



BRUHAT BENGALURU MAHANAGARA PALIKE

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

No: DCF/PR-1913/2022-23

Date: 04.03.2023

OFFICIAL MEMORANDUM

Sub: Permission regarding translocation and removal of trees which are standing at the Campus of ARDC, HAL for the Project of “**Building for Facility Establishment for LCA MWF MK2 Hangars**” Bengaluru – reg

- Ref: a. AGM (Maint.) ARDC, HAL Application No. D/AGM (Maint)/Tree/086/2022 dtd 05.09.2022
b. Member Secretary, TEC and ACF Letter No. ACF-South/PR.87/2022-23 dtd 03.03.2023 along with Report and Proceedings of Tree Expert Committee

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Preamble:

The Additional General Manager (Maint.), Aircraft Research & Design Centre (ARDC), Hindustan Aeronautics Limited (HAL), Bengaluru vide their letter cited under reference (a) above, has sought permission for clearance of 52 number of trees which are standing at the Campus of Aircraft Research & Design Centre (ARDC), HAL for the Project of Building for Facility Establishment for LCA MWF MK2 Hangars.

As such Public Notice dated 16.09.2022 was issued by the Tree Officer & DCF, BBMP as per Section 8 (3) of the Karnataka Preservation of Trees Act 1976 (as amended in 2015) with the intention to invite objections/remarks from public.

In response to the public notice, 09 objections/suggestions have been received from public within the stipulated dates. The Tree Officer has stated that the objection is with regard to felling of trees since one objector has expressed that HAL is one such area with green cover and axing of trees may be avoided to the highest degree. The trees at the HAL Campus are indigenous in nature and axing of those trees would further deteriorate the air quality and may cause health hazards to people. Some objectors have expressed concerns towards the environment and stated that Bengaluru is facing havoc due to climate change as the air we breathe and this planet itself is reeling with the effects of climate change. They further state that trees are our gifts from nature that help to keep us alive and healthy besides the trees are also living specimens and are not meant to be

cut down every time humans wish to build yet another heat emanating lifeless concrete structure in their place. Few of the objectors have suggested to think of alternatives or alternate space to be identified for the constructions of hangars and with such massive advancement of technology, an alternative to cutting trees can be found besides planting double number of trees elsewhere to compensate. Lastly, the objectors have suggested to shift the factory outside the Bangalore to the ADE Flight Test Range and also take permission from NGT, Environment Activist, Hon'ble High Court of Karnataka, Environment Ministry of India. Regarding the technical matters related to the objections, the matter was communicated to the HAL, ARDC Authorities and they have responded saying that HAL, ARDC is a Defence PSU and is strictly bound by the stipulations of prevailing laws. Further they have informed that in view of the greater national interest of country's defence needs and paucity in availability of land and other resources, it is extremely imperative for carrying out the said activity near to the existing set up and other resources and thus have made the situation inevitable. The proposed cutting down of trees is an exigency owing to the greater national interest. Further HAL, ARDC is consistently making efforts to improve the green cover by undertaking mass plantation drives. The HAL, ARDC is an ISO (ISO 14001:2015-EMS) certified firm and is consistently making efforts in fulfilling the objectives as per Environmental Management System.

Further, the Tree Officer, BBMP also emphasized that the first priority of the Forest authorities will be to save and retain more number of trees at the spot and in case that is not possible, the next option would be translocation of trees which fulfil the required criteria and felling of trees has to be the last resort. The Compensatory Afforestation would involve planting of saplings in the ratio 1:10 i.e., 10 saplings to be planted in lieu of each tree translocated/felled.

In this context, the Field Forest Officers conducted the spot inspections on 02.11.2022, the ACF/DCF, BBMP visited the areas on 15.11.2022, and then TEC visited the areas and conducted field Inspections on 09.12.2022, duly examining all the trees besides having discussions with the Project Engineers.

The Field Inspection Report was tabled during the TEC meeting held on 13.01.2022 and detailed discussions were held.

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

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

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

ORDER

Under the circumstances explained above and in exercise of the powers vested with the undersigned as per Section 8 (3) of Karnataka Preservation of Trees Act, 1976 and based on the guidelines and decisions taken as per the Field Inspection Report and Proceedings of the Meeting dated 13.01.2022 of the TEC for retention-on-site, translocation, and removal of trees which fall in the project area at the Campus of ARDC, HAL, the below mentioned schedule is approved subject to the conditions mentioned thereon. This Order will come into effect after fifteen (15) days from the date of uploading of the order on the Official website of BBMP and for that purpose separate directions will be issued from this Office.

