

# **Green-Auditing of Trees in the Campus of Rajiv Gandhi University, Arunachal Pradesh**

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## **INTRODUCTION**

Importance of plants in human life need no not reiterate. Plants provide everything for our survival. All three basic needs for survival, Oxygen, Water and Food we get from plants. At the same time, for the creation of most suitable habitat or even the best ambience we need plants.

Rajiv Gandhi University is situated on the top of Rono Hills in the Papum Pare district of Arunachal Pradesh. Earlier the entire area was free from human settlements and was covered with natural vegetation. For the establishment of a University, the natural vegetation was removed, land structure modified, houses, roads and open grounds were created. During this exercise, evidently, most of the local trees, shrubs and woody-climbers were removed. Only some local herbs are trying to survive.

However, during this development and mostly for beautification plantation programs were also taken in different times, especially along the road sides (avenue plantation) and surrounding the different buildings. Man generally introduces plants those are, in some way or other, beneficial for themselves. So, it is expected that, mostly useful plants are introduced and some of those are with visible economic and/or commercial values.

Keeping these in mind, the authority of Rajiv Gandhi University decided to take a stock of its green-wealth. This is for the first time, and it is expected, this will serve as the base-line data, for similar future assessments.

## **METHODOLOGY**

The survey for the trees in the campus of Rajiv Gandhi University, Rono Hills, Arunachal Pradesh was conducted during December 2019 to February 2020 to know their presence and distribution. All the plants growing inside the developed campus with Girth at Breast Height (GBH) over 20 cm were spotted, identified and measured for the GBH. For this purpose, entire developed part of the campus was loosely divided into 26 sectors/ areas:

- 1. A-Sector Area**
- 2. VC's Bungalow compound**
- 3. Outside Area of VC's Bungalow**
- 4. AITS Area**
- 5. Security Office Area**
- 6. Subansiri Hostel**
- 7. NSS Park**
- 8. RGU Market and Canteen Area**
- 9. Coffee Corner Area**
- 10. Administrative Campus Road- side Car Park**

11. Administrative Campus [except Car-park area near bank]
12. Administrative Campus Car-park Area
13. Residential Area behind the Administrative Campus
14. Main Auditorium to library
15. D-Sector area
16. Behind Main Auditorium and Teachers' activity Centre – Geography
17. Women's Technology Park
18. Main Gate area
19. Girls' Hostel Campus
20. Siang Hostel Campus
21. Library to Social Science Building
22. Life Science Building Area
23. RS Boys Hostel Area
24. Boys' Hostel area
25. Bus Terminus Area
26. New RS Hostel – F-Sector Quarters

Areas covered with natural forest behind the E & F sector areas and the Botanical Garden (also a natural tract of vegetation) were not covered for this assessment.

All the recorded 116 species of trees were recognised scientifically and presented here with their scientific names and with their numerical distribution pattern and girth. Recorded girths of different individuals of each species were grouped in to a number of 'Girth-Classes' for the convenience of understanding their present status. Here it is presumed that a tree with over 150 cm girth is a matured tree and all are grouped under 'Above 150' cm girth class.

## SECTOR-WISE OBSERVATION:

Data collected and classified from all the 26 sectors are provided below in Tables 1 – 26.

**Table - 1. A-Sector Area [girth in cm]**

Tree species	Basic data		Girth classes				
	Total No.	Total girth	20 – 50	51 – 80	81 – 110	111 – 150	Over 150
<i>Acacia auriculoformis</i>	1	123				1	
<i>Aglaia sp.</i>	1	77		1			

<i>Ailanthus grandis</i>	4	607				2	2
<i>Albizia lucidior</i>	6	692			4	2	
<i>Albizia sinensis</i>	15	1856			2	6	7
<i>Altingia excelsa</i>	3	332		1	1	1	
<i>Araucaria cookei</i>	1	67		1			
<i>Areca catechu</i>	2	79	2				
<i>Artocarpus heterophyllus</i>	4	305					
<i>Artocarpus chama</i>	2	193		1	1		
<i>Bombax ceiba</i>	3	455				1	2
<i>Callicarpa macrophylla</i>	3	554					3
<i>Citrus grandis</i>	2	122	1	1			
<i>Crypteronia paniculata</i>	1	36	1				
<i>Dalbergia sp. (tree)</i>	3	437				1	3
<i>Delonix regia</i>	2	331					2
<i>Ehretia acuminata</i>	2	59	2				
<i>Elaeocarpus sphaericus</i>	3	371					2
<i>Erythrina stricta</i>	2	80	2				
<i>Ficus elastica</i>	1	630					1
<i>Ficus fulva</i>	1	53		1			
<i>Ficus rumphii</i>	3	580				2	1
<i>Ficus sp.</i>	6	406		3	1	2	
<i>Garcinia pedunculata</i>	1	32	1				
<i>Lagerstroemia speciosa</i>	1	289					1
<i>Leucaena leucocephala</i>	1	55		1			
<i>Litsea polyantha</i>	3	276			2	1	
<i>Macaranga denticulata</i>	2	133		2			
<i>Mangifera indica</i>	6	498	1	2	2	1	
<i>Melia azadirac</i>	4	208		2	2		
<i>Mesua ferrea</i>	23	1514	6	12	5		
<i>Moringa oleifera</i>	2	160		1	1		
<i>Nyctanthes arbor-tristis</i>	2	157		1	1		

<i>Phyllanthus embelica</i>	2	146		1	1		
<i>Pongamia pinnata</i>	9	597	2	1	9		
<i>Psidium guajava</i>	5	171	3	2			
<i>Rhus chinensis</i>	2	96	1	1			
<i>Schima wallichii</i>	1	161					1
<i>Spondias pinata</i>	1	39	1				
<i>Syzygium cumini</i>	3	246		1	2		
<i>Ziziphus jujuba</i>	3	317			3		
	<b>142</b>	<b>13540</b>					

**Table – 2. VC's Bungalow compound [girth in cm]**

Tree species	Basic data		Girth classes				
	Total No.	Total girth	20 – 50	51 – 80	81 – 110	111 – 150	Over 150
<i>Albizia saman</i>	1	302					1
<i>Alstonia scholaris</i>	2	342					2
<i>Artocarpus heterophylla</i>	5	244	1	3	1		
<i>Callicarpa macrophylla</i>	1	174					1
<i>Casuarina equisetifolia</i>	1	84			1		
<i>Cinnamomum tamala</i>	1	125				1	
<i>Citrus grandis</i>	1	68		1			
<i>Cocos nucifera</i>	1	80		1			
<i>Dalbergia sisoo</i>	1	114				1	
<i>Delonix regia</i>	1	88			1		
<i>Elaeocarpus sphaericus</i>	1	175					1
<i>Grevillea robusta</i>	7	662			4	3	
<i>Leucaena leucocephala</i>	1	109				1	
<i>Mangifera indica</i>	4	353		2	1	1	
<i>Mesua ferrea</i>	15	968		8	7		
<i>Murraya paniculata</i>	1	49	1				
<i>Pongamia pinnata</i>	1	33	1				

