

Appendix - I**GO. No. 121/89****Government of Kerala****Abstract**

1. Forest Department - Forest Divisions - Reorganisation of Nemmara Territorial, Palghat Special and Palghat Divisions through formation of Mannarghat, Palghat and Nemmara Divisions - Orders issued.

Forest & Wildlife (E) Department

G.O. (MS) 121/89/F&WLD Dated, Trivanduram, 28-12-1989

Read: Letters No. P4-15450/89 dated 25-7-1989 and 17-10-1989 of the Chief Conservator of Forests (Development)

ORDER

The Chief Conservator of Forests (Development) in his letters read above has proposed that the reserve forests and vested forests falling in Palghat (Territorial); Palghat Special and Nemmara divisions be amalgamated and reorganised as Divisions / Ranges with compact areas of administrative units so as to achieve the objective of bringing the forest divisions boundaries in accordance with the District / Taluk boundaries. It is also reported that the proposed reorganisation would result in the even distribution of the protection task and for better administrative convenience.

2. The details of the existing division and ranges are as follows:

Division	Range	Area (km ²)	Reserved Forest (km ²)	Vested Forest (km ²)
Nemmara	Nelliampathy	210	210	-
Palakkad	Olavakkode	138	138	-
	Mannarkkad	145	145	-
Palakkad Special	Agali	311	-	311
	Thenkara	180	-	180
Palakkad Special	Palakkad	153	-	153
	Nemmara	108	-	108

3. Government accept the proposal of Chief Conservator of Forests (Development) in total and order that the existing Palghat Territorial, Palghat Special and Nemmara Divisions be reorganised as detailed below with immediate effect.

i) Mannarkkad Division:

The jurisdiction of this division will be the whole area of Mannarkkad Taluk. This will have three ranges viz. Agali, Mannarkkad and Attappady with the extent of 11,877 ha, 13,555 ha, 22,830 ha respectively. The headquarters of Agali range will be at Kalkkandy, that of Attapady range at Mukkali and Mannarkkad range at Mannarkkad. The headquarters of the division will be at Mannarkkad.

ii) Palakkad Division:

The areas falling in Palakkad and Ottapalam Taluks will form the newly proposed Palakkad Division. There will be three ranges, viz., Olavakkode, Ottapalam and Walayar with an extent of 8400 ha, 5000 ha and 12800 ha respectively. The headquarters of the new division will be at Palakkad, that of Ottapalam range at Ottapalam, Olavakkode range at Olavakkode and Walayar range at Kanjikode.

iii) Nemmara Division:

The whole area of Alathur and Chittur Taluks will be included in this division. The headquarters of the division will be at Nemmara. There will be 3 ranges in this division, viz., Alathur with an extent of 7800 ha, with headquarters. Vadakkancherry, Kollangode comprising an area of 7000 ha with headquarters at Kollangode, and Nelliampathy with an extent of 20862 ha with headquarters at Nemmara.

iv) It is further ordered that the two posts of Rangers additionally required consequent on the reorganisation would be positioned through redeployment of the staff in Mobile Squad, Agali and Special Duty Ranger, Special Division, Palakkad.

v) The statement showing the areas of reserve forests and vested forests falling within the new divisions are appended. The boundary description of the newly reorganised divisions of Mannarkkad, Palakkad and Nemmara divisions are appended.

vi) It is also ordered that the Mobile Squad, Agali and Special Duty Ranger, Special Division, Palakkad will stand abolished with immediate effect and the Ranger in position there will be accommodated within the new Ranges in the reorganised divisions.

**By Order of the Governor,
M.S.K. RAMASWAMI,**
Agrl. Production Commissioner & Secretary (Forests)

To

The Chief conservator of Forests (Development)
(in charge of Principal Chief Conservator of Forests)

The Chief conservator of Forests (Protection), Trivandrum / Social Forestry & Projects, Trivandrum / World Food Programme, Trivandrum / Wildlife, Trivandrum/Vigilance, Trivandrum.

The Director of Public Relations for publicity.

The Superintendent of Govt. Presses, Trivandrum for publication in gazette.

The Accountant General (A&E) / (Audit), Kerala, Trivandrum.

Office of the Chief Conservator of Forests, Trivandrum

Endt. No. P4-5450/89 Dt.15-1-1990.

Copy with enclosures communicated to the Conservator of Forests Northern Circle, Kozhikode/Custodian & conservator of Forests, Vested Forests, Kozhikode/ Divl. Forest Officer, Palakkad (Territorial) Divl. Forest Officer, Nemmara / Divl. Forest Officer, Palakkad Special for necessary further action.

1. This reorganisation order shall come into force with immediate effect.
2. The newly constituted Mannarkkad forest division shall be under the control of Custodian & Conservator of Forests, Vested Forests Circle, Kozhikode.
3. All the cases relating to the vested forests of all the forests divisions in Palakkad District will be looked after by the Custodian and Conservator of Forests, Vested Forests, Kozhikode as is being done in Nilambur (North) and Nilambur (South) divisions.

Copy communicated to all conservators of Forests / Divl. Forest Officers / Asst. conservators of Forests / Wildlife Wardens for information.

Copy to 'A' section for further necessary action for getting monitor powers to Divl. Forests Officer, Mannarkkad.

Copy to Administrative Officer for necessary action.

Copy to all Branch Officers.

Statement Showing the Areas of Reserve Forests & Vested Forests

Falling in the Divisions

Division	Range	HQ	Taluk	RF	VF
Mannarkkad	Agali	Kalkandy	Mannarkkad	20998	32910
"	Attappady	Mukkali	"		
"	Mannarkkad	Mannarkkad	"		
Palakkad	Ottappalam	Ottappalam	Palakkad & Ottappalam	6500	19700
"	Olavakkode	Olavakkode	"		
"	Valayar	Kanjikode	"		
Nemmara	Alathur	Vadakkenchery	Alathur & Chittoor	14800	20862
"	Kollengode	Kollengode	"		
"	Nelliampathy	Nemmara	"		
Total (ha)				42298	73472

Mannarkkad Division:

Headquarters: Mannarkkad (Office and Headquarters to be constructed)

Mannarkkad Taluk - Area under the jurisdiction

No. 66121/B2/68/RD. – Notification Dated 6.6.1969.

Boundaries:

North: Nilgiri District (Puthur Village), Ootakkumandu Taluk

East: Coimbatore District - Avinasi Taluk and Coimbatore Taluk

South: Palakkad Taluk and Ottapalam Taluk.

West: Malappuram District - Perinthalmanna Taluk.

I. Agali Range: Headquarters - Kalkandy (Office and Quarters available)

Boundaries:

North: Starting from the point where the southern boundary of Kallamala village crosses the Mannarkkad - Anakkatty road at Mandanpotty, the northern boundary runs along the Mannarkkad - Anakkatty road till it reaches the inter-state boundary at Anakkatty.

East: From the above point where the Mannarkkad - Anakkatty road meet, the inter-state boundary at Anakkatty, the boundary runs towards south along the inter-state boundary of Kerala and Tamilnadu till the southern boundary of Sholayur village touches the inter-state boundary.

South: Starting from the above point, the southern boundary roads towards northwest direction along the southern and western boundaries of Sholayur village till it touches the southern boundary of Kallamala village to it reaches the Mannarkkad-Anakkatty road at Mandanpotty.

II. Attappady Range:

Headquarters – Mukkali (Office & Headquarters to be constructed)

Boundaries:

North: Starting from the tri-junction point of inter-state boundaries of Coimbatore, Nilgiri and Palakkad districts, the boundary runs towards west along the inter-state boundary of Kerala and Tamilnadu up to Anjinadamudi, where the

northeastern corner of Silent Valley National Park and the western boundary of Pudur village meet in the inter-state boundary.

East: The boundary starts from the starting point of the northern boundary and runs towards south along the interstate boundary up to the point where Mannarghat-Anakkatty road crosses the inter-state boundary.

South: Starting from the starting point of northern boundary of Agali range the boundary roads towards northeast direction along Mannarghat-Anakkatty road up to the end point of the eastern boundary of this range (northern boundary of Agali range).

West: Starting from the end point of northern boundary at Anjindamudi, the western boundary runs towards south along the east southern boundary of Silent valley National Park then it goes along southern boundary of Silent Valley National Park till it reaches at Aruvanpara, then it runs towards south along the inter Panchayath boundaries of Mannarghat and Agali Panchayath till it meet the Mannarghat-Anakkatty road at Mandanpotty.

III. Mannarghat Range:

Headquarters: Mannarghat (Office and Quarters available)

Boundaries.

North: Starting from the jurisdiction of Perinthalmanna taluk, Mannarghat Taluk and Eranad Taluk, the boundary runs towards east along the inter-district boundary of Malappuram and Palghat districts till it reaches the common boundary of Mannarghat I village and Padavayal village touches the inter-district boundary of Malappuram and Palghat districts and from there the boundary runs towards southeast direction along the common boundary of Mannarghat I and Padvaual villages and then along the southern boundary of Agali Panchayath till it crosses the Mannarghat Anakkatty road at Madanpotty and from there the boundary runs towards east along the southern boundary of Agali range till it touches Sholayur village boundary.

