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

ಕರ್ನಾಟಕಅರಣ್ಯ ಇಲಾಖೆ
ಉಪ ಅರಣ್ಯ ಸಂರಕ್ಷಣಾಧಿಕಾರಿಯವರಕಛೇರಿ
ಬೆಂಗಳೂರು ನಗರ ವಿಭಾಗ, ಅರಣ್ಯ ಭವನ ಸಂಕೀರ್ಣ, 18ನೇ ಅಡ್ಡರಸ್ತೆ, ಮಲ್ಲೇಶ್ವರಂ, ಬೆಂಗಳೂರು - 560 003

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

No: A7/Land /BMRCL/CR-39/2018-19 1394 Date:08/09/2021.

Official Memorandum

Sub: Permission for felling of trees in Diversion of 0.71 ha of forest Land in Sy No. 38(old No.12)of Uttarahalli Manavarta Kaval(U.M.Kaval)village, Uttarahalli Hobli, Bangalore South Taluk -reg.

Ref:1. Letter No:F.No.4 KRB-1185/2019-Ban/828 dated:20-08-2019 of Govt of India, Ministry of Environment, Forest and Climate Change, Regional Office,(Southern Zone), Bangalore.

2. Letter No:F.No.4 KRB-1185/2019-Ban/136 dated:04-06-2020 of Govt of India, Ministry of Environment, Forest and Climate Change, Regional Office,(Southern Zone), Bangalore
3. Letter No: BMRCL/LA/stage-2/Reach-1E&4B/2019-20 dated 23-10-2019 and of general Manager(Land acquisition and Estate), Bangalore Metro Rail Corporation, Bangalore
4. Hon'ble High Court Order dated: 18.11.2020 in WP 17841/2018(PIL)
5. Letter No: BMRCL/Phase-2/R4B/20-21/93 Dated 26.11.2020 of Addl. Chief Engineer, R4(B), BMRCL, Bangalore.
6. This Office Public Notice vide letter A7/Land /BMRCL/CR-39/2018-19 Dated: 30-11-2020.
7. Members Secretary and ACF BBMP, Bengaluru Letter No.ACF/PR.45/2021-22 Dtd.03-09-2021 along with report and proceeding of Tree Expert Committee.

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Preamble:-

The Govt. of India vide ref(1) and (2) have accorded the stage (1) and stage(2) approval under section (2)of the Forest (Conservation)Act 1980 for

diversion of 0.71 ha of forest land in Sy No. 38(old No.12) of Uttarahalli Manavarte Kaval(U.M. Kaval) village, Uttarahalli Hobli, Bangalore South Taluk(Kaggalipura Range), Bangaluru Urban Disrict and Division for construction of approach to depot in favour of Genaral Manager(LA & E), Bangalore Metro Rail Corporation Limited(BMRCL), Bangaluru in ref(3).as cited above.

The BMRCL had submitted the fresh application dated 26.11.2020 read at ref (5) above seeking permission for removal of 130 trees infringing the Metro Rail Construction of depot work at Uttarahalli Manavarte Kaval(U.M. Kaval) village, Uttarahalli Hobli, Bangalore South Taluk, 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 (4) above.

The processing and consideration of the application was taken up as per provisions of the Karnataka Preservation of Trees Act, 1976 (hereinafter mentioned as "the Act") and the Memorandum of Procedure (hereinafter mentioned as "the MOP") formulated by the Tree Expert Committee (hereinafter mentioned as "the TEC"). As stipulated under Section 8(3)(vii) of the Act, a public notice in Template No. 1 of the MOP was issued duly inviting the objections from the public as the total number of trees proposed to be felled are more than 50 vide ref (6). The public notice appeared in Kannada Prabha, The New Indian Express ,Vijayavani and Hindu News papers on 05-12-2020. The details of the 130 trees sought to be removed published on the website of BBMP, as per the MOP.

In response to the public notice, there is only one suggestion has received from public which is supportive to the metro project. The proceedings of that consideration along with a tabular statement showing the suggestion from the public, and remarks and findings of the undersigned for specific suggestion and comment were prepared on 12.12.2020, besides recording summary of the findings in Template No. 3 of the MOP.

As per BMRCL's application, there are 130 trees in the project area out of which 120 trees are sought to be removed. Detailed enumeration of each of those 130 trees in terms of location, physical parameters, health and defects, etc. was organized from the forest officers in Part-I of Template No. 2 of the MOP. Thereafter, the same was verified by the undersigned and a preliminary assessment in terms of possibility of onsite retention or translocation or felling along with justification was carried out through

inspection of those 130 trees on 28.12.2020 and recorded in Part-II of Template No. 2.

The proceedings regarding consideration of the objections, tabular statement of the findings along with summary, detailed enumeration and preliminary assessment along with justification for each of the 130 trees, and information in Template No 2 and 3 were submitted vide letter dated 24.03.2021 for consideration by the TEC.

The TEC has submitted a detailed report dated 03.09.2021 giving their recommendations for onsite retention of 07 trees, translocation of 36 trees and felling of 87 trees with justification for each of them along with an abstract of the report in Template No. 4. It is noted from the report that the TEC carried out their activities in 4 stages, namely, (i) review of the application, objections received from the public and findings by the undersigned, (ii) review of preliminary assessment by the undersigned, (iii) their field inspection, and (iv) post inspection review and report preparation.

The TEC has concluded that out of total 130 trees proposed for removal by BMRCL, the project activities can be carried out without removal of following 07 trees.

Trees recommended by TEC for Onsite Retention	
Tree Numbers	1, 2, 12,23, 25, 36 and 39 **Total = 07 nos**

The TEC concluded that the balance 123 trees need to be removed as they are falling within the following physical features of Metro Project.

Physical Features	**Tree Numbers**
Pile and pier construction work of depot entry line	3,4,5,6,7,8,9,10,11,21,22,24,26,27,28,29,30, 31,38,40,41,42 & 43 **Total – 23 Nos.**
Launching of I-Girder works of Depot entry line	13,14,15,16,17,18,19,20,32,33,34,35, and 37 **Total – 13 Nos.**
Retaining wall construction works of depot	44,45,51,52,55,57,59,61,68,69,83,84,85,86, 92,99,100,105,106,107,108,117,118,120,121,12 2,123,124,125,126,127,128,129 and 130 **Total – 34 Nos.**

Earth filling and Track Laying Works of Depot	46,47,48,49,50,53,54,56,58,60,62,63,64,65, 66,67,70,71,72,73,74,75,76,77,78,79,80,81, 82,87,88,89,90,91,93,94,95,96,97,98,101,102, 103, 104,109,110,111,112,113,114,115,116 and 119 **Total-53 Nos**

The TEC has further concluded that 36 trees out of these 123 trees are healthy and suitable for translocation. The TEC has accordingly recommended translocation of those 36 trees to save them. Based on the inspection and soil test reports of the proposed receptor sites, the TEC has confirmed suitability of those sites for the translocation.

The TEC has also concluded that 87 trees out of 123 trees are not suitable for the translocation as they have major defects or extraction of the root ball of adequate size is not practical. The TEC has accordingly recommended felling of those 87 trees.

The report of the TEC has been examined. The TEC has provided detailed specific justification for removal of each of the 130 trees, besides giving justification for Retention/translocation/ felling of the trees in Part-III of Template 2 as well as in Appendix to its report.

The undersigned concurs with the recommendations and justification of the TEC. The final assessment of the undersigned has been recorded in Part-IV of Template No. 2. The translocation of 36 trees and felling of 87 trees are essential for implementation of the metro project, which seeks to build a sustainable public transport system. The adverse impact of the felling of trees will have to be mitigated by directing BMRCL to take up compensatory plantation in adequate number.

Hence, the following order.

Order

1. Permission is refused for removal of Seven(07) trees listed in **Appendix 1** appended to this Official Memorandum. They should be retained at site only.
2. Based on the consideration detailed above, permission is hereby granted for removal of Thirty Six(36) trees by way of translocation as listed with justification in Template No. 5 appended to this Official Memorandum as **Appendix-2.**

3. Permission is hereby also granted for removal of Eighty Seven(87) trees by way of felling as listed with justification in Template No. 6 appended to this Official Memorandum as **Appendix-3.**
4. This order will come into effect fifteen (15) days from the date of uploading of the order on the websites of BBMP and Karnataka Forest Department and serving by email on the petitioners in WP 17841/2018.
5. The order is subject to following directions to BMRCL.

A. Translocation of trees:

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

1) Devika Rani Estate(Right side of Uttarahalli Road).

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

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

B. Compensatory Plantation:

i. The BMRCL to arrange compensatory Afforestation of 1230 tall and healthy saplings, i.e., @ 10 saplings for each tree removed within Six(6) months from the date of the removal.

ii. BMRCL to submit a plan for the compensatory plantation within Two(2) months from the date of this order.

C. Care & Maintenance of translocated trees and compensatory plantation, and their Reporting:

i. BMRCL should ensure proper and effective care and maintenance of the translocated trees and compensatory plantation for a period of Three(3) years.

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

D. Storage & disposal of felled trees:

i. Among 87 trees to be felled, one(01)Sandal wood tree should be extracted by Karnataka Forest Department and transported and

deposited at the Forest Department Storage in Jarakabande Sandal Godown, Bengaluru Range, Bengaluru.

ii. The extracted wood from 87 trees to be felled should be deposited at Jarakabande Kaval Tenkey Depot with the Bangalore Range Forest Officer, through the Range Forest Officer, Kaggalipura for disposal.

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

Copy to:

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

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

Application No:BMRCL/0023/P2/R4B/2020-21/93 Dated: 26.11.2020

Location: Reach-4B, U M Kaval.

List of Trees recommended for On site Retention

Appendix - 1

Sl No	Tree Number	Tree Name	Girth in Mtr	Total Height in	GPS Location		Crown Spread in (M)	TEC Recommendation	Tree Officer Recommendation	Justification
					Latitude (N)	Longitude (E)				
1	1	Hunase	1.85	10.00	12deg 51min 20.6sec	77deg 31min 30.9sec	10.00	Retention	Retention	The tree is recommended for retention as the major construction activities in and around the tree is completed. However, for the remaining work to be executed near the tree, in order to facilitate the work little branches of the tree can be pruned appropriately(scientifically), **Recommendation : Retention**
2	2	Gulmohar	1.18	8.00	12deg 51min 22.0sec	77deg 31min 32.1sec	8.00	Retention	Retention	The tree is recommended for retention as the major construction activities in and around the tree is completed. However, for the remaining work to be executed near the tree, in order to facilitate the work little branches of the tree can be pruned appropriately(scientifically), **Recommendation : Retention**
3	12	Beete	0.47	6.50	12deg 51min 24.6sec	77deg 31min 33.8sec	4.00	Retention	Retention	The tree is recommended for retention as the tree is present abutting (within the project area) to the boundary and do not affect any of the proposed construction activities. **Recommendation : Retention**
4	23	Jagalaganti	0.18	3.00	12deg 51min 27.4sec	77deg 31min 32.2sec	1.00	Retention	Retention	The tree is recommended for retention, as the tree is located (blue colour mark) outside the project area. **Recommendation : Retention**
5	25	Subabul	0.27	6.50	12deg 51min 27.5sec	77deg 31min 32.2sec	3.00	Retention	Retention	The tree is recommended for retention, as the tree is located (blue colour mark) outside the project area. **Recommendation : Retention**

6	36	Tapasi	0.28	5.00	12deg 51min 27.8sec	77deg 31min 31.6sec	4.00	Retention	Retention	The tree is present outside the project area as per project plan, therefore the tree is recommended for retention. **Recommendation : Retention**
7	39	Jagalaganti	0.38	5.00	12deg 51min 27.9sec	77deg 31min 31.5sec	5.00	Retention	Retention	The tree is present outside the project area as per project plan and therefore the tree is recommended for retention. **Recommendation : Retention**

Summary:

Total Number of Enumerated Trees	130
Total number of Trees assessed as suitable for on site Retention	7

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

TEMPLATE No. 5

PARTICULARS ON TRANSPLANTATION / TRANSLOCATION OF TREE(S)*

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

Name of the user agency	Bangalore Metro Rail Corporation Limited
Purpose of the project	Construction of Anjanapura Depot and Viaduct for Depot entry line in Reach 4B via Kanakapura Road.
Extent of the project area	0.71 Ha
Location of the project area	U M Kaval forest area Survey no.38 in Kanakapura road. 1.Starting Point: Lat -12 deg 51min 20.1Sec Long -77 deg 31 min 30.4 Sec 2.Ending Point: Lat -12 deg 51min 30 Sec Long -77 deg 31min 21.8 Sec
Number of tree(s) enumerated in the project area	130 Trees
Number of tree(s) recommended for transplantation / translocation	36 Trees
Feasibility of the tree for transplantation / translocation *(as per Template No. 2 – Tree Assessment Form)*	All the trees are feasibility for transplantation /translocation
Name of the agency identified to execute transplantation / translocation	Indus Herbs (Ravindra TC, CEO)
Transplantation / Translocation methodology	Tree Bur lapping Method
Location of receptor site	Devika Rani Estate (Kanakapura Road) Extent: 1000 sq.m Point (A) 12° 50' 26.11" N 77° 31' 02.29" E Point (B) 12° 50' 25.88" N 77° 31' 10.85" E Point (C) 12° 50' 19.83" N 77° 31' 05.91" E Point (D) 12° 50' 19.38" N 77° 31' 01.16" E
Compatibility of receptor site	Soil Investigation carried out and found to be suitable. Investigation Reports attached.
Number of trees to be transplanted / translocated to the selected receptor site	36 trees in Devika rani Estate

Spacing between transplanted / translocated trees	8 - 10mts
Post care management	Proper manner and watering for survival of transplanted/translocated trees

* Note:

1. List of the trees to be translocated containing details of kind / species, girth, height, GPS coordinates should be appended to this template. These details should be extracted from relevant parts of Template2.
2. *The Project Authorities / User agency should strictly adopt the Transplantation / Translocation guidelines prescribed by UAS (B), GKVK, enclosed as Annexure 1 to the MOP.*

Tree Officer

Application No:BMRCL/0023/P2/R4B/2020-21/93 Dated: 26.11.2020

Location: Reach-4B, U M Kaval.

List of Trees Recommended for Translocation.

Appendix - 2

Sl No	Tree Number	Species	Location		Girth in Mtr	Height in Mtr	Crown Spread in Sq.Mtr	TEC Recommendation	Tree Officer Recommendation	Justification
			Latitude (N)	Longitude (E)						
1	18	Echalu	12deg 51min 27.2sec	77deg 31min 32.2sec	1.47	10.00	2.00	Translocation	Translocation	The tree is present in the location proposed for construction of pile cap (for DP 07 & 6) as per plan; therefore, the tree cannot be retained. In consideration to to the brief characteristics (Physical /morphological) of the tree, the tree is recommended for transplantation
2	31	Echalu	12deg 51min 27.3sec	77deg 31min 31.7sec	0.85	10.00	8.00	Translocation	Translocation	The tree cannot be retained as the construction of pile Cap (for DP 07 & 6) as per plan is proposed very close to the location of the tree. The tree is matured and the base is closed to tree no.20 and 21 therefore transplantation is not possible.
3	38	Mutthuga	12deg 51min 27.8sec	77deg 31min 31.4sec	0.80	5.00	4.00	Translocation	Translocation	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of earth) as per plan is proposed very close to the location of the tree. The field condition of the tree qualify the tree for transplantation.
4	50	Echalu	12deg 51min 27.9sec	77deg 31min 31.1sec	0.90	3.50	5.00	Translocation	Translocation	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of earth) as per plan is proposed in the location of the tree. In consideration to the brief characteristics(physical/morphological) of the tree, the tree is recommended for transplantation.
5	66	Thare	12deg 51min 28.2sec	77deg 31min 30.3sec	0.51	10.00	5.00	Translocation	Translocation	· Tree is located within the project area. · Tree has forked branches at an height of 2.0 meter from the ground. · Tree has clear bole and , Hence recommended for transplantation

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6	67	67 a	Honne	12deg 51min 28.5sec	77deg 31min 29.7sec	0.56	6.00	5.00	Translocation	Translocation	· Tree is located within the project area Tree has forked branches; one branch is dried. · Dried branches should be pruned while transplantation
		67 b				0.28	2.00	2.00			
7	69		Tapasi	12deg 51min 28.8sec	77deg 31min 29.1sec	0.14	3.00	1.00	Translocation	Translocation	· The tree located in the project area. · Young seedling with no significant visual symptoms. · Hence, recommended for transplantation.
8	71		Achalu	12deg 51min 29.0sec	77deg 31min 28.9sec	0.53	6.00	6.00	Translocation	Translocation	· Tree is located within the project area. · Tree is from any damage and hence, recommended for transplantation/translocation. This tree is near to tree No.80 and 78.hence care should be taken while root ball excavation.
9	83		Baare	12deg 51min 29.4sec	77deg 31min 27.7sec	0.27	4.50	4.00	Translocation	Translocation	· Tree is located in the proposed alignment. · Tree is having clear bole and no significant visual symptoms. There are no trees near by this tree ,appropriate root ball can be excavated, Hence tree is Recommendation for transplanting.
10	84		Yalachi (Baare)	12deg 51min 29.3sec	77deg 31min 27.6sec	0.36	4.50	5.00	Translocation	Translocation	· Tree is located in the proposed alignment. · Tree is having forked branches and one branch is already felled. • There are no trees near by this tree appropriate root ball can be excavated. Hence tree is recommended for transplanting.
11	85		Kaggali	12deg 51min 29.3sec	77deg 31min 27.5sec	0.31	5.00	3.00	Translocation	Translocation	· Tree is located in the proposed alignment. · Tree is having clear, straight bole with no visual significant symptoms. There is enough space for excavating, appropriate root ball. Hence tree is recommended for transplantation.
12	86		Kumkuma	12deg 51min 29.6sec	77deg 31min 27.4sec	0.33	4.50	4.00	Translocation	Translocation	· Tree is located in the proposed alignment. · Tree is having clear, straight bole with no visual significant symptoms. There is enough space for excavating, appropriate root ball. Hence tree is recommended for transplantation.

13	90		Hebbevu	12deg 51min 30.0sec	77deg 31min 27.1sec	0.41	6.00	5.00	Translocation	Translocation	· Tree is within the proposed project area and it is near the existing compound wall. · Tree is having clear straight bole with minor fissures on the base of the trunk. However, with all this tree is recommended for transplantation/translocation.
14	91		Thare	12deg 51min 29.8sec	77deg 31min 26.8sec	1.6	8.00	15.00	Translocation	Translocation	· Tree is having clear straight bole, no visual Signifiant symptoms and tree is located in the proposed depot, hence this tree recommended for transplantation.
15	92	92 a	Bage	12deg 51min 29.6sec	77deg 31min 26.7sec	0.73	7.00	6.00	Translocation	Translocation	· Tree has forked branches at an height of 2.0 meter from the ground. One branch is very lean and bent at an angle 45 degree · Committee suggested for transplantation after pruning leaned and bent branch.
		92 b	Bage			0.64	7.00	4.00		
16	93		Shivane	12deg 51min 29.8sec	77deg 31min 27.1sec	0.33	3.50	2.00	Translocation	Translocation	• Tree is within the proposed alignment. • Tree has clear and straight bole, having no visual significant symptoms. • This tree is very nearer to Tree No. 94 hence, precautionary measures to take while appropriate root ball for successful transplantation.
17	95		Kamara	12deg 51min 30.0sec	77deg 31min 26.4sec	0.31	3.00	5.00	Translocation	Translocation	• Tree is within the proposed project area. • Tree is having forked branches, one small branch was pruned. • Tree is recommended for transplanting/translocation by excavating appropriate root ball for excavation.
18	97		Bilwara	12deg 51min 29.9sec	77deg 31min 26.3sec	0.15	3.00	2.00	Translocation	Translocation	• Tree is young and is located near tree No. 97. • Hence, precautionary measures to be taken while excavating appropriate root ball for translocation.
19	99		Sandal wood	12deg 51min 29.7sec	77deg 31min 26.1sec	0.27	4.00	6.00	Translocation	Translocation	• Tree is within the proposed project area. • Tree is nearer to tree No. 116, Young tree, recommended for transplanting with suitable host.
20	100		Hebbevu	12deg 51min 30.2sec	77deg 31min 26.1sec	0.38	5.50	25.00	Translocation	Translocation	• Tree is within the proposed depot. • Tree is young, tree is nearer to Tree NO. 127,Hence care should be taken to excavate appropriate root ball while transplantation/translocation.

Location: Reach-4B, U M Kaval.