<i>Psidium guajava</i>	2	134		2			
<i>Schima wallichii</i>	1	274					1
<i>Stereospermum chelonoides</i>	1	139					1
<i>Synzygium cumini</i>	2	146	1		1		
<i>Thuja orientalis</i>	1	27	1				
<b>TOTAL:</b>	<b>52</b>	<b>4690</b>					

**Table - 3. Outside Area of VC's Bungalow [girth in cm]**

Tree species	Basic data		Girth classes				
	Total No.	Total girth	20 – 50	51 – 80	81 – 110	111 – 150	Over 150
<i>Albizia sinensis</i>	2	55	2				
<i>Araucaria cookei</i>	1	63		1			
<i>Artocarpus heterophylla</i>	1	180					1
<i>Averrhoa carambola</i>	1	119				1	
<i>Bombax ceiba</i>	2	207				2	
<i>Callistemon citrinus</i>	1	60		1			
<i>Cassia fistula</i>	2	447					2
<i>Ehretia acuminata</i>	3	366			1	2	
<i>Ficus sp.-3</i>	1	391					1
<i>Gravaelia robusta</i>	1	104					1
<i>Litchi sinensis</i>	1	121				1	
<i>Mangifera indica</i>	7	402			3	4	
<i>Mesua ferrea</i>	9	309	8	1			
<i>Murraya paniculata</i>	4	144	4				
<i>Nyctanthes arbor-tristis</i>	1	83			1		
<i>Phyllanthus embelica</i>	2	156		1	1		
<i>Pongamia pinnata</i>	2	356				1	1
<i>Prunus persica</i>	1	31	1				
<i>Psidium guajava</i>	6	252	5	1			
<i>Saribus rotundifolius</i>	1	21	1				
<i>Stereospermum chelonoides</i>	3	452					3

<i>Terminalia arjuna</i>	1	128				1	
<b>TOTAL:</b>	<b>53</b>	<b>4447</b>					

**Table - 4. AITS Area [girth in cm]**

Tree species	Basic data		Girth classes				
	Total No.	Total girth	20 – 50	51 – 80	81 – 110	111 – 150	Over 150
<i>Artocarpus heterophyllus</i>	1	86			1		
<i>Callistemon citrinus</i>	1	89			1		
<i>Delonix regia</i>	1	265					1
<i>Mangifera indica</i>	1	65		1			
<i>Melia azadirac</i>	1	55		1			
<i>Mesua ferrea</i>	12	866	4	8			
<i>Nyctanthes arbor-tristis</i>	1	141				1	
<i>Phyllanthus embelica</i>	1	149				1	
<i>Synzygium cumini</i>	1	64		1			
<i>Ziziphus jujuba</i>	1	228					1
<b>TOTAL:</b>	<b>21</b>	<b>2008</b>					

**Table - 5. Security Office Area [girth in cm]**

Tree species	Basic data		Girth classes				
	Total No.	Total girth	20 – 50	51 – 80	81 – 110	111 – 150	Over 150
<i>Acacia auricularia</i>	8	1141				3	5
<i>Ficus sp.- 2</i>	1	68		1			
<i>Macaranga denticulata</i>	3	274		2	1		
<i>Melia azadirac</i>	1	55		1			
<i>Neolamarckia cadamba</i>	1	278					1
<i>Putranjiva roxburghii</i>	2	226			1	1	
<i>Synzygium cumini</i>	1	108				1	
<b>TOTAL:</b>	<b>17</b>	<b>2150</b>					

**Table - 6. Subansiri Hostel [girth in cm]**

Tree species	Basic data		Girth classes				
	Total No.	Total girth	20 – 50	51 – 80	81 – 110	111 – 150	Over 150
<i>Acacia auricularia</i>	2	453					2
<i>Actinodaphne obvatata</i>	1	52		1			
<i>Ailanthus grandis</i>	3	411				2	1
<i>Alstonia scholaris</i>	2	297				2	
<i>Altingia excelsa</i>	2	287			1	1	
<i>Artocarpus heterophylla</i>	2	163		1	1		
<i>Bauhinia variegata</i>	12	1041		2	10		
<i>Delonix regia</i>	1	241					1
<i>Ehretia acuminata</i>	1	149					1
<i>Elaeocarpus sphaericus</i>	2	367					2
<i>Ficus religiosa</i>	1	292					1
<i>Gravaelia robusta</i>	1	179					1
<i>Jacaranda mimosifolia</i>	1	258					1
<i>Lagerstroemia speciosa</i>	4	372			4		
<i>Mangifera indica</i>	1	189					1
<i>Melia azadirac</i>	7	393	2	5			
<i>Mesua ferrea</i>	13	1127		5	8		
<i>Morus macroura</i>	7	765			3	4	
<i>Neolamarckia cadamba</i>	2	468					2
<i>Phyllanthus embelica</i>	1	76		1			
<i>Polyalthia longifolia</i>	1	40	1				
<i>Pongamia pinnata</i>	11	615	2	3	6		
<i>Terminalia arjuna</i>	2	167		1	1		
<i>Vernicia fordii</i>	13	1339			3	10	
<i>Ziziphus jujuba</i>	1	107			1		
<b>TOTAL:</b>	<b>94</b>	<b>9848</b>					



Table - 7. NSS Park [girth in cm]

Tree species	Basic data		Girth classes				
	Total No.	Total girth	20 – 50	51 – 80	81 – 110	111 – 150	Over 150
<i>Acacia auriculiformis</i>	26	2965			10	16	
<i>Ailanthus grandis</i>	6	1115					6
<i>Albizia sinensis</i>	1	212					1
<i>Artocarpus heterophylla</i>	1	112				1	
<i>Bombax ceiba</i>	1	50	1				
<i>Callicarpa macrophylla</i>	3	543				1	2
<i>Callistemon citrinus</i>	4	220	1	3			
<i>Cassia fistula</i>	3	307		1	2		
<i>Cassia sp.</i>	1	56		1			
<i>Dalbergia (liana)</i>	2	162		1	1		
<i>Delonix regia</i>	2	334				1	1
<i>Ehretia acuminata</i>	13	828		5	8		
<i>Elaeocarpus sphaericus</i>	4	835					4
<i>Erythrina stricta</i>	2	347					2
<i>Gmelina arborea</i>	1	63		1			
<i>Leucaena leucocephala</i>	1	109			1		
<i>Mangifera indica</i>	1	117				1	
<i>Melia azadirac</i>	1	140				1	
<i>Neolamarckia cadamba</i>	1	187					1
<i>Pandanus furcatus</i>	1	145				1	
<i>Psidium guajava</i>	1	87			1		
<i>Putranjiva roxburghii</i>	1	75		1			
<i>Rhus chinensis</i>	1	198					1
<i>Schima wallichii</i>	1	178					1
<i>Stereospermum chelonoides</i>	2	158		1	1		
<i>Synzygium cumini</i>	1	105			1		
<i>Terminalia myriocarpa</i>	4	1218					4
<b>TOTAL:</b>	<b>86</b>	<b>10866</b>					