East: Starting from the end point of the northern boundary it runs towards south along the western and southern boundaries of Sholayur village till it reaches the inter-state boundary and from there the boundary runs towards south along the inter-state boundary till it reaches the point where boundaries of Palghat and Mannarghat Taluks and the Coimbatore District meet.

South: Starting from the above point, the boundary runs towards west along the inter-Taluk boundary of Palghat and Mannarghat Taluks and then continues towards west along the inter-taluk boundary of Mannarghat and Ottappalam Taluks till it reaches the southern corner of Thachanattukara II village (near Chethellur).

West: Starting from the above end point of southern boundary, the western boundary runs towards north along the inter-district boundary of Palghat and Malappuram districts up to the starting point of northern boundary.

Appendix – II**Reserve Notification**

Order No. 693, Revenue dated 13th July, 1900.

(Forest No. 144)	The draft notification is approved and will be published in the Fort: St. George and Malabar District Gazette the 1 st September, 1900 being entered as the date from which reservation shall take effect.
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(True Extract)

Sd/- G.S. FORBES
Secretary to Government

To The Board of Revenue (Land Revenue) with map.

The Superintendent, Government Press, with notification.

Endorsement No. 693-A

Copy to Government of India, Revenue and Agriculture Department.

(Signed)

N.E. MARJOBIBANKS

Government.

NOTIFICATION

His Excellency the Governor in Council is pleased to declare, under the Provisions of Section 16 of the Madras Forest Act (V of 1982), that from the 1st September 1900, the area, the boundaries of ;which are setforth in

BOARD OF REVENUE(LAND REVENUE),FOREST NO:328, 6th AUGUST 1900.

SCHEDULE

District	Taluk	Name of Forest	Boundaries
Malabar	Valavanad	Attappady valley	No.1 Block

North	Starting from the Grand Trigonometrical Survey station on the Anginde Peak on the boundary between the Nilgiri and Malabar District, forming the trijunction of the Walavand and Ernad Taluks of ;the latter and the kundath division of the former the reserve boundary passes eastward along the tops of the hills between Malabar and Nilgiries for nearly four miles to the point at which the Bhavani river crosses the Nilgiri boundary.
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East	Then turning southward it follows the right bank of the above river southward to a point thereon opposite the junction there with of the Yedanali stream draining Tayikkari Malai.
South	Thence leaving the river, it runs up west, slightly south, to the top of Komala Malai and thence in a generally westerly direction along the panakkandi Nedi or water shed to its westernmost point and hence north-westward to the north-easternmost peak of the Adu Mudi ridge, thence south-westward along the Adu Mudi ridge, by the series of peaks and saddles forming it, to the Madras triangular station on the top of Adu Mudi, thence south-east down Adu mudi slope to the elephant pit saddle and on the same direction to the top of Singal Malai, thence south to the top of Kothala Kunnu, south-west three furlongs to the northern elbow of the Karuvarai Todu about one mile west of Karuvarai Village and the same distance east slightly north of Karuvarai Mudi, thence due west-ward to the top of the eastern end of the Arayanparai Malai ridge, thence along the ridge west-ward to the top of the Arayamparai peak on the Ernad and Walavanad Taluk boundary.
West	Thence northwards along the boundary between the Ernad and Walavanad taluks to the starting point.

Block No. II

North :	Starting from the top of the Mukkali Mudi, the boundary passes north-east to the top of Vilakkottu Malai and thence due east to the top of the Tampattakally peak.
East :	Thence south-wards to the top of the Chanda Malai peaks in succession and from the last mentioned peak south, slightly west, down the slope of the latter to a point on an imaginary line drawn from Kevaralai Village to Analkatte Village a quarter mile south-east of the former village.
South :	Thence west-ward to the summit of Neyivara Malai.
West :	Thence north-wards to the top of Uppakayi Malai and then due west to the starting point.

Block No.III

North :	Starting from a point on the left bank of the Bhavani river slightly over one-fourth of a mile north of the junction of the Muriyala Nadi (Stream) with the Bhavani river, the boundary runs up the shoulder of the Pisathi or Kuppada Malai to its summit.
East :	Thence southwards to the top of the Kandra Mudi and thence south-east wards to the top of Kelaki (east) Adu Mudi Peak; thence south-westward to ;the top of Tayikkari Malai.
South :	Then down the slope of the Tayikkari Malai west-south-west to the left bank of the Bhavani river, a quarter mile north of the junction therewith of the Yedanali todu.
West :	Thence northward along the left bank of the river bank to the starting point.

Block No. IV

North :	Starting from the left bark of the Bhavani river at the Mudamanur ferry, a quarter mile south of Chindakki the boundary passes east-north east to the top of Aji Mudi and thence north-west to the top of Mallesuvaran Mudi also called Mannarkkad rock.
East :	Thence southward down the slope of the last mentioned hill to the sources of the Yellakori Nadi (stream) and thence the right Bank of that stream to a point thereon half a mile of its junction with the
	Bhavani river.
South :	Thence west-south-west to the top of Thaimbara Malai or Tenvavai Malai and on slightly more west down the western slop of that hill to the Bhavani river at the junction there with of the Thaimbara Nadi (steam).
West :	Thence northward along the left bank of the Bhavani river to the starting point at the Mudamanur ferry.

Resolutiion: Forest No. 328, dated 6th August 1900.

Communicated to the Collector of Malabar and the Conservator of Forests,
Southern Circle.

Secretary.

Sd/- Acting

Reserve Notification published in the Fort St. George Gazatte,
Part-I, dated July 8, 1912 – on page 696.

Ootacamund, June 22, 1912.

No: 314:- His Excellancy the Governor in Council is pleased to declare under the provisions of section 15 of the Madras Forest Act V of 1882, that from the 1st September, 1912 the areas, the boundaries of which are set forth in the schedule appended to this notification, shall be constituted "reserved forests".

SCHEDULE

District	Taluk	Village	Name of Block	Boundaries
Malabar	Valavanad	Attappady	Attappady Valley Block V	North: Starting from a point on the right bank of the Bhavani river where it crosses.

the Nilgiris district boundary, that boundary in an easterly direction for about 364 chains to Vellakotta peaks.

East :	Thence along the ridge to Tampattakkallu at the north east corner of Attappady valley, Block II (Reserved forest); thence the north, east and south sides of that reserve to its south-east corner; thence a straight line south east for about 53 chains to a point on the stream, nearly due north of Pullankotti malai; thence a straight line to the top of Pulankotti malai; thence a straight line south by east to Kattikadu; thence a straight line south-south-west to Oosikallu thence a straight line nearly due west to of Parambai malai; thence a straight line north-west to Adumudi on the eastern boundary of Attappadi Block III (reserved forest) thence the east, north-west and south boundaries of that reserved forest to its south east corner on Tayikkari malai; thence a straight line to the top of Malleswaran Mudi at the north-east corner of Attappady Block IV (reserved forest); thence the north, west an south boundaries of that reserve
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	to its south-east corner on the Vellakarainadi (stream); thence that stream to its junction with the Bhavani river, thence a straight line due south across the Bhavani river to a point on its right bank.
South	Thence the right bank of the Bhavani river in a south-westerly direction for about 182 chains.
West	Thence the right back of the Bhavani river in a northerly direction to the starting point of the northern boundary.

District	Taluk	Village	Block Name
Malabar	Walavanad	Attappadi	Attappady Valley Block VI

BOUNDARIES:

North :	Starting for a cairn on the top of Periya Amanthan Malai, a straight line north-east for about 170 chains to a cairn on the top of Paramalai; thence a straight line south-east for about 155 chains to the top of Sulla malai, thence a straight line north-east for about 150 chains in a straight line between the top of Kangaraman mudi and Tumbi Malai; thence a straight line east south-east for about 90 chains to a cairn on the top of Tumbi Malai on the Coimbatore district boundary.
East :	Thence the Coimbatore district boundary in a southerly direction to the top of Periyakunjara malai.
South :	Thence the water shed in a north-westerly direction to the top of Elival malai and Iyyappa Mudi to Padiyamugam malai.
West :	Thence the water shed in a northerly direction to the starting point.

L.M. WYNCH,
Ag. Secretary to Government.

Reserve Notification published in the Fort, St. George Gazatee, Part-I,
dated 7th August 1906 - Page 831.

NOTIFICATIONS

Ootacamun, July 27, 1908

No. 338 His Excellancy of the Governor in Council is pleased to declare under the provisions of section 16 of the Madras Forest Act (V of 1882), that from 15th October 1906, the area, the boundaries of which are set forth in the schedule below, shall be constituted a " Reserved Forest "

SCHEDULE

District	Taluk	Village	Name of Block	Boundaries
Malabar	Valavanad	Tiruvalamkunnu	Panakkadan	Comprises the whole of Survey No.238 of Tiruvalamkunnu desom.