21	103	Bilwara	12deg 51min 30.2sec	77deg 31min 25.9sec	0.69	10.00	8.00	Translocation	Translocation	• Tree is present in the center of the project area. • Tree is having clear bole and visual significant symptoms, hence recommended for transplantation/translocation.
22	106	Sandal	12deg 51min 29.6sec	77deg 31min 26.0sec	0.17	5.00	4.00	Translocation	Translocation	• Tree is located within the project area. • Tree is very nearer to Tree no. 127. • Care should be taken while transplanting with suitable host.
23	107	Hebbevu	12deg 51min 29.8sec	77deg 31min 25.5sec	0.59	8.50	8.00	Translocation	Translocation	• Tree is present in the center of the project area. • Tree is young and having straight bole and this tree is nearer to tree no. 125 at a distance of less than 1.5 meter. Hence ,possible measures to be taken excavating appropriate root ball for transplantation/translocation.
24	111	Nerale	12deg 51min 30.1sec	77deg 31min 25.1sec	0.28	4.00	3.00	Translocation	Translocation	• Tree is present in the center of the proposed depot. • It is entry, no Visual significant symptoms. • Tree is nearer to tree No.105,hence,appropriate care should be taken while excavation root ball.
25	112	Shivane	12deg 51min 29.9sec	77deg 31min 25.0sec	0.29	4.00	3.00	Translocation	Translocation	• Tree is present in the proposed project area. • Young tree, having Minor defects like fissure on the stem,however,tree is able to rejuvenate after transplantation.hence,this tree is recommended for transplantation.
26	113	Nerale	12deg 51min 30.2sec	77deg 31min 25.0sec	0.41	4.00	4.00	Translocation	Translocation	• The tree is present in the center of the proposed Depot. • It is young tree, no visual significant symptoms. • Tree is nearer to tree NO.104, hence, appropriate care should be taken while excavation root ball.
27	115	Thare	12deg 51min 30.1sec	77deg 31min 24.7sec	1.24	10.00	15.00	Translocation	Translocation	• Tree is located in the proposed depot and it is near to tree no. 124. • Tree is having straight bole with minor defects. • Possible care should be taken while excavating appropriate root ball, since tree is nearer to Tree No. 124.

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28	116	Thare	12deg 51min 30.0sec	77deg 31min 24.6sec	1.10	10.00	10.00	Translocation	Translocation	• Tree is with minor defects and present in the centre of the project area (proposed for depot.) • Tree is having clear bole, one major branch was already pruned. • This tree located near tree No.124 hence, care should be taken while excavating appropriate root ball
29	121	Kumkuma	12deg 51min 30.0sec	77deg 31min 23.3sec	0.21	4.50	3.00	Translocation	Translocation	• Tree is located in the proposed project area and situated near tree No. 120 (less than 1 meter). • Young trees care should be taken during root ball excavation.
30	122	Shivane	12deg 51min 30.3sec	77deg 31min 23.1sec	0.24	3.00	3.00	Translocation	Translocation	• Tree is with minor defects and present in the project area (proposed for depot.) • Young and small tree having 3 branches from the base, one branch is bent towards the ground. • This tree is recommended for transplantation by pruning one branch which is bent towards the ground.
31	123	Hebbevu	12deg 51min 30.3sec	77deg 31min 23.0sec	0.69	10.00	8.00	Translocation	Translocation	• Tree is with minor defects and present in the project area (proposed for depot.) • Tree is young, no visual significant symptoms, clear straight bole and it is near tree No. 111. • Hence, proper care should be taken during the transplantation/translocation process involving excavation of root ball, recommended for transplantation/translocation.
32	126	Hebbevu	12deg 51min 30.2sec	77deg 31min 22.8sec	0.52	8.00	6.00	Translocation	Translocation	• Tree present in the center of the project area (proposed for depot.) • Young seedling, with clear bole and visual significant symptoms and it is near tree no 114 at a distance of less than 1 meter. • Hence, proper care should be taken during the transplantation/translocation process involving excavation of root ball.

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Location: Reach-4B, U M Kaval.

33	127	Thorematti	12deg 51min 30.3sec	77deg 31min 22.8sec	0.27	4.50	4.00	Translocation	Translocation	• Tree present in the centre of the project area (proposed for depot.) • Young seedling, with clear bole and visual significant symptoms and it is near tree no 113 at a distance of less than 1 meter. • Hence, proper care should be taken during the transplantation/translocation process involving excavation of root ball.
34	128	Kumkuma	12deg 51min 30.3sec	77deg 31min 22.8sec	0.16	3.50	3.00	Translocation	Translocation	• Tree present in the center of the project area (proposed for depot.) • Young seedling, and it is near to tree No.129.hence, care should be taken while excavating root ball for transplantation.
35	129	Kumkuma	12deg 51min 30.4sec	77deg 31min 22.8sec	0.21	3.50	3.00	Translocation	Translocation	• Tree present in the center of the project area. • Young seedling, and it is near to tree No.128.hence, care should be taken while excavating root ball for transplantation.
36	130	Nerale	12deg 51min 30.1sec	77deg 31min 22.7sec	0.26	4.00	3.00	Translocation	Translocation	• Tree is present in the center of the project area (proposed for depot.) • Young seedling hence, care should be taken while excavation root ball for transplantation .

Summary:

Total Number Enumerated Trees	130
Total number of Trees assessed as suitable for Translocation	36

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

TEMPLATE No. 6

PARTICULARS ON TREES TO BE FELLED*

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

Name of the user agency	Bangalore Metro Rail Corporation Limited
Purpose of the project	Construction of Anjanapura Depot and Viaduct for Depot entry line in Reach 4B via Kanakapura Road.
Extent of the project area	0.71 Ha
Location of the project area	U M Kaval forest area Survey no.38 in Kanakapura road. 1.Starting Point: Lat -12 deg 51min 20.1Sec Long -77 deg 31 min 30.4 Sec 2.Ending Point: Lat -12 deg 51min 30 Sec Long -77 deg 31min 21.8 Sec
Number of tree(s) enumerated in the project area	130 Trees
Number of tree(s) recommended for felling	87 Trees

* Note:

List of the trees to be felled containing details of kind / species, girth, height, GPS coordinates should be appended to this template. These details should be extracted from relevant parts of Template2.

Date:

TreeOfficer

Application No:BMRCL/0023/P2/R4B/2020-21/93 Dated: 26.11.2020

Location: Reach-4B, U M Kaval.

List of Trees Recommendation for Felling

Appendix - 3

Sl No	Tree Number	Species	Location		Girth in Mtr	Height in Mtr	Crown Spread in Sq.Mtr	TEC Recommendation	Tree Officer Recommendation	Justification
			Latitude (N)	Longitude (E)						
1	3	Gulmohar	12deg 51min 23.4sec	77deg 31min 33.4sec	0.32	6.00	3.00	Felling	Felling	The tree cannot be retained as the construction of pile cap (for DP 01) as per plan is proposed close to the location of the tree. The tree is present in cluster closer to other trees; therefore, excavation of desirable root ball for transplantation is not possible. **Recommendation : Felling.**
2	4	Gulmohar	12deg 51min 23.4sec	77deg 31min 33.4sec	0.23	5.50	2.00	Felling	Felling	The tree cannot be retained as the construction of pile cap (for DP 01) as per plan is proposed close to the location of the tree. The tree is present in cluster closer to other trees; therefore, excavation of desirable root ball for transplantation is not possible. **Recommendation: Felling.**
3	5	Gulmohar	12deg 51min 23.5sec	77deg 31min 33.4sec	0.22	6.50	2.00	Felling	Felling	The tree cannot be retained as the construction of pile cap (for DP 01) as per plan is proposed close to the location of the tree. The tree is present in cluster closer to other trees; therefore, excavation of desirable root ball for transplantation is not possible. **Recommendation : Felling.**
4	6	Gulmohar	12deg 51min 23.5sec	77deg 31min 33.4sec	0.27	6.50	3.00	Felling	Felling	The tree cannot be retained as the construction of pile cap (for DP 01) as per plan is proposed close to the location of the tree. The tree is present in cluster closer to other trees; therefore, excavation of desirable root ball for transplantation is not possible. Recommendation : Felling.

Sl No	Tree Number	Species	Location		Girth in Mtr	Height in Mtr	Crown Spread in Sq.Mtr	TEC Recommendation	Tree Officer Recommendation	Justification
			Latitude (N)	Longitude (E)						
5	7	Gulmohar	12deg 51min 23.5sec	77deg 31min 33.5sec	0.75	8.50	8.00	Felling	Felling	The tree cannot be retained as the construction of pile cap (for DP 01) as per plan is proposed close to the location of the tree. The tree is present in cluster closer to other trees; therefore, excavation of desirable root ball for transplantation is not possible. **Recommendation : Felling.**
6	8	Gulmohar	12deg 51min 23.5sec	77deg 31min 33.5sec	0.75	9.00	6.00	Felling	Felling	The tree cannot be retained as the construction of pile cap (for DP 01) as per plan is proposed close to the location of the tree. The tree is present in cluster closer to other trees; therefore, excavation of desirable root ball for transplantation is not possible. **Recommendation : Felling.**
7	9	Shivane	12deg 51min 23.8sec	77deg 31min 33.5sec	0.72	8.50	5.00	Felling	Felling	The tree cannot be retained as the construction of pile cap (for DP 01) as per plan is proposed very close to the location of the tree. The tree is matured with severe canker and decay symptom therefore, transplantation is not possible. **Recommendation : Felling.**
8	10	Thare	12deg 51min 24.2sec	77deg 31min 33.7sec	2.17	13.00	20.00	Felling	Felling	The tree cannot be retained as the construction of pile Cap (for DP 02) as per plan is proposed very close to the location of the tree. The tree is matured and the base is conjoined with tree no. 12, therefore transplantation is not possible. **Recommendation : Felling.**

Sl No	Tree Number		Species	Location		Girth in Mtr	Height in Mtr	Crown Spread in Sq.Mtr	TEC Recommendation	Tree Officer Recommendation	Justification
				Latitude (N)	Longitude (E)						
9	11		Sandal	12deg 51min 24.2sec	77deg 31min 33.6sec	0.19	6.50	2.00	Felling	Felling	The tree is Recommendation for extraction as the construction of pile Cap (for DP 02) as per plan is proposed very close to the location of the tree. The base of the tree is conjoined with tree no. 12, therefore transplantation of the tree is not possible. **Recommendation :Extraction/ Felling.**
10	13		Hebbevu	12deg 51min 25.4sec	77deg 31min 33.3sec	1.05	11.50	6.00	Felling	Felling	The tree is Recommendation for felling as the tree is dried completely. **Recommendation : Felling.**
11	14	14a	Subabul	12deg 51min 27.2sec	77deg 31min 32.4sec	0.34	6.30	5.00	Felling	Felling	The tree cannot be retained as the construction of pile cap (for DP 07 & 06) as per plan is proposed near to the location of the tree. The tree is present in cluster closer to other trees; therefore, excavation of desirable root ball for transplantation is not possible. **Recommendation : Felling.**
		14b				0.15	6.30	4.00	Felling	Felling	
12	15		Subabul	12deg 51min 27.2sec	77deg 31min 32.4sec	0.23	6.00	5.00	Felling	Felling	The tree cannot be retained as the construction of pile Cap (for DP 07 & 6) as per plan is proposed near to the location of the tree. The tree shows canker symptoms and is present in cluster closer to other trees excavation of desirable root ball for transplantation is not possible. **Recommendation : Felling.**

Sl No	Tree Number	Species	Location		Girth in Mtr	Height in Mtr	Crown Spread in Sq.Mtr	TEC Recommendation	Tree Officer Recommendation	Justification
			Latitude (N)	Longitude (E)						
13	16	Subabul	12deg 51min 27.1sec	77deg 31min 32.3sec	0.56	8.00	6.00	Felling	Felling	The tree cannot be retained as the construction of pile Cap (for DP 07 & 6) as per plan is proposed near to the location of the tree. The tree is with decay symptoms and in addition the tree is present in cluster closer to other trees; therefore, excavation of desirable root ball for transplantation is not possible. **Recommendation : Felling.**
14	17	Subabul	12deg 51min27.2 sec	77deg 31min 32.3sec	0.34	8.00	5.00	Felling	Felling	The tree cannot be retained as the construction of pile Cap (for DP 07 & 6) as per plan is proposed near to the location of the tree. The tree shows canker symptoms and in addition the tree is present in cluster closer to other trees: therefore, excavation of desirable root ball for transplantation is not possible. **Recommendation : Felling.**
15	19	Honge	12deg 51min 27.3sec	77deg 31min 32.2sec	0.62	8.50	8.00	Felling	Felling	The tree cannot be retained as the construction of pile Cap (for DP 07 & 6) as per plan is proposed very close to the location of the tree. The tree is matured and the base is close to tree no.20 and 21 therefore transplantation is not possible. **Recommendation : Felling.**
16	20	Honge	12deg 51min 27.3sec	77deg 31min 32.2sec	0.58	9.50	8.00	Felling	Felling	The tree cannot be retained as the construction of pile Cap (for DP 07 & 6) as per plan is proposed very close to the location of the tree. The tree is matured and the base is closed to tree no.19 and 21 therefore transplantation is not possible. **Recommendation: Felling.**

Sl No	Tree Number	Species	Location		Girth in Mtr	Height in Mtr	Crown Spread in Sq.Mtr	TEC Recommendation	Tree Officer Recommendation	Justification
			Latitude (N)	Longitude (E)						
17	21	Honge	12deg 51min 27.3sec	77deg 31min 32.1sec	0.47	3.00	1.00	Felling	Felling	The tree cannot be retained as the construction of pile Cap (for DP 07 & 6) as per plan is proposed very close to the location of the tree. The tree is matured and the base is closed to tree no.20 and 21 therefore transplantation is not possible. **Recommendation : Felling.**
18	22	Honge	12deg 51min 27.4sec	77deg 31min 32.2sec	0.38	2.50	6.00	Felling	Felling	The tree cannot be retained as the construction of pile Cap (for DP 07 & 6) as per plan is proposed very close to the location of the tree. The tree is matured and the base is closed to tree no.24 therefore transplantation is not possible. **Recommendation : Felling.**
19	24	Jagalaganti	12deg 51min 27.4sec	77deg 31min 32.2sec	0.25	4.00	1.50	Felling	Felling	The tree cannot be retained as the construction of pile Cap (for DP 07 & 6) as per plan is proposed very close to the location of the tree. The tree is matured and the base is closed to tree no.22 and 21 therefore transplantation is not possible. **Recommendation : felling.**
20	26	Honge	12deg 51min 27.4sec	77deg 31min 32.1sec	0.42	6.00	5.00	Felling	Felling	The tree cannot be retained as the construction of pile Cap (for DP 07) as per plan is proposed very close to the location of the tree. The tree is matured and the base is conjoined with tree no.27 ,28,and 29, therefore transplantation is not possible. **Recommendation : Felling**

Sl No	Tree Number	Species	Location		Girth in Mtr	Height in Mtr	Crown Spread in Sq.Mtr	TEC Recommendation	Tree Officer Recommendation	Justification
			Latitude (N)	Longitude (E)						
21	27	Honge	12deg 51min 27.4sec	77deg 31min 32.1sec	0.27	5.00	2.00	Felling	Felling	The tree cannot be retained as the construction of pile Cap (for DP 07) as per plan is proposed very close to the location of the tree. The tree is matured and the base is conjoined with tree no.26,28 and 29, therefore transplantation is not possible. **Recommendation : Felling.**
22	28	Jungle Tree	12deg 51min 27.4sec	77deg 31min 32.1sec	0.16	3.00		Felling	Felling	The tree cannot be retained as the construction of pile Cap (for DP 07) as per plan is proposed very close to the location of the tree. The tree is matured and the base is conjoined with tree no.26,28 and 29, therefore transplantation is not possible. **Recommendation : felling.**
23	29	Jagalaganti	12deg 51min 27.4sec	77deg 31min 32.1sec	0.15	3.00	2.00	Felling	Felling	The tree cannot be retained as the construction of pile Cap (for DP 07) as per plan is proposed very close to the location of the tree. The tree is matured and the base is conjoined with tree no.26,27 and 28, therefore transplantation is not possible. **Recommendation : Felling.**
24	30	Cherry	12deg 51min 26.9sec	77deg 31min 32.8sec	**0.66**	**3.00**		Felling	Felling	The tree should be retained as the tree is present outside the project area as per plan. However, it was observed the tree was enumerated and found dead and fallen. **Recommendation :Felling**

Sl No	Tree Number	Species	Location		Girth in Mtr	Height in Mtr	Crown Spread in Sq.Mtr	TEC Recommendation	Tree Officer Recommendation	Justification
			Latitude (N)	Longitude (E)						
25	32	Banni	12deg 51min 27.6sec	77deg 31min 31.7sec	0.67	8.00	8.00	Felling	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed very close to the location of the tree. The tree is matured and the roots are exposed, therefore transplantation is not possible. **Recommendation : Felling.**
26	33	Tapala	12deg 51min 27.7sec	77deg 31min 31.6sec	1.55	13.00	10.00	Felling	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed very close to the location of the tree. The tree is matured therefore transplantation is not possible. **Recommendation : Felling.**
27	34	Shivane	12deg 51min 27.7sec	77deg 31min 31.6sec	0.25	5.00	3.00	Felling	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed very close to the location of the tree. The base of the tree is very close to tree no. 35 ,therefore transplantation is not possible. **Recommendation : Felling.**
28	35	Shivane	12deg 51min 27.7sec	77deg 31min 31.6sec	0.25	5.00	3.00	Felling	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed very close to the location of the tree. The base of the tree is very close to tree no.34, therefore transplantation is not possible. **Recommendation : Felling.**

Sl No	Tree Number	Species	Location		Girth in Mtr	Height in Mtr	Crown Spread in Sq.Mtr	TEC Recommendation	Tree Officer Recommendation	Justification
			Latitude (N)	Longitude (E)						
29	37	Subabul	12deg 51min 27.7sec	77deg 31min 31.5sec	0.18	3.00	2.00	Felling	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of earth) as per plan is proposed very close to the location of the tree. The roots of tree are exposed. Therefore, the tree do not qualify for transplantation. **Recommendation : Felling**
30	40	Gobbarada gida	12deg 51min 27.9sec	77deg 31min 31.2sec	0.19	5.00	1.00	Felling	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed very close to the location of the tree. The base of the tree is close to tree no. 43, thereforethe tree do not qualify for transplantation.. **Recommendation : Felling.**
31	41	Gobbarada gida	12deg 51min 27.8sec	77deg 31min 31.2sec	0.26	6.00	2.00	Felling	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in the location of the tree. The roots of the tree are exposed; therefore, the tree do not qualify for transplantation. **Recommendation :Felling.**
32	42	Subabul	12deg 51min 27.8sec	77deg 31min 31.3sec	0.23	6.50	2.00	Felling	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in the location of the tree. The roots of the tree are exposed; therefore, the tree do not qualify for transplantation. **Recommendation :Felling.**

Sl No	Tree Number	Species	Location		Girth in Mtr	Height in Mtr	Crown Spread in Sq.Mtr	TEC Recommendation	Tree Officer Recommendation	Justification
			Latitude (N)	Longitude (E)						
33	43	Gobbarada gida	12deg 51min 27.0sec	77deg 33min 10.7sec	0.17	4.00	2.00	Felling	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in the location of the tree. The base of the tree is close to tree no.40, therefore the tree do not qualify for transplantation. **Recommendation: Felling.**
34	44	Gobbarada gida	12deg 51min 28.0sec	77deg 31min 31.2sec	0.31	5.00	2.00	Felling	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in he location of the tree. The base of the tree is close to tree no.45, therefore the tree do not qualify for transplantation. **Recommendation : Felling.**
35	45	Gobbarada gida	12deg 51min 28.0sec	77deg 31min 31.2sec	0.25	6.00	1.00	Felling	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in the location of the tree. The base of the tree is close to tree no.44, therefore the tree do not qualify for transplantation. **Recommendation : felling.**
36	46	Gobbarada gida	12deg 51min 27.9sec	77deg 31min 31.1sec	0.24	6.00	1.00	Felling	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in the location of the tree. The base of the tree is close to tree no.47 and 48, therefore the tree do not qualify for transplantation. **Recommendation: Felling.**

Sl No	Tree Number	Species	Location		Girth in Mtr	Height in Mtr	Crown Spread in Sq.Mtr	TEC Recommendation	Tree Officer Recommendation	Justification
			Latitude (N)	Longitude (E)						
37	47	Gobbarada gida	12deg 51min 27.9sec	77deg 31min 31.1sec	0.29	5.00	2.00	Felling	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed very close to the location of the tree. The base of the tree is close to tree no.46 and 48, therefore the tree do not qualify for transplantation. **Recommendation : Felling.**
38	48	Gobbarada gida	12deg 51min 27.9sec	77deg 31min 31.1sec	0.32	2.50	2.00	Felling	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in the location of the tree. The base of the tree is close to tree no.46 and 47, therefore the tree do not qualify for transplantation. **Recommendation : felling.**
39	49	Gobbarada gida	12deg 51min 27.9sec	77deg 31min 31.2sec	0.26	6.00	2.00	Felling	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in the location of the tree. The roots of the tree are exposed; therefore, the tree do not qualify for transplantation. **Recommendation : Felling**
40	51	Gobbarada gida	12deg 51min 28.0sec	77deg 31min 30.9sec	0.87	6.00	4.00	Felling	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of earth) as per plan is proposed in the location of the tree. The tree is multiforked with included barks (weak branch union), therefore the tree do not qualify for transplantation. **Recommendation : Felling.**

Sl No	Tree Number	Species	Location		Girth in Mtr	Height in Mtr	Crown Spread in Sq.Mtr	TEC Recommendation	Tree Officer Recommendation	Justification
			Latitude (N)	Longitude (E)						
41	52	Gobbarada gida	12deg 51min 28.1sec	77deg 31min 31.0sec	0.25	6.00	2.00	Felling	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in the location of the tree. The base of the tree is close to tree no.53, therefore the tree do not qualify for transplantation. **Recommendation : felling.**
42	53	Gobbarada gida	12deg 51min 28.1sec	77deg 31min 31.0sec	0.29	6.50	2.00	Felling	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of earth) as per plan is proposed in the location of the tree. The base of the tree is close to tree no.52, therefore the tree do not qualify for transplantation. **Recommendation: Felling.**
43	54 54a	Subabul	12deg 51min 28.1sec	77deg 31min 30.9sec	0.41	6.00	6.00	Felling	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of earth) as per plan is proposed in the location of the tree. The tree is forked with included barks (weak branch union), therefore the tree do not qualify for transplantation. **Recommendation : Felling.**
	54b	Subabul			0.30	6.00	1.00	Felling	Felling	
44	55	Jungle Tree	12deg 51min 28.2sec	77deg 31min 30.8sec	0.41	6.00	1.00	Felling	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of earth) as per plan is proposed in the location of the tree. The base of the tree is close to tree no.57, therefore the tree do not qualify for transplantation. **Recommendation : Felling.**