SCHEDULE

1. The Forty Six (46) trees which are listed in Annexure A appended to this Official Memorandum have to be retained-on-site. Hence, permission is declined to remove the said 46 trees and they should continue to stand at their present locations.
2. Based on the considerations as stated above and also detailed in the Report, the Twenty Seven (27) trees which are listed with justification, enclosed to this Official Memorandum as Annexure B have to be translocated. Hence permission is accorded to translocate the said 27 trees to suitable places as mentioned below in the 'Conditions'.
3. The remaining Twenty Five (25) trees only which are listed with justification, enclosed to this Official Memorandum as Annexure C can be removed. Hence permission is accorded for removal of these said 25 trees only as per the felling of trees norms adopted by Karnataka Forest Department (KFD).

Conditions

1. No damage should be caused to the trees which are retained on the spot, while carrying out the civil works or any project related works.
2. The trees which are retained-on-site have to be properly protected and maintained. Accordingly ARDC, HAL should give an assurance in this respect.

3. The translocation of trees should be done at suitable vacant spaces at the following areas in collaboration with the DCF, BBMP.

Vacant land available within the same campus of the ARDC, HAL, Bengaluru near the proposed construction zone of Building for Facility Establishment for LCA MWF MK2 Hangars

4. The Persons/Agencies who are entrusted with translocation works should have sufficient knowledge and experience in such works.
5. The work of translocation of trees has to be executed under close supervision of Officials/Officers of Forest Wing of BBMP and according to the formulated guidelines of UAS, Bengaluru.
6. The trees so translocated have to be properly maintained and taken care of, for a minimum period of three years.
7. The entire process of translocation of trees has to be properly documented and records compiled in a systematic manner.
8. In lieu of the trees translocated and felled, 10 healthy and heighted saplings have to be planted in lieu of each tree either translocated or felled. The saplings have to be planted as per forestry practices and maintained for a minimum period of three years. Photographs and proper documentation has to be there for saplings/seedlings planted.
9. Regular monitoring must be done to ensure the conducive growth of translocated trees and planted saplings/seedlings.
10. The Compensatory Afforestation plan as per KFD Afforestation norms has to be submitted within 15 days from the date of issue of this OM.


Tree Officer and
Deputy Conservator of Forests
Bruhat Bengaluru Mahanagara Palike,
Bengaluru

Copy to:

1. The AGM (Maint.), ARDC, HAL, Bengaluru
2. The Chairman, Tree Authority and Chief Conservator of Forests, Bangalore Circle, Bangalore for kind information
3. The Member Secretary – Tree Expert Committee, and the Assistant Conservator of Forests, BBMP for information and further action.
4. The Assistant Conservator of Forests, BBMP for information and further action
5. The Range Forest Officer/Deputy Range Forest Officers for information and further action
6. Office Copy

Retention of Trees

**Project Area : Campus of ARDC, HAL, Bengaluru for project of Building for
Facility Establishment for LCA MWF MK2 Hangars**

Sl No	Tree No	Tree Name	Girth (In Mtr)	Height (In Mtr)	Justification
1.	53	Honge	0.35	1.50	<p style="text-align: center;">These trees are standing outside the project area. Hence these trees are recommended for Retention-on-site</p>
2.	54	Honge	0.40	1.50	
3.	55	Shivane	1.50	1.50	
4.	56	Tabebuia rosia	1.00	3.00	
5.	57	Tabebuia rosia	0.70	3.00	
6.	58	Tabubia rosia	2.10	3.00	
7.	59	Teak	0.60	1.50	
8.	60	Teak	0.50	2.00	
9.	61	Teak	0.55	3.00	
10.	62	Teak	0.45	4.00	
11.	63	Teak	0.50	4.00	
12.	64	Teak	0.65	3.00	
13.	65	Teak	0.55	3.00	
14.	66	Teak	0.45	3.00	
15.	67	Teak	0.50	3.00	
16.	68	Teak	0.45	3.00	
17.	69	Teak	0.60	3.00	
18.	70	Teak	0.60	3.50	
19.	71	Teak	0.50	4.00	
20.	72	Teak	0.55	3.00	
21.	73	Teak	0.70	2.00	
22.	74	Teak	0.55	4.00	
23.	75	Teak	0.50	3.00	