REMARKS : Admitted rights - Nil

A.G. Kardew

AG Secretary to Government

Reserve Notification No. 61, published in the Fort St. George Gazette,
dated February 19, 1918 in page 146 Part I.

Fort St. George, February 11, 1918.

No. 61:- His Excellency the Governor in Council declares, under the provisions of section 16 of the Madras Forest Act of 1882, that the area the boundaries of which are set forth in the schedule below shall be constituted " Reserved Forest " with effect from 1st April, 1918.

SCHEDULE

District	Taluk	Village	Name of Block	Boundaries
Malabar	Walavanad	Kottapadam amsam, Kandamangalam desam	Panakkadan addition I	There are a comprises the whole of Survey No.12 of Kandamangalam desam and is bounded on the north, east and south by survey No.10 of Kandamangalam and on the west by the reserve boundary of the Panakkadan reserve.

REMARKS

The following public right of way will be admitted through the reserve path ten yards wide open to men and cattle: - Starting from the north-west corner of the addition the path runs along its northern boundary to its north-east corner; thence the path runs south-west through the addition for about five chains till it meets the rock on the eastern boundary of the addition; thence it runs along the said eastern boundary crossing a thode to the southern corner of the addition.

A.R. KNAPP

AG Secretary to Government

THE FORT ST.GEORGE GAZETTE

PUBLISHED BY AUTHORITY

No. 38, Madras, Tuesday Evening, September 24, 1918 Price 1a.6p

PART I – NOTIFICATIONS BY GOVERNMENT

REVENUE (SPECIAL) DEPARTMENT

Page.No.980.

No. 59 :- His Excellency the Governor in Council declares under the provisions of Section 16 of the Madras Forest Act of 1882 that the area, the boundaries of which are set forth in the Schedule below shall be constituted "Reserve Forest" under the Act with effect from 15th November, 1918.

District	Taluk	Amsam and Desam	Name of Block	Boundaries
Malabar	Walavanad	Thiruvizhamkunnu	Kottanikunnu	The Reserve comprises the whole of survey no.167 of Thiruvizhamkunnu amsam and desam, Walavanad taluk.

Remarks-1 : The following public rights of way will be admitted through the reserve:- They are open to the public and cattle under control.

1. A path of uniform width of 10 yards beginning at the trijunction stone of Sl.Nos.147,150 and 167 and running round the edge of the reserve back to this trijunction stone.
 2. A path of a uniform width of 10 yards from the northern tip of Sl.No.166 to a rough water channel which begins some five chains north of the tip and thence along the line of this channel to the southern extremity of S.Y. 168.
- II. The existing water channel running from the reserve to the adjoining lands and the channels which feed it will not be disturbed.

A.R. KNAPP

AG Secretary to Government

Amsom and desom Kottoppadam
 Sy.No. 76/1
 Extent 11.65 acres.

Boundaries: North Sy.No.29, Thiruvizhamkunnu, East Sy.No.9 and 11, South Sy.No.11, West Sy.No.76/2.

III

District Palgaht
 Taluk Mannarkkad
 Amsom and desom Kottoppadam
 Sy.No. 76/2.
 Extent 1.91 acres.

Boundaries: North Sy.No.29 of Thiruvizhamkunnu, East Sy.No. 76/1, South Sy.No.11, West Sy.No. 77.

IV

District Palgaht
 Taluk Mannarkkad
 Amsom and desom Kandamangalam-Desom
 Sy.No. 12/1.
 Extent 1.29 acres.

Boundaries:- North Sy.No.10, East Sy.No. 10, South Sy.No.10 and 11, West Sy.no.29, Thiruvizhamkunnu.

V

District Palgaht
 Taluk Mannarkkad
 Amsom and desom Kottoppadam
 Sy.No. 10/2.
 Extent 0.84 acres.

Boundaries: North Thiruvizhamkunnu Desom, East Sy.No. 76 of Kottoppadam, South Sy.Nos. 12, 14 and 78, West Bheemanad Village.

EXPLANATORY NOTE

Land registered as Government lands in the village accounts with Sy.Nos. 75,76/1,2 and 77 of Kottoppadam and 10/2 and 12/1 of Kandamangalam Desom of Mananrkad Taluk, in Palgaht District are not at present reserved forests. There are a good number of trees in the area and it is not safe to entrust them with the village staff for the upkeep and maintenance of the forest areas, as it will be difficult for them to guard the trees from theft. This area is lying adjacent to the reserved forest and is fit for declaration as reserved forest. The area has been got durably demarcated with survey stones and that there are no encroachments or unauthorised occupation in the area. Government feel that in the interest of the safety of the land, the area should be transferred to the forest department and declared as reserved forest. Hence the need for this notification.

By Order of the Governor,

K.K.GOPALAKRISHNAN,
Joint Secretary

GOVERNMENT OF KERALA**AGRICULTURE (FOREST GENERAL) DEPARTMENT**

G.O.MS.No. 204/75/AD

Trivandrum, dated 30-6-1975

ERRATUM NOTIFICATION

S.R.O. No. in the notification issued under G.O.MSNo. 404/72/Agri, dated the 28th November 1972 published in part I of the Kerala Gazette dated 19th December, 1972.

- i) in Schedule I, II, III and IV for " Sy.No. 29, Thiruvizhamkunnu Road, Desom No.29, Thiruvizhamkunnu and,
- ii) in Schedule V for the Sy.No. **10/2** read **12/2** and boundary " west 29 Thiruvizhamkunnu".

By Order of the Governor,

Sd/-

K.K. GOPALAN,
Deputy Secretary to Government.

Kerala Gazette No. 13 dt: 4th April 1967.
Part- I

GOVERNMENT OF KERALA
Agriculture and Rural Development Department
(Agriculture Forest Estt.)

NOTIFICATION

No.27444/FE2/65/AD.

Dated Trivandrum 20th March, 1967.

In exercise of the powers conferred by Section 4 of the Kerala Forest Act 1961 (Act 4 of 1962) the Government of Kerala hereby declare that it is proposed to constitute the lands, the situation and limits of which are specified in the schedule below as a reserved forest and appoint:-

- i) the District Collector, Palghat as the Forest Settlement Officer to enquire into and determine the existence, nature and extent of any rights claimed by or alleged to exist in favour of any person in or over any land comprised within the limits of the proposed reserved forest or to any forest produce of such land and to deal with the same as provided ;in the Act;
- ii) the Divisional Forest Officer, Palghat to attend on behalf of the Government, the enquiry prescribedunder Chapter II of the said Act.

SCHEDULE

I

Name of block	-	Panakkadan extension I (Kanhirkunnu)
District	-	Palghat
Taluk	-	Perinthalmanna.
Amsom	-	Thiruvizhamkunnu.
Sy.No.	-	71/1 B
Extent	-	134 acres and 84 cents (54.57 Ha)

BOUNDARIES:-

North :	Sy.No.62,63,71/1A,66,71/3,71/12,69,71/1G,70,71/1H,70,71/11,72,73, 74, 71/1J, 71/1K, 258,259,260,261 and 75.
East :	Sy.No. 236 (1963 Teak R.A.)
South :	Village No. 26 Kottoppadam, Village No.25- Bheemnad, Sy.No.10,11,71/5, 71/10, 71/2,244,71/1F, 71/9, 71/8, 71/1B, 71/1 E, 71/1D,15, 251, 71/1C, and 252
West :	71/6A1

II

Name of block	-	Panakkadan Extention II(Mulaguvallam)
District	-	Palghat.
Taluk	-	Perinthalmanna.
Amsom	-	Thiruvizhamkunnu
Sy.No.	-	114 A/1B
Extent	-	141 acres and 02 cents (57.07 hectares)

BOUNDARIES:

North :	Sy.No.147, 146,149,148, 114A/1J, 149, 114B,114A/1K, 150 and 151.
East :	Sy.No.114A/2A1A, 114 A/2A1B, 114/A/2A1C.
South :	Sy.No.114A/1K, 105,104, 114A/II, 103, 114A/1H, 114/1G, 102, 114A/1F, 254 and 44
West :	Sy.No. 115, 116, 114A/1E, 117, 114A/1D, 274, 114A/1C, 118, and 114A/IA

1961 ലെ കേരള വനം ആക്റ്റ് (1962 ലെ 4-ാം ആക്റ്റ്) 4-ാം വകുപ്പുമുലം നൽകപ്പെട്ട അധികാരങ്ങൾ വിനിയോഗിച്ച് കേരള ഗവൺമെന്റ് താഴെ പട്ടികയിൽ വിവരിക്കുന്ന സ്ഥലങ്ങളിലുള്ളതും, എല്ലുകകളിൽപ്പെട്ടതുമായ ഭൂമികൾ റിസർവ്വ് വനമാക്കുന്നതിന് ഉദ്ദേശിച്ചിരിക്കുന്നതായി ഇതിനാൽ പ്രഖ്യാപിക്കുകയും, താഴെ പറയുന്ന ഉദ്ദേശാഗ്രഹമായെന്നു, അതായൽ:-