Sl No	Tree Number		Species	Location		Girth in Mtr	Height in Mtr	Crown Spread in Sq.Mtr	TEC Recommendation	Tree Officer Recommendation	Justification
				Latitude (N)	Longitude (E)						
45	56		Hale Tree	12deg 51min 28.2sec	77deg 31min 30.7sec	0.30	5.00	3.00	Felling	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in the location of the tree. The base of the tree is close to tree no.58, therefore the tree do not qualify for transplantation. **Recommendation :Felling.**
46	57		Tapala	12deg 51min 28.2sec	77deg 31min 30.8sec	1.40	4.50		Felling	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in the location of the tree. The tree is severely infested by secondary infestors and partially dried, therefore the tree do not qualify for transplantation. **Recommendation: felling.**
47	58		Gobbarada gida	12deg 51min 28.3sec	77deg 31min 30.6sec	0.24	4.50	2.00	Felling	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in the location of the tree. The base of the tree is close to tree no.56, therefore the tree do not qualify for transplantation. **Recommendation :Ffelling.**
48	59	59a	Gobbarada gida	12deg 51min 28.3sec	77deg 31min 30.7sec	0.23	4.50	2.00	Felling	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in the location of the tree. The base of the tree is close to tree no.60, therefore the tree do not qualify for transplantation. **Recommendation : Felling.**
		59b				0.20	4.50	1.00	Felling	Felling	

Sl No	Tree Number	Species	Location		Girth in Mtr	Height in Mtr	Crown Spread in Sq.Mtr	TEC Recommendation	Tree Officer Recommendation	Justification
			Latitude (N)	Longitude (E)						
49	60	Gobbarada gida	12deg 51min 28.3sec	77deg 31min 30.6sec	0.24	4.00	2.00	Felling	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in the location of the tree. The base of the tree is close to tree no.60, therefore the tree do not qualify for transplantation. **Recommendation : Felling.**
50	61	Subabul	12deg 51min 28.4sec	77deg 31min 30.6sec	0.51	8.00	5.00	Felling	Felling	• Tree is located in the proposed project area. • Tree is situated near to the existing compound wall; appropriated root ball cannot be excavated. Hence this tree is Recommendation for felling.
51	62	Thare	12deg 51min 28.0sec	77deg 31min 30.6sec	1.70	11.00	10.00	Felling	Felling	• Tree is located within the project area. • Tree is silviculturally matured, girdled at the base of the trunk and also mechanically damaged. • hence this tree disqualifies transplantation.Hence this tree is Recommendation for felling.
52	63	Thare	12deg 51min 28.1sec	77deg 31min 30.4sec	0.76	8.00	6.00	Felling	Felling	• Tree is located within the project area. • Tree has forked branches and mechanically damages. • Hence, this tree is unfit for transplantation.Hence this tree is Recommendation for felling.
53	64	Thare	12deg 51min 28.1sec	77deg 31min 30.4sec	0.25	4.50	4.00	Felling	Felling	• Tree is located within the project area. • Tree has forked branches and mechanically damages. • Hence, this tree is unfit for transplantation.Hence this tree is Recommendation for felling.

Sl No	Tree Number		Species	Location		Girth in Mtr	Height in Mtr	Crown Spread in Sq.Mtr	TEC Recommendation	Tree Officer Recommendation	Justification
				Latitude (N)	Longitude (E)						
54	65		Thare	12deg 51min 28.1sec	77deg 31min 30.4sec	0.79	9.00	6.00	Felling	Felling	• Tree is located within the project area. • Tree has forked branches and mechanically damages. • Hence, this tree is unfit for transplantation. Hence this tree is Recommendation for felling.
55	68		Gobbarada gida	12deg 51min 28.8sec	77deg 31min 29.1sec	0.29	6.00	4.00	Felling	Felling	• The tree is located in the project area. • The tree having multiple branches, and is located near the existing compound wall. • Hence, this tree is unfit for transplantation.
56	70		Achalu	12deg 51min 28.8sec	77deg 31min 28.9sec	0.59	4.50	5.00	Felling	Felling	• Tree located in the project area. • Half of the trunk is already damaged. • Hence, this tree does not fit for transplantation.Hence this tree is Recommendation for felling.
57	72		Tapala	12deg 51min 29.0sec	77deg 31min 28.8sec	0.45	5.00	1.00	Felling	Felling	• Tree is located within the project area. • Tree is leaned and bent; major branches are already dried. • Hence this tree does not fit for transplantationHence this tree is Recommendation for felling.
58	73	73a	Seemethangadi	12deg 51min 29.3sec	77deg 31min 28.5sec	0.48	6.00	4.00	Felling	Felling	• Tree No.81,82 are very nearer and are at a circumference of not more 1 meter and these trees. Hence, appropriate root ball cannot be taken for successful transplantation. • Hence, this tree is unfit for transplantation. Hence this tree is Recommendation for felling.
		73b				0.41	6.00	4.00			
		73c				0.40	4.00	4.00			

Sl No	Tree Number	Species	Location		Girth in Mtr	Height in Mtr	Crown Spread in Sq.Mtr	TEC Recommendation	Tree Officer Recommendation	Justification
			Latitude (N)	Longitude (E)						
59	74	Seemethangadi	12deg 51min 29.3sec	77deg 31min 28.5sec	0.58	7.00	5.00	Felling	Felling	• Tree No.81,82 are very nearer and are at a circumference of not more 1 meter and these trees. Hence, appropriate root ball cannot be taken for successful transplantation. • Hence, this tree is unfit for transplantation.Hence this tree is Recommendation for felling.
60	75	Seemethangadi	12deg 51min 29.3sec	77deg 31min 28.5sec	0.56	7.00	5.00	Felling	Felling	• Tree No.83,82 are very nearer to this tree and at a distance of less than 0.5 meter. Hence, appropriate root ball cannot be excavated. • Tree is having minimal ecological importance. • Based on these factors, this tree is unfit for transplantation.Hence this tree is Recommendation for felling.
61	76	Shivane	12deg 51min 29.5sec	77deg 31min 28.2sec	0.31	4.50	3.00	Felling	Felling	• Tree No.84,85,86 are very nearer and are at a circumference of not more 1 meter and these trees are located near the adjacent compound wall. Hence, appropriate root ball cannot be taken for successful transplantation. • Hence, this tree is unfit for transplantation.Hence this tree is Recommendation for felling.
62	77	Shivane	12deg 51min 29.5sec	77deg 31min 28.2sec	0.35	5.00	4.00	Felling	Felling	• Tree No.84,85,86 are very nearer and are at a circumference of not more 1 meter and these trees are located near the adjacent compound wall. Hence, appropriate root ball cannot be taken for successful transplantation. • Hence, this tree is unfit for transplantation.Hence this tree is Recommendation for felling.

Sl No	Tree Number	Species	Location		Girth in Mtr	Height in Mtr	Crown Spread in Sq.Mtr	TEC Recommendation	Tree Officer Recommendation	Justification
			Latitude (N)	Longitude (E)						
63	78	Shivane	12deg 51min 29.5sec	77deg 31min 28.2sec	0.47	3.00	6.00	Felling	Felling	• Tree No.84,85,86 are very nearer and are at a circumference of not more 1 meter and these trees are located near the adjacent compound wall.. Hence, appropriate root ball cannot be taken for successful transplantation. • Hence, this tree is unfit for transplantation. Hence this tree is Recommendation for felling.
64	79	Seemethangadi	12deg 51min 29.4sec	77deg 31min 28.1sec	0.54	7.00	6.00	Felling	Felling	• Trees are having multiple branches and tree No.88, very nearer to this tree and at a distance of less than 0.5 meter. Hence, appropriate root ball cannot be excavated. • Tree is having minimal ecological importance. • Based on these factors, this tree is unfit for transplantation.Hence this tree is Recommendation for felling.
65	80	Seemethangadi	12deg 51min 29.4sec	77deg 31min 28.1sec	0.42	7.00	5.00	Felling	Felling	• Trees are having multiple branches and tree No.87, very nearer to this tree and at a distance of less than 0.5 meter. Hence, appropriate root ball cannot be excavated. • Tree is having minimal ecological importance. • Based on these factors, this tree is unfit for transplantation. Hence this tree is Recommendation for felling.
66	81	Hebbevu	12deg 51min 29.6sec	77deg 31min 27.9sec	0.67	8.00	7.00	Felling	Felling	• Tree is situated in the proposed alignment of depot. • Tree is mechanically damaged and attacked be termites. • Hence, tree disqualifies for transplantation. Hence this tree is Recommendation for felling.

Sl No	Tree Number		Species	Location		Girth in Mtr	Height in Mtr	Crown Spread in Sq.Mtr	TEC Recommendation	Tree Officer Recommendation	Justification
				Latitude (N)	Longitude (E)						
67	82	82a	Barsera	12deg 51min 29.6sec	77deg 31min 27.8sec	0.67	5.00	10.00	Felling	Felling	• Tree is located in the proposed alignment of depot. • This tree is silviculturally matured, major branches of this tree are already fallen • More than 70 per cent of the tree is already dried. • Hence, this tree is not fit for transplantation.Hence this tree is Recommendation for felling.
		82b				0.66	5.00	10.00			
68	87		Kaggali	12deg 51min 29.6sec	77deg 31min 27.3sec	0.30	4.20	1.50	Felling	Felling	• Tree is located in the proposed alignment. • Tree is having minimal ecological importance and also mechanically damaged. • Hence ,not fit for transplantationHence this tree is Recommendation for felling.
69	88		Kaggali	12deg 51min 29.7sec	77deg 31min 27.2sec	0.38	4.20	2.00	Felling	Felling	• Tree is located in the proposed alignment. • Tree is having minimal ecological importance and also mechanically damaged. • Hence, not fit for transplantation. Hence this tree is Recommendation for felling.
70	89		Barsera	12deg 51min 29.8sec	77deg 31min 27.0sec	1.20	3.60	5.00	Felling	Felling	• Tree is within the project area. • Tree matured, half of the trunk was damaged and has termite attack, three branches were already felled and one more branch was fallen.Hence this tree is Recommendation for felling.
71	94		Bidru	12deg 51min 29.8sec	77deg 31min 26.8sec	**50(culms)**			Felling	Felling	• This is located in the proposed project depot. • This is having more than 25culms, which spreads over more than 2 square meter, hence not possible to excavate appropriate root ball for successful transplantation. • Hence Recommendation for felling

Sl No	Tree Number	Species	Location		Girth in Mtr	Height in Mtr	Crown Spread in Sq.Mtr	TEC Recommendation	Tree Officer Recommendation	Justification
			Latitude (N)	Longitude (E)						
72	96	Kaggali	12deg 51min 29.9sec	77deg 31min 26.3sec	0.42	3.00	2.00	Felling	Felling	• Tree is within the project area ,tree is having multiple branches, one branch was fallen.Hence this tree is Recommendation for felling.
73	98	Tupera	12deg 51min 29.9sec	77deg 31min 26.2sec	0.26	3.00	1.00	Felling	Felling	• Tree is within the project area. All the branches of this tree are already pruned and also mechanically damaged. • Hence Recommendation for felling.
74	101	Tapala	12deg 51min 30.2sec	77deg 31min 26.1sec	0.70	10.00	25.00	Felling	Felling	• Tree is within the proposed depot. • Tree is silviculturally matured, and two major branches are dried. • Steam knots on the main trunk. • Based on this character's tree does not fit for translocation/transplantation.Hence this tree is Recommendation for felling.
75	102	Bidru	12deg 51min 30.2sec	77deg 31min 26.1sec	30(culms)			Felling	Felling	• Tree is in the proposed depot. • There are more than 11 culms spreading more than 1.5-meter area. • Excavation of appropriate root ball is not possible for translocation/transplantation. Hence this tree is Recommendation for felling.
76	104	Bidru	12deg 51min 30.2sec	77deg 31min 25.9sec	30(culms)			Felling	Felling	• Tree is present in the center of the project area. • There are more than 15 culms, not possible to excavate appropriate root ball. • Hence Recommendation for felling.
77	105	105 a	Barsera	12deg 51min 29.7sec	77deg 31min 25.9sec	0.77	5.00	10.00	Felling	Felling	• Tree is in the proposed depot. • Tree has forked branches, more than 50 percent of the branches are fallen and dried. Hence, tree does not fit for transplantation/translocation. Hence this tree is Recommendation for felling.
		105 b				0.78	5.00	10.00		

Sl No	Tree Number		Species	Location		Girth in Mtr	Height in Mtr	Crown Spread in Sq.Mtr	TEC Recommendation	Tree Officer Recommendation	Justification
				Latitude (N)	Longitude (E)						
78	108		Tapala	12deg 51min 29.8sec	77deg 31min 25.4sec	2.20	9.00	15.00	Felling	Felling	• Tree is present in the center of the project area. • Tree is silviculturally matured, one of the branch is chopped, dried and decayed. • The main trunk is canker faces and knots. • The conditions has mentioned above do not qualify the tree for transplantation/translocation.Hence this tree is Recommendation for felling.
79	109	109a	Shivane	12deg 51min 29.9sec	77deg 31min 25.4sec	0.28	5.00	2.00	Felling	Felling	• Tree is present in the center of the project area. • Tree has multiple (8) branches, one branch was already felled. • Tree is mechanically damaged; two branches were already dried. • Based on the above characters, this tree does not fit for transplantation/translocation. Hence this tree is Recommendation for felling.
		109b				0.40	5.00	2.00			
		109c				0.4	5.00	2.00			
80	110	110a	Kumkuma	12deg 51min 30.1sec	77deg 31min 25.6sec	0.18	3.00	2.00	Felling	Felling	• Tree is present in the center of the project. • Tree has multiple branches; Three branches are already dried. • Based on the above characters, this tree does not fit for transplantation/translocation. Hence this tree is Recommendation for felling.
		110b				0.2	3.00	2.00			
		110c				0.15	3.00	2.00			
		110d				0.1	3.00	2.00			
		110e				0.1	3.00	2.00			

Sl No	Tree Number	Species	Location		Girth in Mtr	Height in Mtr	Crown Spread in Sq.Mtr	TEC Recommendation	Tree Officer Recommendation	Justification
			Latitude (N)	Longitude (E)						
81	114	Jungle Tree	12deg 51min 29.8sec	77deg 31min 25.2sec	0.55	5.00	3.00	Felling	Felling	• Tree is located in the proposed project area. • Tree has forked branches from 2 feet from the ground level. One branch of the tree is already fallen and dried and also mechanically damaged. • Hence, based on the above characters, this tree is not suitable for transplantation.Hence this tree is Recommendation for felling.
82	117	Subabul	12deg 51min 30.1sec	77deg 31min 24.0sec	0.94	8.00	8.00	Felling	Felling	• Tree is present in the center of the project area (proposed for depot). • This tree is near tree No.108, having multiple branches (3) from the base. • Hence, Recommendation for felling.
83	118	Bidru	12deg 51min 30.1sec	77deg 31min 23.9sec	200Culms (4 Clumps)			Felling	Felling	• Tree is present in the center of the project area (proposed for depot). • The tree has 8 culmps, not possible to excavate root ball. • The conditions mentioned above do not qualify the tree for transplantation/translocation.Hence this tree is Recommendation for felling.
84	119	Tapsi	12deg 51min 30.2sec	77deg 31min 23.3sec	0.45	5.00	5.00	Felling	Felling	• Tree is present in the center of the project area (proposed for depot). • Tree is mechanically damaged, partially uprooted due to mechanical injured and tree bent towards the ground. Hence this tree is Recommendation for felling.

Sl No	Tree Number		Species	Location		Girth in Mtr	Height in Mtr	Crown Spread in Sq.Mtr	TEC Recommendation	Tree Officer Recommendation	Justification
				Latitude (N)	Longitude (E)						
85	120	120a	Tapsi	12deg 51min 30.0sec	77deg 31min 23.3sec	0.4	6.00	2.00	Felling	Felling	• Tree is proposed project area • Tree is having multiple branches, mechanically damaged. • Because of multiple branches, appropriate root ball cannot be excavated. • Hence, this tree is unfit for transplantation. **Hence this tree is Recommendation for felling.**
		120b				0.2	6.00	2.00			
		120c				0.15	6.00	2.00			
		120d				0.15	6.00	2.00			
86	124		Tapala	12deg 51min 30.3sec	77deg 31min 23.0sec	0.65	10.30	15.00	Felling	Felling	• Tree is with minor defects and present in the project area (proposed for depot.) • Tree is silviculturally matured, two major branches for already fallen and one major branch was dried. • There are canker faces and fissures at the base. • The conditions as mentioned above disqualify the tree for transplantation /translocation.Hence this tree is Recommendation for felling.
87	125	125a	Seemethangadi	12deg 51min 30.2sec	77deg 31min 22.9sec	0.65	7.50	6.00	Felling	Felling	• This tree is near tree no.111 and at a distance of less than 1 meter from tree No.111. • Tree has multiple (6) branches, one branch was dried. • Hence ,Recommendation for felling.
		125b				0.3	7.50	3.00			
		125c				0.2	7.50	8.00			

Summary:

Total Number Enumerated Trees	130
Total number of Trees assessed as suitable for Felling	87

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

Report of Tree Expert Committee

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

Application No.: BMRCL/0023/Ph-2/R4B/2020-2021/93 dtd 26.11.2020

Project Area: Bengaluru Metro Rail Project for Construction of Anjanapura Depot and Viaduct for Depot Entry Line in Reach 4B via Kanakapura Road, Bengaluru

Location: **Anjanapura Depot, UM Kaval, Bengaluru**

Dated: 03.09.2021

2

Contents

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

Application No.: BMRCL/0023/PHASE 2/R4B/2020-2021/93 dtd 26.11.2020

Project Area: Anjanapura Depot, UM Kaval, Bengaluru

1. As per the orders of the Hon'ble High Court of Karnataka, the Memorandum of Procedure (herein after mentioned as MOP December – 2020) was submitted on 09.12.2020 duly incorporating the directions of the Hon'ble High Court and the work of the Tree Expert Committee (hereinafter mentioned as TEC) was carried out as per the process elucidated in the MOP.

2. The Tree Officer & Deputy Conservator of Forests, Bengaluru Urban Division submitted his preliminary assessment regarding the application filed by Bangalore Metro Rail Corporation Ltd (BMRCL) pertaining to 130 numbers of trees standing in the project area at Anjanapura Depot, Bengaluru. The preliminary assessment was accompanied by following documents:

    i. A copy of the application dated 26.11.2020 from BMRCL along with details and map of the area and details of trees including GPS coordinates

    ii. The public notice dated 30.11.2020 issued by the Tree Officer & DCF, Bangalore Urban Division, a complete set of the objections/suggestions from the public and a copy of the proceedings dated 15.12.2020 of the Tree Officer regarding consideration of the objections/suggestions as per Section 8(3)(vii) of the Karnataka Preservation of Trees Act, 1976 (Henceforth referred as KPT Act)

    iii. Tree Assessment Forms in Template 2 with Part I (dated 21.12.2020) containing tree details as furnished by Range Forest Officer and Part II (dated 28.12.2020) containing preliminary assessment by the Tree Officer for each of 130 trees proposed for removal by BMRCL.

    iv. Abstract of the review of the BMRCL application and preliminary assessment of trees by the Tree Officer in Template 3 Part I.

    v. A statement prepared by Tree Officer showing the tree details along with preliminary assessment and justification for on-site retention/translocation/felling of trees.

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

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

3. The BMRCL application, public notice, all objections/suggestions from the public, findings of the Tree Officer, and his proceedings dated 15.12.2020 were perused systematically by the

TEC in its meeting held on **02.07.2021**. The TEC noted that the process prescribed in the MOP from Step-1 to Step-3 have been followed scrupulously by the Tree Officer.

4. The TEC observed that one objection/suggestion has been received in response to the public notice and it viewed that the public appreciated that Namma Metro was awesome and also said that Metro Rail is one of the coolest things in the cities where there is more traffic. In addition, the Tree Officer also apprised that adequate number of saplings will be planted under compensatory afforestation and its proper maintenance will be taken care of. The TEC concurred with the replies furnished by the Tree Officer.

5. The TEC sought and reviewed the presentation made by Chief Engineer, Social and Environment Management Unit, BMRCL regarding the project details, necessity for removal of the trees given the project alignment, possibility of retaining the trees while carrying out the project construction, etc. The Chief Engineer emphasized that Metro Project being a mass rapid transit system, seeks to set up a convenient, efficient, safe and sustainable mode of public transport. Its benefits include a shift from private modes of transport to public transport, and thereby a significant reduction in use of private vehicles, other things remaining unchanged. Such modal shift is estimated to have a significant reduction in pollution in the project area. (Reference: "Note on Potential Reduction in Pollution" based on iDeCK's study on "Economic Analysis for 2A and 2B Corridors of Bangalore Metro").

Review of Preliminary Assessment of Trees done by Tree Officer:

6. The TEC examined the preliminary assessment of trees submitted by Tree Officer vide his letter dated 24.03.2021, including the statement exhibiting the tree details, preliminary assessment and justification for on-site retention / translocation / felling. The TEC noted that the documentation of the trees details in Template-2 Part-I and the preliminary assessment as per Template-2 Part-II has been done properly by the Forest Officers as envisaged in Step-4 & Step-5 of the MOP.