**Table - 8. RGU Market and Canteen Area [girth in cm]**

Tree species	Basic data		Girth classes				
	Total No.	Total girth	20 – 50	51 – 80	81 – 110	111 – 150	Over 150
<i>Acacia auriculoformis</i>	2	219			2		
<i>Ailanthus grandis</i>	2	258				1	1
<i>Altingia excelsa</i>	1	155					1
<i>Bauhinia variegata</i>	1	112				1	
<i>Callistemon citrinus</i>	2	253				2	
<i>Cassia fistula</i>	1	58		1			
<i>Crypteronia paniculata</i>	1	116				1	
<i>Ehretia acuminata</i>	3	174		3			
<i>Elaeocarpus sphaericus</i>	8	742		1	6	1	
<i>Ficus rumphii</i>	1	445					1
<i>Gravaelia robusta</i>	1	95			1		
<i>Mesua ferrea</i>	2	69	1				
<i>Morus macroura</i>	7	479		1	5	1	
<i>Pandanus furcatus</i>	1	57		1			
<i>Polyalthia longifolia</i>	4	93	4				
<i>Stereospermum chelonoides</i>	1	66		1			
<i>Tamarindus indicus</i>	2	194		1	1		
<i>Vernicia fordii</i>	3	294		1	2		
<i>Ziziphus jujuba</i>	1	180					1
<b>TOTAL:</b>	<b>44</b>	<b>4059</b>					

**Table - 9. Coffee Corner Area [girth in cm]**

Tree species	Basic data		Girth classes				
	Total No.	Total girth	20 – 50	51 – 80	81 – 110	111 – 150	Over 150
<i>Acacia auriculoformis</i>	3	359			1	2	
<i>Ailanthus grandis</i>	2	500					2
<i>Altingia excelsa</i>	2	87	2				
<i>Delonix regia</i>	1	202					1

<i>Ehretia acuminata</i>	5	328		4	1		
<i>Ficus religiosa</i>	1	127				1	
<i>Melia azadirac</i>	2	173		1	1		
<i>Morus laevigatus</i>	3	133	1	2			
<i>Mesua ferrea</i>	3	105	3				
<b>TOTAL:</b>	<b>22</b>	<b>2014</b>					

**Table – 10. Administrative Campus Road- side Car Park [girth in cm]**

Tree species	Basic data		Girth classes				
	Total No.	Total girth	20 – 50	51 – 80	81 – 110	111 – 150	Over 150
<i>Alstonia scholaris</i>	2	119		2			
<i>Elaeocarpus rugosus</i>	1	31	1				
<i>Grevillea robusta</i>	3	325			1	2	
<i>Mesua ferrea</i>	40	3769		4	30	6	
<i>Ziziphus jujuba</i>	1	185					1
<b>TOTAL:</b>	<b>47</b>	<b>4429</b>					

**Table - 11. Administrative Campus [except Car-park area near bank], [girth in cm]**

Tree species	Basic data		Girth classes				
	Total No.	Total girth	20 – 50	51 – 80	81 – 110	111 – 150	Over 150
<i>Areca catechu</i>	1	22	1				
<i>Artocarpus heterophylla</i>	2	294				1	1
<i>Bauhinia variegata</i>	1	173					1
<i>Callistemon citrinus</i>	5	403		1	4		
<i>Ehretia acuminata</i>	2	89	2				
<i>Elaeocarpus sphaericus</i>	3	326				2	1
<i>Ficus elastica</i>	1	58		1			
<i>Grevillea robusta</i>	13	1347			10	3	
<i>Livistona jenkinsiana</i>	1	52		1			
<i>Mangifera indica</i>	4	318	1	1	1		
<i>Melia azadirac</i>	1	44	1				

<i>Mesua ferrea</i>	7	701		1	6		
<i>Neolamarckia cadamba</i>	5	445					
<i>Polyalthia longifolia</i>	4	313		2	2		
<i>Pongamia pinnata</i>	2	87	2				
<i>Psidium guajava</i>	1	28	1				
<i>Saribus rotundifolius</i>	4	307		4			
<b>TOTAL:</b>	<b>57</b>	<b>5007</b>					

**Table - 12. Administrative Campus Car-park Area [girth in cm]**

Tree species	Basic data		Girth classes				
	Total No.	Total girth	20 – 50	51 – 80	81 – 110	111 – 150	Over 150
<i>Artocarpus heterophylla</i>	2	400					2
<i>Coffea arabica</i>	1	56		1			
<i>Ehretia acuminata</i>	3	206		2	1		
<i>Melia azadirac</i>	3	413			1	2	
<i>Mesua ferrea</i>	3	137			2	1	
<i>Psidium guajava</i>	2	63	1				
<i>Roystonea regia</i>	1	171					1
<i>Stereospermum chelonoides</i>	1	102			1		
<i>Terminalia chebula</i>	2	150		2			
<b>TOTAL:</b>	<b>18</b>	<b>1698</b>					

**Table - 13. Residential Area behind the Administrative Campus [girth in cm]**

Tree species	Basic data		Girth classes				
	Total No.	Total girth	20 – 50	51 – 80	81 – 110	111 – 150	Over 150
<i>Araucaria cookei</i>	3	120	1	2			
<i>Areca catechu</i>	7	254	7				
<i>Artocarpus heterophylla</i>	7	585		3	3	1	
<i>Averrhoa carambola</i>	1	27	1				
<i>Delonix regia</i>	1	33	1				
<i>Ficus rumphii</i>	1	72		1			

<i>Heteropanax</i>	1	51		1			
<i>Litsea polyantha</i>	3	181		3			
<i>Livistona jenkinsiana</i>	1	131				1	
<i>Mangifera indica</i>	9	693		7	2		
<i>Melia azadirac</i>	1	57		1			
<i>Mesua ferrea</i>	1	63		1			
<i>Moringa oleifera</i>	2	179		1	1		
<i>Nyctanthes arbor-tristis</i>	2	134	1	1			
<i>Pandanus furcatus</i>	1	67		1			
<i>Phoebe cooperiana</i>	3	269		1	2		
<i>Phyllanthus embelica</i>	16	913	4	11	1		
<i>Pongamia pinnata</i>	4	275	2	2			
<i>Psidium guajava</i>	11	332	9	2			
<i>Roystonea regia</i>	2	310					2
<i>Terminalia chebula</i>	4	194			2		
<i>Ziziphus jujuba</i>	2	110	1	1			
<b>TOTAL:</b>	<b>83</b>	<b>5050</b>					

**Table – 14. Main Auditorium to library [girth in cm]**

Tree species	Basic data		Girth classes				
	Total No.	Total girth	20 – 50	51 – 80	81 – 110	111 – 150	Over 150
<i>Albizia saman</i>	10	1856					10
<i>Altingia excelsa</i>	2	348					2
<i>Araucaria cookei</i>	1	55		1			
<i>Artocarpus heterophylla</i>	4	475			2	2	
<i>Bauhinia variegata</i>	1	81			1		
<i>Cinnamomum tamala</i>	1	177					1
<i>Delonix regia</i>	5	787				1	4
<i>Ehretia acuminata</i>	2	174				2	
<i>Elaeocarpus sphaericus</i>	2	252				1	1
<i>Erythrina stricta</i>	2	142				2	

