc, (Annexure- I & II) are uploaded in the website www.bbmp.gov.in for inspection of General Public for their comments if any for suitable consideration.

Date :

Tree Officer

Total number of trees standing in project area

| SL.No | Number assigned to the tree | Name of the species. | GBH (m) | Full Height (M) | GPS Location | | Remarks |
|-------|-----------------------------|--|--|----------------------|---------------------------|--------------------------|---------|
| | | (Either vernacular name or Botanical name) | (Girth at breast ht. 1.37m or 137cm from the ground) | By Visual inspection | Latitude | Longitude | |
| 1 | 1 | Rain Tree | 3.50 ✓ | 12.00 | 12 deg 55 min 0.8004 sec | 77 deg 35 min 49.06 sec | |
| 2 | 2 | Dalichanda | 1.00 | 12.00 | 12 deg 55 min 0.8076 sec | 77 deg 35 min 49.538 sec | |
| 3 | 3 | Kadu Badami | 0.90 | 8.00 | 12 deg 55 min 0.9012 sec | 77 deg 35 min 50.399 Sec | |
| 4 | 4 | Tabobia Rosia | 0.60 | 7.00 | 12 deg 55 min 0.8508 sec | 77 deg 35 min 50.888 sec | |
| 5 | 5 | Tabobia Rosia | 0.80 | 8.00 | 12 deg 55 min 0.84 sec | 77 deg 35 min 51.094 sec | |
| 6 | 6 | Rain Tree | 2.00 | 10.00 | 12 deg 55 min 0.8832 sec | 77 deg 35 min 51.209 sec | |
| 7 | 7 | Nerale (jamun) | 0.75 | 8.00 | 12 deg 55 min 0.7644 sec | 77 deg 35 min 52.62 sec | |
| | 7a | | 0.85 | | | | |
| 8 | 8 | Akasha Mallige | 0.60 | 6.00 | 12 deg 55 min 0.7608 sec | 77 deg 35 min 54.136 sec | |
| 9 | 9 | Mahagany | 2.50 | 14.00 | 12 deg 55 min 0.4548 sec | 77 deg 36 min 13.151 sec | |
| 10 | 10 | Mahagany | 1.85 | 8.00 | 12 deg 55 min 0.39 sec | 77 deg 36 min 15.246 sec | |
| 11 | 11 | Mahagany | 2.00 | 8.00 | 12 deg 55 min 0.3756 sec | 77 deg 36 min 15.61 sec | |
| 12 | 12 | Mahagany | 1.85 | 7.00 | 12 deg 55 min 0.372 sec | 77 deg 36 min 16.319 sec | |
| 13 | 13 | Mahagany | 1.40 | 7.00 | 12 deg 55 min 0.336 sec | 77 deg 36 min 16.711 sec | |
| 14 | 14 | Gulmohar | 2.30 | 8.00 | 12 deg 55 min 0.3396 sec | 77 deg 36 min 16.88 sec | |
| 15 | 15 | Mahagany | 1.80 | 12.00 | 12 deg 55 min 0.3252 sec | 77 deg 36 min 17.078 sec | |
| 16 | 16 | Mahagany | 1.90 | 12.00 | 12 deg 55 min 0.3288 sec | 77 deg 36 min 17.503 sec | |
| 17 | 17 | Mahagany | 2.20 | 12.00 | 12 deg 55 min 0.3036 sec | 77 deg 36 min 17.867 sec | |
| 18 | 18 | Mahagany | 1.65 | 12.00 | 12 deg 55 min 0.2316 sec | 77 deg 36 min 20.383 sec | |
| 19 | 19 | Mahagany | 2.45 | 11.00 | 12 deg 55 min 0.2316 sec | 77 deg 36 min 21.247 sec | |
| 20 | 20 | Mahagany | 1.75 | 8.00 | 12 deg 55 min 0.2136 sec | 77 deg 36 min 22.824 sec | |
| 21 | 21 | Mahagany | 1.65 | 8.00 | 12 deg 55 min 0.156 sec | 77 deg 36 min 23.796 sec | |
| 22 | 22 | Mahagany | 2.00 | 10.00 | 12 deg 55 min 0.1596 sec | 77 deg 36 min 24.325 sec | |
| 23 | 23 | Mahagany | 1.60 | 7.00 | 12 deg 55 min 0.1668 sec | 77 deg 36 min 24.664 sec | |
| 24 | 24 | Gulmohar | 2.50 | 4.00 | 12 deg 55 min 0.156 sec | 77 deg 36 min 24.826 sec | |
| 25 | 25 | Peltofarm | 1.70 | 10.00 | 12 deg 55 min 0.354 sec | 77 deg 36 min 31.853 sec | |
| 26 | 26 | Peltofarm | 1.50 | 10.00 | 12 deg 55 min 0.4728 sec | 77 deg 36 min 32.443 sec | |
| 27 | 27 | Peltofarm | 2.20 | 10.00 | 12 deg 55 min 0.336 sec | 77 deg 36 min 32.666 sec | |
| 28 | 28 | Peltofarm | 1.30 | 10.00 | 12 deg 55 min 0.3468 sec | 77 deg 36 min 32.904 sec | |
| 29 | 29 | Peltofarm | 1.30 | 8.00 | 12 deg 55 min 0.3252 sec | 77 deg 36 min 33.422 sec | |
| 30 | 30 | Peltofarm | 1.90 | 7.00 | 12 deg 55 min 0.3144 sec | 77 deg 36 min 33.592 sec | |
| 31 | 31 | Peltofarm | 2.00 | 13.00 | 12 deg 55 min 0.4152 sec | 77 deg 36 min 33.685 sec | |
| 32 | 32 | Mahagany | 1.50 | 10.00 | 12 deg 55 min 0.2748 sec | 77 deg 36 min 34.546 sec | |
| 33 | 33 | Mahagany | 2.30 | 10.00 | 12 deg 55 min 0.2748 sec | 77 deg 36 min 35.388 sec | |
| 34 | 34 | Peltofarm | 2.10 | 12.00 | 12 deg 55 min 0.2064 sec | 77 deg 36 min 37.048 sec | |
| 35 | 35 | Sishu | 2.20 | 10.00 | 12 deg 55 min 0.1668 sec | 77 deg 36 min 37.267 sec | |
| 36 | 36 | Gulmohar | 2.20 | 7.00 | 12 deg 54 min 59.868 sec | 77 deg 36 min 38.524 sec | |
| 37 | 37 | Gulmohar | 2.20 | 5.00 | 12 deg 54 min 59.8356 sec | 77 deg 36 min 38.873 sec | |
| 38 | 38 | Paper Tree | 1.10 | 8.00 | 12 deg 54 min 59.832 sec | 77 deg 36 min 39.222 sec | |
| 39 | 39 | Gulmohar | 2.50 | 6.00 | 12 deg 54 min 59.8284 sec | 77 deg 36 min 39.373 sec | |
| 40 | 40 | Gulmohar | 2.30 | 5.00 | 12 deg 54 min 59.8212 sec | 77 deg 36 min 39.55 sec | |
| 41 | 41 | Gulmohar | 1.80 | 5.00 | 12 deg 54 min 59.8572 sec | 77 deg 36 min 39.852 sec | |