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

   The TEC decided to verify the preliminary assessment by Tree Officer and for that purpose scheduled the field inspection on **09.07.2021.**

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

Field Inspection by TEC:

9. The field inspection for assessment of trees standing at the project area at Anjanapura Depot for the Metro project was carried out by the TEC on 09.07.2021.

   The Tree Officer and the Representatives of BMRCL were present at 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 provision to Section 8(3) of the Act, 1976.

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 in the event of retention-on-site not possible.

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 are attached to this report as Annexure-5.

Post-inspection Review and Report Preparation:

10. Having completed the field inspections on 09.07.2021, the TEC met to review its findings and assessment and further to formulate its recommendations and prepare the report.

11. **On-site Retention**: The TEC identified 07 Nos. trees though standing in the project area but not hindering the project activities and those can be retained-on-site.

12. As verified during the field inspection, the remaining 123 trees which have to be suggested for translocation and felling are falling within the following physical features of the Project.

Physical Features	Tree Numbers
Pile and Pier Construction Works of Deport Entry Line	3, 4, 5, 6, 7, 8, 9, 10, 11, 21, 22, 24, 26, 27, 28, 29, 30, 31, 38, 40, 41, 42, 43 **= Total 23 Trees**
Launching of I-Girder works of Deport Entry Line	13, 14, 15, 16, 17, 18, 19, 20, 32, 33, 34, 35, 37 **= Total 13 trees**
Retaining Wall Construction Works of Depot	44, 45, 51, 52, 55, 57, 59, 61, 68, 69, 83, 84, 85, 86, 92, 99, 100, 105, 106, 107, 108, 117, 118, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130 **= Total 34 Nos.**

Earth Filling and Track Laying Works of Depot	46, 47, 48, 49, 50, 53, 54, 56, 58, 60, 62, 63, 64, 65, 66, 67, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80,81, 82, 87, 88, 89, 90, 91, 93, 94, 95, 96, 97, 98, 101, 102, 103,104, 109, 110, 111, 112, 113, 114, 115,116, 119 **= Total 53 Nos.**

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

Having concluded that the retention of the above mentioned 123 trees is not possible, the TEC chose the next option of translocation of trees and assessed the suitability of each of these trees. In doing so, the TEC considered the following conditions, in addition to verification and consideration of the tree health / tree defects, etc., recorded in the Template-2 Part-I.

i. Proximity of tree to building structures, trunks proximity to the cement / concrete or tarred surface.

ii. The trees having below stated characteristics did not qualify for translocation.

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

iii. Other aspects of species viz., economically important species, species that could provide food (nectar, pollen, seeds and fruits) and nesting sources (materials and site) to various fauna.

iv. The availability of effective zone to extract the root-ball of sufficient size. The trees in the above category (ii) and those without adequate effective zone to extract the root-ball of sufficient size were specifically not recommended for the translocation.

Taking into consideration the above mentioned assessment attributes, the TEC found that there are 36 number of trees at the said site which are suitable for translocation.

The remaining 87 Number of trees were not found to be suitable either for retention on-site or for translocation, and hence will have to be felled.

14. **Assessment of Areas/Sites for Translocation:** Having completed the above assessment of trees at the project area, the Committee visited the following area proposed by BMRCL and recommended by the Tree Officer for translocation of trees, to assess the land suitability.

'Devika Rani Estate Area, Kanakapura Road, Bengaluru'

15. Further the Committee reviewed the soil test analysis report, of the above Devika Rani Estate Area as prepared by Department of Soil Science and Agricultural Chemistry, UAS, GKVK, Bangalore and recommended by the Tree Officer and DCF, with the following inference:

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

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

    In response, BMRCL has furnished the details to the Tree Officer and Deputy Conservator of Forests, vide their letter No. BMRCL/PHASE 2/R4B/2021-22/44 dtd 05.08.2021. In turn the Tree Officer submitted the required details along with receptor sites coordinates and with his recommendations to TEC which are enclosed as Annexure 6.

17. The entire translocation details were reviewed by TEC. In this context, BMRCL states that the boundary areas were demarcated and coordinates of specific locations were marked for proposed translocation sites related to the said 36 trees. This exercise of demarcation and coordinates mapping was carried out using Total Station Survey (Topcon Make). The Tree Officer and DCF, Bengaluru Urban Division has inspected the receptor location sites for the trees to be translocated as proposed by BMRCL and recommended accordingly to TEC.

    On enquiry with the BMRCL and the Tree Officer about the distances of the proposed translocation sites with respect to the places where the trees are standing at present, the authorities remarked that for the trees standing at Anjanapura Depot, the proposed translocation sites at Devika Rani Estate Area, Kanakapura Road, Bengaluru, are near to their present place of standing. Apart from this, the proposed translocation area coming under Devika Rani Estate Area is falling in the Kaggalipura Forest Range of Bengaluru Urban jurisdiction where the provisions of KPT Act, 1976 are applicable.

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

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

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

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

b) Trees which should be translocated depending upon their general condition as assessed and ecological importance, in the event of (a) above not being possible

c) Trees recommended for removal in the event of (a) and (b) not being possible including the trees which are silviculturally matured or softwood trees and trees suffering from defects /damages.

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

Particulars	Total
Total number of Trees examined/observed	**130**
Total number of Trees found suitable for on-site retention	**07**
Total number of Trees found suitable for translocation	**36**
Total number of Trees for felling	**87**

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

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

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 and inspection of the translocation area as mentioned in para 14 above.

Directions to BMRCL and DCF, Bengaluru Urban Division

a) The entire translocation process of trees has to be executed by BMRCL through the Agencies which are experienced in such field operations under close supervision of the Tree Officer.

b) The TEC instructed the Environment Wing of BMRCL to get closely involved in all the field works related to trees and saplings, maintain records pertaining to Translocation of Trees as well as Compensatory Afforestation, both in respect of the works already executed and to be executed henceforth.

c) The Tree Officer and BMRCL authorities are directed to properly document the translocation process which includes inter-alia location of the translocated trees, name and address of the Person/Agency to whom the translocation work was entrusted, agreement regarding the proper maintenance of the translocated trees for a period of three years by BMRCL.

d) BMRCL should be advised to raise Compensatory Afforestation on suitable lands in respect of trees to be removed by translocation and felling. For each tree removed, 10 Nos. of tall healthy saplings should be planted and properly maintained for a period of 3 years. Periodic status reports must be submitted by BMRCL to the Tree Officer. It should be ensured that the greenery of Bengaluru is preserved and enhanced through effective maintenance of planted saplings, translocated trees and standing trees under all circumstances.

Monitoring and Evaluation

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

Record keeping:

i. The Tree Officer is advised to maintain full records of the BMRCL application, its processing, field inspection, etc., for a minimum period of 3 years. The information collected in various templates suggested in the MOP, especially Template-2 Part-1 to IV, should be maintained carefully.

ii. An abstract of the recommendation of the TEC in Template No.4 and a detailed statement containing the recommendations with justification for each of the 130 trees covered in the application are appended as Appendix to this report.

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

Annexure - 1

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

Office of the Deputy Conservator of Forests

Bangalore Urban Division, Aranya Bhavan Compus 18th cross, Malleshwaram, Bangaloe-560003

No:A7/ Land/BMRCL- Metro/CR 39 /2018-19 Date: 30-11-2020.

Public Notice

This is to bring to your notice of all citizens of Bengaluru Urban District that Metro Rail Corporation Limited had submitted the application to the undersigned for removal of trees in Anjanapura Depot, and Depot entry Line in Reach 4B via Kanakapura Road and UM Kaval Sy No.38(Old No.12) land. Details as given below.

Name of the project	Removal of tree for Consruction of Anjanapura Depot and Viaduct for Depot entry line in Reach 4B via Kanakapura Road-reg.	
Agency	**Bangalore Mtero Rail Corporation Limited**	
Purpose for removal of tress(s)	Infringing consruction activities of Metro Rail Project	
Description of the area with clear demarcation of boundaries or with GPS readings	Consruction of Anjanapura Depot and Viaduct for Depot entry line in Reach 4B via Kanakapura Road for a length of 540 Mts Lattitude / Longitude 1 12 deg 51 min 20.1 sec / 77 deg 31 min 30.4 sec / Starting Point 2 12 deg 51 min 30 sec / 77 deg 31 min 21.8 sec / Ending point	
Enumeration of trees. • Total no of tress standing in the project area	130(Annex-I)	Description of Trees, Species, location, Area Map etc are uploaded in the website of BBMP for information of all.(**www.bbmp.gov.in**)
• Total no. of trees proposed to be removed	120(Annex-II)	
Mode of communication of comments (Public can send their comments either by E-mail/ Post / Hand	**Adress:** The Deputy Conservator of Forests, Bangalore Urban Division, Aranya Bhavan Annexe, 18th Cross, Malleshwaram,Bangalore-560003. **Email ID - dcfurban82@yahoo.co.in**	
Deadline for filing objections	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.

Deputy Conservator of Forests,
Bangalore Urban Division, Bangalore.

11

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

ಕರ್ನಾಟಕ ಅರಣ್ಯ ಇಲಾಖೆ

ಉಪ ಅರಣ್ಯ ಸಂರಕ್ಷಣಾಧಿಕಾರಿಯವರ ಕಛೇರಿ

ಬೆಂಗಳೂರು ನಗರ ವಿಭಾಗ, ಅರಣ್ಯ ಭವನ ಸಂಕೀರ್ಣ, 18ನೇ ಅಡ್ಡ ರಸ್ತೆ, ಮಲ್ಲೇಶ್ವರಂ, ಬೆಂಗಳೂರು - 560 003

Office of the Deputy Conservator of Forests

Bangalore Urban Division, Aranya Bhavan Compus, 18th cross, Malleshwaram, Bangaloe-560003

ಸಂಖ್ಯೆ: ಎ9/ಮರ ಕತ್ತರಿಸಲು-ಮೆಟ್ರೋ/ಸಿ.ಆರ್-34/2019-20 ದಿನಾಂಕ: 30-11-2020

ಪತ್ರಿಕಾ ಪ್ರಕಟಣೆ

ಈ ಮೂಲಕ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಮತ್ತು ಸುತ್ತಮುತ್ತಲಿನ ಸಮಸ್ತ ನಾಗರಿಕರ ಗಮನಕ್ಕೆ ತರುವುದೇನೆಂದರೆ ಯು.ಎಂ.ಕಾವಲ್ ಅರಣ್ಯ ಪ್ರದೇಶದ ಸರ್ವೆ ನಂ.38(ಹಳೆಯ ನಂ..12) ರಲ್ಲಿ ಕನಕಪುರ ರಸ್ತೆ, ಬೆಂಗಳೂರು ಇಲ್ಲಿ ಮೆಟ್ರೋ ರೈಲು ನಿಗಮ ನಿಯಮಿತ ಸಂಸ್ಥೆಯ ವತಿಯಿಂದ ನಡೆಯುತ್ತಿರುವ ಅಂಜನಾಪುರ ಡಿಪೋ ಕಾಮಗಾರಿಗೆ ಅಡ್ಡಬರುತ್ತಿರುವ ಮರಗಳ ತೆರವಿಗಾಗಿ ಮನವಿ ಸಲ್ಲಿಸಿದ್ದು, ವಿವರಗಳು ಈ ಕೆಳಕಂಡಂತಿರುತ್ತವೆ.

ಯೋಜನೆಯ ಹೆಸರು	Removal of tree for Consruction of Anjanapura Depot and Viaduct for Depot entry line in Reach 4B via Kanakapura Road-reg.	
ಏಜೆನ್ಸಿಯ ಹೆಸರು	Bangalore Mtero Rail Corporation Limited	
ಮರ ತೆರವುಗೊಳಿಸುವ ಉದ್ದೇಶ	ಮೆಟ್ರೋ ರೈಲು ಕಾಮಗಾರಿಗೆ ಅಡ್ಡಬರುತ್ತಿರುವುದರಿಂದ ಮತ್ತು ಡಿಪೋ ಕಾಮಗಾರಿಗೋಸ್ಕರ	
ಯೋಜನೆಯು ಬರುತ್ತಿರುವ ಪ್ರದೇಶದ ಜಿ.ಪಿ.ಎಸ್. ರೀಡಿಂಗ್	Consruction of Anjanapura Depot and Viaduct for Depot entry line in Reach 4B via Kanakapura Road for a length of 590 Mts	
ಯೋಜನಾ ಪ್ರದೇಶದಲ್ಲಿ ಪ್ರಸ್ತುತ ಇರುವ ಮರಗಳು	130(Annex-1)	ಮರಗಳ ವಿವರ, ಜಾತಿ, ಮರಗಳಿರುವ ಜಾಗ, ನಕಾಶೆಗಳ ವಿವರಗಳನ್ನು ಬಿಎಂಆರ್‌ಸಿಎಲ್ ವೆಬ್ ಸೈಟ್‌ನಲ್ಲಿ ಮಾಹಿತಿಗಾಗಿ ಒದಗಿಸಲಾಗಿದೆ.
ಯೋಜನಾ ಪ್ರದೇಶಲ್ಲಿ ತೆರವುಗೊಳಿಸಬೇಕಾದ ಮರಗಳು	120(Annex-1)	
ಆಕ್ಷೇಪಣೆಗಳನ್ನು ಸಲ್ಲಿಸುವ ವಿಧಾನ (ಸಾರ್ವಜನಿಕರು ನೇರವಾಗಿ/ ಇ-ಮೇಲ್/ಅಂಚೆ ಮುಖಾಂತರ ಈ ಕೆಳಸಹಿದಾರರ ಕಛೇರಿಗೆ ಸಲ್ಲಿಸಬಹುದು)	**Adress:** The Deputy Conservator of Forests, Bangalore Urban Division, Aranya Bhavan Annexe, 18th Cross, Malleshwaram,Bangalore-560003. **Email ID - dcfurban82@yahoo.co.in**	
ಆಕ್ಷೇಪಣೆಗಳನ್ನು ಸಲ್ಲಿಸಬೇಕಾದ ಅವಧಿ	ಈ ಪ್ರಕಟಣೆ ಹೊರಡಿಸಿದ ದಿನಾಂಕದಿಂದ 10 ದಿನಗಳೊಳಗಾಗಿ **ಸೂಚನೆ:** ಆಕ್ಷೇಪಣೆಗಳು ಪ್ರಸ್ತಾಪಿತ ಯೋಜನೆಗೆ ಮಾತ್ರ ಸಂಬಂಧಿಸಿರಬೇಕು.)	

GPS reading:

	Lattitude	Longitude	
1	12 deg 51 min 20.1 sec	77 deg 31 min 30.4 sec	Starting Point
2	12 deg 51 min 30 sec	77 deg 31 min 21.8 sec	Ending point

ಮೇಲ್ಕಂಡ ಪ್ರದೇಶದಲ್ಲಿನ ಮರಗಳನ್ನು ತೆರವುಗೊಳಿಸಲು ಕ್ರಮ ವಹಿಸುವ ಮೊದಲು ಸಾರ್ವಜನಿಕರ ಆಕ್ಷೇಪಣೆಗಳಿದ್ದಲ್ಲಿ ಕರ್ನಾಟಕ ವೃಕ್ಷ ಸಂರಕ್ಷಣಾ ಕಾಯಿದೆ 1976 ಸೆಕ್ಷನ್8(3)(vii) ಪ್ರಕಾರ ಸಲಹೆ-ಸೂಚನೆಗಳನ್ನು ನೀಡಲು ಆಹ್ವಾನಿಸಲಾಗಿದೆ.

ಉಪ ಅರಣ್ಯ ಸಂರಕ್ಷಣಾಧಿಕಾರಿ,
ಬೆಂಗಳೂರು ನಗರ ವಿಭಾಗ, ಬೆಂಗಳೂರು.

Ahmedabad	41	144	49	191	150	
Bengaluru	4	15	25	161		
Chennai	6	17	17	78		
Delhi	11	125	161	372	461	
Hyderabad	5	116	11	136	116	
Kolkata	12	43	82	402	153	
Lucknow	4	102	31	350	152	
Mumbai		66	20	246	111	
Pune			31	172	112	
Visakhapatnam	23	27	17	148	116	

Air Quality Code: ■ Poor ■ Moderate ■ Good

SO2 Sulphur Dioxide ... **NO2** Nitrogen Dioxide ... **CO** Carbon Monoxide ... **PM2.5 & PM10:** Particulate matter ...

CAPITAL (VIND)

Since 2015, when the State first sought national status

Conference

The Centre for Law and Policy Research will organise its flagship conference TRANSFORM: 4th International Conference on Transgender Rights and the Law on Saturday and Sunday. It will be held at Bangalore International Centre, No. 7, IV Main, II Stage, Domlur.

भारत का राजपत्र

The Gazette of India

असाधारण

EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (ii)

PART II—Section 3—Sub-section (ii)

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

NEW DELHI, THURSDAY, NOVEMBER 19, 2020/KARTIKA 28, 1942

MINISTRY OF ROAD TRANSPORT AND HIGHWAYS

NOTIFICATION

New Delhi, the 19th November, 2020

S.O. 4162(E).— In exercise of powers conferred by sub-section (1) of section 3A of the National Highways Act, 1956 (48 of 1956) (hereinafter referred to as the said Act), the Central Government, after being satisfied that for the public purpose, the land, the brief description of which is given in the Schedule below, is required for building (widening/two lane with paved shoulder/four laning etc.), maintenance, management and operation of Bellary Byrapura section of NH-150A in the stretch of land from Km. 284.500 to Km. 306.550 in the district of CHITRADURGA in the state of KARNATAKA, hereby declares its intention to acquire such land.

Any person interested in the said land may, within twenty-one days from the date of publication of this notification in the Official Gazette, object to the use of such land for the aforesaid purpose under sub-section(1) of section 3C of the said Act.

Every such objection shall be made to the Competent Authority, namely, Special Land Acquisition Officer, NHAI Bellary at H.No. 158C, 25th ward, LIC Colony, Cantonment, Bellary District Bellary, Karnataka, in writing and shall set out the grounds thereof and the Competent Authority shall give the objector an opportunity of being heard, either in person or by a legal practitioner, and may, after hearing all such objections and after making such further enquiry, if any, as the Competent Authority thinks necessary, by order, either allow or disallow the objections.

Any order made by the Competent Authority under sub-section (2) of section 3C of the said Act shall be final.

Office of the Deputy Conservator of Forests

Public Notice

This is to bring to your notice of all citizens of Bengaluru Urban District that Metro Rail Corporation Limited has submitted the application to the undersigned for removal of trees in ... Depot ... Details as given below:

Name of the project	
Name of the Agency	
Purpose for removal of trees	
Description of the area with clear demarcation of boundaries or with GPS readings	Latitude / Longitude
Enumeration of trees: Total no. of trees standing in the project area / Total no. of trees proposed to be removed	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
Deadline for filing objections	10 days from the date of Publication of this notification. Note: Comments should be relevant and specific to the Project

Sd/-

Deputy Conservator of Forests, Bangalore Urban Division, Bangalore

KARNATAKA FOREST DEPARTMENT

Email: dcfurban52@yahoo.com

Tree Felling KRDCL ... 2020-21

Date: 02.12.2020

PUBLIC NOTICE

This is to bring to your notice of all citizens that Executive Engineer, Karnataka Road Development Corporation Limited (KRDCL), Bangalore South has submitted the application to the undersigned for removal of trees ... Cross of Bangalore East Taluk. Details as given below:

Name of the project	... Hoskote Road NH-4 ... Bridge to ... Cross ...
Name of the Agency	Karnataka Road Development Corporation Limited (KRDCL)
Purpose for removal of trees	Widening of existing roads and ... traffic movement
	GPS details

Sd/-

Member Secretary

भारत का राजपत्र

The Gazette of India

MINISTRY OF ROAD TRANSPORT AND HIGHWAYS

NOTIFICATION

New Delhi, the 19th November, 2020

ಕರ್ನಾಟಕ ಅರಣ್ಯ ಇಲಾಖೆ

18th Cross, Malleshwaram, Bangalore 560003. E-mail: dcfurban82@yahoo.co.in

No. A9/Tree Cutting-KRDCL/CR-348/2020-21 — Date: 07.12.2020

ಸಾರ್ವಜನಿಕ ಪ್ರಕಟಣೆ

	Bestamanahalli [illegible] SH-35 [illegible] to Hoskote Road NH-4 [illegible] Bethur Bridge to Kannamangala Cross from Chainage 37+[illegible] to 40+171 Km
	Karnataka Road Development Corporation Limited (KRDCL)
	Widening of existing roads and [illegible] traffic movement

GPS details

Sl. No	Chainage	Side	Latitude	Longitude	Location
1	37+507	LHS	N [illegible]	E 77 15 31	Bethur Bridge
2	37+545	RHS	N [illegible]	E 77 45 30	Bethur Bridge
3	40+148	LHS	N [illegible]	E 77 45 34	Kannamangala Cross
4	40+171	RHS	N [illegible]	E 77 45 31	Kannamangala Cross
5	Transplantation Area		N [illegible]	E 77 45 17	Hoskote Tank Near [illegible]
6			N [illegible]	E 77 [illegible]	[illegible]

	431 (Annex I)	Description of Trees, Species, Location, Area Map etc are uploaded in the website of BBMP for information of all (www.bbmp.gov.in)
	355 (Annex II)	
	76 (Annex III)	
	Adress: The Deputy Conservator of Forests, Bangalore Urban Division, Aranya Bhavan Annexe, 18th Cross, Malleshwaram, Bangalore 560003. Email ID - dcfurban82@yahoo.co.in	

ಕರ್ನಾಟಕ ಸರ್ಕಾರ

No. A7/Land/BMRCL-Metro/CR-39/2019-19 — Date: 30.11.2020

Email ID: dcfurban82@yahoo.co.in

	Removal of tree for Construction of Anjanapura Depot and Viaduct for Depot entry line in Reach 4B via Kanakapura Road
	Bangalore Metro Rail Corporation Limited
	Construction of Anjanapura Depot and Viaduct for Depot entry line in Reach 4B via Kanakapura Road for a length of 500 Mts

	Latitude	Longitude	
1	12 deg 51 min 20.1 sec	77 deg 31 min 30.4 sec	Starting Point
2	12 deg 51 min 30 sec	77 deg 31 min 21.0 sec	Ending point

	130 (Annex-1)
	120 (Annex-1)

Address: The Deputy Conservator of Forests, Bangalore Urban Division, Aranya Bhavan Annexe, 18th Cross, Malleshwaram, Bangalore-560003

Email ID: dcfurban82@yahoo.co.in

DIPR/DOU/Zm/RO-1895/2020-21

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KARNATAKA STATE POLLUTION CONTROL BOARD

No. 49, Parisara Bhavan, 1st to 5th Floor, Church Street, Bengaluru 560001. Ph. No. 080-25581383/25589117. E-mail: ho@kspcb.gov.in Website: kspcb.gov.in

IFT No. PCB/EO-AWR/ERS/2019-20/1938 Date: [illegible].12.2020

INVITATION FOR TENDER (Through OPEN TENDER)

SECTION 1 - INVITATION FOR SHORT TERM TENDER FOR MODIFICATION OF BRAND NEW TATA YODHA VEHICLES OF KSPCB

1. The Member Secretary, KSPCB invites tenders from eligible tenderers for modification of Brand New Tata Yodha Vehicles of KSPCB.
2. The tenderer must submit rates for all of the items given in Section V Schedule of requirement in the tender document. Tenderers are advised to note the qualification criteria specified in section VII to qualify for award of contract.
3. The hard copy of tender document (and additional copies) if required, may be purchased from the office of the Chief Finance Officer, Karnataka State Pollution Control Board 1st Floor, Church Street, Bengaluru-560001 from **02.12.2020 to 14.12.2020**, during office hours, for a non-refundable fee of Rs. 500/- in the form of cash or Demand Draft/ Pay Order on any Nationalized/ Scheduled Bank payable at Bengaluru in favour of Member Secretary, Karnataka State Pollution Control Board, Bengaluru.
4. Tenders must be accompanied by earnest money deposit.
5. Tenderer must drop the document in Tender Box kept in 1st Floor, Vehicle Section.
6. Other details can be seen in tender documents.