<i>Ficus sp.</i>	2	137			2		
<i>Lagerstroemia speciosa</i>	35	3605		2	12	21	
<i>Mallotus nudiflorus</i>	1	137				1	
<i>Mangifera indica</i>	5	428		1	2	2	
<i>Melia azadirac</i>	3	263		1	2		
<i>Mesua ferrea</i>	29	2130			17	12	
<i>Oroxylum indicum</i>	3	377			1	2	
<i>Polyalthia longifolia</i>	3	67	3				
<i>Psidium guajava</i>	2	93	1	1			
<i>Stereospermum chelonoides</i>	1	111				1	
<i>Tectona grandis</i>	1	87			1		
<i>Terminalia arjuna</i>	4	489			2	2	
<i>Terminalia bellirica</i>	1	109			1		
<i>Trema orientalis</i>	1	58		1			
<i>Ziziphus jujuba</i>	4	313	1	2	1		
<b>TOTAL:</b>	<b>125</b>	<b>12751</b>					

**Table - 15. D-Sector area-[girth in cm]**

Tree species	Basic data		Girth classes				
	Total No.	Total girth	20 – 50	51 – 80	81 – 110	111 – 150	Over 150
<i>Aegle marmelos</i>	1	87			1		
<i>Alangium barbatum</i>	2	327				1	1
<i>Altingia excelsa</i>	12	1421			6	6	
<i>Araucaria cookei</i>	1	93			1		
<i>Averrhoa carambola</i>	2	154		2			
<i>Baccaurea ramiflora</i>	1	42	1				
<i>Bauhinia variegata</i>	6	358	1	3	2		
<i>Cassia fistula</i>	1	29	1				
<i>Cocos nucifera</i>	1	127				1	
<i>Dillenia indica</i>	1	98			1		
<i>Ehretia acuminata</i>	5	323		3	2		

<i>Elaeocarpus sphaericus</i>	2	193				2	
<i>Erythrina stricta</i>	11	831		2	8	1	
<i>Ficus rumphii</i>	1	190					1
<i>Lagerstroemia speciosa</i>	2	53	2				
<i>Macaranga denticulata</i>	6	431		4	2		
<i>Magnolia champaca</i>	1	51		1			
<i>Mangifera indica</i>	6	338	2	4			
<i>Mesua ferrea</i>	7	413	6	1			
<i>Moringa oleifera</i>	4	376			4		
<i>Murraya paniculata</i>	1	21	1				
<i>Nyctanthes arbor-tristis</i>	3	173	1	2			
<i>Phoebe cooperiana</i>	2	218				2	
<i>Phyllanthus embelica</i>	1	105			1		
<i>Pongamia pinnata</i>	2	522					2
<i>Prunus domestica</i>	2	118		1	1		
<i>Psidium guajava</i>	7	406	3	4			
<i>Rhus chinensis</i>	1	68		1			
<i>Stereospermum chelonoides</i>	3	210		2	1		
<i>Syzygium cumini</i>	1	98			1		
<i>Ziziphus jujuba</i>	6	593		3	3		
<b>TOTAL:</b>	<b>102</b>	<b>8467</b>					

**Table - 16. Behind Main Auditorium and Teachers' activity Centre – Geography [girth in cm]**

Tree species	Basic data		Girth classes				
	Total No.	Total girth	20 – 50	51 – 80	81 – 110	111 – 150	Over 150
<i>Aglaia sp.</i>	2	78	1	1			
<i>Albizia lucidior</i>	2	149	1	1			
<i>Albizia sinensis</i>	2	189		1	1		
<i>Alangium</i>	1	56		1			
<i>Artocarpus heterophylla</i>	6	422	1	5			
<i>Artocarpus chama</i>	3	277		1	2		

<i>Averrhoa carambola</i>	1	36	1				
<i>Bauhinia variegata</i>	3	162	1	2			
<i>Cascabela thevetia</i>	1	37	1				
<i>Cassia fistula</i>	7	296	4	3			
<i>Cordia dichotoma</i>	1	47	1				
<i>Dalbergia (liana)</i>	1	43	1				
<i>Duabanga grandiflora</i>	3	180	1	1			
<i>Ehretia acuminata</i>	4	191	1	2			
<i>Elaeocarpus aristatus</i>	1	52		1			
<i>Elaeocarpus sphaericus</i>	1	50	1				
<i>Erythrina stricta</i>	5	315	1	2	2		
<i>Ficus religiosa</i>	1	112				1	
<i>Ficus auriculata</i>	3	147	1	2			
<i>Grevillea robusta</i>	1	54		1			
<i>Lagerstroemia speciosa</i>	1	27	1				
<i>Magnolia hodgsonii</i>	1	58		1			
<i>Mallotus nudiflorus</i>	4	348		2	2		
<i>Mangifera indica</i>	7	283	2	5			
<i>Melia azadirac</i>	1	49	1				
<i>Mesua ferrea</i>	2	78	2				
<i>Morus macroura</i>	1	54		1			
<i>Neolamarckia cadamba</i>	10	771	2	7	1		
<i>Oroxylum indicum</i>	2	195		1	1		
<i>Pongamia pinnata</i>	3	125	2	1			
<i>Psidium guajava</i>	1	30	1				
<i>Schima wallichii</i>	1	112				1	
<i>Styrax serrulatum</i>	2	72	2				
<i>Syzygium cumini</i>	1	48	1				
<i>Tectona grandis</i>	2	199	1	1			
<i>Toona sp.</i>	2	118	1	1			
<i>Vernicia fordii</i>	2	119		2			



<i>Vitex sp.</i>	1	43	1				
<i>Zanthoxylum armata</i>	1	22	1				
<b>TOTAL:</b>	<b>94</b>	<b>5644</b>					

**Table - 17. Women's Technology Park-[girth in cm]**

Tree species	Basic data		Girth classes				
	Total No.	Total girth	20 – 50	51 – 80	81 – 110	111 – 150	Over 150
<i>Artocarpus heterophylla</i>	5	457		2	3		
<i>Bauhinia variegata</i>	1	21	1				
<i>Delonix regia</i>	1	107			1		
<i>Elaeocarpus sphaericus</i>	2	78	2				
<i>Litsea polyantha</i>	4	317		2	2		
<i>Mangifera indica</i>	3	209		2	1		
<i>Melia azadirac</i>	2	204			2		
<i>Moringa oleifera</i>	2	105		2			
<i>Nyctanthes arbor-tristis</i>	1	86			1		
<i>Oroxylum indicum</i>	1	157					1
<i>Parkia timorensis</i>	3	278			3		
<i>Phoebe cooperiana</i>	1	142				1	
<i>Phyllanthus embelica</i>	2	121		2			
<i>Prunus domestica</i>	1	83			1		
<i>Psidium guajava</i>	2	157		1	1		
<i>Putranjiva roxburghii</i>	1	47	1				
<i>Stereospermum chelonoides</i>	1	41	1				
<i>Terminalia chebula</i>	2	120	1	1			
<i>Trema orientalis</i>	4	262	2	2			
<i>Ziziphus jujuba</i>	1	138					1
<b>TOTAL:</b>	<b>40</b>	<b>3130</b>					