| Sl.No | Number assigned to the tree | Name of the species. | GBH (m) | Full Height (M) | GPS Location | | Remarks |
|-------|-----------------------------|--|--|----------------------|---------------------------|--------------------------|---------|
| | | (Either vernacular name or Botanical name) | (Girth at breast ht. 1.37m or 137cm from the ground) | By Visual inspection | Latitude | Longitude | |
| 42 | 42 | Ashoka | 0.75 | 7.00 | 12 deg 55 min 0.0804 sec | 77 deg 36 min 39.852 sec | |
| 43 | 43 | Ashoka | 0.65 | 7.00 | 12 deg 55 min 0.0768 sec | 77 deg 36 min 39.953 sec | |
| 44 | 44 | Ashoka | 0.50 | 7.00 | 12 deg 55 min 0.0768 sec | 77 deg 36 min 40.057 sec | |
| | 44a | | 0.45 | | | | |
| 45 | 45 | Gulmohar | 2.40 | 8.00 | 12 deg 54 min 59.8176 sec | 77 deg 36 min 40.28 sec | |
| 46 | 46 | Gulmohar | 2.50 | 6.00 | 12 deg 54 min 59.8392 sec | 77 deg 36 min 40.583 sec | |
| 47 | 47 | Hippe | 1.30 | 6.00 | 12 deg 55 min 0.0192 sec | 77 deg 36 min 40.831 sec | |
| 48 | 48 | Gulmohar | 2.00 | 7.00 | 12 deg 54 min 59.8284 sec | 77 deg 36 min 40.925 sec | |
| | 48a | | 1.70 | | | | |
| 49 | 49 | Gulmohar | 2.70 | 5.00 | 12 deg 54 min 59.8428 sec | 77 deg 36 min 41.285 sec | |
| 50 | 50 | Gulmohar | 2.10 | 3.00 | 12 deg 54 min 59.7564 sec | 77 deg 36 min 47.83 sec | |
| 51 | 51 | Gulmohar | 2.65 | 6.00 | 12 deg 54 min 59.7492 sec | 77 deg 36 min 48.172 sec | |
| 52 | 52 | Gulmohar | 2.30 | 7.00 | 12 deg 54 min 59.7492 sec | 77 deg 36 min 48.506 sec | |
| 53 | 53 | Gulmohar | 3.20 | 10.00 | 12 deg 54 min 59.7276 sec | 77 deg 36 min 49.529 sec | |
| 54 | 54 | Gulmohar | 3.00 | 10.00 | 12 deg 54 min 59.7168 sec | 77 deg 36 min 49.874 sec | |
| 55 | 55 | Kadu Badami | 0.75 | 10.00 | 12 deg 54 min 59.7708 sec | 77 deg 36 min 51.484 sec | |
| | 55a | | 0.30 | | | | |
| 56 | 56 | Gulmohar | 2.50 | 4.00 | 12 deg 54 min 59.6664 sec | 77 deg 36 min 51.714 sec | |
| 57 | 57 | Gulmohar | 2.70 | 7.00 | 12 deg 54 min 59.6556 sec | 77 deg 36 min 52.042 sec | |
| 58 | 58 | Gulmohar | 3.10 | 9.00 | 12 deg 54 min 59.6232 sec | 77 deg 36 min 52.391 sec | |
| 59 | 59 | Gulmohar | 2.40 | 7.00 | 12 deg 54 min 59.5548 sec | 77 deg 36 min 53.006 sec | |
| 60 | 60 | Honge | 0.70 | 4.00 | 12 deg 54 min 59.4828 sec | 77 deg 36 min 53.701 sec | |
| | 60a | | 0.30 | | | | |
| 61 | 61 | Honge | 0.70 | 3.00 | 12 deg 54 min 59.292 sec | 77 deg 36 min 55.278 sec | |
| | 61A | | 0.45 | | | | |
| 62 | 62 | Basavana pada | 1.20 | 5.00 | 12 deg 54 min 59.274 sec | 77 deg 36 min 55.786 sec | |
| 63 | 63 | Sphodia | 2.20 | 12.00 | 12 deg 54 min 59.3136 sec | 77 deg 36 min 56.394 sec | |
| 64 | 64 | Gulmohar | 2.30 | 8.00 | 12 deg 54 min 59.202 sec | 77 deg 36 min 56.516 sec | |
| 65 | 65 | Kadu Badami | 0.25 | 2.50 | 12 deg 54 min 58.8816 sec | 77 deg 36 min 58.824 sec | |
| 66 | 66 | Sihi Hunse | 1.60 | 6.50 | 12 deg 55 min 0.7932 sec | 77 deg 37 min 15.884 sec | |
| 67 | 67 | Bottle Brush | 2.20 | 9.00 | 12 deg 55 min 0.8292 sec | 77 deg 37 min 16.075 sec | |
| 68 | 68 | Basri (Fycus Species) | 2.50 | 10.00 | 12 deg 55 min 0.948 sec | 77 deg 37 min 16.126 sec | |
| 69 | 69 | Bottle Brush | 1.00 | 5.00 | 12 deg 55 min 0.9984 sec | 77 deg 37 min 16.709 sec | |
| 70 | 70 | Bottle Brush | 0.95 | 5.00 | 12 deg 55 min 1.0236 sec | 77 deg 37 min 16.806 sec | |
| 71 | 71 | Bottle Brush | 1.80 | 8.00 | 12 deg 55 min 1.956 sec | 77 deg 37 min 19.135 sec | |
| 72 | 72 | Kadamba | 1.30 | 10.00 | 12 deg 54 min 57.9852 sec | 77 deg 37 min 11.413 sec | |
| 73 | 73 | Kadamba | 1.20 | 10.00 | 12 deg 54 min 57.8916 sec | 77 deg 37 min 11.035 sec | |
| 74 | 74 | Kadamba | 1.40 | 10.00 | 12 deg 54 min 57.8556 sec | 77 deg 37 min 10.646 sec | |
| 75 | 75 | Kadamba | 1.25 | 10.00 | 12 deg 54 min 57.8124 sec | 77 deg 37 min 10.218 sec | |
| 76 | 76 | Kadamba | 1.95 | 10.00 | 12 deg 54 min 57.6288 sec | 77 deg 37 min 10.214 sec | |
| 77 | 77 | Mahagany | 1.20 | 9.00 | 12 deg 54 min 57.6792 sec | 77 deg 37 min 6.697 sec | |
| 78 | 78 | Pycus Benjenium | 1.00 | 8.00 | 12 deg 54 min 57.9168 sec | 77 deg 37 min 6.697 sec | |
| | 78a | | 1.00 | | | | |
| 79 | 79 | Sphodia | 1.20 | 10.00 | 12 deg 54 min 57.9384 sec | 77 deg 37 min 6.416 sec | |