Sd/-
Member Secretary

AVOID USE OF PLASTICS - BE 'ECO' FRIENDLY

COVID-19 DO NOT PANIC, BE AWARE

Wear Mask | 6 Feet Follow Physical Distancing | Maintain Hand Hygiene

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Canara Bank
Industrial Finance Branch
[illegible] Road, Bengaluru, Karnataka 560001

CORRIGENDUM

It is hereby informed that the Possession Notice Published in Newspaper "The New Indian Express" Dated 13.11.2020 in the Account of M/s Sical Logistics Ltd., Date of Possession: 11.11.2020 is hereby withdrawn.

Date: 04.12.2020 Sd/-Authorized Officer
Place: Kolkata Canara Bank

QuoteExpress

IT ALWAYS SEEMS IMPOSSIBLE UNTIL IT'S DONE

GOVERNMENT OF INDIA

MHFW, DGHS

BCG VACCINE LABORATORY

No. 110, 13 Feet Road, [illegible] Road, Guindy, Chennai-600 032, Tamil Nadu

TENDER NOTICE

Sealed tenders are invited from the Manufacturers / Dealers in the prescribed form ON or BEFORE 29.12.2020 at 02.00 PM for supply of the following item. Technical Bid will be opened at 03.00 PM on 29.12.2020 at the above said office address. The date and time of opening of Financial Bid will be intimated to the bidders who are qualified in the Technical Bid.

Sl.No	Description of the Item	Quantity
1	No.D.21016/22/2020-21 (Seals) Aluminium Flip Off - Suitable for 2R Vials, Plastic Button to be pale yellow colour with glossy finish enabling for sticking VVM as per Drawing and Specification enclosed in the Tender Form as Annexure - I	30 lakhs
2	No.D.21016/23/2020-21 (Stoppers) BIFID SILICONISED RUBBER WADS 13MM BROMO BUTYL ETC. GREY COLOUR SUITABLE FOR 2R VIALS - READY TO WASH AS PER DRAWING AND SPECIFICATION ENCLOSED IN THE TENDER FORM AS ANNEXURE - II	10 lakhs

Drawing with specification, Tender Forms and Vendor Qualification forms can be downloaded from the CPP Portal / BCGVL website dirbcglab.gov.in

DIRECTOR

TAMIL NADU SLUM CLEARANCE BOARD

MADURAI CIRCLE

NOTICE INVITING RE-TENDER

FORM OF CONTRACT: "LUMPSUM" (TWO COVER SYSTEM)

[illegible]

The undersigned reserves the right to reject any or all the tenders without assigning any reasons thereof.

SUPERINTENDING ENGINEER
MADURAI CIRCLE

Office of the Deputy Conservator of Forests

Bangalore Urban Division, Aranya Bhavan Campus, 18th Cross, Malleshwaram, Bengaluru-560 003

No. A7/ Lands BMRCL - Metro/CR [illegible] Date: 30.11.2020

Public Notice

This is to bring to your notice of all citizens of Bengaluru Urban District that Metro Rail Corporation Limited had submitted the application to the undersigned for removal of trees in Anjanapura Depot and Depot entry Line in Reach 1B via Kanakapura Road and UM Kavai Sy No 38 (Old No 12) and Details as given below.

Name of the project	[illegible]
Name of the Agency	Bangalore Metro Rail Corporation Limited
Purpose for removal of trees	[illegible] construction activities of Metro Rail Project
Description of the area with clear demarcation of boundaries or with GPS readings	[illegible]
Enumeration of trees. Total no of trees standing in the project area	[illegible] — Description of Trees, Species, location, Area Map etc are uploaded in the website of BBMP for information of all (www.bbmp.gov.in)
Total no. of trees proposed to be removed	[illegible]
Mode of communication of comments	Public can send their comments either by E-mail, Post / Hand Address: The Deputy Conservator of Forests, Bangalore Urban Division, Aranya Bhavan, Annex, 18th Cross, Malleshwaram, Bangalore-560003 [illegible]
Deadline for filing objections	10 days from the date of Publication of this notification. Note: Comments should be relevant and specific to the Project

[illegible] Karnataka Preservation of Trees Act 1976.

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

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

Wear Mask | 6 Feet Follow Physical Distancing | Maintain Hand Hygiene

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(Government of Karnataka)

RURAL WATER SUPPLY AND SANITATION DEPARTMENT HASSAN DIVISION HASSAN

SHORT TERM NOTIFICATION NO: 15/2020-21 DATED : 04.12.2020 (One & Two cover) (Corrigendum & Time Extension)

On Behalf Governor of Karnataka, The Executive Engineer Rural Water Supply & Sanitation Department Hassan division Hassan Has Invited the Tender for the Package work of Arsikere Taluk Approves under 2020-21 NRDWP - JJM [illegible] below. **Package - 1** Total 2 Works of Estimate Cost Rs. 66.60 Lakhs (GEN Contractors) **Package - 2** Total 1 Works of Estimate Cost Rs. 76.77 Lakhs (GEN Contractors) **Package - 3** Total 1 Works of Estimate Cost Rs. 71.44 Lakhs (GEN Contractors) **Package - 4** Total 2 Works of Estimate Cost Rs 87.78 Lakhs (GEN Contractors) **Package - 5** Total 4 Works of Estimate Cost Rs. 268.57 Lakhs (GEN Contractors) **Package - 6** Total 2 Works of Estimate Cost Rs. 84.30 Lakhs (GEN Contractors) **Package - 7** Total 2 Works of Estimate Cost Rs. 94.04 Lakhs (GEN Contractors) **Package - 8** Total 1 Works of Estimate Cost Rs. 90.91 Lakhs (GEN Contractors) **Package - 9** Total 2 Works of Estimate Cost Rs. 95.87 Lakhs (GEN Contractors) [illegible]

THE HUTTI GOLD MINES COMPANY LIMITED

(A Government of Karnataka Undertaking)

Hutti - 584 115, Raichur Dist., Karnataka State. Ph: 08537/275740/275338/273463

e-Mail: material275339@gmail.com website: www.huttigold.com

SHORT-TERM TENDER NOTIFICATION No. 30/20-21, Dt. 05.12.2020

(Through e-Procurement Portal only)

Tenders are invited by The Dy. General Manager (Materials) for the procurement of following goods from reputed manufacturers/authorised dealers as detailed below.

Sl. No.	Description	Qty.	Approx. Value (Rs. in Lakhs)	EMD amount (in Rs.)
1	Procurement of Graphite Crucibles HGML/2019-20/IND 2728 [illegible]	2250 Nos.	2.62	5,500

City Municipal Council- Shidlaghatta

Chikkaballapur District, Phone No: 08158/254404 Fax: 08158-254405

Email: itstaff_ulb_shidlaghatta@yahoo.co.in

Web: www.shidlaghattacity.mrc.co.in

TMS/AO/CR/Tender-03/2020-21 Date: 20.11.2020

Tender Notification

(Only through e-procurement portal of Government of Karnataka)

Tender are invited under SFC General Grant Fund 2020-21, 15th Financial year 2020-21 [illegible] single format in accordance with the Standards Tender Document Rules [illegible] power contractors authorized suppliers and qualified organizations registered with the Department of Public Works for the approved projects described below.

[illegible]

ಜಾಕೆರ್
ಪಿಸಿಬಿ ಕಸ್ಟಡಿಗೆ

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಟೆಂಡರ್ ಪ್ರಸ್ತಾವನೆಗಾಗಿ ಆಹ್ವಾನ (ಐಎಫ್‌ಟಿ)

ಭಾರತ ಸರ್ಕಾರ ರಾಜ್ಯ ಸರ್ಕಾರ

ಅರಣ್ಯ ಸಂರಕ್ಷಣಾಧಿಕಾರಿಯವರ ಕಛೇರಿ

ಸಾರ್ವಜನಿಕ ಪ್ರಕಟಣೆ

ಆಯುಷ್ ವಿಭಾಗ

ಆಯುಷ್ ಮಹಾ ಇ-ಟೆಂಡರ್ ಸೂಚನೆ

ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ

ಭಾರತ ಸರ್ಕಾರ ರಾಜಪತ್ರ
The Gazette of India

Annexure – 2

Proceedings of Tree Officer & DCF, Bengaluru Urban

Sub: Objections and suggestions from the public regarding removal of 130 trees **to the construction of Anjanapura depot and Viaduct for depot entry line in reach 4B via Kanakapura road. in respect of application number BMRCL/0023/PHASE2/R4B/2020-21/93 dated 26.11.2020**

Date:15.12.2020.

Ref. 1 *Case / Application No.BMRCL/0023/P2/ R4B/2020-21/93 dated 26.11.2020*
2 This office File No A7/Land/BMRCL/CR 39/2018-19

To

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

Sir,

1 Bangalore Metro Rail Corporation (BMRCL) had applied on 26.11.2020 under section 8(2) of the Karnataka Preservation of Trees Act (henceforth mentioned as the Act) seeking permission to remove 130 trees to the construction of Anjanapura depot and Viaduct for depot entry line in reach 4B via Kanakapura road the metro construction activities are in full swing like pile/pile cap foundations works

2. A public notice in the Template-1 was issued on 30.11.2020 as required under section 8(3(vii) of the Act, inviting objections from the public within 10 days from the date of publication of the notice. The notice appeared in Kannada Prabha ,The News Indian Express, Vijayavani & The Hindu Newspapers on 05.12.2020. The details of the project area, total number of trees, total number of trees to be removed, GPS coordinates and physical details of those trees were also uploaded on the website www.bbmp.gov.in of BBMP to facilitate access to the relevant information by the public. These details were also made available in the office of the undersigned during the working office hours.

3. In response to the notice, we received one positive observation supporting to the Metro Rail project. Even though we have not received any objections/suggestions in all the cases of tree removal, the first attempt would be to translocation, as feasible and practical. Only thereafter, option of felling will be taken up. The extent of compensatory plantation would be in ratio 1:10.

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4. The suitability of each tree for translocation should be assessment through inspection of each tree and the findings along with these proceedings should be placed before the Tree Expert Committee.

Deputy Conservator of Forests
Bengaluru Urban Division.

Annexure

Remarks of Tree Officer to the objections Received from the Public for U M Kawal (Reach - 4B)			
Sl No	**Name & Date**	**Objection from Public**	**Remarks of Tree officer**
1	Sowbhagya Lakshmi <sowbhagya784 @gmail.com> 12.12.2020	Namma metro is awesome. It is one of the coolest things in the cities where there is more traffic	The observation is noted.

Tree Officer &
Deputy Conservator of Forests
Bangalore Urban Division

Annexure – 3.

Submission of preliminary assessment by Tree Officer to Tree Expert Committee in respect of application number BMRCL/0023/PHASE2/R4B/2020-21/93dated 26.11.2020 of BMRCL for removal of 130 trees to the construction of Anjanapura depot and Viaduct for depot entry line in reach 4B via Kanakapura road.

Date:24.03.2021.

Ref: 1 *Case / Application No BMRCL/0023/P2/ R4B/2020-21/93 dated 26.11.2020*
2. This office File No.A7/Land/BMRCL/CR-39/2018-19

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

Sir,

3. Bangalore Metro Rail Corporation (BMRCL) had applied on 26.11.2020 under section 8(2) of the Karnataka Preservation of Trees Act (henceforth mentioned as the Act) seeking permission to remove 130 trees to the construction of Anjanapura depot and Viaduct for depot entry line in reach 4B via Kanakapura road, the metro construction activities are in full swing like pile/pile cap foundations works.

4. A public notice in the Template-1 was issued on 30.11.2020 as required under section 8(3(vii) of the Act, inviting objections from the public within 10 days from the date of publication of the notice. The notice appeared in Kannada Prabha ,The News Indian Express, Vijayavani & The Hindu Newspapers on 05.12.2020. The details of the project area, total number of trees, total number of trees to be removed, GPS coordinates and physical details of those trees were also uploaded on the website www.bbmp.gov.in of BBMP to facilitate access to the relevant information by the public. These details were also made available in the office of the undersigned during the working office hours

5. In response to the notice, we received one positive observation supporting to the Metro Rail project.

6. 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.

7. Thereafter, all 130 trees were inspected personally by me on 28.12.2020. 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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8. 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.

9. 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.

10. After carrying out the above derailed inspection and the assessment, I have drawn up the proceedings of my consideration of the objections received from the public in response to the public notice. A set of the public notices, a complete set of the objections and a copy of the proceedings dated 15.12.2020 of my consideration are enclosed to this submission.

11. The "Tree Assessment Forms" with duly filled in Part I and Part II of the Template 2 for each tree proposed to be removed by the project authority, are enclosed to this submission. Total 130 number of Forms are enclosed.

12. A statement containing the tree details, preliminary assessment and justification for on-site retention/translocation / felling of 130 trees is enclosed as Annexure.

13. The BMRCL has provided the area/locations/sites of the translocation of the trees on 06.12.2020 along with the soil reports by UAS GKVK University.

(I) Devika Rani Estate (Right side of Uttarahalli Road)

(II) U M Kaval Forest Area

These sites are inspected by me on 28-12-2020 along with BMRCL representatives; with proper amendment application soil is suitable for tree shifting.

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

Thanking you.

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

Tree Officer and
Deputy Conservator of Forests
Bangalore Urban Division
BANGALORE

Annexure-I

Statement detailing the tree details, preliminary assessment and justification for / translocation / felling

Case / Application No:**A7/Land/ BMRCL-Metro/CR-39/2018-19 dated:30-11-2020**
Date:16 12 2020

Project Area **UM Kaval (Anjanapura Depot) Metro Reach-4B**

Sl. No	Tree No.	Species Name	GBH (m)	Height (m)	Crown Spread (sq. m)	Preliminary Assessment (On-site Retention /Translocation/ Felling)	Justification
1	01	Hunase	1.90	8.00	10.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area and the tree is Silviculturally matured
2	02	Gulmohar	1.20	8.00	8.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area and root girdling is found
3	03	Gulmohar	0.32	7.00	3.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
4	04	Gulmohar	0.23	6.00	2.00	Recommended for Felling.	Recommended for Felling as the tree is falling in the project area.
5	05	Gulmohar	0.22	6.00	2.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
6	06	Gulmohar	0.27	8.00	3.00	Recommended for Felling.	Recommended for Felling as the tree is felling in the project area.
7	07	Gulmohar	0.75	9.00	8.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area and the tree is damaged due to lightening & other causes.

Sl. No	Tree No.	Species Name	GBH (m)	Height (m)	Crown Spread (sq. m)	Preliminary Assessment (On-site Retention /Translocation/ Felling)	Justification
8	08	Gulmohar	0.80	9.00	-	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
9	09	Shivane	0.72	6.00	5.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
10	10	Thaare	2.17	13.00	20.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
11	11	Sandal	0.19	5.00	2.00	Recommended for translocation.	Recommended for translocation as the tree is located in the project area & the tree is immature.
12	12	Beete	0.48	6.00	4.00	Recommended for translocation.	Recommended for translocation as the tree is located in the project area & the tree is immature and healthy.
13	13	Hebbevu	1.05	7.00	6.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area & root girdling is found.
14	14a	Subabul	0.34	5.00	5.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
	14b	Subabul	0.18	4.00	4.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
15	15	Subabul	0.23	5.00	5.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
16	16	Subabul	0.43	6.00	6.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
17	17	Subabul	0.34	10.00	5.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.

Sl No	Tree No.	Species Name	GBH (m)	Height (m)	Crown Spread (sq. m)	Preliminary Assessment (On-site Retention /Translocation/ Felling)	Justification
18	18	Eechalu	0.72	7.00	7.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
19	19	Honge	0.62	8.00	8.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is Silviculturally immature.
20	20	Honge	0.58	10.00	8.00	Recommended for Translocation	Recommended for Translocation as the tree is located in the project area & the tree is Silviculturally immature.
21	21	Honge	0.47	3.00	1.00	Recommended for Translocation	Recommended for Translocation as the tree is located in the project area & the tree is Silviculturally immature.
22	22	Honge	0.38	6.00	6.00	Recommended for Translocation	Recommended for Translocation as the tree is located in the project area & the tree is Silviculturally immature.
23	23	Jagalaganti	0.18	3.00	1.00	On-site Retention	Recommended for Retention.
24	24	Jagalaganti	0.27	4.00	1.50	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is Silviculturally immature.
25	25	Subabul	0.27	8.00	3.00	On-site Retention	Recommended for Retention.
26	26	Honge	0.42	5.00	5.00	Recommended for Translocation	Recommended for Translocation as the tree is located in the project area.

Sl. No	Tree No.	Species Name	GBH (m)	Height (m)	Crown Spread (sq. m)	Preliminary Assessment (On-site Retention /Translocation/ Felling)	Justification
27	27	Jungle tree	0.27	4.00	2.00	Recommended for Felling	Recommended for Felling as the tree is located in the project area.
28	28	Jungle tree	0.12	-	-	Recommended for Felling	Recommended for Felling as the tree is located in the project area.
29	29	Jagalaganti	0.12	4.00	2.00	Recommended for Translocation.	Recommended for Transplantation as the tree is located in the project area & the tree is Silviculturally immature.
30	30	Cherry	-	-	-	Recommended for Felling	Recommended for Felling & the tree is already been felled by KPTCL as the tree is located under hightension wires.
31	31	Eechalu	0.79	8.00	8.00	Recommended for Translocation.	Recommended for Transplantation as the tree is located in the project area & the tree is Silviculturally immature.
32	32	Banni	0.68	9.00	8.00	Recommended for Felling	Recommended for Felling as the tree is located in the project area.
33	33	Tapala	1.55	10.00	10.00	Recommended for Felling	Recommended for Felling as the tree is located in the project area.
34	34	Shivane	0.25	5.00	3.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young.
35	35	Shivane	0.25	5.00	3.00	Recommended for Felling	Recommended for Felling as the tree is located in the project area.
36	36	Tapasi	0.29	6.00	4.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young.

Sl. No	Tree No.	Species Name	GBH (m)	Height (m)	Crown Spread (sq. m)	Preliminary Assessment (On-site Retention /Translocation/ Felling)	Justification
37	37	Subabul	0.18	3.00	2.00	Recommended for Felling	Recommended for Felling as the tree is located in the project area.
38	38	Muthuga	0.50	6.00	4.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young.
39	39	Jagalaganti	0.38	5.00	5.00	On site Retention	Recommended for Retention
40	40	Gobbara mara	0.22	6.00	1.00	Recommended for Felling	Recommended for Felling as the tree is located in the project area.
41	41	Gobbara mara	0.26	6.00	2.00	Recommended for Felling	Recommended for Felling as the tree is located in the project area.
42	42	Subabul	0.22	8.00	2.00	Recommended for Felling	Recommended for Felling as the tree is located in the project area.
43	43	Gobbara mara	0.17	5.00	2.00	Recommended for Felling	Recommended for Felling as the tree is located in the project area.
44	44	Gobbara mara	0.31	6.00	2.00	Recommended for Felling	Recommended for Felling as the tree is located in the project area.
45	45	Gobbara mara	0.21	6.00	1.00	Recommended for Felling	Recommended for Felling as the tree is located in the project area.
46	46	Gobbara mara	0.23	6.00	1.00	Recommended for Felling	Recommended for Felling as the tree is located in the project area.
47	47	Gobbara	0.26	6.00	2.00	Recommended for Felling	Recommended for Felling as the tree is located in the project area.