1) പാലക്കാട് ജില്ലാ കളക്ടറു റിസർവ്വ് വനമാക്കുന്നതിന് ഉദ്ദേശിക്കപ്പെട്ടിട്ടുള്ള സ്ഥല പരിധിക്കുത്തുള്ള ഏതെങ്കിലും ഭൂമിയിലോ, അല്ലെങ്കിൽ ഭൂമി സംബന്ധിച്ചോ, അല്ലെങ്കിൽ അങ്ങിനെയുള്ള ഭൂമിയിലെ ഏതെങ്കിലും വനവിവേതത്തിലോ, ഏതെങ്കിലും ആൻഡ് തേർച്ച ചെയ്യുന്നതോ, അല്ലെങ്കിൽ അയാൾക്കുണ്ടെന്ന് പറയപ്പെടുന്നതോ, ആയ ഏതൊരുവകാശത്തിന്റെയും, നിലനിൽപ്പും സ്വാംവാവും വ്യാപ്തിയും സംബന്ധിച്ച് അനേകണാം വിചാരണ നടത്തുകയും, തിരുമാനമെടുക്കുകയും ചെയ്യുന്നതിനും ഈ ആക്റ്റിൽ വ്യവസ്ഥ ചെയ്തിരിക്കുന്ന പ്രകാരം, അത് കൈകാര്യം ചെയ്യുന്നതിനും വേണ്ടി ഫോറസ്റ്റ് സെറ്റിൽമെന്റ് ഓഫീസറായും -

2) പാലക്കാട് ഡിവിഷണൽ ഫോറസ്റ്റാഫീസറ, പ്രസ്തുത ആക്റ്റ് 2-ാം അദ്യായ പ്രകാരം നിർണ്ണയിച്ചിട്ടുള്ള അനേകണാം വിചാരണയിൽ ഗവൺമെന്റിനു വേണ്ടി സംബന്ധിക്കുന്നതിനും, നിയമിക്കുകയും ചെയ്തിരിക്കുന്നു.

പട്ടിക

I

മേഖലിന്റെ പേര് കുന്ന്	-	പാണക്കാടൻ എക്സ്പ്രസ് (കാണ്ണിരം)
ജില്ലാ	-	പാലക്കാട്.
താലുക്ക്	-	പെരിന്തൽമല്ല
അംശം	-	തിരുവിഴാംകുന്ന്
സർവ്വ നമ്പർ	-	71/ 1 ബി.
പിസ്തീർണ്ണം	-	134 എക്കർ 84 സെറ്റ് (54.57 മൊക്കർ)
എല്ലുകകൾ -		

വടക്ക്	62,63,71/1A,66,71/3/71/12/69,71/1G, 70, 71/1 H, 70, 71/1I, 72, 73, 74, 71/1J, 71/1K, 258, 259, 260,261,75.
കീഴക്ക്	Sy.No. 236 (1968 തേക്കു തോട്ടം)
തെക്ക്	വില്ലേജ് നമ്പർ 26, കോട്ടാപ്പാടം, വില്ലേജ് നമ്പർ 26 ഭീമനാട്, സർവ്വ നമ്പർ 10, 11, 71/5,71/10, 71/2, 244,71/1F,71/9, 71/8,

പട്ടിഞ്ഞാർ	71/1 B, 71/1D സർവ്വേ നമ്പർ 71/ 6 എ) 1.	71/1 D, 15, 251, 71/1 C, 252
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II

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| ഫ്ലോക്കില്ലെങ്കിൽ പേര്
(ഉള്ളം) | - പാണാക്കംടൻ എക്സ്പ്രസ് 2 (മുളകുവ |
| ജില്ലാ | - പാലക്കാർ. |
| താലുക്ക് | - പെരിന്തൽമല്ല |
| അംഗം | - തിരുവിഴാംകുന്ന് |
| സർവ്വേ നമ്പർ | - 114 A/1 B |
| വിസ്തീർണ്ണം | - 141 എക്കർ 02 സെന്റ് (57.07 ഹെക്ടർ) |
| എല്ലുകകൾ - | |

വടക്ക്	സർവ്വേ നമ്പർ 147, 146, 149, 148, 114A/1J, 149, 114B, 114A/1K, 150, 151
കീഴക്ക്	Sy.No. 114A/2A 1A, 114A/2A1B, 114A/2A 1C
തെക്ക്	സർവ്വേ നമ്പർ 114A/1KI, 105, 104, 114A/1I, 103, 114A/1H, 114A/1G, 102, 114A/1F, 254, 44.
പട്ടിഞ്ഞാർ	സർവ്വേ നമ്പർ 115, 116, 114A/1E, 117, 114A/1D, 274, 114A/1C, 118, 114A/1A

By Order of the Governor,

T.R. SUKUMARAN NAIR,
Joint Secretary

Appendix – III**List of Vested Forest in Mannarkkad Forest Division**

Sl. No	Item No	Village	Range	SY. Nos	Location	Station	Extent in ha		
							Notification No & Date 1383/77 dt. 29/7/1977	Notification No & Date 1383/77 dt. 18/3/1978	Notification No & Date 1383/77 dt. 10/10/1979
1	1	Mannarkkad	Mannarkkad	185 pt.	Thathengalam Malavaram	Anamooli			839.00
2	2	Mannarkkad & Agali	Mannarkkad	1959 pt., 316 pt. 317 pt.	Paruthimala II, Mezhukumpara Malavaram	Anamooli		1651.57	
3	2&4 2	Mannarkkad, II Agali	Mannarkkad	(2.)1959 pt.(42) Agali 1959 Pt. 316 Pt., 317 Pt.	Paruthimala	Anamooli			400.00
4	3&4	Agali	Mannarkkad	1960 pt., 2006 pt., 129/9A, 119/P., 1299 A, B/P	Mozhukumpara & Aanamooli Malavaram	Anamooli			1051.00 188.00
5	4	Agali/ Mannarkkad II	Mannarkkad	1961 pt., 2006 pt., 129/9A, 119/P., 129/9.1 A,1 B pt.	Anamooli Malavaram	Anamooli		528.99	
6	5	Mannarkkad	Mannarkkad	2010, 2017, 2011, 2012, 2013 to 2015, 2016	Urulankunnu	Anamooli			826.98
7	6	Mannarkkad	Mannarkkad	2319/P, 2277/P, 2283/P, 2284/P, 2285/P, 2279/P, 2280/P, 2282/P, 2286/2P, 2887/1P, 105/5P	Kalladikodan Malavaram	Palakkayam			1940.00
8	7	Mannarkkad	Mannarkkad	Bit I- 2254/P, 2259/P, 2261/P Bit II- 2261/P	Karimba Malavaram	Palakkayam			40.00
9	8&9	Mannarkkad	Mannarkkad	2268/P, 2314/P, 2262/P, 2271/P	Meenvallam & Karimba	Palakkayam			200.00+ 600.00
10	10& 12	Mannarkkad	Mannarkkad	2210/P, 2211/P, 2214/P, 2220/P to 2223/2P, 2225/P, 2226/P, 2216/P	Chullippara & Vakkodan	Palakkayam			40.00
11	11	Mannarkkad	Mannarkkad	2121/P, 2126/P, 2150/2P, 3P, 2151/P, 2P, 2152/P, 2153/P, 2154/P, 2155/P, 2156/P, 2157/P, 2292/P, 2293/P, 2296/P, 2298/P, 2301/P, 2302/P, 2306/P, 2308/P, 2309/P, 2313/P, 2019/P	Mundanad Bit II				2400.00
12	13	Mannarkkad	Mannarkkad	2080/P	Vettilachola				800.00
13	14	Mannarkkad& Agali	Mannarkkad	2020/P, 2021/P, 2051/P, 2052/P, 2060/1P, 2P, 2072/P, 2073/P, 2074/P, 2077/P, 2062/P, 2075/P, 2053/P, 2058/P, 2059/P, 2068/P, 2069/P, 2071/P	Anakkaranam				200.00