| Sl.No | Number assigned to the tree | Name of the species. | GBH (m) | Full Height (M) | GPS Location | | Remarks |
|-------|-----------------------------|--|--|----------------------|---------------------------|--------------------------|---------|
| | | (Either vernacular name or Botanical name) | (Girth at breast ht. 1.37m or 137cm from the ground) | By Visual inspection | Latitude | Longitude | |
| 80 | 80 | Honge | 0.65 | 3.00 | 12 deg 54 min 58.1184 sec | 77 deg 37 min 6.362 sec | |
| 81 | 81 | Mahagany | 0.70 | 8.00 | 12 deg 54 min 58.194 sec | 77 deg 37 min 5.855 sec | |
| 82 | 82 | cherry | 0.80 | 4.50 | 12 deg 54 min 58.1976 sec | 77 deg 37 min 5.668 sec | |
| 83 | 83 | Mahagany | 0.85 | 8.00 | 12 deg 54 min 58.1508 sec | 77 deg 37 min 4.494 sec | |
| 84 | 84 | Mahagany | 0.55 | 3.00 | 12 deg 54 min 58.1184 sec | 77 deg 37 min 3.824 sec | |
| 85 | 85 | Rain Tree | 2.45 | 12.00 | 12 deg 54 min 58.1184 sec | 77 deg 37 min 3.824 sec | |
| 86 | 86 | Gulmohar | 2.20 | 10.00 | 12 deg 54 min 58.6728 sec | 77 deg 36 min 53.816 sec | |
| 87 | 87 | Gulmohar | 2.30 | 10.00 | 12 deg 54 min 58.7124 sec | 77 deg 36 min 53.485 sec | |
| 88 | 88 | Gulmohar | 2.60 | 10.00 | 12 deg 54 min 58.842 sec | 77 deg 36 min 52.16 sec | |
| 89 | 89 | Gulmohar | 1.20 | 8.00 | 12 deg 54 min 58.8816 sec | 77 deg 36 min 51.71 sec | |
| 90 | 90 | Sphodia | 3.00 | 15.00 | 12 deg 54 min 58.9644 sec | 77 deg 36 min 48.704 sec | |
| 91 | 91 | Honge | 2.00 | 8.00 | 12 deg 54 min 58.896 sec | 77 deg 36 min 48.298 sec | |
| 92 | 92 | Mahagany | 2.00 | 8.00 | 12 deg 54 min 58.9608 sec | 77 deg 36 min 47.239 sec | |
| 93 | 93 | Mahagany | 2.00 | 8.00 | 12 deg 54 min 58.9644 sec | 77 deg 36 min 47.045 sec | |
| 94 | 94 | Gulmohar | 2.20 | 9.00 | 12 deg 54 min 59.0148 sec | 77 deg 36 min 46.494 sec | |
| 95 | 95 | Gulmohar | 2.80 | 9.00 | 12 deg 54 min 59.0184 sec | 77 deg 36 min 46.346 sec | |
| 96 | 96 | Gulmohar | 2.40 | 7.00 | 12 deg 54 min 59.0112 sec | 77 deg 36 min 46.022 sec | |
| 97 | 97 | Gulmohar | 2.20 | 7.00 | 12 deg 54 min 59.004 sec | 77 deg 36 min 45.673 sec | |
| 98 | 98 | Gulmohar | 1.80 | 7.00 | 12 deg 54 min 59.0004 sec | 77 deg 36 min 43.506 sec | |
| 99 | 99 | Gulmohar | 2.00 | 7.00 | 12 deg 54 min 59.0328 sec | 77 deg 36 min 43.153 sec | |
| 100 | 100 | Gulmohar | 2.80 | 10.00 | 12 deg 54 min 59.004 sec | 77 deg 36 min 45.673 sec | |
| 101 | 101 | Gulmohar | 1.80 | 7.00 | 12 deg 54 min 59.022 sec | 77 deg 36 min 42.473 sec | |
| 102 | 102 | Honge | 0.70 | 5.00 | 12 deg 54 min 59.0256 sec | 77 deg 36 min 42.167 sec | |
| | 102a | | 0.80 | | | | |
| 103 | 103 | Mahagany | 0.80 | 8.00 | 12 deg 54 min 59.0364 sec | 77 deg 36 min 41.472 sec | |
| 104 | 104 | Mahagany | 1.80 | 8.00 | 12 deg 54 min 59.1372 sec | 77 deg 36 min 35.957 sec | |
| 105 | 105 | Gulmohar | 3.00 | 8.00 | 12 deg 54 min 59.1516 sec | 77 deg 36 min 35.68 sec | |
| 106 | 106 | Mahagany | 1.60 | 8.00 | 12 deg 54 min 59.148 sec | 77 deg 36 min 35.68 sec | |
| 107 | 107 | Mahagany | 0.70 | 5.30 | 12 deg 54 min 59.148 sec | 77 deg 36 min 35.291 sec | |
| 108 | 108 | Gulmohar | 2.70 | 8.00 | 12 deg 54 min 59.1552 sec | 77 deg 36 min 34.942 sec | |
| 109 | 109 | Mahagany | 1.20 | 10.00 | 12 deg 54 min 59.1912 sec | 77 deg 36 min 34.585 sec | |
| 110 | 110 | Gulmohar | 2.30 | 6.00 | 12 deg 54 min 59.184 sec | 77 deg 36 min 34.384 sec | |
| 111 | 111 | Mahagany | 1.50 | 8.00 | 12 deg 54 min 59.184 sec | 77 deg 36 min 33.876 sec | |
| 112 | 112 | Gulmohar | 2.20 | 5.00 | 12 deg 54 min 59.202 sec | 77 deg 36 min 33.649 sec | |
| 113 | 113 | Mahagany | 2.10 | 10.00 | 12 deg 54 min 59.2236 sec | 77 deg 36 min 33.16 sec | |
| 114 | 114 | Mahagany | 1.70 | 10.00 | 12 deg 54 min 59.2272 sec | 77 deg 36 min 33.005 sec | |
| 115 | 115 | Gulmohar | 1.80 | 4.00 | 12 deg 54 min 59.1912 sec | 77 deg 36 min 32.81 sec | |
| 116 | 116 | Mahagany | 1.80 | 10.00 | 12 deg 54 min 59.1948 sec | 77 deg 36 min 32.67 sec | |
| 117 | 117 | Mahagany | 0.45 | 8.00 | 12 deg 54 min 58.8204 sec | 77 deg 36 min 35.899 sec | |
| 118 | 118 | Mahagany | 0.55 | 10.00 | 12 deg 54 min 58.8456 sec | 77 deg 36 min 35.654 sec | |
| 119 | 119 | Honge | 0.35 | 5.00 | 12 deg 54 min 58.8348 sec | 77 deg 36 min 35.294 sec | |
| 120 | 120 | Gulmohar | 1.60 | 7.00 | 12 deg 54 min 58.8456 sec | 77 deg 36 min 34.988 sec | |
| 121 | 121 | Gulmohar | 0.65 | 7.00 | 12 deg 54 min 58.8744 sec | 77 deg 36 min 34.744 sec | |
| 122 | 122 | Gulmohar | 0.85 | 7.00 | 12 deg 54 min 58.8456 sec | 77 deg 36 min 34.52 sec | |