**Table - 18. Main Gate area [girth in cm]**

Tree species	Basic data	Girth classes
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	<b>Total No.</b>	<b>Total girth</b>	<b>20 – 50</b>	<b>51 – 80</b>	<b>81 – 110</b>	<b>111 – 150</b>	<b>Over 150</b>
<i>Albizia sinensis</i>	2	405					2
<i>Delonix regia</i>	3	324				1	2
<i>Litsea polyantha</i>	2	236			1	1	
<i>Mangifera indica</i>	2	102	1	1			
<i>Parkia timorensis</i>	5	421		1	4		
<i>Pentapanax sp.</i>	1	125				1	
<i>Spondias pinata</i>	1	82			1		
<b>TOTAL:</b>	<b>16</b>	<b>1695</b>					

**Table - 19. Girls' Hostel Campus [girth in cm]**

<b>Tree species</b>	<b>Basic data</b>		<b>Girth classes</b>				
	<b>Total No.</b>	<b>Total girth</b>	<b>20 – 50</b>	<b>51 – 80</b>	<b>81 – 110</b>	<b>111 – 150</b>	<b>Over 150</b>
<i>Albizia saman</i>	2	285				1	1
<i>Areca catechu</i>	2	78	2				
<i>Artocarpus heterophylla</i>	3	476				1	2
<i>Artocarpus chama</i>	1	279					1
<i>Baccaurea ramiflora</i>	1	40	1				
<i>Cassia sp.</i>	1	92			1		
<i>Delonix regia</i>	1	253					1
<i>Dillenia indica</i>	1	116				1	
<i>Elaeocarpus aristatus</i>	1	75		1			
<i>Erythrina stricta</i>	10	1183			3	7	
<i>Ficus elastica</i>	1	371					1
<i>Ficus rumphii</i>	4	483			2	2	
<i>Litsea polyantha</i>	3	305			2	1	
<i>Macaranga denticulata</i>	1	110			1		
<i>Mangifera indica</i>	2	239			1	1	
<i>Mesua ferrea</i>	9	434	8	1			
<i>Neolamarckia cadamba</i>	1	223					1
<i>Nyctanthes arbor-tristis</i>	11	738	3	8			

<i>Oroxylum indicum</i>	1	137				1	
<i>Ziziphus jujuba</i>	1	79		1			
<b>TOTAL:</b>	<b>57</b>	<b>5996</b>					

**Table – 20. Siang Hostel Campus [girth in cm]**

Tree species	Basic data		Girth classes				
	Total No.	Total girth	20 – 50	51 – 80	81 – 110	111 – 150	Over 150
<i>Litchi sinensis</i>	1	50	1				
<i>Mangifera indica</i>	1	107			1		
<i>Mesua ferrea</i>	1	145					1
<i>Ziziphus jujuba</i>	4	203	2	2			
<b>TOTAL:</b>	<b>7</b>	<b>505</b>					

**Table – 21. Library to Social Science Building [girth in cm]**

Tree species	Basic data		Girth classes				
	Total No.	Total girth	20 – 50	51 – 80	81 – 110	111 – 150	Over 150
<i>Albizia saman</i>	2	318					2
<i>Araucaria cookei</i>	3	228		1	2		
<i>Carica papaya</i>	2	133		2			
<i>Citrus grandis</i>	1	81			1		
<i>Delonix regia</i>	4	680				2	2
<i>Ehretia acuminata</i>	1	56		1			
<i>Erythrina stricta</i>	2	358					2
<i>Hevea brasiliensis</i>	70	2482	43	17	10		
<i>Lagerstroemia speciosa</i>	57	4852	12	23	15	7	
<i>Melia azadirac</i>	1	106			1		
<i>Mesua ferrea</i>	5	137	5				
<i>Polyalthia longifolia</i>	13	317	13				
<i>Pongamia pinnata</i>	4	141	3	1			

<i>Stereospermum chelonoides</i>	1	29	1				
<i>Terminalia arjuna</i>	10	1223	1		3	5	1
<i>Thuja orientalis</i>	1	56		1			
<b>TOTAL:</b>	<b>177</b>	<b>11197</b>					

**Table – 22. Life Science Building Area [girth in cm]**

Tree species	Basic data		Girth classes				
	Total No.	Total girth	20 – 50	51 – 80	81 – 110	111 – 150	Over 150
<i>Albizia sinensis</i>	1	240					1
<i>Alstonia scholaris</i>	1	281					1
<i>Bombax ceiba</i>	3	752					3
<i>Callicarpa macrophylla</i>	3	280			3		
<i>Duabanga grandiflora</i>	1	199					1
<i>Erythrina stricta</i>	1	135				1	
<i>Lagerstroemia speciosa</i>	1	92			1		
<i>Magnolia hodgsonii</i>	1	55		1			
<i>Mesua ferrea</i>	4	99					
<i>Oroxylum indicum</i>	2	198					
<i>Pentapanax sp</i>	1	84			1		
<i>Polyalthia longifolia</i>	12	369	12				
<i>Schima wallichii</i>	1	271					1
<i>Stereospermum chelonoides</i>	1	149				1	
<i>Ziziphus jujuba</i>	1	113				1	
<b>TOTAL:</b>	<b>34</b>	<b>3317</b>					

**Table - 23. RS Boys Hostel Area [girth in cm]**

Tree species	Basic data		Girth classes				
	Total No.	Total girth	20 – 50	51 – 80	81 – 110	111 – 150	Over 150
<i>Ailanthus grandis</i>	1	120				1	
<i>Albizia saman</i>	1	128				1	

<i>Altingia excelsa</i>	1	123				1	
<i>Aphanamixis polystachya</i>	2	110		2			
<i>Artocarpus heterophylla</i>	1	45	1				
<i>Artocarpus chama</i>	3	246		1	1	1	
<i>Balakata baccata</i>	1	242					1
<i>Bombax ceiba</i>	1	125				1	
<i>Callicarpa macrophylla</i>	1	187					1
<i>Castanopsis sp.</i>	6	417		3	3		
<i>Cinnamomum obtusifolium</i>	1	46	1				
<i>Dillenia indica</i>	1	99			1		
<i>Erythrina stricta</i>	4	412			3	1	
<i>Ficus hispida</i>	2	114		2			
<i>Litsea polyantha</i>	3	157	1	2			
<i>Macaranga denticulata</i>	1	68		1			
<i>Mallotus nudiflorus</i>	1	182					1
<i>Oroxylum indicum</i>	1	46	1				
<i>Spondias pinata</i>	2	275				2	
<i>Stereospermum chelonoides</i>	3	199		2	1		
<i>Terminalia arjuna</i>	1	240					1
<b>TOTAL:</b>	<b>38</b>	<b>3581</b>					

**Table - 24. Boys' Hostel area-[girth in cm]**

Tree species	Basic data		Girth classes				
	Total No.	Total girth	20 – 50	51 – 80	81 – 110	111 – 150	Over 150
<i>Actinodaphne obvatata</i>	1	90			1		
<i>Alangium barbatum</i>	1	63		1			
<i>Artocarpus heterophylla</i>	4	321		2	2		
<i>Balakata baccata</i>	1	45	1				
<i>Bauhinia variegata</i>	2	68	2				
<i>Callicarpa macrophylla</i>	1	190					1
<i>Castanopsis indica</i>	1	220					1