Sl. No	Item No	Village	Range	SY. Nos	Location	Station	Extent in ha		
							Notification No & Date 1383/77 dt. 29/7/1977	Notification No & Date 1383/77 dt. 18/3/1978	Notification No & Date 1383/77 dt. 10/10/1979
14	15	Agali & Pottassery	Mannarkkad	2050 Agali Pt., 182/Pt., Pottassery 80 C1 4	Kundanatty			43.78	
15		Agali & Pottassery	Mannarkkad	2051 Agali Pt., 182/Pt., Pottassery 30 C1	Kundanatty				60.00
16	16	Agali	Mannarkkad	2048 Pt., 2049 Pt.	Koonal	Anamooli		160.00	
17		Agali	Mannarkkad	2049/P, 2048/P	Koonal Malavaram	Anamooli			160.00
18	17	1 Kottopadam I Thiruvizhamkunnu	Mannarkkad	235/P	Kelaloor	Thiruvizham Kunnu			
19		2 Kottoapadan III Kadamangalam	Mannarkkad	51 F, G, H, E, C, A/Pt., B, Pt.	Kelaloor	Thiruvizham Kunnu			560.00
20		3 Kumaramputhur Payyanadam	Mannarkkad	1 Pt.	Kelaloor	Thiruvizham Kunnu			
21	18	Kolpadam I & III Thiruvizhamkunnu & Kadamangalam	Mannarkkad	235/P, 51/B.P	Pothoppadam	Thiruvizham Kunnu			680.00
22	19	Kumarampuhtur	Mannarkkad	1/P	Karappadam	Thiruvizham Kunnu			323.00
23	20	Agali	Mannarkkad	23 Pt., 1957 Pt. And 1958	Mukkali Vengamala	Attapadi	1200.00		
24		Agali	Mannarkkad	1957/P, 1958, 23/1P, 23/2P, 3P	Mukkali Vengamala	Attapadi			1200.00
25	22 & 103	Agali	Agali	94/P, 128/P, 158/P, 159/2P, 161/1P, 162/P, 163/2P, 164/3P, 1769/1B2, 4P, 5, 6, 1771/2P, 3/P, 4P, 1809/1P, 1911/P, 1912/P, 1841/P, 1770/1P, 2P, 3P, 4P, 1767/3P, 1768/2P, 1823/1P, 2P	Kallamala	Ommala			100.00
26	26	Sholayur	Agali	1819/P, 1820, 1271/P, 478/P, 500/P, 471/P, 1264/P	Thoova	Sholayur	770.00		
27		Sholayur	Agali	1819 Pt., 1271 Pt., 500 Pt., 478 Pt., 471 Pt., 1820 Pt., 1264 Pt.	Thoova Malavaram	Sholayur			770.00
28	27 & 28	Pudur	Attappady	1/P, 3/P, 4/1, 2P, 5/P, 6/P, 7, 9, 10/P, 14,15,17/1,3P, 18/1P, 21/P, 223/P, 23/1, 2, 3P, 30/P, 33/P, 34/1, 2P, 35/1, 2P, 36/1P, 38/P, 39/1P, 41/P, 51/1, 2, 3P, 52/2, 3P, 77/1P, 78/1, 2, 3, 4, Pts, 79/1 to 4Pts., 80/1 to 4 Pts, 81/1, 3P, 82/1P, 84/P, 85/P, 86/P, 87/P, 88/P, 90/P, 93/3P, 101/3P, 109/3P, 116/1, 2, 3P, 117/1, 2P, 118/1,2,3,4P, 119/1, 6, 7P, 5, 120/2A, 2B, 3P,4P,5P,121/P, 122/Pt, 123/P, 149/1,2,3P, 150,151/1, TO 5P, 152/1,2P, 153/1,P,2P,3P, 154/1P,2P, 156/P,166/3P, 167/2P, 1P, 168/P, 172/3P, 4P, 174/1P, 2P, 175/1P,2P,4P, 177/1P, 178/P, 179/P, 180/P, 188/3P, 192/2P, 198/1P, 199/P, 200/3P,4P, 202/P, 203/1P,2P,3P, 204/1P,2P, 205,206/2P, 208/1P, 210/P,	Aralikonam & Kinnakara	Pudur			8034.00

Sl. No	Item No	Village	Range	SY. Nos	Location	Station	Extent in ha		
							Notification No & Date 1383/77 dt. 29/7/1977	Notification No & Date 1383/77 dt. 18/3/1978	Notification No & Date 1383/77 dt. 10/10/1979
				222/1P, 223 to 226, 227/P, 228/P, 230/1P, 2P, 3P, 231, 232, 233, 234./2P, 235/1P, 2P, 3P, 5P, 6P, 236/P, 237, 238/P, 239/1P, 240/P, 242/P, 257/P, 258/P, 259, 260, 261/P, 262/P, 263/P, 264 to 266, 268/P, 217/P, 323/0, 326/1P, 2P, 349/1P, 350/P, 351/P, 352/P, 353/2P, 355/1P, 356/P, 357/P, 464/2P, 465/P, 467/2P, 468/P, 469/P, 475/P, 491/P, 730/P, 731/1P, 3P, 5P, 732/1P, 734/1P, 735/1P, 2P, 736/1P, 2P, 737/3P, 747/P, 756/P, 757/P, 758/P, 761/P, 763/5P, 764/4P, 5P, 769/2P, 771/P, 774/P, 777/1P, 782/P, 783/P, 786/P, 788/P, 790/P, 810.P, 811/1P, 2P, 873/1P, 2P, 874/1P, 877/P, 879/P, 906/P, 908/P, 909/1P, 2P, 915/P, 928/1P, 932/P, 933/1P, 934/1P, 935/1P, 2P, 936/1P, 2P, 3P, 938/P, 939/1P, 2P, 940/P, 943/3P, 949/3P, 4P, 950/3P, 951, 952/1P, 2P, 971/P, 972/1P, 3P, 980/P, 988/P, 1001/1P, 2P, 1003/2P, 1004/1P, 2P, 1007/P, 1011/2P, 1012/1P, 1014/P, 1015/2P, 1021/2P, 1022/1P, 1023/2P, 1045/1P, 2P, 1051/P, 1052/2P, 1069/1P, 3P, 1075/1P, 1078/P, 1082/2P, 1109/2P, 1113/1P, 1114/2P, 1125/, 1126/P, 1127/P, 1128/P, 1129/P, 1130/P, 1131/, 1132/, 1133/P, 1134/P, 1135, 1150, 1171/P, 1174/P, 1191/2P, 3P, 1192/2P, 1193, 1194/P, 1195, 1196, 1197, 1199/1P, 1200/2P, 6P, 1203/3P, 1209/1P, 9, 1211/1, 1212, 1213/2, 1222/P, 1223, 1224, 1225, 1226/P, 1229, 1234/P, 1249/1, 3, 1251/1P, 2P, 1006/P, 541/P, 544/P, 563/P, 564/1P, 2P, 570/P, 571/P, 572, 573, 574, 575/4P, 1, 2, 576/P, 577/P, 578/P, 579/P, 580/1, 606/1P, 641/1P, 2P.					
29	38	Mannarkkad I	Mannarkkad	185, 168P and 167P	Thattenkulam	Anamooli			200.00
30	39	Karakurussy	Mannarkkad	77P, 86P, 175AP	Pazhayakadu	Palakkayam			76.67
31	40	Karakurussy	Mannarkkad	156/15Pt., 16Pt., /1B Pt., 1C Pt.	Ayyappanmala	Palakkayam		13.04	
32		Karakurussy	Mannarkkad	156/15Pt., 16Pt., /1B Pt., 1C Pt.	Ayyappanmala	Palakkayam		13.04	
33	41	Pottassery I & II	Mannarkkad	11/1P, 2P, 16/2P, 1P, 15/1AP, 1BP, 2/1P, 6P, 2, 3P, 11/4P, 9/26A, 3P, 10P, 11/2B, 208/6P	Kondakkamala	Anamooli		47.82	47.83
34	43	Agali	Mannarkkad	2/2P, 20/1CP, 2081/P	Inchikunnu	Anamooli			428.00
35	44	Agali	Mannarkkad	2089/P, 2090/P, 2091/P, 2097/P, 2080/P	Cheriya Inchikunnu	Anamooli			40.00
36	45	Agali	Mannarkkad	2044Pt., 2045Pt. 2044 Pt., 2045Pt.	Mankada Malavaram			43.75+ 23.96	
37		Agali	Mannarkkad	2044/P, 2045/P	Mankada Malavaram				120.00
38	46	Thachanattukara II	Mannarkkad	6/1Pt., 2, 3Pt, 4Pt, 5Pt, 6Pt, 8Pt, 311/7Pt, 5/1Pt, 9/9Pt.	Neelankadu @ Thodukappu kunnu			3.80	