| Sl.No | Number assigned to the tree | Name of the species. | GBH (m) | Full Height (M) | GPS Location | | Remarks |
|-------|-----------------------------|--|--|----------------------|---------------------------|--------------------------|---------|
| | | (Either vernacular name or Botanical name) | (Girth at breast ht. 1.37m or 137cm from the ground) | By Visual inspection | Latitude | Longitude | |
| 123 | 123 | Gulmohar | 0.65 | 7.00 | 12 deg 54 min 58.8456 sec | 77 deg 36 min 34.225 sec | |
| 124 | 124 | Gulmohar | 0.50 | 6.00 | 12 deg 54 min 58.8564 sec | 77 deg 36 min 33.898 sec | |
| 125 | 125 | Gulmohar | 0.45 | 5.00 | 12 deg 54 min 58.8564 sec | 77 deg 36 min 33.656 sec | |
| 126 | 126 | Turabevu | 1.05 | 8.00 | 12 deg 54 min 58.8672 sec | 77 deg 36 min 33.174 sec | |
| 127 | 127 | Mango | 0.75 | 8.00 | 12 deg 54 min 58.8924 sec | 77 deg 36 min 32.479 sec | |
| | 127a | | 0.55 | | | | |
| 128 | 128 | ovarasi | 0.55 | 6.00 | 12 deg 54 min 59.436 sec | 77 deg 36 min 23.645 sec | |
| 129 | 129 | Gulmohar | 1.80 | 6.00 | 12 deg 54 min 59.436 sec | 77 deg 36 min 22.954 sec | |
| 130 | 130 | Mahagany | 1.85 | 7.00 | 12 deg 54 min 59.4648 sec | 77 deg 36 min 21.895 sec | |
| 131 | 131 | Gulmohar | 3.20 | 6.00 | 12 deg 54 min 59.4648 sec | 77 deg 36 min 21.553 sec | |
| 132 | 132 | Honge | 0.45 | 6.00 | 12 deg 54 min 59.3388 sec | 77 deg 36 min 21.053 sec | |
| 133 | 133 | ovarasi | 0.40 | 6.00 | 12 deg 54 min 59.5332 sec | 77 deg 36 min 19.667 sec | |
| 134 | 134 | Peepal | 0.60 | 6.00 | 12 deg 54 min 59.5476 sec | 77 deg 36 min 19.534 sec | |
| 135 | 135 | Mahagany | 1.75 | 12.00 | 12 deg 54 min 59.5512 sec | 77 deg 36 min 19.001 sec | |
| 136 | 136 | Gulmohar | 2.60 | 8.00 | 12 deg 54 min 59.544 sec | 77 deg 36 min 18.508 sec | |
| 137 | 137 | Gulmohar | 2.80 | 5.00 | 12 deg 54 min 59.5656 sec | 77 deg 36 min 18.508 sec | |
| 138 | 138 | Mahagany | 1.40 | 12.00 | 12 deg 54 min 59.5728 sec | 77 deg 36 min 17.838 sec | |
| 139 | 139 | Mahagany | 1.80 | 12.00 | 12 deg 54 min 59.5584 sec | 77 deg 36 min 17.644 sec | |
| 140 | 140 | Mahagany | 1.60 | 10.00 | 12 deg 54 min 59.5656 sec | 77 deg 36 min 17.302 sec | |
| 141 | 141 | Mahagany | 0.35 | 7.00 | 12 deg 54 min 59.5692 sec | 77 deg 36 min 16.88 sec | |
| 142 | 142 | Mahagany | 0.25 | 6.00 | 12 deg 54 min 59.5656 sec | 77 deg 36 min 16.758 sec | |
| 143 | 143 | Mahagany | 2.10 | 12.00 | 12 deg 54 min 59.5764 sec | 77 deg 36 min 16.607 sec | |
| 144 | 144 | Ashoka | 1.50 | 12.00 | 12 deg 54 min 59.6772 sec | 77 deg 36 min 14.31 sec | |
| 145 | 145 | Rain Tree | 3.50 | 14.00 | 12 deg 54 min 59.6844 sec | 77 deg 36 min 13.835 sec | |
| 146 | 146 | Gulmohar | 2.20 | 12.00 | 12 deg 54 min 59.6844 sec | 77 deg 36 min 13.471 sec | |
| 147 | 147 | Mahagany | 2.50 | 14.00 | 12 deg 54 min 59.6772 sec | 77 deg 36 min 13.108 sec | |

Enumeration of Trees

Total No of trees standing in the project area = 147

Total No of trees exempted from permission = 0

Total No of trees Proposed to be removed = 15


24/11/2020
Dy. Chief Engineer
Reach-5/Package-3

Total number of trees Proposed to be removed

| Sl.No | Number assigned to the tree | Name of the species. | GBH (M) | Full Height (M) | GPS Location | | Remarks |
|-------|-----------------------------|--|--|----------------------|---------------------------|--------------------------|---------|
| | | (Either vernacular name or Botanical name) | (Girth at breast ht. 1.37m or 137cm from the ground) | By Visual inspection | Latitude | Longitude | |
| 1 | 1 | Rain Tree | 3.50 | 12.00 | 12 deg 55 min 0.8004 sec | 77 deg 35 min 49.06 sec | |
| 2 | 2 | Dalichanda | 1.00 | 12.00 | 12 deg 55 min 0.8076 sec | 77 deg 35 min 49.538 sec | |
| 3 | 53 | Gulmohar | 3.20 | 10.00 | 12 deg 54 min 59.7276 sec | 77 deg 36 min 49.529 sec | |
| 4 | 54 | Gulmohar | 3.00 | 10.00 | 12 deg 54 min 59.7168 sec | 77 deg 36 min 49.874 sec | |
| 5 | 66 | Sihi Hunse | 1.60 | 6.50 | 12 deg 55 min 0.7932 sec | 77 deg 37 min 15.884 sec | |
| 6 | 67 | Bottle Brush | 2.20 | 9.00 | 12 deg 55 min 0.8292 sec | 77 deg 37 min 16.075 sec | |
| 7 | 68 | Basri (Fycus Species) | 2.50 | 10.00 | 12 deg 55 min 0.948 sec | 77 deg 37 min 16.126 sec | |
| 8 | 69 | Bottle Brush | 1.00 | 5.00 | 12 deg 55 min 0.9984 sec | 77 deg 37 min 16.709 sec | |
| 9 | 70 | Bottle Brush | 0.95 | 5.00 | 12 deg 55 min 1.0236 sec | 77 deg 37 min 16.806 sec | |
| 10 | 85 | Rain Tree | 2.45 | 12.00 | 12 deg 54 min 58.1184 sec | 77 deg 37 min 3.824 sec | |
| 11 | 86 | Gulmohar | 2.20 | 10.00 | 12 deg 54 min 58.6728 sec | 77 deg 36 min 53.816 sec | |
| 12 | 87 | Gulmohar | 2.30 | 10.00 | 12 deg 54 min 58.7124 sec | 77 deg 36 min 53.485 sec | |
| 13 | 88 | Gulmohar | 2.60 | 10.00 | 12 deg 54 min 58.842 sec | 77 deg 36 min 52.16 sec | |
| 14 | 89 | Gulmohar | 1.20 | 8.00 | 12 deg 54 min 58.8816 sec | 77 deg 36 min 51.71 sec | |
| 15 | 100 | Gulmohar | 2.80 | 10.00 | 12 deg 54 min 59.004 sec | 77 deg 36 min 45.673 sec | |