Sl. No	Tree No.	Species Name	GBH (m)	Height (m)	Crown Spread (sq. m)	Preliminary Assessment (On-site Retention /Translocation/ Felling)	Justification
		mara					
48	48	Gobbara mara	0.31	5.00	2.00	Recommended for Felling	Recommended for Felling as the tree is located in the project area.
49	49	Gobbara mara	0.31	6.00	2.00	Recommended for Felling	Recommended for Felling as the tree is located in the project area.
50	50	Eechalu	-	2.50	5.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & tree is young.
51	51	Gobbara mara	0.41	6.00	4.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
52	52	Gobbara mara	0.24	7.00	2.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
53	53	Gobbara mara	0.29	6.00	2.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
54	54a	Subabul	0.41	6.00	6.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
	54b	Subabul	0.18	3.00	1.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
55	55	Jungle tree	0.18	3.00	1.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
56	56	Haale mara	0.28	5.00	3.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young.

Sl. No	Tree No.	Species Name	GBH (m)	Height (m)	Crown Spread (sq. m)	Preliminary Assessment (On-site Retention /Translocation/ Felling)	Justification
57	57	Tapala	-	3.00	-	Recommended for Felling.	Recommended for Felling as the tree is located in the project area & the tree is dead.
58	58	Gobbara mara	0.23	5.00	2.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
59	59A	Gobbara mara	0.23	5.00	2.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
	59B	Gobbara mara	0.20	5.00	1.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
60	60	Gobbara mara	0.23	4.00	2.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
61	61	Subabul	0.51	6.00	5.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
62	62	Thaare mara	1.60	7.00	10.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
63	63	Thaare mara	0.76	7.00	6.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is asymmetrical in appearance.
64	64	Thaare mara	0.28	4.00	4.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young.
65	65	Thaare mara	0.79	8.00	6.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young.

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Sl. No	Tree No.	Species Name	GBH (m)	Height (m)	Crown Spread (sq. m)	Preliminary Assessment (On-site Retention /Translocation/ Felling)	Justification
	66	Thaare mara	0.51	10.00	10.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young.
67	67A	Honne	0.28	3.00	2.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & co-dominant trunks are present in the tree.
	67B	Honne	0.28	3.00	2.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young.
68	68	Gobbara mara	0.29	6.00	4.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
69	69	Tapasi	0.14	3.00	1.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young.
70	70	Eechalu	0.63	5.00	5.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & girdling of trunk of the tree is found.
71	71	Eechalu	0.53	6.00	6.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area &the tree is young.
72	72	Tapalu	0.45	4.00	1.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the top portion of the tree is broken & tree is young.
73	73A	Simethangadi	0.75	6.00	4.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area & co-dominant truck is present.

Sl. No	Tree No.	Species Name	GBH (m)	Height (m)	Crown Spread (sq. m)	Preliminary Assessment (On-site Retention /Translocation/ Felling)	Justification
	73B	Simethangadi	0.43	6.00	4.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area & co-dominant truck is present.
	73C	Simethangadi	0.40	5.00	4.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area & co-dominant truck is present.
74	74	Simethangadi	0.58	7.00	5.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
75	75	Simethangadi	0.57	7.00	5.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area
76	76	Shivane	0.31	6.00	3.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young.
77	77	Shivane	0.35	6.00	4.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young.
78	78	Shivane	0.47	4.00	6.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young.
79	79	Simethangadi	0.58	6.00	6.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
80	80	Simethangadi	0.42	6.00	5.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
81	81	Hebbevu	0.67	8.00	7.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area the tree is young.

Sl. No	Tree No.	Species Name	GBH (m)	Height (m)	Crown Spread (sq. m)	Preliminary Assessment (On-site Retention /Translocation/ Felling)	Justification
82	82A	Barsera	0.67	5.00	10.00	Recommended for Felling	Recommended for Felling as the tree is located in the project area
	82B	Barsera	0.61	5.00	10.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
83	83	Baare	0.27	6.00	4.00	Recommended for Translocation	Recommended for Translocation as the tree is located in the project area & the tree is young.
84	84	Baare	0.30	6.00	5.00	Recommended for Translocation	Recommended for Translocation as the tree is located in the project area & the tree is young.
85	85	Kaggali	0.30	5.00	3.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young.
86	86	Kumkuma	0.33	5.00	4.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young.
87	87	Kagali	0.30	5.00	1.50	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
88	88	Kagali	0.38	5.00	2.00	Recommended for Translocation	Recommended for Translocation as the tree is located in the project area & the tree is young.
89	89	Basera	1.20	4.00	5.00	Recommended for Felling	Recommended for Felling as the tree is located in the project area
90	90	Hebbevu	0.41	10.00	5.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young.
91	91	Thare	1.50	10.00	15.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area

Sl. No	Tree No.	Species Name	GBH (m)	Height (m)	Crown Spread (sq. m)	Preliminary Assessment (On-site Retention /Translocation/ Felling)	Justification
92	92A	Baage	0.73	7.00	6.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young.
	92 B	Bage	0.64	7.00	4.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young.
93	93	Jungle wood	00.33	00.4	2.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young
94	94	Bidru tree	50.00	-	-	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
95	95	Kamara	0.31	3.00	5.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young.
96	96	Kaggali	0.42	4.00	2.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
97	97	Bilwara	0.15	4.00	2.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young.
98	98	Tapra	0.26	2.50	1.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
99	99	Sandal wood	0.27	5.00	6.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young.
100	100	Hebb	0.38	6.00	6.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young.

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Sl. No	Tree No.	Species Name	GBH (m)	Height (m)	Crown Spread (sq. m)	Preliminary Assessment (On-site Retention /Translocation/ Felling)	Justification
101	101	Tapala	1.70	10.00	25.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area & bulging of trunks is found & the tree is half dead.
102	102	Bidiru	-	-	30 culms	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
103	103	Bilwara	0.69	10.00	8.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young.
104	104	Bidiru	-	10.00	50 culms	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
105	105 A	Bursera	0.75	5.00	10.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
	105 B	Bursera	0.75	5.00	10.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
106	106	Sandal	0.17	5.00	4.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young.
107	107	Hebbevu	0.61	10.00	8.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young.
108	108	Tapala	2.20	10.00	15.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area & external decay cavities are found & the tree is half dead.
`109	109 A	Shivane	0.30	5.00	2.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young & co-dominant

Sl. No	Tree No.	Species Name	GBH (m)	Height (m)	Crown Spread (sq. m)	Preliminary Assessment (On-site Retention /Translocation/ Felling)	Justification
							trunks are present.
	109 B		0.40	5.00	2.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area & co-dominant trunks are present.
	109 C		0.40	5.00	2.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area & co-dominant trunks are present.
110	110 A	Kumkuma	0.18	4.00	2.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area & co-dominant trunks are present.
	110 B		0.20	4.00	2.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young.
	110 C		0.15	4.00	2.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area & co-dominant trunks are present.
	110 D		0.10	4.00	2.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area & co-dominant trunks are present.
	110 E		0.10	4.00	2.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area & co-dominant trunks are present.
111	111	Neral e	0.28	4.00	3.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & the tree is young.
112	112	Kumkuma	0.29	3.00	3.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & external decay cavities are found.

Sl. No	Tree No.	Species Name	GBH (m)	Height (m)	Crown Spread (sq. m)	Preliminary Assessment (On-site Retention /Translocation/ Felling)	Justification
113	113	Neral e	0.41	4.00	4.00	Recommended for Translocation	Recommended for Translocation as the tree is located in the project area & The tree is young
114	114	Jungle tree	0.43	5.00	3.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & The tree is young.
115	115	Thaar e	1.24	10.00	15.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
116	116	Thaar e	1.10	10.00	10.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & The tree is young.
117	117	Subabul	0.58	8.00	8.00	Recommended for Felling	Recommended for Felling as the tree is located in the project area.
118	118	Bidiru	-	6.00	4 Clumps 200 Culms	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
119	119	Tapasi	0.45	6.00	5.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & The tree is young & the bark is damaged.
120	120 A	Tapasi	0.41	6.00	2.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area & co-dominant trunks are present & the bark is damaged.
	120 B		0.45	5.00	2.00	Recommended for Translocation.	Recommended for Tanslocation as the tree is located in the project area & co-dominant trunks are present.

Sl. No	Tree No.	Species Name	GBH (m)	Height (m)	Crown Spread (sq. m)	Preliminary Assessment (On-site Retention /Translocation/ Felling)	Justification
	120C		0.35	5.00	2.00	Recommended for Felling	Recommended for Felling as the tree is located in the project area & co-dominant trunks are present.
	120 D		0.15	6.00	----	-----	------
121	**121**	**Shivane(kunkuma)**	**0.21**	**4.5**	**3.00**	**Recommended for Translocation.**	**Recommended for Translocation as the tree is located in the project area & The tree is young.**
122	**122**	**Kumkuma(shivane)**	**0.24**	**3.00**	**3.00**	**Recommended for Translocation.**	**Recommended for Translocation as the tree is located in the project area & The tree is young.**
123	123	Hebbevu	0.64	11.00	8.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & The tree is young.
124	**124**	**Tapala**	**2.20**	**12.00**	**15.00**	**Recommended for Translocation.**	**Recommended for Translocation as the tree is located in the project area & The tree is young & external decay cavities are found.**
125	125 A	Seemethangadi	0.64	10.00	6.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area & co-dominant trunks are present.
	125B		0.41	7.00	3.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area & co-dominant trunks are present.
	125C		0.50	8.00	8.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.
	125 D		0.50	8.00	8.00	Recommended for Felling.	Recommended for Felling as the tree is located in the project area.

Sl. No	Tree No.	Species Name	GBH (m)	Height (m)	Crown Spread (sq. m)	Preliminary Assessment (On-site Retention /Translocation/ Felling)	Justification
126	126	Hebbevu	0.52	10.0	6.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & The tree is young.
127	127	Thore matthi	0.25	6.00	4.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & The tree is young.
128	128	Kumkuma	0.16	4.00	3.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & The tree is young.
129	129	Jungle tree(kukuma)	0.21	4.00	3.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & The tree is young.
130	130	Nerale	0.26	5.00	3.00	Recommended for Translocation.	Recommended for Translocation as the tree is located in the project area & The tree is young.

Summary.

Total No of Trees Standing in Project Area	**130**
Total No of Trees for Felling	69
Total No of Trees for Translocation	58
Retention	03

Date:

Deputy Conservator of Forests,
Bengaluru Urban Division,
Bangalore.

ANNEXURE - 4

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

Application No. BMRCL/0023/PHASE 2/R4B/2020-2021/93 dtd 26.11.2020

Project Area: Anjanapura Depot, UM Kaval, Bengaluru

1. The Tree Officer and Deputy Conservator of Forests, Bengaluru Urban Division vide his letter dated 24.03.2021 has submitted his preliminary assessment of trees related to application filed by BMRCL pertaining to 130 number of trees standing at the proposed Construction of **Anjanapura Depot and Viaduct for Depot Entry Line in Reach 4B via Kanakapura Road, Bengaluru,** of the Metro Project. The submission is accompanied by following documents:

    a. A copy of the application dated 26.11.2020 from BMRCL along with details and map of the area and details of trees including GPS coordinates

    b. The public notice dated 30.11.2020 issued by the Tree Officer & DCF, Bangalore Urban Division, a complete set of the objections/suggestions from the public and a copy of the proceedings dated 15.12.2020 of the Tree Officer regarding consideration of the objections/suggestions as per Section 8(3)(vii) of the Karnataka Preservation of Trees Act, 1976 (Henceforth referred as KPT Act)

    c. Tree Assessment Forms in Template 2 with Part I (dated 21.12.2020) containing tree details as furnished by Range Forest Officer and Part II (dated 28.12.2020) containing preliminary assessment by the Tree Officer for each of 130 trees proposed for removal by BMRCL.

    d. Abstract of the review of the BMRCL application and preliminary assessment of trees by the Tree Officer in Template 3 Part I.

    e. A statement prepared by Tree Officer showing the tree details along with preliminary assessment and justification for on-site retention/translocation/felling of trees.

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

2. The application was reviewed by the Tree Expert Committee (mentioned as TEC henceforth) in its meeting held on 02.07.2021. The TEC also considered the objections/suggestions received from the public, remarks and findings of the Tree Officer in respect of each objection, and proceedings dated 15.12.2020 of the Tree Officer regarding consideration of those objections.

3. The TEC observed that one objection/suggestion has been received in response to the public notice and it viewed that public appreciated that Namma Metro was awesome and also said that Metro Rail is one of the coolest things in the cities where there is more traffic. In addition, the Tree Officer also

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

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

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

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

Total number of Trees assessed in the project area	**130**
Total number of Trees assessed for on-site retention	**03**
Total number of Trees assessed as suitable for translocation	**58**
Total number of Trees for felling	**69**

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

   The TEC decided to visit the project area and scheduled the field inspection for 09.07.2021.

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

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

ANNEXURE - 5

Proceedings of Tree Expert Committee in respect of Field Inspection with respect to BMRCL application for 130 trees existing at Anjanapura Depot area pertaining to Reach-4B

Application No. BMRCL/0023/PHASE 2/R4B/2020-2021/93 dtd 26.11.2020

Project Area: Anjanapura Depot, UM Kaval, Bengaluru

1. In obedience to the orders of Hon'ble High Court of Karnataka and in furtherance of the earlier meeting proceedings (dtd 02.07.2021), the field inspection for assessment of trees standing in the Metro Rail Project Area at Anjanapura Depot, pertaining to Reach-4B, for Construction of Anjanapura Depot and Viaduct for Depot Entry Line via Kanakapura Road, Bengaluru of Metro Rail Project, was carried out by the TEC on 09.07.2021. The Tree Officer and the Representatives of BMRCL were present at the site..

2. The following activities were carried out by the TEC for each tree assessed.

    i. Physical verification of the tree number and the associated information collected by the Forest Department Officers in Template 2 Part I, including tree health / tree defects and general assessment.

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

    iii. Discussion with BMRCL Representatives to explore possibility of carrying out the construction without removal of trees, and identification of those trees which can be retained on-site.

    iv. Review of preliminary assessment made by the Tree Officer in the Template 2 Part II.

    v. Assessment of the general conditions of the trees to decide the feasibility of tree translocation in the event of retention-on-site not possible.

3. The Committee in its above set of activities was guided by the detailed procedure and prioritization formulated in Step 7 of the Memorandum of Procedure (MOP).

4. The Committee carried out the thorough and multipronged scrutiny of all the trees to make its recommendations regarding:

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

    b) Trees which should be translocated depending upon their general condition as assessed and ecological importance, in the event of (a) above not being possible;

    c) Trees recommended for removal in the event of (a) and (b) not being possible including the trees which are silviculturally matured or softwood trees and trees suffering from defects / damages.

5. **On-site Retention**: The TEC identified 07 trees though standing in the project area but not hindering the project activities, and those trees can be retained-on-site.

6. As verified during the field inspection, the remaining 123 trees which have to be suggested for translocation and felling are falling within the following physical features of the Project.

Physical Features	Tree Numbers
Pile and Pier Construction works of Deport Entry Line	3, 4, 5, 6, 7, 8, 9, 10, 11, 21, 22, 24, 26, 27, 28, 29, 30, 31, 38, 40, 41, 42, 43 **= Total 23 Trees**
Launching of I-Girder works of Deport Entry Line	13, 14, 15, 16, 17, 18, 19, 20, 32, 33, 34, 35, 37 **= Total 13 trees**
Retaining Wall Construction Works of Depot	44, 45, 51, 52, 55, 57, 59, 61, 68, 69, 83, 84, 85, 86, 92, 99, 100, 105, 106, 107, 108, 117, 118, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130 **= Total 34 Nos.**
Earth Filling and Track Laying Works of Depot	46, 47, 48, 49, 50, 53, 54, 56, 58, 60, 62, 63, 64, 65, 66, 67, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80,81, 82, 87, 88, 89, 90, 91, 93, 94, 95, 96, 97, 98, 101, 102, 103,104, 109, 110, 111, 112, 113, 114, 115,116, 119 **= Total 53 Nos.**

Since these 123 trees are standing right in the construction area and hindering the project activities, their removal becomes inevitable.

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

   i. Proximity of tree to building structures, trunks proximity to the cement / concrete or tarred surface.
   ii. The trees having below mentioned characteristics did not qualify for translocation. Trees having forked trunk, major wounds on the trunk, debarking, physical damage on the bark, scar due to fire, damage (girdling), rotting due to fungal infection (fruiting bodies of fungus, rotten core, hollowness) or pest infestation (presence of holes and frass as evidence of insect infestation), and dead / dried major branches, etc.
   iii. Other aspects of species viz., economically important species, species that could provide food (nectar, pollen, seeds and fruits) and nesting sources (materials and site) to various fauna.

8. For the trees having the potential for translocation, availability of effective zone to extract the root-ball of sufficient size was also assessed. The trees in the above category (ii) and those

without adequate effective zone to extract the root-ball of sufficient size were specifically not recommended for the translocation.

9. Ultimately the trees, which could neither be retained-on-site nor translocated, were recommended for felling as a last resort.

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

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

Total number of Trees standing in the Project area – 130

Particulars	Total
Total number of Trees examined/observed	**130**
Total number of Trees found suitable for on-site retention	**07**
Total number of Trees found suitable for translocation	**36**
Total number of Trees for felling	**87**

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

13. **Assessment of areas for Translocation:** Having completed the above assessment of trees at the project area, the Committee visited the following area proposed by BMRCL and recommended by the Tree Officer for translocation of trees to assess the land suitability.

Devika Rani Estate Area, Kanakapura Road, Bengaluru

14. The Committee reviewed the soil test analysis report, of the above Devika Rani Estate Area as prepared by Department of Soil Science and Agricultural Chemistry, UAS, GKVK, Bangalore and recommended by the Tree Officer and DCF, with the following inference:

> *"The Three soil samples provided for analysis are neutral to alkaline in nature, low in salt content, and organic carbon contain and contain medium to high nitrogen (280-360 kg/ha) and low quantities of (P,K and all other parameters as per standards.) Therefore with proper nutrient application and use of amendments soil is suitable for tree shifting".*

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

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

15. In pursuance to the instructions as mentioned in KPT Act 1976, BMRCL should take up Compensatory afforestation by planting of 1230 saplings @ 10 saplings for each tree to be translocated/felled.