Sl. No	Item No	Village	Range	SY. Nos	Location	Station	Extent in ha		
							Notification No & Date 1383/77 dt. 29/7/1977	Notification No & Date 1383/77 dt. 18/3/1978	Notification No & Date 1383/77 dt. 10/10/1979
					Bit II				
39		1 Thachanattukara II	Mannarkkad	6/1P,2,3P,4P,5P,6P,8P, 311/7P,5/1P, 9/9P	Thodukappukunnu				29.32
40	49	Kumaramputhur	Mannarkkad	80/1P,9/1A1P,2AP,3BP,5P,7P,8P,16AP,9/17, 132/1D, 133/3P,4AP	Maruthumkadu				30.90
41	51	Mannarkkad II	Mannarkkad	168/1P	Neelankadu Paramba				4.00
42	80	Karimpuzha II & Karakurussi		Pombra Desom: 37/3C Pt,4Pt,3APt,3B Pt,2Pt, 39/1Pt,2Pt,5Pt,6Pt, 25/1Pt,2Pt, 29/1Pt, 50/1B Pt,2APt,2B Pt. Panthyiyampuram Desom: 41/4Pt,1Pt, 42Pt Elumbalassery Desom: 57/A1A1APt, 57/1A1A1DPt, 57/1A1CPt, 57/1A1B Pt, 57/7B Pt, 177/1Pt, 174/1Pt	Pombramala Bit I			160.8532	
43	92	Alanallur II	Mannarkkad	1/1P	Uppukulam	Thiruvizham Kunnu			630.25
44	93	Sholayur	Agali	1745, 1747 Pts	Varagampadi Mala		5.00		
45	94	Sholayur	Agali	1628/2P	Pathekkal				26.71
46	95	Sholayur	Agali	Bit I: 881/2P,3P, 891/1P Bit II: 890/6P Bit III: 890/6P	Chundakulam				36.00
47	96	Sholayur	Agali	311/1P, 312/1P, 303/1P,2P, 304/2P,4P, 305/1P,2P, 306/P, 307/3P, 353 To 355, 356/P, 363/1P,2P, 364, 365/1P, 361/1P, 367/P, 398/2P, 400/2P, 404/P, 405/1P,2P, 427/P, 428/1P, 435/2P,5P, 436/1P,2P,4P, 439/1P, 516/1P, 523/1P,2P, 524/P, 544/P, 545/4P,5P, 567/2P, 587/1P, 522/3P, 630/1P,2P, 631/1P & 1144/1P,1145/P	Vatlukki Anakkatti	Sholayur			1300.00
48		Sholayur	Agali	303 to 307, 311, 363, 312 Pts, 353, 354, 355, 364, 365, 366, 356, 367, 398, 400, 404, 405, 427, 428, 435, 436, 439, 516, 523, 524, 544, 545, 567, 587, 622,630, 631, 1144, 1145 Pts.	Vetulukki Anakkatti	Sholayur	1300.00		
49	97	Sholayur	Agali	1686/P, 1687	Koravanpadi	Sholayur			130.00
50	98	Sholayur	Agali	1734, 1735, 1736, 1742 and excluded tracts (parts)	Varadimala	Sholayur		237.50	
51	98 & 100	Sholayur	Agali	1734, 1735, 1740/p, 1742 and excluded tracts (parts)	Varadimala &	Sholayur			428
52	99	Sholayur	Agali	1564 Pt	Vayloor	Sholayur	3.50		

Sl. No	Item No	Village	Range	SY. Nos	Location	Station	Extent in ha		
							Notification No & Date 1383/77 dt. 29/7/1977	Notification No & Date 1383/77 dt. 18/3/1978	Notification No & Date 1383/77 dt. 10/10/1979
53		Sholayur	Agali	1564/2P, 3P	Vayloor	Sholayur			3.50
54	101	Sholayur	Agali	1663 Pt	Vakakad	Sholayur	27.75		
55			Agali	1663/P	Vakakad	Sholayur			27.25
56	102	Sholayur	Agali	1Pt, 4Pt, 12, 44Pt.	Karuvara - Chindakki		875.00		
57			Agali	11/P, 4P, 12, 44/P	Karuvara - Chindakki				875.00
58	104	Agali	Agali	1936 Pt	Kakkupadi	Ommala	32.60		
59		1	Agali	Bit I: 1936/P Bit II: 1936/P	Kakkupadi	Ommala			16.8+ 15.8
60	105	Agali	Agali	174 Pt.	Pakkulam Kandiyoor	Ommala	4.75		
61	105 & 107	Agali	Agali	Bit I: 174/P Bit II: 174/P	Pakkulam Kandiyoor				1.75 4.75
62	106	Agali	Agali	218, 219, 242, 1763, 1782, 1841 Pts.	Kandiyur	Ommala	33.25		
63		Agali	Agali	1841/P, 219/1P, 2P, 242/2, 4, 5, 218/2P, 1763/2, 1782/2P, 1P	Kandiyur	Ommala			33.25
64	107	Agali	Agali	174 Pt.	Pakkulam Bit I	Ommala	1.75		
65	108	Agali	Agali	1025, 1026, 1027 Pt.	Thachamala	Ommala	46.00		
66		Agali	Agali	1025/P, 1026/P, 1027 /P.	Thachamala	Ommala			46.00
67	109	Agali	Agali	862, 863, 867, 868, 873, 874, 877, 878, 882, 883, 884, 893, 894, 1063, 1064, 1065, 1066, 1067, 1089, 1090, 1091, 1092, 1093, 1111, 1113, 1114, 1115, 1117, 1121 Pts., & 1112, 1115	Nakkupathy	Ommala	84.00		
68		Agali	Agali	1121/P, 1067, 862/P, 863/P, 867/P, 868/P, 873/P, 874/P, 877/1P, 878, 882, 823/2P, 884, 893/P, 894/1P, 1063 TO 1066, 885/P, 1090 To 1093, 1111/P To 1115/P and 1117/P, 1067/P, 1089/1P, 2P, 3P, 4P	Nakkupathy	Ommala			84.00
69	(a) 110	Agali	Agali	1289, 1288, 1285, 1286, 1287, 1354, 1376, 1375, 1378, 1377, 1290, 1291, 1353, 1352, 1294, 1295, 1293, 1292, 1305, 1306, 1307, 1355, 1376, 1379 Pts.	Nellipathy mala (Pothuppady)	Ommala	205.00		

Sl. No	Item No	Village	Range	SY. Nos	Location	Station	Extent in ha		
							Notification No & Date 1383/77 dt. 29/7/1977	Notification No & Date 1383/77 dt. 18/3/1978	Notification No & Date 1383/77 dt. 10/10/1979
70	(b) 110 II	Agali	Agali	1335, 2019 Pts.	Nellipathy mala (Pothuppady Co- Op. Farm)	Ommala	398.78		
71	110	Agali	Agali	1335/P, 2019/P	Nellipathy mala (Pothuppady Farm)	Ommala			603.75
72	111	Agali	Agali	1054, 1056, 1074, 1075, 1172, 1173, 1175, 1176, 1205, 1206, 1297, 1706, 1707, 1708 Pts.	Goolikadavu	Ommala	76.20		
73		Agali	Agali	1054/P, 1074/P, 1075/P, 1056, 1204/P, 1708/P, 1172/P, 1173/P, 1175/P, 1176/P, 1205/P, 1206/P6, 1697/P, 1706, 1707, 1709/P	Goolikadavu	Ommala			76.20
74	112	Sholayur	Agali	164, 206, 180, 208, 252, 253, 524, 588, 589, 590, 613, 617, 618, 619, 620, 621, 624, 625, 636, 638, 639, 634, 673, 674, 675, 676, 647 Pts.	Kottathara	Sholayur	305.00		
75		Sholayur	Agali	620/P, 253, 639, 164, 206/P, 180, 208/P, 252, 254/P, 253/P, 588, 589/P, 590/P, 613/P, 617/P, 618/P, 619, 624P, 625, 636, 638, 634/P, 673, 674 to 676/P, 647/P, 650/1P, 2P	Kottathara Mala	Sholayur			305.00
76	113	Sholayur	Agali	633, 634, 815, 631 Pts.	Puliyapathy	Sholayur	19.00		
77				633, 634, 815, 631/P	Puliyampathimala				19.00
78	114	Sholayur	Agali	762, 823 Pts.	Pavakkan malavaram	Sholayur	18.00		
79			Agali	762, 823/1P, 3P	Pavakka mala	Sholayur			18.00
80	115	Sholayur	Agali	1267, 1275 Parts	Bommamudi	Sholayur	15.50		
81			Agali	1275, 1267/Pts.	Bommamudi	Sholayur			15.50
82	116	Sholayur	Attappady	666, 667 Parts	Kallakara	Sholayur	12.00		
83		Sholayur	Attappady	666, 667 P	Kallakara				12.00
84	117	Sholayur	Attappady	209, 201, 210, 248, 249, 256, 211 Pts.	Mattoothykadu	Sholayur	25.00		