Enumeration of Trees

Total No of trees exempted from permission =0

Total No of trees Proposed to be removed = 15


 Dy. Chief Engineer
 Reach-5/Package-3

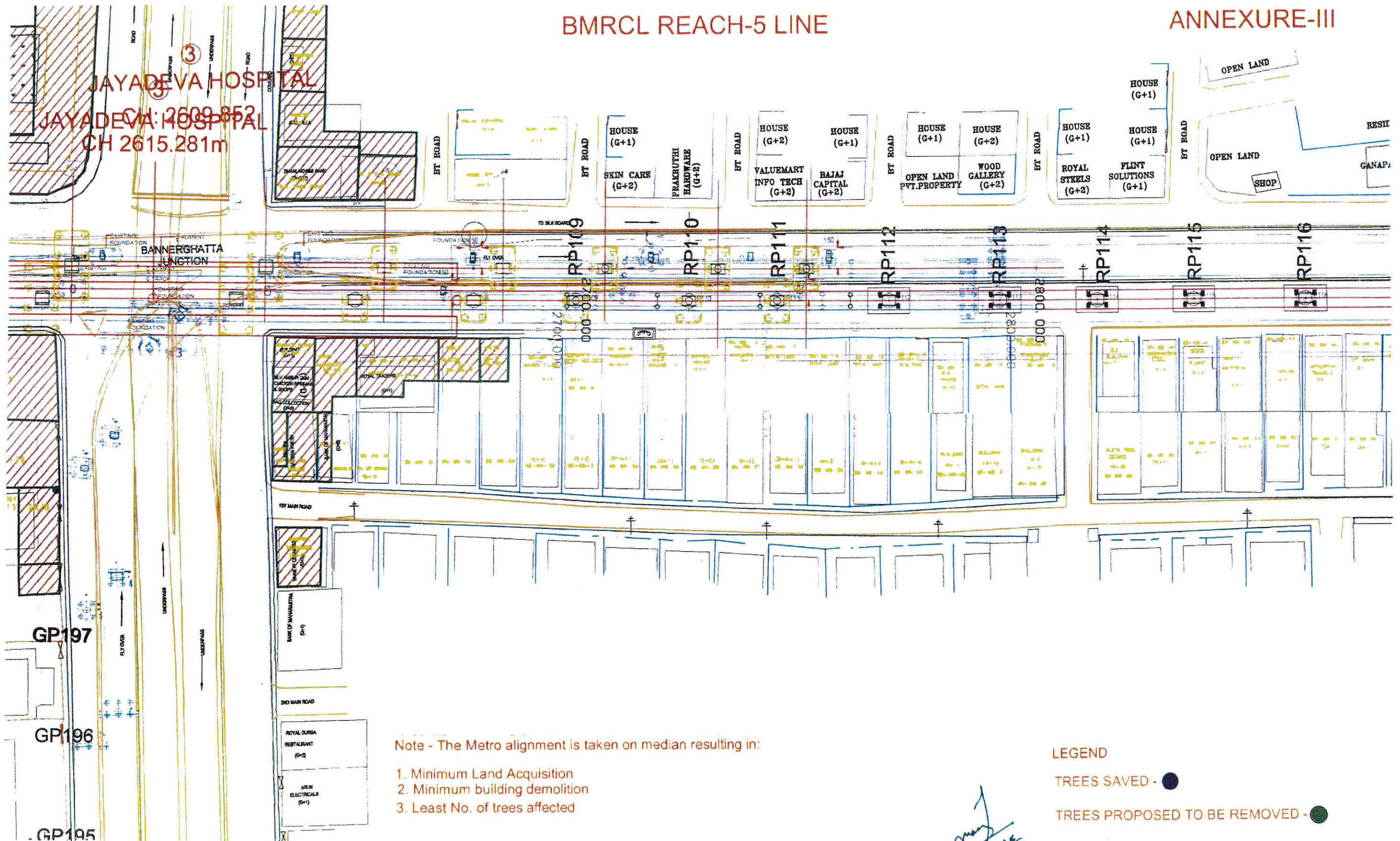
BMRCL REACH-5 LINE

- ANNEXURE-III



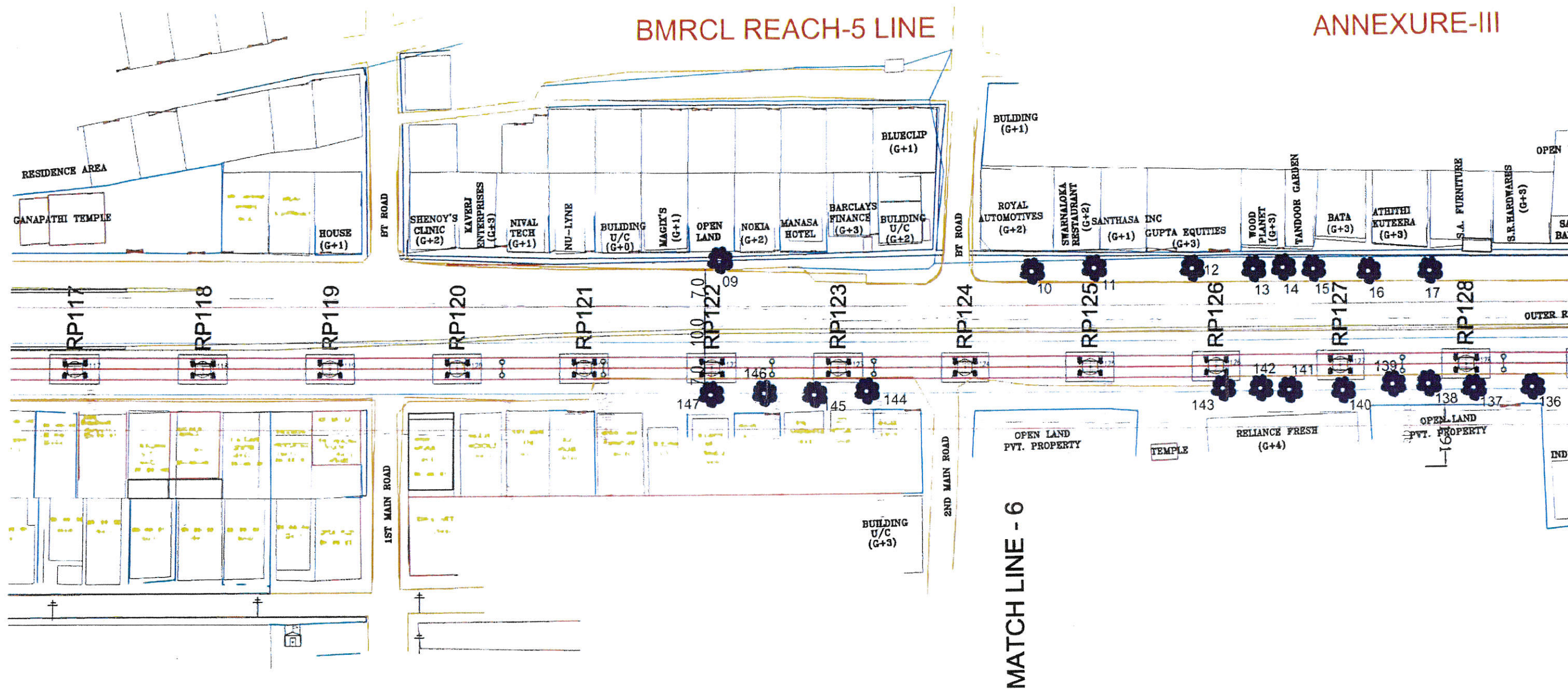
BMRCL REACH-5 LINE

ANNEXURE-III



BMRCL REACH-5 LINE

ANNEXURE-III



Note - The Metro alignment is taken on median resulting in:

1. Minimum Land Acquisition
2. Minimum building demolition
3. Least No. of trees affected

LEGEND

TREES SAVED - ●

TREES PROPOSED TO BE REMOVED - ●

Handwritten signature
Dx CE

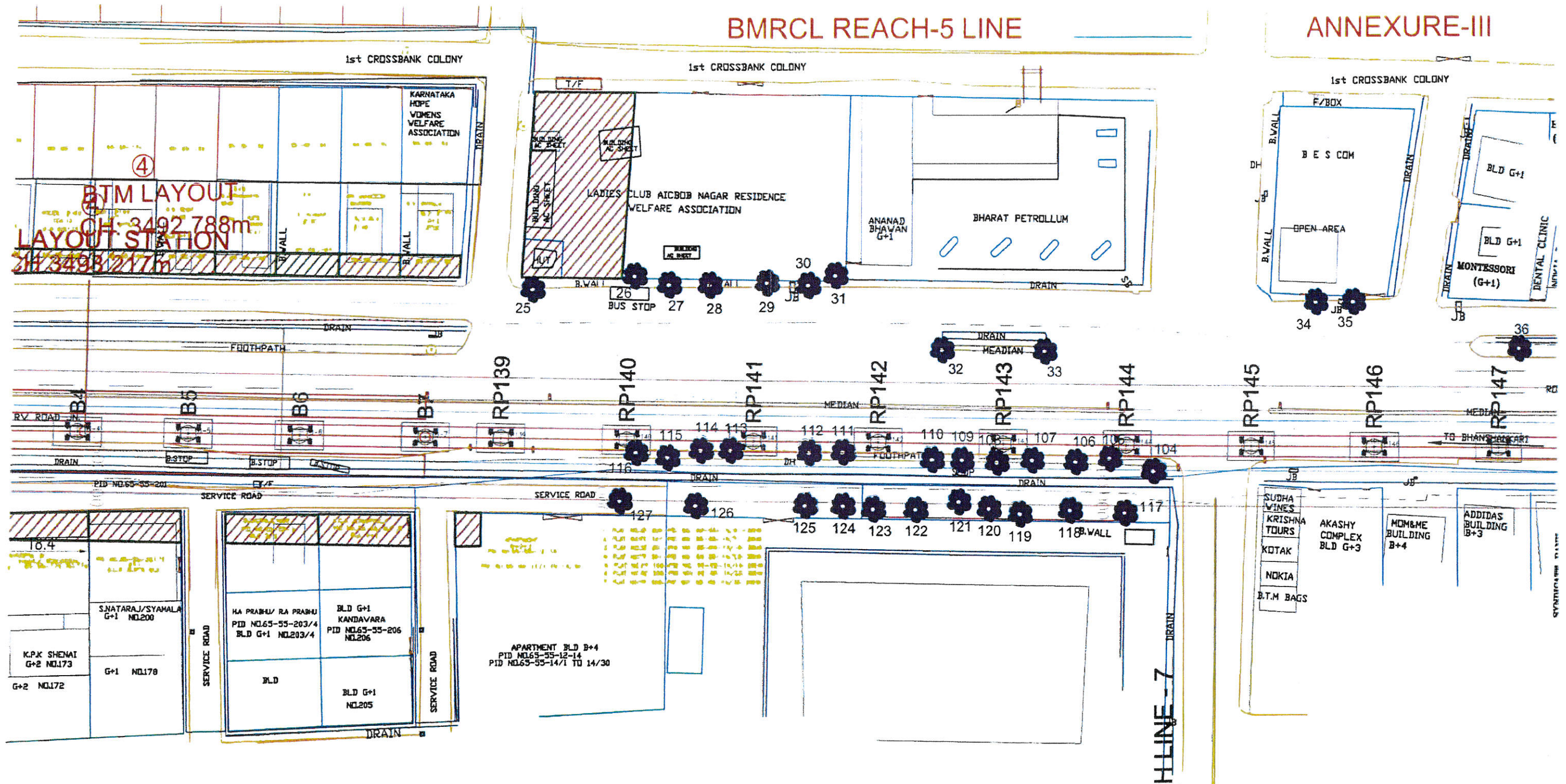


ANNEXURE-III



Dr. Ch





Note - The Metro alignment is taken on median resulting in

1. Minimum Land Acquisition
2. Minimum building demolition
3. Least No. of trees affected

Force

LEGEND

TREES SAVED - ●

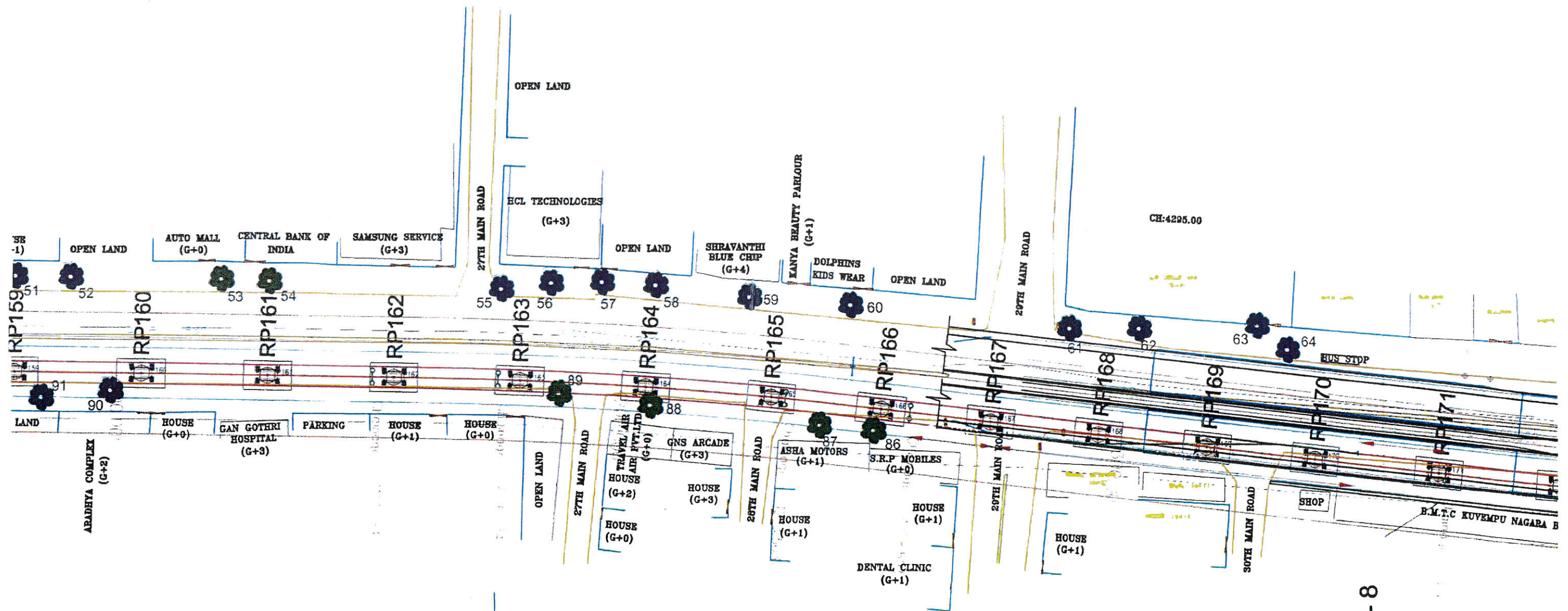
TREES PROPOSED TO BE REMOVED - ●

ANNEXURE-III

[Signature]