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

Recommendations and justifications for On site Retention/Translocation/Felling of trees by Tree Expert Committe **Appendix**

Sl No	Tree Number	Tree Name	Girth in Mtr	Height in Mtr	Latitude (N)	Longitude (E)	Crown Spread in Sq.Mtr	TEC Recommendation	Justification
1	1	Hunase	1.85	10.00	12deg 51min 20.6sec	77deg 31min 30.9sec	10.00	Retention	The tree is Recommendation for retention as the major construction activities in and around the tree is completed. However, for the remaining work to be executed near the tree, in order to facilitate the work little branches of the tree can be pruned appropriately (scientifically), **Recommendation : Retention**
2	2	Gulmohar	1.18	8.00	12deg 51min 22.0sec	77deg 31min 32.1sec	8.00	Retention	The tree is Recommendation for retention as the major construction activities in and around the tree is completed. However, for the remaining work to be executed near the tree, in order to facilitate the work little branches of the tree can be pruned appropriately(scientifically), **Recommendation : Retention**
3	3	Gulmohar	0.32	6.00	12deg 51min 23.4sec	77deg 31min 33.4sec	3.00	Felling	The tree cannot be retained as the construction of pile cap (for DP 01) as per plan is proposed close to the location of the tree. The tree is present in cluster closer to other trees; therefore, excavation of desirable root ball for transplantation is not possible. **Recommendation : Felling.**
4	4	Gulmohar	0.23	5.50	12deg 51min 23.4sec	77deg 31min 33.4sec	2.00	Felling	The tree cannot be retained as the construction of pile cap (for DP 01) as per plan is proposed close to the location of the tree. The tree is present in cluster closer to other trees; therefore, excavation of desirable root ball for transplantation is not possible. **Recommendation: Felling.**
5	5	Gulmohar	0.22	6.50	12deg 51min 23.5sec	77deg 31min 33.4sec	2.00	Felling	The tree cannot be retained as the construction of pile cap (for DP 01) as per plan is proposed close to the location of the tree. The tree is present in cluster closer to other trees; therefore, excavation of desirable root ball for transplantation is not possible. **Recommendation : Felling.**

6	6	Gulmohar	0.27	6.50	12deg 51min 23.5sec	77deg 31min 33.4sec	3.00	Felling	The tree cannot be retained as the construction of pile cap (for DP 01) as per plan is proposed close to the location of the tree. The tree is present in cluster closer to other trees; therefore, excavation of desirable root ball for transplantation is not possible. **Recommendation : Felling.**
7	7	Gulmohar	0.75	8.50	12deg 51min 23.5sec	77deg 31min 33.5sec	8.00	Felling	The tree cannot be retained as the construction of pile cap (for DP 01) as per plan is proposed close to the location of the tree. The tree is present in cluster closer to other trees; therefore, excavation of desirable root ball for transplantation is not possible. **Recommendation : Felling.**
8	8	Gulmohar	0.75	9.00	12deg 51min 23.5sec	77deg 31min 33.5sec	6.00	Felling	The tree cannot be retained as the construction of pile cap (for DP 01) as per plan is proposed close to the location of the tree. The tree is present in cluster closer to other trees; therefore, excavation of desirable root ball for transplantation is not possible. **Recommendation : Felling.**
9	9	Shivane	0.72	8.50	12deg 51min 23.8sec	77deg 31min 33.5sec	5.00	Felling	The tree cannot be retained as the construction of pile cap (for DP 01) as per plan is proposed very close to the location of the tree. The tree is matured with severe canker and decay symptom therefore, transplantation is not possible. **Recommendation : Felling.**
10	10	Thare	2.17	13.00	12deg 51min 24.2sec	77deg 31min 33.7sec	20.00	Felling	The tree cannot be retained as the construction of pile Cap (for DP 02) as per plan is proposed very close to the location of the tree. The tree is matured and the base is conjoined with tree no. 12, therefore transplantation is not possible. **Recommendation : Felling.**
11	11	Sandal	0.19	6.50	12deg 51min 24.2sec	77deg 31min 33.6sec	2.00	Felling	The tree is Recommendation for extraction as the construction of pile Cap (for DP 02) as per plan is proposed very close to the location of the tree. The base of the tree is conjoined with tree no. 12, therefore transplantation of the tree is not possible. **Recommendation : Extraction/Felling.**

12	12	Beete	0.47	6.50	12deg 51min 24.6sec	77deg 31min 33.8sec	4.00	Retention	The tree is Recommendation for retention as the tree is present abutting (within the project area) to the boundary and do not affect any of the proposed construction activities. **Recommendation : Retention**
13	13	Hebbevu	1.05	11.50	12deg 51min 25.4sec	77deg 31min 33.3sec	6.00	Felling	The tree is Recommendation for felling as the tree is dried completely. **Recommendation : Felling**
14	14 14a	Subabul	0.34	6.30	12deg 51min 27.2sec	77deg 31min 32.4sec	5.00	Felling	The tree cannot be retained as the construction of pile cap (for DP 07 & 06) as per plan is proposed near to the location of the tree. The tree is present in cluster closer to other trees; therefore, excavation of desirable root ball for transplantation is not possible. **Recommendation : Felling**
	14b		0.15	6.30			4.00		
15	15	Subabul	0.23	6.00	12deg 51min 27.2sec	77deg 31min 32.4sec	5.00	Felling	The tree cannot be retained as the construction of pile Cap (for DP 07 & 6) as per plan is proposed near to the location of the tree. The tree shows canker symptoms and is present in cluster closer to other trees excavation of desirable root ball for transplantation is not possible. **Recommendation : Felling.**
16	16	Subabul	0.56	8.00	12deg 51min 27.1sec	77deg 31min 32.3sec	6.00	Felling	The tree cannot be retained as the construction of pile Cap (for DP 07 & 6) as per plan is proposed near to the location of the tree. The tree is with decay symptoms and in addition the tree is present in cluster closer to other trees; therefore, excavation of desirable root ball for transplantation is not possible. **Recommendation: Felling.**
17	17	Subabul	0.34	8.00	12deg 51min27.2sec	77deg 31min 32.3sec	5.00	Felling	The tree cannot be retained as the construction of pile Cap (for DP 07 & 6) as per plan is proposed near to the location of the tree. The tree shows canker symptoms and in addition the tree is present in cluster closer to other trees: therefore, excavation of desirable root ball for transplantation is not possible. **Recommendation : Felling.**

18	18	Echalu	1.47	10.00	12deg 51min 27.2sec	77deg 31min 32.2sec	7.00	Transplantation	The tree is present in the location proposed for construction of pile cap (for DP 07 & 6) as per plan; therefore, the tree cannot be retained. In consideration to to the brief characteristics (Physical /morphological) of the tree, the tree is Recommendation for transplantation **Recommendation : Translocation**
19	19	Honge	0.62	8.50	12deg 51min 27.3sec	77deg 31min 32.2sec	8.00	Felling	The tree cannot be retained as the construction of pile Cap (for DP 07 & 6) as per plan is proposed very close to the location of the tree. The tree is matured and the base is close to tree no.20 and 21 therefore transplantation is not possible. **Recommendation : Felling**
20	20	Honge	0.58	9.50	12deg 51min 27.3sec	77deg 31min 32.2sec	8.00	Felling	The tree cannot be retained as the construction of pile Cap (for DP 07 & 6) as per plan is proposed very close to the location of the tree. The tree is matured and the base is closed to tree no.19 and 21 therefore transplantation is not possible. **Recommendation: Felling.**
21	21	Honge	0.47	3.00	12deg 51min 27.3sec	77deg 31min 32.1sec	1.00	Felling	The tree cannot be retained as the construction of pile Cap (for DP 07 & 6) as per plan is proposed very close to the location of the tree. The tree is matured and the base is closed to tree no.20 and 21 therefore transplantation is not possible. **Recommendation : Felling.**
22	22	Honge	0.38	2.50	12deg 51min 27.4sec	77deg 31min 32.2sec	6.00	Felling	The tree cannot be retained as the construction of pile Cap (for DP 07 & 6) as per plan is proposed very close to the location of the tree. The tree is matured and the base is closed to tree no.24 therefore transplantation is not possible. **Recommendation : Felling.**
23	23	Jagalaganti	0.18	3.00	12deg 51min 27.4sec	77deg 31min 32.2sec	1.00	[illegible]	The tree is Recommendation for retention, as the tree is located (blue colour mark) outside the project area. **Recommendation : Retention**
24	24	Jagalaganti	0.25	4.00	12deg 51min 27.4sec	77deg 31min 32.2sec	1.50	Felling	The tree cannot be retained as the construction of pile Cap (for DP 07 & 6) as per plan is proposed very close to the location of the tree. The tree is matured and the base is closed to tree no.22 and 21 therefore transplantation is not possible. **Recommendation : Felling.**

25	25	Subabul	0.27	6.50	12deg 51min 27.5sec	77deg 31min 32.2sec	3.00	Retention	The tree is Recommendation for retention, as the tree is located (blue colour mark) outside the project area. **Recommendation : Retention**
26	26	Honge	0.42	6.00	12deg 51min 27.4sec	77deg 31min 32.1sec	5.00	Felling	The tree cannot be retained as the construction of pile Cap (for DP 07) as per plan is proposed very close to the location of the tree. The tree is matured and the base is conjoined with tree no.27, 28,and 29 therefore transplantation is not possible. **Recommendation : Felling**
27	27	Honge	0.27	5.00	12deg 51min 27.4sec	77deg 31min 32.1sec	2.00	Felling	The tree cannot be retained as the construction of pile Cap (for DP 07) as per plan is proposed very close to the location of the tree. The tree is matured and the base is conjoined with tree no.26,28 and 29, therefore transplantation is not possible. **Recommendation : Felling.**
28	28	Jungle tree	0.27	5.00	12deg 51min 27.4sec	77deg 31min 32.1sec		Felling	The tree cannot be retained as the construction of pile Cap (for DP 07) as per plan is proposed very close to the location of the tree. The tree is matured and the base is conjoined with tree no.26,28 and 29, therefore transplantation is not possible. **Recommende : Felling.**
29	29	Jagalaganti	0.25	3.00	12deg 51min 27.4sec	77deg 31min 32.1sec	2.00	Felling	The tree cannot be retained as the construction of pile Cap (for DP 07) as per plan is proposed very close to the location of the tree. The tree is matured and the base is conjoined with tree no.26,27 and 28, therefore transplantation is not possible. **Recommendation : Felling.**
30	30	Cherry	0.66	3.00	12deg 51min 26.9sec	77deg 31min 32.8sec		Felling	The tree is present outside the project area as per plan. However, it was observed the tree was enumerated and found dead and fallen. **Recommendation :Felling**
31	31	Echalu	0.85	10.00	12deg 51min 27.3sec	77deg 31min 31.7sec	8.00	Transplantation	The tree cannot be retained as the construction of pile Cap (for DP 07 & 6) as per plan is proposed very close to the location of the tree. The tree is matured and the base is closed to tree no.20 and 21 therefore transplantation is not possible. **Recommendation : Translocation**

32	32	Banni	0.67	8.00	12deg 51min 27.6sec	77deg 31min 31.7sec	8.00	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed very close to the location of the tree. The tree is matured therefore transplantation is not possible. **Recommendation : Felling.**
33	33	Tapala	1.55	13.00	12deg 51min 27.7sec	77deg 31min 31.6sec	10.00	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed very close to the location of the tree. The tree is matured therefore transplantation is not possible. **Recommendation : Felling.**
34	34	Shivane	0.25	5.00	12deg 51min 27.7sec	77deg 31min 31.6sec	3.00	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed very close to the location of the tree. The base of the tree is very close to tree no.35 ,therefore transplantation is not possible. **Recommendation : Felling.**
35	35	Shivane	0.25	5.00	12deg 51min 27.7sec	77deg 31min 31.6sec	3.00	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed very close to the location of the tree. The base of the tree is very close to tree no.34, therefore transplantation is not possible. **Recommendation : Felling.**
36	36	Tapasi	0.28	5.00	12deg 51min 27.8sec	77deg 31min 31.6sec	4.00	Retention	The tree is present outside the project area as per project plan, therefore the tree is Recommendation for retention. **Recommendation : Retention**
37	37	Subabul	0.18	3.00	12deg 51min 27.7sec	77deg 31min 31.5sec	2.00	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of earth) as per plan is proposed very close to the location of the tree. The roots of tree are exposed. Therefore, the tree do not qualify for transplantation. **Recommendation : Felling**

38	38	Mutthuga	0.80	5.00	12deg 51min 27.8sec	77deg 31min 31.4sec	4.00	Transplantation	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of earth) as per plan is proposed very close to the location of the tree. The field condition of the tree qualify the tree for transplantation. **Recommendation : Translocation.**
39	39	Jagalaganti	0.38	5.00	12deg 51min 27.9sec	77deg 31min 31.5sec	5.00	Retention	The tree is present outside the project area as per project plan and therefore the tree is Recommendation for retention. **Recommendation : Retention**
40	40	Gobbarada gida	0.19	5.00	12deg 51min 27.9sec	77deg 31min 31.2sec	1.00	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed very close to the location of the tree. The base of the tree is close to tree no. 43, thereforethe tree do not qualify for transplantation.. **Recommendation : Felling.**
41	41	Gobbarada gida	0.26	6.00	12deg 51min 27.8sec	77deg 31min 31.2sec	2.00	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in the location of the tree. The roots of the tree are exposed; therefore, the tree do not qualify for transplantation. **Recommendation :Felling.**
42	42	Subabul	0.23	6.50	12deg 51min 27.8sec	77deg 31min 31.3sec	2.00	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in the location of the tree. The roots of the tree are exposed; therefore, the tree do not qualify for transplantation. **Recommendation :Felling.**
43	43	Gobbarada gida	0.17	4.00	12deg 51min 27.0sec	77deg 33min 10.7sec	2.00	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in the location of the tree. The base of the tree is close to tree no.40, therefore the tree do not qualify for transplantation. **Recommendation: Felling.**

44	44	Gobbarada gida	0.31	5.00	12deg 51min 28.0sec	77deg 31min 31.2sec	2.00	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in the location of the tree. The base of the tree is close to tree no.44, therefore the tree do not qualify for transplantation. **Recommendation : Felling.**
45	45	Gobbarada gida	0.25	6.00	12deg 51min 28.0sec	77deg 31min 31.2sec	1.00	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in the location of the tree. The base of the tree is close to tree no.47 and 48, therefore the tree do not qualify for transplantation. **Recommendation: Felling.**
46	46	Gobbarada gida	0.24	6.00	12deg 51min 27.9sec	77deg 31min 31.1sec	1.00	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed very close to the location of the tree. The base of the tree is close to tree no.46 and 48, therefore the tree do not qualify for transplantation. **Recommendation : Felling.**
47	47	Gobbarada gida	0.29	5.00	12deg 51min 27.9sec	77deg 31min 31.1sec	2.00	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in the location of the tree. The base of the tree is close to tree no.46 and 47, therefore the tree do not qualify for transplantation. **Recommendation : Felling.**
48	48	Gobbarada gida	0.32	2.50	12deg 51min 27.9sec	77deg 31min 31.1sec	2.00	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in the location of the tree. The roots of the tree are exposed; therefore, the tree do not qualify for transplantation. **Recommendation : Felling.**
49	49	Gobbarada gida	0.26	6.00	12deg 51min 27.9sec	77deg 31min 31.2sec	2.00	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in the location of the tree. The roots of the tree are exposed; therefore, the tree do not qualify for transplantation. **Recommendation : Felling.**

50	50	Echalu	0.90	3.50	12deg 51min 27.9sec	77deg 31min 31.1sec	5.00	Translocation	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of earth) as per plan is proposed in the location of the tree In consideration to the brief characteristics(physical/morphological) of the tree, the tree is Recommendation for transplantation. **Recommendadtion : Translocation**
51	51	Gobbarada gida	0.87	6.00	12deg 51min 28.0sec	77deg 31min 30.9sec	4.00	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of earth) as per plan is proposed in the location of the tree The tree is multiforked with included barks (weak branch union), therefore the tree do not qualify for transplantation. **Recommendation : Felling.**
52	52	Gobbarada gida	0.25	6.00	12deg 51min 28.1sec	77deg 31min 31.0sec	2.00	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in the location of the tree. The base of the tree is close to tree no.53, therefore the tree do not qualify for transplantation. **Recommendation : Felling.**
53	53	Gobbarada gida	0.29	6.50	12deg 51min 28.1sec	77deg 31min 31.0sec	2.00	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of earth) as per plan is proposed in the location of the tree The base of the tree is close to tree no.52, therefore the tree do not qualify for transplantation. **Recommendation: Felling.**
54	54 54a	Subabul	0.41	6.00	12deg 51min 28.1sec	77deg 31min 30.9sec	6.00	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of earth) as per plan is proposed in the location of the tree The tree is forked with included barks (weak branch union), therefore the tree do not qualify for transplantation. **Recommendation : felling.**
	54b		0.30	6.00			1.00		
55	55	Jungle tree	0.17	4.50	12deg 51min 28.2sec	77deg 31min 30.8sec	1.00	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of earth) as per plan is proposed in the location of the tree The base of the tree is close to tree no.57, therefore the tree do not qualify for transplantation. **Recommendation : Felling.**

56	56	Hale Tree	0.30	5.00	12deg 51min 28.2sec	77deg 31min 30.7sec	3.00	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in the location of the tree. The base of the tree is close to tree no.58, therefore the tree do not qualify for transplantation. **Recommendation :Felling.**
57	57	Tapala	1.40	4.50	12deg 51min 28.2sec	77deg 31min 30.8sec		Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in the location of the tree. The tree is severely infested by secondary infestors and partially dried, therefore the tree do not qualify for transplantation. **Recommendation: Felling.**
58	58	Gobbarada gida	0.24	4.50	12deg 51min 28.3sec	77deg 31min 30.6sec	2.00	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in the location of the tree. The base of the tree is close to tree no.56, therefore the tree do not qualify for transplantation. **Recommendation : Felling.**
59	59 59a	Gobbarada gida	0.23	4.50	12deg 51min 28.3sec	77deg 31min 30.7sec	2.00	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in the location of the tree. The base of the tree is close to tree no.60, therefore the tree do not qualify for transplantation. **Recommendation : Felling.**
	59b		0.20	4.50			1.00		
60	60	Gobbarada gida	0.24	4.00	12deg 51min 28.3sec	77deg 31min 30.6sec	2.00	Felling	The tree cannot be retained as the construction activities for ballasted track (involves mass excavation/filling of the earth) as per plan is proposed in the location of the tree. The base of the tree is close to tree no.60, therefore the tree do not qualify for transplantation. **Recommendation : Felling.**
61	61	Subabul	0.51	8.00	12deg 51min 28.4sec	77deg 31min 30.6sec	5.00	Felling	• Tree is located in the proposed project area. • Tree is situated near to the existing compound wall; appropriated root ball cannot be excavated. Hence this tree is Recommendation for felling.
62	62	Thare	1.70	11.00	12deg 51min 28.0sec	77deg 31min 30.6sec	10.00	Felling	• Tree is located within the project area. • Tree is silviculturally matured, girdled at the base of the trunk and also mechanically damaged. • hence this tree disqualifies transplantation.

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63	63	Thare	0.76	8.00	12deg 51min 28.1sec	77deg 31min 30.4sec	6.00	Felling	• Tree is located within the project area. • Tree has forked branches and mechanically damages. • Hence, this tree is unfit for transplantation
64	64	Thare	0.25	4.50	12deg 51min 28.1sec	77deg 31min 30.4sec	4.00	Felling	• Tree is located within the project area. • Tree has forked branches and mechanically damages. • Hence, this tree is unfit for transplantation
65	65	Thare	0.79	9.00	12deg 51min 28.1sec	77deg 31min 30.4sec	6.00	Felling	• Tree is located within the project area. • Tree has forked branches and mechanically damages. • Hence, this tree is unfit for transplantation
66	66	Thare	1.51	12.00	12deg 51min 28.2sec	77deg 31min 30.3sec	10.00	Transplantation	· Tree is located within the project area. · Tree has forked branches at an height of 2.0 meter from the ground. · Tree has clear bole and ,Hence Recommendation for transplantation
67	67 67a	Honne	0.56	6.00	12deg 51min 28.5sec	77deg 31min 29.7sec	5.00	Transplantation	· Tree is located within the project area . Tree has forked branches; one branch is dried. · Dried branches should be pruned while transplantation
	67b		0.28	2.00			2.00		
68	68	Gobbarada gida	0.29	6.00	12deg 51min 28.8sec	77deg 31min 29.1sec	4.00	Felling	• The tree is located in the project area. • The tree having multiple branches, and is located near the existing compound wall. • Hence, this tree is unfit for transplantation.
69	69	Tapasi	0.14	3.00	12deg 51min 28.8sec	77deg 31min 29.1sec	1.00	Transplantation	· The tree located in the project area. · Young seedling with no significant visual symptoms. · Hence, Recommendation for transplantation.
70	70	Achalu	0.59	4.50	12deg 51min 28.8sec	77deg 31min 28.9sec	5.00	Felling	• Tree located in the project area. • Half of the trunk is already damaged. • Hence, this tree does not fit for transplantation.
71	71	Achalu	0.53	6.00	12deg 51min 29.0sec	77deg 31min 28.9sec	6.00	Transplantation	· Tree is located within the project area. · Tree is from any damage and hence, Recommendation for transplantation/translocation. This tree is near to tree No.80 and 78.Hence, care should be taken while root ball excavation.

72	72		Tapala	0.45	5.00	12deg 51min 29.0sec	77deg 31min 28.8sec	1.00	Felling	• Tree is located within the project area. • Tree is leaned and bent; major branches are already dried. • Hence this tree does not fit for transplantation
73	73	73a	Seemethangadi	0.48	6.00	12deg 51min 29.3sec	77deg 31min 28.5sec	4.00	Felling	• Tree No.81,82 are very nearer and are at a circumference of not more 1 meter and these trees. Hence, appropriate root ball cannot be taken for successful transplantation. • Hence, this tree is unfit for transplantation.
		73b		0.41	6.00			4.00		
		73c		0.40	4.00			4.00		
74	74		Seemethangadi	0.58	7.00	12deg 51min 29.3sec	77deg 31min 28.5sec	5.00	Felling	• Tree No.81,82 are very nearer and are at a circumference of not more 1 meter and these trees. Hence, appropriate root ball cannot be taken for successful transplantation. • Hence, this tree is unfit for transplantation.
75	75		Seemethangadi	0.56	7.00	12deg 51min 29.3sec	77deg 31min 28.5sec	5.00	Felling	• Tree No.83,82 are very nearer to this tree and at a distance of less than 0.5 meter. Hence, appropriate root ball cannot be excavated. • Tree is having minimal ecological importance. • Based on these factors, this tree is unfit for transplantation.
76	76		Shivane	0.31	4.50	12deg 51min 29.5sec	77deg 31min 28.2sec	3.00	Felling	• Tree No.84,85,86 are very nearer and are at a circumference of not more 1 meter and these trees are located near the adjacent compound wall. Hence, appropriate root ball cannot be taken for successful transplantation. • Hence, this tree is unfit for transplantation.
77	77		Shivane	0.35	5.00	12deg 51min 29.5sec	77deg 31min 28.2sec	4.00	Felling	• Tree No.84,85,86 are very nearer and are at a circumference of not more 1 meter and these trees are located near the adjacent compound wall. Hence, appropriate root ball cannot be taken for successful transplantation. • Hence, this tree is unfit for transplantation.
78	78		Shivane	0.47	3.00	12deg 51min 29.5sec	77deg 31min 28.2sec	6.00	Felling	• Tree No.84,85,86 are very nearer and are at a circumference of not more 1 meter and these trees are located near the adjacent compound wall.. Hence, appropriate root ball cannot be taken for successful transplantation. • Hence, this tree is unfit for transplantation.