24.	76	Teak	0.55	3.00
25.	77	Teak	0.55	3.00
26.	78	Teak	0.65	3.00
27.	79	Silveroak	0.55	3.00
28.	80	Ashoka	0.25	1.50
29.	81	Honge	0.95	4.00
30.	82	Basvanapada	0.35	2.00
31.	83	Basvanapada	0.90	2.00
32.	84	Ashoka	0.85	2.50
33.	85	Teak	0.70	2.00
34.	86	Teak	0.50	2.50
35.	87	Teak	0.25	2.00
36.	88	Teak	0.35	3.00
37.	89	Teak	0.25	2.00
38.	90	Teak	0.20	1.50
39.	91	Teak	0.20	1.50
40.	92	Teak	0.20	1.50
41.	93	Teak	0.20	1.50
42.	94	Teak	0.20	2.00
43.	95	Basvanapada	1.10	2.50
44.	96	Nerale	1.50	3.00
45.	97	Neem	0.80	2.50
46.	98	Neem	1.00	3.00

These trees are standing outside the project area. Hence these trees are recommended for Retention-on-site

Total trees for Retention = 46 Nos.


Tree Officer &

Deputy Conservator of Forests
BBMP, Bangalore.

Transplantation of Trees

**Project Area : Campus of ARDC, HAL, Bengaluru for project of Building for
Facility Establishment for LCA MWF MK2 Hangars**

Sl No	Tree No	Tree Name	Girth (In Mtr)	Height (In Mtr)	Justification
1.	8	Teak	0.50	2.00	Tree is young and healthy. Hence this tree is recommended for Translocation.
2.	15	Teak	0.50	3.00	Tree is young and healthy. Hence this tree is recommended for Translocation.
3.	16	Teak	0.50	3.00	Tree is young and healthy. Hence this tree is recommended for Translocation.
4.	17	Teak	0.40	2.50	Tree is young and healthy. Hence this tree is recommended for Translocation
5.	18	Teak	0.35	2.00	Tree is young and healthy. Hence this tree is recommended for Translocation
6.	20	Teak	0.40	2.50	Tree is young and healthy. Hence this tree is recommended for Translocation
7.	24	Teak	0.45	2.00	Tree is young and healthy. Hence this tree is recommended for Translocation
8.	25	Teak	0.45	2.50	Tree is young and healthy. Hence this tree is recommended for Translocation
9.	26	Teak	0.40	2.50	Tree is young and healthy. Hence this tree is recommended for Translocation
10.	27	Teak	0.35	2.00	Tree is young and healthy. Hence this tree is recommended for Translocation

11.	28	Teak	0.45	3.00	Tree is young and healthy. Hence this tree is recommended for Translocation
12.	29	Teak	0.45	2.50	Tree is young and healthy. Hence this tree is recommended for Translocation
13.	30	Teak	0.45	2.50	Tree is young and healthy. Hence this tree is recommended for Translocation
14.	32	Teak	0.40	2.50	Tree is young and healthy. Hence this tree is recommended for Translocation
15.	33	Teak	0.40	2.50	Tree is young and healthy. Hence this tree is recommended for Translocation
16.	34 34a	Teak	0.25 0.20	2.00 2.00	Tree is young and healthy. Hence this tree is recommended for Translocation
17.	35	Teak	0.25	2.00	Tree is young and healthy. Hence this tree is recommended for Translocation
18.	36	Teak	0.25	2.00	Tree is young and healthy. Hence this tree is recommended for Translocation
19.	37	Teak	0.25	2.00	Tree is young and healthy. Hence this tree is recommended for Translocation
20.	38	Teak	0.25	2.00	Tree is young and healthy. Hence this tree is recommended for Translocation
21.	39	Teak	0.20	2.00	Tree is young and healthy. Hence this tree is recommended for Translocation
22.	41	Teak	0.30	2.00	Tree is young and healthy. Hence this tree is recommended for Translocation
23.	42	Teak	0.25	2.00	Tree is young and healthy. Hence this tree is recommended for Translocation

24.	43	Teak	0.25	2.00	Tree is young and healthy. Hence this tree is recommended for Translocation
25.	47	Mahogany	0.90	4.00	Tree is young and healthy. Hence this tree is recommended for Translocation
26.	51	Teak	0.35	2.00	Tree is young and healthy. Hence this tree is recommended for Translocation
27.	52	Teak	0.20	2.00	Tree is young and healthy. Hence this tree is recommended for Translocation

Total trees for Translocation = 27 Nos.