Sl. No	Item No	Village	Range	SY. Nos	Location	Station	Extent in ha		
							Notification No & Date 1383/77 dt. 29/7/1977	Notification No & Date 1383/77 dt. 18/3/1978	Notification No & Date 1383/77 dt. 10/10/1979
85		Sholayur	Attappady	209, 210/2P, 201/5,6, 248/1P,2P, 249/1P,2P,3, 256/1P, 211/P	Mattathikadu Malavaram	Sholayur			25.00
86		Sholayur	Attappady	762, 682, 688, 690, 700, 701 to 704, 725, 726, 747, 748, 749, 751, 752, 756, 765, 766, 768, 769, 773, 774, 794, 797, 799, 800, 810, 819, 836, 837, 842, 850, 851, 882, 884, 885, 1015, 1134, 1136, 1138, 1139, 1140, 637, 689, 753, 763, 764, 790, 795, 809, 844, 845, 848, 890 Pts., 812	Veetikundu Kottamala Chavadiyur	Sholayur	1025.00		
87	118	Sholayur	Attappady	637/P, 682/1P,2,3P,4P,5P, 688/P, 689, 690/P, 700/P, 701/1P,2P, 702/1P,2P, 703/1P,2P, 704/1P, 725/1P,2P,3P, 726/3P,4P, 747/2P, 748/P, 749/1P,2, 751/1P,2P, 752/1P,2P, 753/1P, 756/3P,4P,6P, 762/P, 763/1P,2P,3P, 764/2P, 765/P, 766/3P, 768/3P,4P, 769/P, 771/1P,2P, 774/P,2, 790/2P, 794/2P, 795/1P, 797/2P, 798/P, 800/4P, 809/P, 810/P, 812, 819/P, 836/1P,2, 837/3P, 842/4, 844/P, 845/P, 848/1P, 849/1,2,3,4, 850/1P,2P, 851/P, 882/1P,2P, 884/1P, 885/1P, 890/P, 1015/2P, 1134/P, 1136/1P,2P, 1138/P, 1139/P, 1140/2P.	Veetikundu Chavadiyur				1025.00
88	119/I	Agali	Agali	482, 517 Pts.	Pattimalamalvaram Bit I		14		
89	119/2	Agali	Agali	431, 447, 448, 452, 454, 455, 456, 466, 467, 469, 471, 481, 486, 487, 505, 453, 480, 482 Pts.	Pattimalamalvaram Bit II		110.00		
90	119			Bit I: 8482, 517/P Bit II: 447, 431, 448, 452, 454, 455, 456, 466, 467, 469, 471, 481, 486, 487, 505, 453, 480, 482/P	Pattimalam Bit I & II				124.00
91	120	Agali	Agali	548, 549 Pts.	Vadakke Kottathara		17.00		
92				549/P, 548	Vadakke Kottathara				17.00
93	121	Agali	Agali	742, 735, 730, 609, 605, 604, 602, 601, 552, 534, 418, 416, 415, 414 Pts.	Naikerpadi		206.50		
94			Agali	742, 735, 730, 609, 605, 604, 602, 601, 552, 534, 418, 416, 415, 414/P	Naikerpadi				206.50

Sl. No	Item No	Village	Range	SY. Nos	Location	Station	Extent in ha			
							Notification No & Date 1383/77 dt. 29/7/1977	Notification No & Date 1383/77 dt. 18/3/1978	Notification No & Date 1383/77 dt. 10/10/1979	
95	122	1	Agali	Agali	367, 366, 365, 364, 363, 2370, 357, 358, 346, 354, 355, 375, 337, 2351, 2352, 940, 2353, 2354, 823, 2356, 2357, 2358, 2359, 2360, 2362, 2361, 2368, 2370 Pts.	Parappanthara (Narasimukku Prappan Thodu)		120.00		
96	122/1	2	Agali	Agali	375, 2366 Pts.	Parappanthara Bit I		4.90		
97	122/2	3	Agali	Agali	375, 2362 Pt.	Parappanthara Bit II		1.56		
98	122				Bit I: 337/P, 346/2P, 354/5P, 355/3P, 350/4P, 358/1P, 363/2P, 364/P, 365/1P, 366/P, 367/P, 375/P, 823/P, 3P, 940/P, 2351/1P, 2P, 2352/P, 2353/1P, 2P, 3P, 2354/1P, 2P, 2355/P, 2356/1P, 2P, 2357/P, 2358/P, 2359/P, 2360/1P, 2367/P, 2368/P, 2370P Bit II: 375/p, 2362/p Bit II: 375/p, 2366/p	Narasimukku, Parappanthara, Parappanthodu. (3 Bits)				126.46
99	123/1	1	Agali	Agali	337 Part	Puthukutty Malavaram Bit I		16.50		
100	123/2	2	Agali	Agali	337, 335, 338, 339, 340, 958, 960 Pt.	Puthukutty Malavaram Bit II		47.76		
101	123/3	3	Agali	Agali	337 Pt., 957 Pt.	Puthukutty Malavaram Bit III		1.10		
102	123/4	4	Agali	Agali	337 Pt., 957 Pt.	Puthukutty Malavaram Bit IV		2.20		
103	123/5	5	Agali	Agali	314, 337 Pts.	Puthukutty Malavaram Bit V		8.10		
104	123/6	6	Agali	Agali	956, 963 Pts.	Puthukutty Malavaram Bit VI		0.40		

Sl. No	Item No	Village	Range	SY. Nos	Location	Station	Extent in ha		
							Notification No & Date 1383/77 dt. 29/7/1977	Notification No & Date 1383/77 dt. 18/3/1978	Notification No & Date 1383/77 dt. 10/10/1979
105	123	Agali	Agali	Bit I: 337/P Bit II: 337/P, 335/P, 338 to 340, 958, 960/P Bit III: 337/P, 957/P Bit IV: 333/P Bit V: 314, 337/P Bit VI: 956, 953/P	Pathukutty Malavaram VI Bits				76.06
106	124	Agali	Agali	379, 396, 397, 379, 744, 399, 389, 388 Parts	Kattalakandi			156.5000	
107		Agali	Agali	375/P, 388/1P, 389/1P, 396/P, 397/P, 399/P, 744/P	Kattalakandi				156.50
108	124A	A	Agali	Agali	1904, 1905, 1923, 1936, 2010	Manthanchola	Ommala		400.00
109	124B	B	Agali	Agali	1894/P, 2019/P, 1335/P	Onthumala	Ommala		550.00
110	124C	C	Agali	Agali	1335/P	Thumbapara	Ommala		62.00
111	124D	D	Agali	Agali	1335/P, 2019/P	Ommala (Pothuppady Collective Farm)	Ommala		250.00
112	228	Agali	Agali	127, 129 Pts.	Chemmanoor	Ommala	14.00		
113			Agali	127/P, 129/1P	Chemmanoor				14.00
114	229	Agali	Agali	1120, 1121/P	Agali malavaram			7.3000	7.30
115	230	Agali	Agali	1146, 1152, 1153, 1151, 1170, 1174 Pts.	Nellipathy Bit I	Ommala	7.50		
116		Agali	Agali	Bit I: 1146, 1151to 1153, 1170, 1174/P	Nellipathy				7.50
117	231	Agali	Agali	742 Pt.	Naikerpadi Bit I		5.20		
118				742/2P	Naikerpadi Bit I				5.20
119	232	Agali	Agali	742 Pt.	Naikerpadi Bit II		4.20		
120		Agali		742 Pt.	Naikerpadi Bit II				4.20
121	233	Agali	Agali	742, 724 Pts.	Boothivazhi		5.30		
122		Agali	Agali	742, 724/P	Boothivazhi				5.30
123	234	Agali	Agali	379 Pt.	Pattimalamalavaram Kathlakandi I		2.20		

Sl. No	Item No	Village	Range	SY. Nos	Location	Station	Extent in ha		
							Notification No & Date 1383/77 dt. 29/7/1977	Notification No & Date 1383/77 dt. 18/3/1978	Notification No & Date 1383/77 dt. 10/10/1979
124		Agali	Agali	379/P	Pattimalamalavaram Kathlakandi I				2.20
125	235	Agali	Agali	855, 858, 859, 860, 861, 864, 704, 695, 696 Pts.	Boothivazhi 3 Bits		7.00		
126		Agali	Agali	379, 770 (Parts)	Pattimalam (Kathalakandi Bit II)			1.2000	
127		Agali	Agali	379, 740/P	Kathalakandi Bit II				1.20
128	236	1	Agali	Agali	855/P, 858/P, 859/P, 860/P, 861/P, 864/P, 704/P, 695/P, 696/P	Boothivazhi 3 Bits			7.00
129	237	Agali	Agali	483, 485 (Parts)	Thowkkal Forests			9.0300	
130		Agali		483, 485/P	Thavakkal Forest				9.03
131	238	Agali	Agali	127/P	Asokapara	Ommala			15.97

Appendix – IV

List of Fire Occurrence during tha past

Range	2002 - 03			2003 – 04			2004 - 05		
	No. of occurrence	Area (ha)	Loss (Rs.)	No. of occurrence	Area (ha)	Loss (Rs.)	No. of occurrence	Area (ha)	Loss (Rs.)
Mannarkkad	7	2.03	-	15	59.49	-	20	138.32	40000
Agali	2	25.6	135000	1	2	1000	1	23	-
Attappady	-	-	-	9	725	-	1	23	-
Total	9	17.09	135000	25	786.49	1000	25	143.35	45000