BMRCL REACH-5 LINE

ANNEXURE-III



Note - The Metro alignment is taken on median resulting in

1. Minimum Land Acquisition
2. Minimum building demolition
3. Least No. of trees affected

LEGEND

TREES SAVED - 1

TREES PROPOSED TO BE REMOVED -

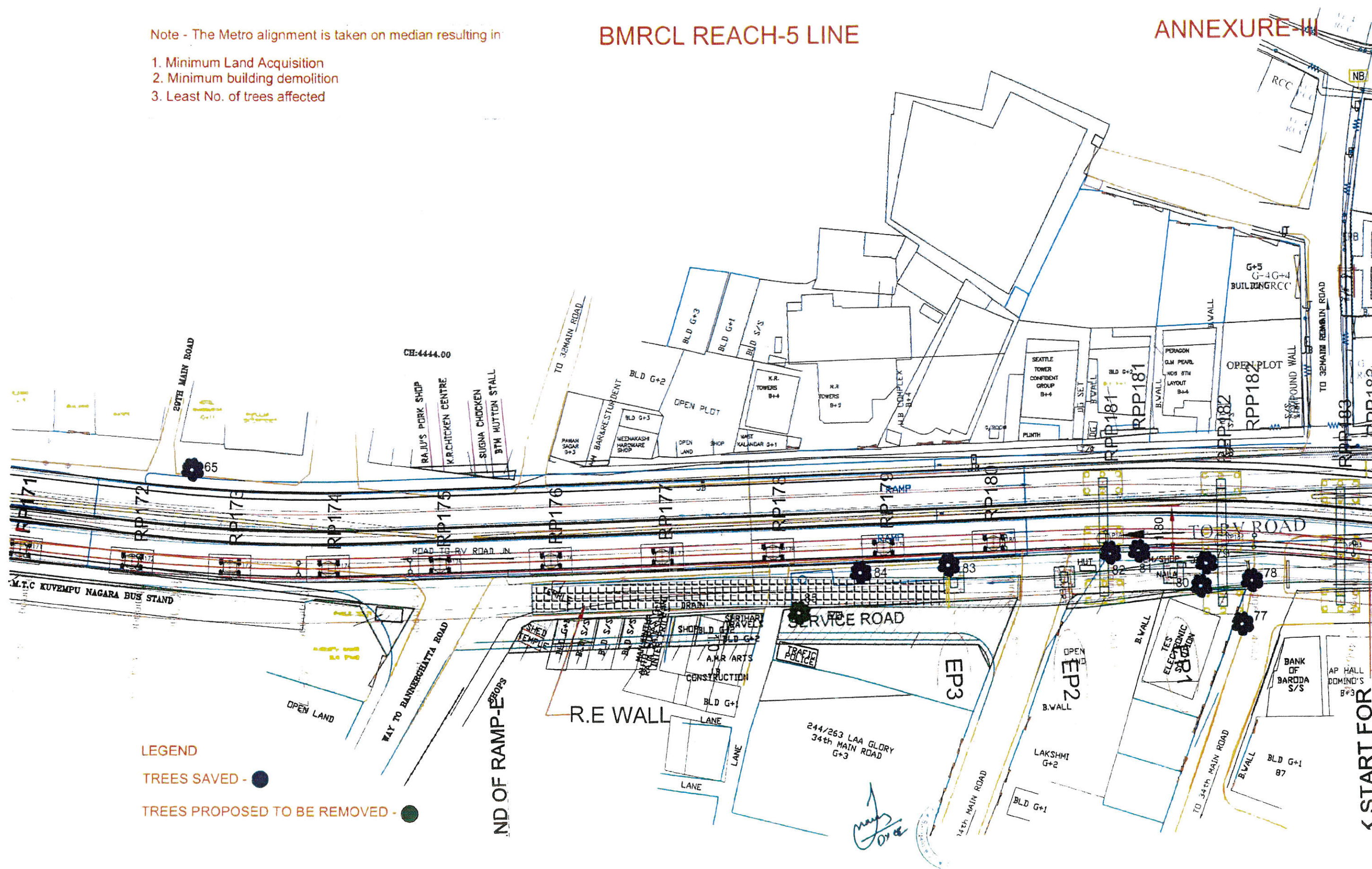
MATCH LINE - 8

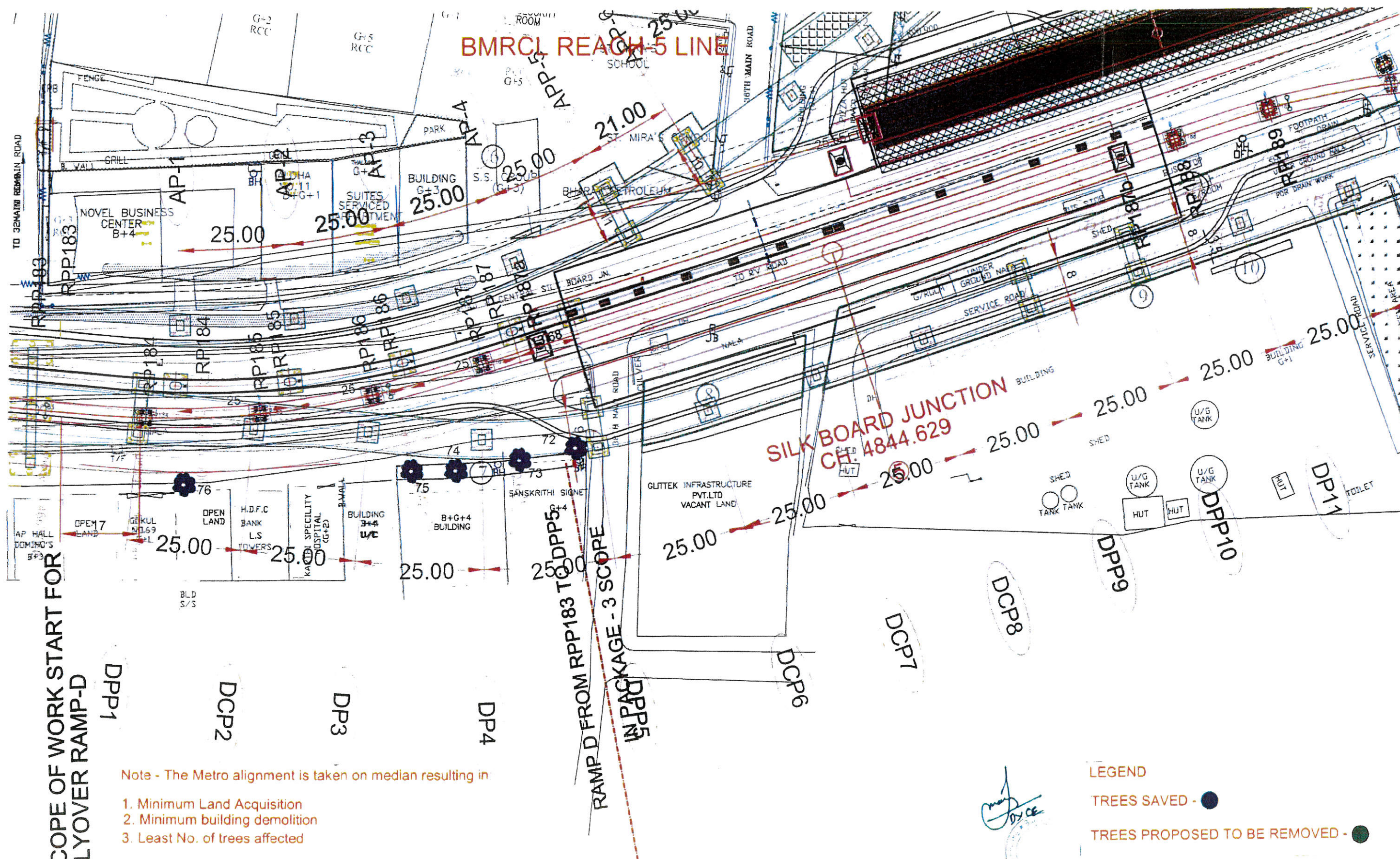
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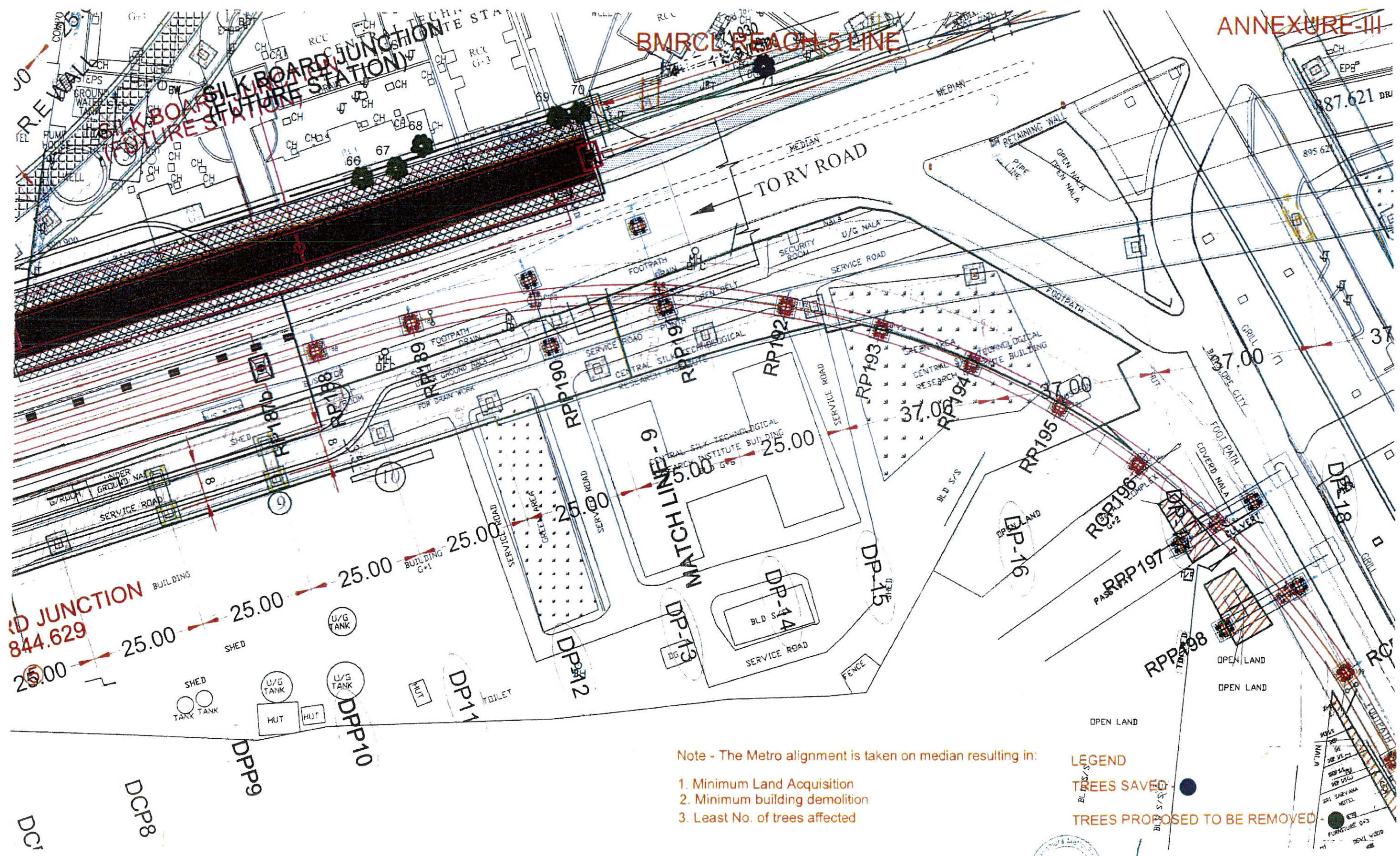
BMRCL REACH-5 LINE

ANNEXURE-II

1. Minimum Land Acquisition
2. Minimum building demolition
3. Least No. of trees affected







ANNEXURE-III

BMRCL REACH 5 LINE

Note - The Metro alignment is taken on median resulting in:

1. Minimum Land Acquisition
2. Minimum building demolition
3. Least No. of trees affected

LEGEND

TREES SAVED

TREES PROPOSED TO BE REMOVED

Signature and Stamp