<i>Dillenia indica</i>	1	121				1	
<i>Elaeocarpus sphaericus</i>	1	78		1			
<i>Erythrina stricta</i>	7	717			2	5	
<i>Ficus hispida</i>	1	40	1				
<i>Litsea polyantha</i>	1	50	1				
<i>Mangifera indica</i>	1	25	1				
<i>Mesua ferrea</i>	1	57		1			
<i>Moringa oleifera</i>	1	45	1				
<i>Morus macroura</i>	1	150				1	
<i>Nyctanthes arbor-tristis</i>	1	71		1			
<i>Pandanus furcatus</i>	1	115				1	
<i>Phoebe cooperiana</i>	1	430					1
<i>Psidium guajava</i>	1	55		1			
<i>Schima wallichii</i>	1	123				1	
<i>Stereospermum chelonoides</i>	5	213	2	3			
<i>Terminalia myriocarpa</i>	1	270					1
<b>TOTAL:</b>	<b>37</b>	<b>3557</b>					

**Table - 25. Bus Terminus Area [girth in cm]**

Tree species	Basic data		Girth classes				
	Total No.	Total girth	20 – 50	51 – 80	81 – 110	111 – 150	Over 150
<i>Artocarpus heterophylla</i>	4	279	1	3			
<i>Bombax ceiba</i>	1	115				1	
<i>Callicarpa macrophylla</i>	2	455					2
<i>Castanopsis indica</i>	2	202				2	
<i>Citrus grandis</i>	3	106	3				
<i>Dillenia indica</i>	1	55		1			
<i>Duabanga grandiflora</i>	2	89	2				
<i>Elaeocarpus aristatus</i>	1	55		1			
<i>Erythrina stricta</i>	8	524	2	6			
<i>Ficus religiosa</i>	1	114				1	

<i>Lagerstroemia speciosa</i>	2	87	2				
<i>Litchi sinensis</i>	1	24	1				
<i>Lithocarpus sp.</i>	1	32	1				
<i>Mangifera indica</i>	9	464	4	5			
<i>Neolamarckia cadamba</i>	1	74		1			
<i>Pentapanax sp.</i>	1	55		1			
<i>Phoebe cooperiana</i>	1	125				1	
<i>Prunus persica</i>	1	31	1				
<i>Psidium guajava</i>	6	355	1	5			
<i>Spondias pinata</i>	4	229		3	1		
<i>Stereospermum chelonoides</i>	2	60	2				
<i>Ziziphus jujuba</i>	2	71		1			
<b>TOTAL:</b>	<b>56</b>	<b>3601</b>					

**Table - 26. New RS Hostel – F-Sector Quarters [girth in cm]**

Tree species	Basic data		Girth classes				
	Total No.	Total girth	20 – 50	51 – 80	81 – 110	111 – 150	Over 150
<i>Actinodaphne obovata</i>	5	252	3		1		
<i>Aglaia sp.</i>	2	98	1	1			
<i>Alangium sp.</i>	6	316	3	3			
<i>Albizia sinensis</i>	4	506			2	1	1
<i>Alstonia scholaris</i>	2	117		2			
<i>Aphanamixis polystachya</i>	3	230		2	1		
<i>Artocarpus chama</i>	2	148		1	1		
<i>Artocarpus heterophyllus</i>	3	187	1	1	1		
<i>Balakata baccata</i>	2	202		1		1	
<i>Bauhinia variagata</i>	3	135	2	1			
<i>Bombax ceiba</i>	5	330	1	2	2		
<i>Callicarpa macrophylla</i>	3	229		2	1		
<i>Carica papaya</i>	4	97	4				
<i>Cassia fistula</i>	2	98	1	1			

<i>Citrus grandis</i>	2	79	2				
<i>Delonix regia</i>	1	89			1		
<i>Duabanga grandiflora</i>	3	154	1	2			
<i>Elaeocarpus aristatus</i>	2	101	1	1			
<i>Erythrina stricta</i>	4	226	1	3			
<i>Ficus hispida</i>	5	201	4	1			
<i>Ficus sp.</i>	1	184					1
<i>Leucaena leucocephala</i>	1	61		1			
<i>Litsea cubeba</i>	1	61		1			
<i>Litsea polyantha</i>	4	184	3	1			
<i>Litsea sebifera</i>	2	99	1	1			
<i>Macaranga deltoidea</i>	5	226	4	1			
<i>Magnolia hodgsonii</i>	1	49	1				
<i>Mallotus nudiflorus</i>	3	222		2	1		
<i>Mangifera indica</i>	2	60	1				
<i>Mesua ferrea</i>	4	109	4				
<i>Oroxylum indica</i>	3	142	2	1			
<i>Phoebe cooperiana</i>	2	127		2			
<i>Psidium guajava</i>	2	72	2				
<i>Schima wallichii</i>	1	58		1			
<i>Spondias pinnata</i>	2	97	1	1			
<i>Terminalia bellirica</i>	1	47	1				
<i>Terminalia myriocarpa</i>	2	142		1	1		
<i>Trema orientalis</i>	5	185	5				
<i>Zanthoxylum armata</i>	2	79	2				
<i>Ziziphus jujuba</i>	1	39	1				
<b>TOTAL:</b>	<b>108</b>	<b>6038</b>					

The totals of number of tree-stands (individuals) and recorded girth has been presented below in Table -27.

Table 27. Numerical Summery of recorded data



Sectors	Total number of Individuals	Total recorded girth [cm]
Sector - 1	142	13,540
Sector - 2	52	4690
Sector - 3	53	4447
Sector - 4	21	2008
Sector - 5	17	2150
Sector - 6	94	9848
Sector - 7	86	10,866
Sector - 8	44	4059
Sector - 9	22	2014
Sector - 10	47	4429
Sector - 11	57	5007
Sector - 12	18	1698
Sector - 13	83	5050
Sector - 14	125	12,751
Sector - 15	102	8467
Sector - 16	94	5644
Sector - 17	40	3130
Sector - 18	16	1695
Sector - 19	57	5996
Sector - 20	7	505
Sector - 21	177	11,197
Sector - 22	34	3317
Sector - 23	38	3581
Sector - 24	37	3557
Sector - 25	56	3601
Sector - 26	108	6038

## TREE FLORA

The present survey recorded the occurrence of as much as 116 species of trees in the developed area of the Rajiv Gandhi University campus on top of the Rono Hills. All the species along with their families, usefulness etc. are presented in Table 28 below:

**Table – 28. List of recorded trees from the developed areas of RGU campus**

	Tree Scientific Names	Families	No	TG (cm)	Mean girth (cm)	Main Use	Indian/ Exotic
01	<i>Acacia auriculoformis</i>	Leguminosae: Mimosoideae	41	5260	128.29	Fire wood, Ornamental	Exotic
02	<i>Actinodaphne obvatata</i>	Lauraceae	07	394	56.29	Fire wood	Indian
03	<i>Aegle marmelos</i>	Rutaceae	01	87	87	Medicinal, Religious	Indian
04	<i>Aglaia sp.</i>	Meliaceae	05	246	49.2	Timber	Indian