79	79	Seemethangadi	0.54	7.00	12deg 51min 29.4sec	77deg 31min 28.1sec	6.00	Felling	• Trees are having multiple branches and tree No.88, very nearer to this tree and at a distance of less than 0.5 meter. Hence, appropriate root ball cannot be excavated. • Tree is having minimal ecological importance. • Based on these factors, this tree is unfit for transplantation.
80	80	Seemethangadi	0.42	7.00	12deg 51min 29.4sec	77deg 31min 28.1sec	5.00	Felling	• Trees are having multiple branches and tree No.87, very nearer to this tree and at a distance of less than 0.5 meter. Hence, appropriate root ball cannot be excavated. • Tree is having minimal ecological importance. • Based on these factors, this tree is unfit for transplantation.
81	81	Hebbevu	0.67	8.00	12deg 51min 29.6sec	77deg 31min 27.9sec	7.00	Felling	• Tree is situated in the proposed alignment of depot. • Tree is mechanically damaged and attacked be termites. • Hence, tree disqualifies for transplantation.
82	82 82a	Bursera	0.67	5.00	12deg 51min 29.6sec	77deg 31min 27.8sec	10.00	Felling	• Tree is located in the proposed alignment of depot. • This tree is silviculturally matured, major branches of this tree are already fallen • More than 70 per cent of the tree is already dried. • Hence, this tree is not fit for transplantation.
	82b		0.66	5.00			10.00		
83	83	Baare	0.27	4.50	12deg 51min 29.4sec	77deg 31min 27.7sec	4.00	Transplantation	· Tree is located in the proposed alignment. · Tree is having clear bole and no significant visual symptoms. There are no trees near by this tree ,appropriate root ball can be excavated, Hence tree is Recommendation for transplanting.
84	84	Baare	0.36	4.50	12deg 51min 29.3sec	77deg 31min 27.6sec	5.00	Transplantation	· Tree is located in the proposed alignment. · Tree is having forked branches and one branch is already felled. • There are no trees near by this tree appropriate root ball can be excavated. Hence tree is Recommendation for transplanting.

85	85	Kaggali	0.31	5.00	12deg 51min 29.3sec	77deg 31min 27.5sec	3.00	Transplantation	· Tree is located in the proposed alignment. · Tree is having clear, straight bole with no visual significant symptoms. There is enough space for excavating, appropriate root ball. Hence tree is Recommendation for transplantation.
86	86	kumkuma	0.33	4.50	12deg 51min 29.6sec	77deg 31min 27.4sec	4.00	Transplantation	· Tree is located in the proposed alignment. · Tree is having clear, straight bole with no visual significant symptoms. There is enough space for excavating, appropriate root ball. Hence tree is Recommendation for transplantation.
87	87	Kaggali	0.30	4.20	12deg 51min 29.6sec	77deg 31min 27.3sec	1.50	Felling	• Tree is located in the proposed alignment. • Tree is having minimal ecological importance and also mechanically damaged. • Hence ,not fit for transplantation
88	88	Kaggali	0.38	4.20	12deg 51min 29.7sec	77deg 31min 27.2sec	2.00	Felling	• Tree is located in the proposed alignment. • Tree is having minimal ecological importance and also mechanically damaged. • Hence, not fit for transplantation.
89	89	Bursera	1.20	3.60	12deg 51min 29.8sec	77deg 31min 27.0sec	5.00	Felling	• Tree is within the project area. • Tree matured, half of the trunk was damaged and has termite attack, three branches were already felled and one more branch was fallen.
90	90	Hebbevu	0.41	6.00	12deg 51min 30.0sec	77deg 31min 27.1sec	5.00	Transplantation	· Tree is within the proposed project area and it is near the existing compound wall. · Tree is having clear straight bole with minor fissures on the base of the trunk. However, with all this tree is Recommendation for transplantation/translocation.
91	91	Thare	1.60	8.00	12deg 51min 29.8sec	77deg 31min 26.8sec	15.00	Transplantation	· Tree is having clear straight bole, no visual Significant symptoms and tree is located in the proposed depot, hence this tree Recommendation for transplantation.

92	92	92a	Bage	0.73	7.00	12deg 51min 29.6sec	77deg 31min 26.7sec	6.00	Transplantation	· Tree has forked branches at an height of 2.0 meter from the ground. One branch is very lean and bent at an angle 45 degree · Committee suggested for transplantation after pruning leaned and bent branch.
		92b		0.64	7.00			4.00		
93	93		Shivane	0.33	3.50	12deg 51min 29.8sec	77deg 31min 27.1sec	2.00	Transplantation	• Tree is within the proposed alignment. • Tree has clear and straight bole, having no visual significant symptoms. • This tree is very nearer to Tree No. 94. Hence, precautionary measures to take while appropriate root ball for successful transplantation.
94	94		Kiru Bidiru	50 Culms		12deg 51min 29.8sec	77deg 31min 26.8sec	–	Felling	• This is located in the proposed project depot. • This is having more than 25culms, which spreads over more than 2 square meter, hence not possible to excavate appropriate root ball for successful transplantation. • Hence Recommendation for felling
95	95		Kamara	0.31	3.00	12deg 51min 30.0sec	77deg 31min 26.4sec	5.00	Transplantation	• Tree is within the proposed project area. • Tree is having forked branches, one small branch was pruned. • Tree is Recommendation for transplanting/translocation by excavating appropriate root ball for excavation.
96	96		Kaggalli	0.42	3.00	12deg 51min 29.9sec	77deg 31min 26.3sec	2.00	Felling	• Tree is within the project area ,tree is having multiple branches, one branch was fallen.
97	97		Bilwara	0.15	3.00	12deg 51min 29.9sec	77deg 31min 26.3sec	2.00	Transplantation	• Tree is young and is located near tree No. 97. • Hence, precautionary measures to be taken while excavating appropriate root ball for translocation.
98	98		Tupra	0.26	3.00	12deg 51min 29.9sec	77deg 31min 26.2sec	1.00	Felling	• Tree is within the project area. All the branches of this tree are already pruned and also mechanically damaged. • Hence Recommendation for felling.

99	99	Sandal wood	0.27	4.00	12deg 51min 29.7sec	77deg 31min 26.1sec	6.00	Transplantation	• Tree is within the proposed project area. • Tree is nearer to tree No. 116, Young tree, Recommendation for transplanting with suitable host,
100	100	Hebbevu	0.38	5.50	12deg 51min 29.7sec	77deg 31min 26.1sec	6.00	Transplantation	• Tree is within the proposed depot. • Tree is young, tree is nearer to Tree NO. 127,Hence care should be taken to excavate appropriate root ball while transplantation/translocation.
101	101	Tapala	1.70	10.00	12deg 51min 30.2sec	77deg 31min 26.1sec	25.00	Felling	• Tree is within the proposed depot. • Tree is silviculturally matured, and two major branches are dried. • Steam knots on the main trunk. • Based on this character's tree does not fit for translocation/transplantation.
102	102	Kiru Bidiru	30 Culms		12deg 51min 30.2sec	77deg 31min 26.1sec		Felling	• Tree is in the proposed depot. • There are more than 11 culms spreading more than 1.5-meter area. • Excavation of appropriate root ball is not possible for translocation/transplantation.
103	103	Bilwara	0.69	10.00	12deg 51min 30.2sec	77deg 31min 25.9sec	8.00	Transplantation	• Tree is present in the center of the project area. • Tree is having clear bole and visual significant symptoms, hence Recommendation for transplantation/translocation.
104	104	Kiru Bidiru	30 Culms		12deg 51min 30.2sec	77deg 31min 25.9sec		Felling	• Tree is present in the center of the project area. • There are more than 15 culms, not possible to excavate appropriate root ball. • Hence Recommendation for felling.
105	105	105a	Bursera	0.77	5.00	12deg 51min 29.7sec	77deg 31min 25.9sec	10.00	Felling	• Tree is in the proposed depot. • Tree has forked branches, more than 50 percent of the branches are fallen and dried. Hence, tree does not fit for transplantation/translocation.
		105b		0.78	5.00			10.00		

106	106		Sandal	0.17	5.00	12deg 51min 29.6sec	77deg 31min 26.0sec	4.00	Transplantation	• Tree is located within the project area. • Tree is very nearer to Tree no. 127. • Care should be taken while transplanting with suitable host.
107	107		Hebbevu	0.59	8.50	12deg 51min 29.8sec	77deg 31min 25.5sec	8.00	Transplantation	• Tree is present in the center of the project area. • Tree is young and having straight bole and this tree is nearer to tree no. 125 at a distance of less than 1.5 meter. Hence ,possible measures to be taken excavating appropriate root ball for transplantation/translocation.
108	108		Tapala	2.20	9.00	12deg 51min 29.8sec	77deg 31min 25.4sec	15.00	Felling	• Tree is present in the center of the project area. • Tree is silviculturally matured, one of the branch is chopped, dried and decayed. • The main trunk is canker faces and knots. • The conditions has mentioned above do not qualify the tree for transplantation/translocation.
109	109	109a	Shivane	0.28	5.00	12deg 51min 29.9sec	77deg 31min 25.4sec	2.00	Felling	• Tree is present in the center of the project area. • Tree has multiple (8) branches, one branch was already felled. • Tree is mechanically damaged; two branches were already dried. • Based on the above characters, this tree does not fit for transplantation/translocation.
		109b		0.40	5.00			2.00		
		109c		0.40	5.00			2.00		

110	110	110a	kumkuma	0.18	3.00	12deg 51min 30.1sec	77deg 31min 25.6sec	2.00	Felling	• Tree is present in the center of the project. • Tree has multiple branches; Three branches are already dried. • Based on the above characters, this tree does not fit for transplantation/translocation.
		110b		0.20	3.00			2.00		
		110c		0.15	3.00			2.00		
		110d		0.10	3.00			2.00		
		110e		0.10	3.00			2.00		
111	111		Nerle	0.28	4.00	12deg 51min 30.1sec	77deg 31min 25.1sec	3.00	Transplantation	• Tree is present in the center of the proposed depot. • It is young tree, no Visual significant symptoms. • Tree is nearer to tree No.105,hence,appropriate care should be taken while excavation root ball.
112	112		Shivane	0.29	4.00	12deg 51min 29.9sec	77deg 31min 25.0sec	3.00	Transplantation	• Tree is present in the proposed project area. • Young tree, having Minor defects like fissure on the stem,however,tree is able to rejuvenate after transplantation.hence,this tree is Recommendation for transplantation.
113	113		Nerale	0.41	4.00	12deg 51min 30.2sec	77deg 31min 25.0sec	4.00	Transplantation	• The tree is present in the center of the proposed Depot. • It is young tree, no visual significant symptoms. • Tree is nearer to tree NO.104, hence, appropriate care should be taken while excavation root ball.
114	114		Jungle tree	0.55	5.00	12deg 51min 29.8sec	77deg 31min 25.2sec	3.00	Felling	• Tree is located in the proposed project area. • Tree has forked branches from 2 feet from the ground level. One branch of the tree is already fallen and dried and also mechanically damaged. • Hence, based on the above characters, this tree is not suitable for transplantation.
115	115		Thare	1.24	10.00	12deg 51min 30.1sec	77deg 31min 24.7sec	15.00	Transplantation	• Tree is located in the proposed depot and it is near to tree no. 124. • Tree is having straight bole with minor defects. • Possible care should be taken while excavating appropriate root ball, since tree is nearer to Tree No. 124.

116	116		Thare	1.10	10.00	12deg 51min 30.0sec	77deg 31min 24.6sec	10.00	Transplantation	• Tree is with minor defects and present in the centre of the project area (proposed for depot.) • Tree is having clear bole, on major branch was already pruned. • This tree located near tree No.124 hence, care should be taken while excavating appropriate root ball
117	117		Subabul	0.94	8.00	12deg 51min 30.1sec	77deg 31min 24.0sec	8.00	Felling	• Tree is present in the center of the project area (proposed for depot). • This tree is near tree No.108, having multiple branches (3) from the base. • Hence, Recommendation for felling.
118	118		Bidiru	200 Culms(4 Clumps)		12deg 51min 30.1sec	77deg 31min 23.9sec		Felling	• Tree is present in the center of the project area (proposed for depot). • The tree has 8 culmps, not possible to excavate root ball. • The conditions mentioned above do not qualify the tree for transplantation/translocation.
119	119		Tapsi	0.45	5.00	12deg 51min 30.2sec	77deg 31min 23.3sec	5.00	Felling	• Tree is present in the center of the project area (proposed for depot). • Tree is mechanically damaged, partially uprooted due to mechanical injured and tree bent towards the ground.
120	120	120a	Tapsi	0.40	6.00	12deg 51min 30.0sec	77deg 31min 23.3sec	2.00	Felling	• Tree is proposed project area • Tree is having multiple branches, mechanically damaged. • Because of multiple branches, appropriate root ball cannot be excavated. • Hence, this tree is unfit for transplantation.
		120b		0.20	6.00			2.00		
		120c		0.15	6.00			2.00		
		120d		0.15	6.00			2.00		
121	121		Kumkuma	0.21	4.50	12deg 51min 30.0sec	77deg 31min 23.3sec	3.00	Transplantation	• Tree is located in the proposed project area and situated near tree No. 120 (less than 1 meter). • Young trees care should be taken during root ball excavation.

122	122	Shivane	0.24	3.00	12deg 51min 30.3sec	77deg 31min 23.1sec	3.00	Transplantation	• Tree is with minor defects and present in the project area (proposed for depot.) • Young and small tree having 3 branches from the base, one branch is bent towards the ground. • This tree is Recommendation for transplantation by pruning one branch which is bent towards the ground.
123	123	Hebbevu	0.69	10.00	12deg 51min 30.3sec	77deg 31min 23.0sec	8.00	Transplantation	• Tree is with minor defects and present in the project area (proposed for depot.) • Tree is young, no visual significant symptoms, clear straight bole and it is near tree No. 111. • Hence, proper care should be taken during the transplantation/translocation process involving excavation of root ball, Recommendation for transplantation/translocation.
124	124	Tapala	0.65	10.30	12deg 51min 30.3sec	77deg 31min 23.0sec	15.00	Felling	• Tree is with minor defects and present in the project area (proposed for depot.) • Tree is silviculturally matured, two major branches for already fallen and one major branch was dried. • There are canker faces and fissures at the base. • The conditions as mentioned above disqualify the tree for transplantation /translocation.

125	125	125a	Seemethangadi	0.65	7.50	12deg 51min 30.2sec	77deg 31min 22.9sec	6.00	Felling	• This tree is near tree no.111 and at a distance of less than 1 meter from tree No.111. • Tree has multiple (6) branches, one branch was dried. • Hence ,Recommendation for felling.
		125b		0.30	7.50			3.00		
		125c		0.20	7.50			8.00		
		125d		0.20	7.50			8.00		
126	126		Hebbevu	0.52	8.00	12deg 51min 30.2sec	77deg 31min 22.8sec	6.00	Transplantation	• Tree present in the center of the project area (proposed for depot.) • Young seedling, with clear bole and visual significant symptoms and it is near tree no 114 at a distance of less than 1 meter. • Hence, proper care should be taken during the transplantation/translocation process involving excavation of root ball.
127	127		Thorematti	0.27	4.50	12deg 51min 30.3sec	77deg 31min 22.8sec	4.00	Transplantation	• Tree present in the centre of the project area (proposed for depot.) • Young seedling, with clear bole and visual significant symptoms and it is near tree no 113 at a distance of less than 1 meter. • Hence, proper care should be taken during the transplantation/translocation process involving excavation of root ball.
128	128		kumkuma	0.16	3.50	12deg 51min 30.3sec	77deg 31min 22.8sec	3.00	Transplantation	• Tree present in the center of the project area (proposed for depot.) • Young seedling, and it is near to tree No.129.hence, care should be taken while excavating root ball for transplantation.
129	129		kumkuma	0.21	3.50	12deg 51min 30.4sec	77deg 31min 22.8sec	3.00	Transplantation	• Tree present in the center of the project area. • Young seedling, and it is near to tree No.128.hence, care should be taken while excavating root ball for transplantation.

130	130	Nerale	0.26	4.00	12deg 51min 30.1sec	77deg 31min 22.7sec	3.00	Transplantation	• Tree is present in the center of the project area (proposed for depot.) • Young seedling hence, care should be taken while excavation root ball for transplantation .

Summary:

Total Number of Trees assessed for on-site retention	7
Total Number of Trees assessed as suitable for translocation	36
Total Number of Trees assessed for felling	87

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

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

Present Location - U M KAVAL , Anjanapura depot.

Annexure - 6

Proposed Location - Devika Rani Estate , Kanakapura road.

Map 1 showing Coordinates (Attached)

Extent : 0.71 Ha

Sl no	Tree Number	Branch	Species	Girth (mts)	Present location of trees (UM KAVAL)		Proposed Translocation area with boundary coordinates	Proposed receptor site coordinates for tree translocation (Devika rani estate)	
					Lattitude (N)	Longitude (E)		Lattitude (N)	Longitude(E)
1	18		Echalu	1 47	12° 51' 27 2"	77° 31' 32 2"		12° 50' 24 60"	77° 31' 03 15"
2	31		Echalu	0 85	12° 51' 27 3"	77° 31' 31 7"		12° 50' 25 22"	77° 31' 02 59"
3	38		Mutthuga	0 80	12° 51' 27 8"	77° 31' 31 4"		12° 50' 25 49"	77° 31' 02 51"
4	50		Echalu	0 90	12° 51' 27 9"	77° 31' 31 1"		12° 50' 25 22"	77° 31' 03 41"
5	66		Thare	1 51	12° 51' 27 2"	77° 31' 30 3"		12° 50' 24 87"	77° 31' 03 72"
6	67	67a	Honne	0 56	12° 51' 28 5"	77° 31' 29 7"		12° 50' 24 90"	77° 31' 04 26"
		67b	Honne	0 28					
7	69		Tapasi	0 14	12°51' 28 8"	77° 31' 29 1"		12° 50' 25 27"	77° 31' 04 29"
8	71		Achalu	0 53	12° 51' 29 0"	77° 31' 28 9"		12° 50' 24 96"	77° 31' 06 02"
9	83		Baare	0 27	12°51' 29 4"	77° 31' 27 7"		12° 50' 25 16"	77° 31' 08 64"
10	84		Baare	0 36	12° 51' 29 3"	77° 31' 27 6"		12° 50' 25 05"	77° 31' 08 97"
11	85		Kaggali	0 31	12° 51' 29 3"	77° 31' 27 5"		12° 50' 24 80"	77° 31' 08 90"
12	86		kumkuma	0 33	12° 51' 29 6"	77° 31' 27 4"		12° 50' 25 35"	77° 31' 09 52"
13	90		Hebbevu	0 41	12° 51' 30 0 "	77° 31' 27 1"		12° 50' 25 71"	77° 31' 08 26"
14	91		Thare	1 60	12° 51' 29 8"	77° 31' 26 8"		12° 50' 24 91"	77° 31' 07 62"
15	92	92a	Bage	0 73	12° 51' 29 6"	77° 31' 26 7"	Devika rani estate Point (A) 12° 50' 26 11" N 77° 31' 02 29" E Point (B) 12° 50' 25 88" N 77° 31' 10 85" E Point (C) 12° 50' 19 83" N 77° 31' 05 91" E Point (D) 12° 50' 19 38" N 77° 31' 01 16" E	12° 50' 24 26"	77° 31' 08 12"
		92b	Bage	0 64					
16	93		Shivane	0 33	12° 51' 29 8"	77° 31' 27 1"		12° 50' 24 00"	77° 31' 08 50"
17	95		Kamara	0 31	12° 51' 30 0"	77° 31' 26 4"		12° 50' 23 92"	77° 31' 07 46"
18	97		Gobbara gida	0 15	12° 51' 29 9"	77° 31' 26 3"		12° 50'22 74"	77° 31' 04 54"
19	99		Sandal wood	0 27	12° 51' 29 7"	77° 31' 26 1"		12° 50' 22 84"	77° 31' 04 29"
20	100		Hebbevu	0 38	12° 51' 29 7"	77° 31' 26 1"		12° 50' 22 49"	77° 31' 04 29"
21	103		Bilwara	0 69	12° 51' 30 2"	77° 31' 25 9"		12° 50' 22 35"	77° 31' 04 01"
22	106		Sandal	0 17	12° 51' 29 6"	77° 31' 26 0"		12° 50' 21 92"	77° 31' 03 80"
23	107		Hebbevu	0 59	12° 51' 29 8"	77° 31' 25 5"		12° 50' 21 58"	77° 31' 04 18"
24	111		Nerle	0 28	12° 51' 30 1"	77° 31' 25 1"		12° 50' 20 83"	77° 31' 04 29"
25	112		Shivane	0 29	12° 51' 29 9"	77° 31' 25 0"		12° 50' 19 64"	77° 31' 02 77°"
26	113		Nerale	0 41	12° 51' 30 2"	77° 31' 25 0"		12° 50' 20 05"	77° 31' 02 22"
27	115		Thare	1 24	12° 51' 30 1"	77° 31' 24 7"		12° 50' 20 25"	77° 31' 02 74"
28	116		Thare	1 10	12° 51' 30 0"	77° 31' 24 6"		12° 50' 20 64"	77° 31' 02 82"
29	121		kumkum	0 21	12° 51' 30 0"	77° 31' 23 3"		12° 50' 20 85"	77° 31' 02 48"
30	122		Shivane	0 24	12° 51' 30 3"	77° 31' 23 3"		12° 50' 21 26"	77° 31 ' 02 44"
31	123		Hebbevu	0 69	12° 51' 30 3"	77° 31' 23 0"		12° 50' 21 16	77° 31' 01 84"
32	126		Hebbevu	0 52	12° 51' 30 2"	77° 31' 22 8"		12° 50 21 78"	77° 31' 02 43"
33	127		Thorematti	0 27	12° 51' 30 3"	77° 31' 22 8"		12° 50' 21 58"	77° 31' 02 97"
34	128		kumkum	0 16	12° 51' 30 3"	77° 31' 22 8"		12° 50' 22 14"	77° 31' 02 28"
35	129		kumkum	0 21	12° 51' 30 4"	77° 31' 22 8"		12° 50' 22 49"	77° 31' 02 17"
36	130		Nerale	0 26	12° 51' 30 1"	77° 31' 22 7"		12° 50' 22 35"	77° 31' 02 99"