Tree Officer &

Deputy Conservator of Forests
BBMP, Bangalore.


Felling of Trees

Project Area : Campus of ARDC, HAL, Bengaluru for project of Building for Facility Establishment for LCA MWF MK2 Hangars

Sl No	Tree No	Tree Name	Girth (In Mtr)	Height (In Mtr)	Justification
1.	1	Basavanapada	0.85	2.00	Tree is coming within the proposed project site and bended. Hence this tree is recommended for Felling.
2.	2	Ashoka	0.60	2.00	Tree is exotic with deep root system, not possible for transplantation . Hence this tree is recommended for Felling.
3.	3	Basavanapaada	0.80	2.00	Tree is coming within the proposed project site and bended. Hence this tree is recommended for Felling.
4.	4	Ashoka	0.60	4.00	Tree is exotic with deep root system, not possible for transplantation. Hence this tree is recommended for Felling.
5.	5 5a 5b	Basavanapaada	0.80 0.60 0.30	2.00 2.00 2.00	Tree is forked and not healthy. Hence this tree is recommended for Felling.
6.	6 6a 6b	Basavanapaada	0.80 0.40 0.35	2.00 2.00 2.00	Tree is forked and not healthy. Hence this tree is recommended for Felling.
7.	7	Teak	0.35	2.00	Tree already dried. Hence this tree is recommended for Felling.
8.	9	Teak	0.85	2.00	Tree is bended, not possible for transplantation. Hence this tree is recommended for Felling.

9.	10	Teak	0.85	3.50	Tree is forked and not healthy. Hence this tree is recommended for Felling.
10.	11	Teak	0.60	3.50	Tree is bended and forked. Hence this tree is recommended for Felling.
11.	12	Teak	0.70	3.00	Tree bark is damaged and not healthy. Hence this tree is recommended for Felling.
12.	13	Teak	0.60	3.00	Tree is forked and not healthy. Hence this tree is recommended for Felling.
13.	14	Rain Tree	2.90	3.50	Tree is matured and not possible for transplantation. Hence this tree is recommended for Felling.
14.	19	Teak	0.25	2.00	Tree is young and forked. Hence this tree is recommended for Felling.
15.	21 21a	Neem	0.80 0.70	2.00 2.00	Tree is forked and not healthy. Hence this tree is recommended for Felling.
16.	22	Teak	0.50	2.00	Tree is young and forked from the ground. Hence this tree is recommended for felling.
17.	23 23a	Teak	0.35 0.30	2.00 2.00	Tree is young and forked from the ground. Hence this tree is recommended for Felling.
18.	31 31a	Teak	0.30 0.25	2.00 2.00	Tree is young and forked from the ground. Hence this tree is recommended for Felling.
19.	40	Teak	0.25	2.00	Tree is forked and bark damaged. Hence this tree is recommended for Felling.
20.	44	Tabebuia rosea	2.00	2.00	Tree is matured, root ball not possible. Hence this tree is

					recommended for Felling.
21.	45 45a	Tabebuia rosea	0.60 0.40	2.00 2.00	Tree is forked, root ball not possible. Hence this tree is recommended for Felling.
22.	46	Tabebuia rosea	2.50	2.00	Tree is matured and root ball not possible. Hence this tree is recommended for Felling.
23.	48 48a	Tabebuia rosea	0.90 0.45	2.00 2.00	Tree is forked and not possible for transplantation. Hence this tree is recommended for Felling.
24.	49	Mahogany	1.25	3.00	Tree is matured and root ball is not possible. Hence this tree is recommended for Felling.
25.	50 50a	Teak	0.20 0.20	2.00 2.00	Tree is forked and root ball is not possible. Hence this tree is recommended for Felling.
Total trees for Felling = 25 Nos.					


 Tree Officer &
 Deputy Conservator of Forests,
 BBMP, Bangalore.