05	<i>Ailanthus grandis</i>	Burseraceae	18	3011	167.28	Timber	Indian
06	<i>Alangium barbatum</i>	Alangiaceae	10	762	26.2	Fodder	Indian
07	<i>Albizia lucidior</i>	Leguminosae: Mimosoideae	08	841	105.13	Timber	Indian
08	<i>Albizia saman</i>	Leguminosae: Mimosoideae	16	2889	180.57	Timber	Indian
09	<i>Albizia sinensis</i>	Leguminosae: Mimosoideae	27	3463	128.26	Timber	Indian
10	<i>Alstonia scholaris</i>	Apocynaceae	07	1037	148.14	Medicinal, Religious	Indian
11	<i>Altingia excelsa</i>	Altingiaceae	23	2753	119.7	Medicinal. Timber	Indian
12	<i>Aphanamixis polystachya</i>	Meliaceae	05	340	68	Timber	Indian
13	<i>Araucaria cookei</i>	Arucariaceae	10	626	62.6	Ornamental	Exotic
14	<i>Areca catechu</i>	Leguminosae: Mimosoideae	12	433	36.08	Mastigator	Indian
15	<i>Artocarpus chama</i>	Moraceae	11	1143	103.9	Timber, Fruits edible	Indian
16	<i>Artocarpus heterophylla</i>	Moraceae	55	5031	91.47	Fruits edible, Fodder	Indian
17	<i>Averrhoa carambola</i>	Oxalidaceae	05	336	67.2	Fruits edible	Indian
18	<i>Baccaurea ramiflora</i>	Phyllanthaceae	02	82	41	Fruits edible	Indian
19	<i>Balakata baccata</i>	Euphorbiaceae	04	489	122.25	Timber	Indian
20	<i>Bauhinia variegata</i>	Leguminosae: Caesalpinioideae	30	2151	71.7	Ornamental , Flower bus edible	Indian
21	<i>Bombax ceiba</i>	Malvaceae	16	2034	127.13	Ornamental , Floss	Indian
22	<i>Callicarpa macrophylla</i>	Lamiaceae	17	2582	151.88	Fire wood	Indian
23	<i>Callistemon citrinus</i>	Myrtaceae	13	1025	78.85	Ornamental	Exotic
24	<i>Carica papaya</i>	Caricaceae	06	230	38.33	Fruits edible	Exotic
25	<i>Cascabela thevetia</i>	Apocynaceae	01	37	37	Ornamental	Exotic

26	<i>Cassia fistula</i>	Leguminosae: Caesalpinioideae	16	1235	77.19	Ornamental , Medicinal	Indian
27	<i>Cassia sp.</i>	Leguminosae: Caesalpinioideae	02	148	74	Ornamental	Exotic
28	<i>Castanopsis indica</i>	Fagaceae	03	422	140.67	Timber	Indian
29	<i>Castanopsis sp.</i>	Fagaceae	06	417	69.5	Timber	Indian
30	<i>Casuarina equisetifolia</i>	Casuarinaceae	01	84	84	Fire wood	Exotic
31	<i>Cinnamomum obtusifolium</i>	Lauraceae	01	46	46	Fire wood	Indian
32	<i>Cinnamomum tamala</i>	Lauraceae	02	302	151	Aromatic leavea	Indian
33	<i>Citrus grandis</i>	Rutaceae	09	456	50.67	Fruits edible	Indian
34	<i>Cocos nucifera</i>	Arecaceae	02	207	103.5	Fruits edible, Oil	Indian
35	<i>Coffea arabica</i>	Rubiaceae	01	56	56	Produce coffee	Exotic
36	<i>Cordia dichotoma</i>	Boraginaceae	01	47	47	Fire wood	Indian
37	<i>Crypteronia paniculata</i>	Panaeaceae	02	152	76	Timber	Indian
38	<i>Dalbergia (liana)</i>	Leguminosae: Papilionoideae	03	205	68.33	Fire wood	Indian
39	<i>Dalbergia (tree)</i>	Leguminosae: Papilionoideae	03	437	145.67	Timber	Indian
40	<i>Dalbergia sisoo</i>	Leguminosae: Papilionoideae	01	114	114	Timber	Indian
41	<i>Delonix regia</i>	Leguminosae: Caesalpinioideae	18	3701	205.61	Ornamental	Exotic
42	<i>Dillenia indica</i>	Dilleniaceae	06	489	81.5	Fruits edible	Exotic
43	<i>Duabanga grandiflora</i>	Lythraceae	09	622	69.11	Timber	Indian
44	<i>Ehretia acuminata</i>	Boraginaceae	43	2903	67.51	Fire wood	Indian
45	<i>Elaeocarpus aristatus</i>	Elaeocarpaceae	05	283	56.6	Fire wood, Fruits edible	Indian
46	<i>Elaeocarpus rugosus</i>	Elaeocarpaceae	01	31	31	Fire wood	Indian
47	<i>Elaeocarpus sphaericus</i>	Elaeocarpaceae	29	3467	119.55	Timber, Religious Beads	Indian

48	<i>Erythrina stricta</i>	Leguminosae: Papilionoideae	58	5270	90.87	Ornamental , Fire wood	Indian
49	<i>Ficus auriculata</i>	Moraceae	03	147	49	Fodder, Fruits edible	Indian
50	<i>Ficus elastica</i>	Moraceae	03	1059	353	Ornamental	Indian
51	<i>Ficus fulva</i>	Moraceae	01	53	53	Fodder	Indian
52	<i>Ficus hispida</i>	Moraceae	08	255	31.88	Fruits edible	Indian
53	<i>Ficus religiosa</i>	Moraceae	04	645	161.25	Religious	Indian
54	<i>Ficus rumphii</i>	Moraceae	10	1770	177	Ornamental , Fodder	Indian
55	<i>Ficus sp.- 1</i>	Moraceae	09	611	67.89		Indian
56	<i>Ficus sp.- 2</i>	Moraceae	01	184	184	Ornamental	Exotic
57	<i>Ficus sp.-3</i>	Moraceae	01	391	391	Ornamental	Indian
58	<i>Garcinia pedunculata</i>		01	32	32	Fruits edible	Indian
59	<i>Gmelina arborea</i>	Verbenaceae	01	63	63	Timber	Indian
60	<i>Gravaelia robusta</i>	Proteaceae	27	2766	102.44	Ornamental	Exotic
61	<i>Heteropanax</i>	Araliaceae	01	51	51	Fire wood	Indian
62	<i>Hevea brasiliensis</i>	Euphorbiaceae	70	2482	35.46	Produce rubber	Exotic
63	<i>Jacaranda mimosifolia</i>	Bignoniaceae	01	258	258	Ornamental	Exotic
64	<i>Lagerstroemia speciosa</i>	Lythraceae	103	9677	93.95	Timber, Ornamental	Indian
65	<i>Leucaena leucocephala</i>	Leguminosae: Mimosoideae	04	333	83.25	Fire wood	Indian
66	<i>Litchi sinensis</i>	Sapindaceae	03	195	65	Fruits edible	Exotic
67	<i>Lithocarpus sp.</i>	Fagaceae	01	32	32	Timber	Indian
68	<i>Litsea cubeba</i>	Lauraceae	01	61	61	Fruits edible	Indian
69	<i>Litsea polyantha</i>	Lauraceae	23	1706	74.18	Fire wood	Indian
70	<i>Litsea sebifera</i>	Lauraceae	02	99	49.5	Medicinal, Fire wood	Indian

71	<i>Livistona jenkinsiana</i>	Arecaceae	02	183	91.5	Ornamental , Thatch	Indian
72	<i>Macaranga denticulata</i>	Euphorbiaceae	18	1242	69	Fire wood	Indian
73	<i>Magnolia champaca</i>	Magnoliaceae	01	51	51	Timber, Ornamental	Indian
74	<i>Magnolia hodgsonii</i>	Magnoliaceae	03	162	54	Fire wood	Indian
75	<i>Mallotus nudiflorus</i>	Euphorbiaceae	09	889	98.78	Timber	Indian
76	<i>Mangifera indica</i>	Anacardiaceae	71	4890	68.88	Fruits edible, Timber	Indian
77	<i>Melia azadirac</i>	Meliaceae	28	2160	77.14	Fodder	Indian
78	<i>Mesua ferrea</i>	Clusiaceae	189	13230	70	Timber, Ornamental	Indian
79	<i>Moringa oleifera</i>	Moringaceae	11	865	78.64	Fruits edible, Medicinal	Exotic
80	<i>Morus macroura</i>	Moraceae	19	1581	83.21	Timber	Indian
81	<i>Murraya paniculata</i>	Rutaceae	06	214	35.67	Ornamental	Indian
82	<i>Neolamarckia cadamba</i>	Rubiaceae	21	2446	116.48	Timber, Ornamental	Indian
83	<i>Nyctanthes arbor-tristis</i>	Oleaceae	22	1583	71.96	Ornamental	Indian
84	<i>Oroxylum indicum</i>	Bignoniaceae	13	1252	96.31	Ornamental , Religious	Indian
85	<i>Pandanus furcatus</i>	Pandanaceae	04	384	96	Ornamental	Indian
86	<i>Parkia timorensis</i>	Leguminosae: Mimosoideae	08	699	87.38	Fruit vegetable	Indian (?)
87	<i>Pentapanax sp</i>	Araliaceae	03	264	88		Indian
88	<i>Phoebe cooperiana</i>	Lauraceae	10	1311	131.1	Fruits edible, Timber	Indian
89	<i>Phyllanthus embelica</i>	Phyllanthaceae	25	1664	66.56	Medicinal	Indian
90	<i>Polyalthia longifolia</i>	Annonaceae	37	1199	32.41	Ornamental	Indian
91	<i>Pongamia pinnata</i>	Leguminosae: Papilionoideae	38	2751	72.4	Timber, Medicinal	Indian
92	<i>Prunus domestica</i>	Rosaceae	03	201	67	Fruits edible	Exotic

93	<i>Prunus persica</i>	Rosaceae	01	31	31	Fruits edible	Exotic
94	<i>Psidium guajava</i>	Myrtaceae	49	2235	45.61	Fruits edible	Exotic
95	<i>Putranjiva roxburghii</i>	Putranjivaceae	04	348	87	Ornamental	Indian
96	<i>Rhus chinensis</i>	Anacardiaceae	04	362	90.5	Fruits edible	Indian
97	<i>Roystonea regia</i>	Arecaceae	03	481	160.33	Ornamental	Exotic
98	<i>Saribus rotundifolius</i>	Arecaceae	05	328	65.6	Ornamental	Indian
99	<i>Schima wallichii</i>	Theaceae	07	1177	168.14	Timber, Fire wood	Indian
100	<i>Spondias pinata</i>	Anacardiaceae	10	722	72.2	Fruits edible	Indian
101	<i>Stereospermum chelonoides</i>	Bignoniaceae	25	1929	77.16	Timber	Indian
102	<i>Styrax serrulatum</i>	Styricaceae	02	72	36		Indian
103	<i>Syzygium cumini</i>	Myrtaceae	10	815	81.5	Fruits edible	Indian
104	<i>Tamarindus indicus</i>	Leguminosae: Caesalpinioideae	02	194	97	Fruits edible, Timber	Indian (?)
105	<i>Tectona grandis</i>	Lamiaceae	03	286	95.33	Timber	Exotic
106	<i>Terminalia arjuna</i>	Combretaceae	18	2247	124.83	Timber, Medicinal	Indian
107	<i>Terminalia bellirica</i>	Combretaceae	02	156	78	Timber, Medicinal	Indian
108	<i>Terminalia chebula</i>	Combretaceae	08	464	58	Medicinal	Indian
109	<i>Terminalia myriocarpa</i>	Combretaceae	07	1630	232.86	Timber	Indian
110	<i>Thuja orientalis</i>	Thujaceae	02	83	41.5	Ornamental	Exotic
111	<i>Toona sp.</i>	Meliaceae	02	118	59	Timber	Indian
112	<i>Trema orientalis</i>	Cannabaceae	10	55	5.5	Fire wood	Indian
113	<i>Vernicia fordii</i>	Euphorbiaceae	18	1752	97.33	Ornamental, Oil	Exotic
114	<i>Vitex sp.</i>	Lamiaceae	01	43	43	Medicinal	Indian
115	<i>Zanthoxylum armata</i>	Rutaceae	03	91	30.33	Aromatic leaves	Indian

116	<i>Ziziphus jujuba</i>	Rhamnaceae	29	2676	92.28	Fruits edible	Indian
			1616	138762	85.87		

Though Sector 21 is having highest number of 177 trees with GBH above 20 cm but highest total of girth (13,540 cm) has been recorded from the Sector 1 [Sector A]. So, trees in this sector are with good girth and many are quite old trees. One Indian Rubber tree (*Ficus elastica*) is representing the highest girth of 630 cm in the entire campus. The overall average girth, considering all the recorded 1616 individual is 85.87 is also quite high and encouraging.

Among the common trees, the tallest tree is *Ailanthus grandis*, it is also with very high girth and can produce highest amount of useful timber. Plants showing high girth includes *Ailanthus grandis*, *Albizia saman*, *Bombax ceiba*, *Callicarpa macrophylla*, *Delonix regia*, *Phoebe cooperiana*, *Schima wallichii*, *Terminalia myriocarpa*, etc. Some of these plants may be Indian but are planted in this campus.

At least 35 of the recorded 116 species produce good quality timber. Beautification is very important, and 31 species are planted mainly for this purpose. Fruits of 27 species are edible. Also, five species has religious importance. One *Ficus religiosa* planted in front of Mini Auditorium already stated receiving puja from campus duellers.

Of the recorded 116 species of trees, 93 are Indians and remaining 23 were introduced to India for different purpose. There are a good number Rudraksha (*Elaeocarpus sphericus*) plants in this campus and those produce huge beads and many people found collecting those regularly.

The beauty renders by different species with their flowers and/or foliage include *Cassia fistula*, *Delonix regia*, *Vernicia fordii*, *Bombax ceiba*, *Erythrina stricta*, *Mesua ferrea*, etc. are unforgettable.

**Note:** Rajiv Gandhi University is located inside the Himalaya Hotspot region for Biodiversity conservation. It is essential to prepare a detailed flora of this campus as in some part of the campus there is still patches of natural vegetation. At the same time, for plantation, local plants need to be given some priority along with their proper identity as Arunachal Pradesh is known world-wide for its extremely rich original plant diversity and still ill explored and new species are regularly recognized.



[ABHAYA PRASAD DAS]