Range	2005 - 06			2006 - 07			2007 - 08			2008-09		
	No. of occurrence	Area (in Ha)	Loss (In Rs.)	No. of occurrence	Area (in Ha)	Loss (In Rs.)	No. of occurrence	Area (in Ha)	Loss (In Rs.)	No. of occurrence	Area (in Ha)	Loss (In Rs.)
Mannarkkad	18	30.65	10800	43	297.22	-	15	141.85	79450	16	112.33	6200
Agali	1	2	NIL	4	12.51	-	1	6	500	11	32.27	2200
Attappady	1	2	NIL	25	91.64	-	9	34.30	-	27	957.04	1350
Total	20	34.65	10800	72	401.37	-	25	182.15	79950	54	1101.64	9750

Appendix – V

List of Birds found in Mannarkkad Division

Sl. No.	Common name	Scientific name	Conservation Status
1	Black Eagle	<i>Ictinaetus malayensis</i>	
2	Bonelli's Eagle	<i>Hieraetus fasciatus</i>	
3	Rufous-bellied Eagle	<i>Hieraetus kienerii</i>	
4	Changeable Hawk-Eagle	<i>Spizaetus cirrhatus</i>	Endangered
5	Common Kestrel	<i>Falco tinnunculus</i>	
6	Red Spur fowl	<i>Galloperdix spadicea</i>	
7	Grey Jungle fowl	<i>Gallus sonneratii</i>	
8	Nilgiri Wood-Pigeon	<i>Columba elphinstonii</i>	Vulnerable
9	Emerald Dove	<i>Chalcophaps indica</i>	Threatened
10	Mountain Imperial-Pigeon	<i>Ducula badia</i>	
11	Malabar Trogon	<i>Harpactes fasciatus</i>	
12	White cheeked Barbet	<i>Megalaima viridis</i>	
13	Common Golden backed Woodpecker	<i>Dinopium javanense</i>	
14	Dusky Crag Martin	<i>Hirundo concolor</i>	
15	House Swallow	<i>Hirundo tahitica</i>	
16	Grey Wagtail	<i>Motacilla cinerea</i>	
17	Paddy field Pipit	<i>Anthus rufulus</i>	
18	Scarlet Minivet	<i>Pericrocotus flammeus</i>	
19	Grey-headed Bulbul	<i>Pycnonotus priocephalus</i>	Endangered
20	Red whiskered Bulbul	<i>Pycnonotus jocosus</i>	
21	Yellow browed Bulbul	<i>Iole indica</i>	Threatened
22	Black Bulbul	<i>Hypsipetes leucocephalus</i>	
23	Blue-headed Rock-Thrush	<i>Monticola cinclorhynchus</i>	
24	Malabar Whistling-Thrush	<i>Myiofonus horsfieldii</i>	Endangered
25	Orange headed Thrush	<i>Zoothera citrina</i>	
26	Eurasian Blackbird	<i>Turdus merula</i>	
27	White-bellied Shortwing	<i>Brachypteryx major</i>	Vulnerable
28	Indian Blue Robin	<i>Luscinia brunnea</i>	
29	Wynaad Laughingthrush	<i>Garrulax delesserti</i>	
30	Nilgiri Laughingthrush	<i>Garrulax cachinnans</i>	Endangered
31	Spotted Babbler	<i>Pellorneum ruficeps</i>	endemic
32	Indian Scimitar-Babbler	<i>Pomatorhinus horsfieldii</i>	
33	Black-headed Babbler	<i>Rhopocichla atriceps</i>	
34	Quaker Tit-Babbler	<i>Alcippe poioicephala</i>	
35	Blyth's Reed-Warbler	<i>Acrocephalus dumetorum</i>	
36	Tickell's Warbler	<i>Phylloscopus affinis</i>	
37	Greenish Leaf-Warbler	<i>Phylloscopus trochiloides</i>	
38	Large-billed Leaf-Warbler	<i>Phylloscopus magnirostris</i>	
39	Tytler's Leaf-Warbler	<i>Phylloscopus tytleri</i>	Near threatened
40	Western Crowned Warbler	<i>Phylloscopus occipitalis</i>	
41	Black and Orange Flycatcher	<i>Ficedula nigrorufa</i>	Near threatened
42	Nilgiri Flycatcher	<i>Eumyias albicaudata</i>	Vulnerable
43	Grey-headed Flycatcher	<i>Culicicapa ceylonensis</i>	
44	Black-lored Yellow Tit	<i>Parus xanthogenys</i>	
45	Plain Flower pecker	<i>Dicaeum concolor</i>	
46	Small Sunbird	<i>Nectarinia minima</i>	
47	Oriental White-eye	<i>Zosterops palpebrosus</i>	
48	Ashy Drongo	<i>Dicrurus leucophaeus</i>	

Appendix – VI**List of Butterflies found in Mannarkkad Division**

Sl. No.	Scientific name	Family
1	<i>Troides minos</i> Cram	Papilionidae
2	<i>Graphium sarpedon teredon</i> Feld.	Papilionidae
3	<i>Graphium agamemnon</i>	Papilionidae
4	<i>Pachliopta aristolochiae</i> Fb	Papilionidae
5	<i>Papilio liomedon</i>	Papilionidae
6	<i>Papilo helenus</i>	Papilionidae
7	<i>Papilo polytes</i>	Papilionidae
8	<i>Papilo polymnestor</i>	Papilionidae
9	<i>Papilio paris</i>	Papilionidae
10	<i>Papilio polytes polytes</i>	Papilionidae
11	<i>Papilio clytia clytia</i>	Papilionidae
12	<i>Papilio liomedon</i>	Papilionidae
13	<i>Pachliopta hector</i>	Papilionidae
14	<i>Graphium sarpedon teredon</i>	Papilionidae
15	<i>Pachliopta pandiyana</i>	Papilionidae
16	<i>Appias albina</i>	Pieridae
17	<i>Appias lyncida</i> Cram.	Pieridae
18	<i>Appias paulina</i> Feld.	Pieridae
19	<i>Catopsilia pomona</i> Fb.	Pieridae
20	<i>Catopsilia pyranthe</i> Lin.	Pieridae
21	<i>Cepora nadina</i>	Pieridae
22	<i>Delias eucharis</i> Drury	Pieridae
23	<i>Eurema blanda</i> Boisd.	Pieridae
24	<i>Eurema hecabe</i> Lin.	Pieridae
25	<i>Leptosia nina</i> Fb.	Pieridae
26	<i>Ixias Marianne</i> Cram.	Pieridae
27	<i>Colotis eucharis eucharis</i>	Pieridae
28	<i>Caleta caleta decidia</i>	Lycaenidae
29	<i>Udara akasa</i>	Lycaenidae
30	<i>Zizula hylax</i>	Lycaenidae
31	<i>Euchrysops cnejus</i>	Lycaenidae
32	<i>Arhopala pseudocentaurus</i> Doubleday	Lycaenidae
33	<i>Castalius rosimon</i> Fb.,	Lycaenidae
34	<i>Cheritra freja</i> Fb.	Lycaenidae

Sl. No.	Scientific name	Family
35	<i>Chilades pandava</i> Horsfield	Lycaenidae
36	<i>Lampides boeticus</i> linne	Lycaenidae
37	<i>Spindasis vulcanus vulcanus</i> Fb.	Lycaenidae
38	<i>Loxura atymus</i> Carm.	Lycaenidae
39	<i>Tajuria cippus</i> Fb.	Lycaenidae
40	<i>Megisba malaya</i> Moore	Lycaenidae
41	<i>Jamides electo</i> Field	Lycaenidae
42	<i>Pieris canidia canis</i>	Lycaenidae
43	<i>Ixias pyrene sesia</i>	Lycaenidae
44	<i>Jamides celeno</i>	Lycaenidae
45	<i>Ariadne merione</i> Cram	Nymphalidae
46	<i>Cirrochora thaia</i> Fb.	Nymphalidae
47	<i>Cupha erymanthis</i> Drury.	Nymphalidae
48	<i>Euthalia garuda</i> Moore	Nymphalidae
49	<i>Euthalia lubentina</i> Cram.	Nymphalidae
50	<i>Hypolimnas bolina</i> Lin.	Nymphalidae
51	<i>Hypolimnas misippus</i> Lin.	Nymphalidae
52	<i>Junonia atlites</i> Lin	Nymphalidae
53	<i>Junonia hirta</i> Fb.	Nymphalidae
54	<i>Junonia almana almana</i> Lin.	Nymphalidae
55	<i>Junonia iphita</i> Cram	Nymphalidae
56	<i>Junonia orithya</i>	Nymphalidae
57	<i>Kanishka canace</i>	Nymphalidae
58	<i>Junonia lemonias</i>	Nymphalidae
59	<i>Tirumala limniace</i>	Nymphalidae
60	<i>Tirumala sertentrionis</i>	Nymphalidae
61	<i>Phalanta phalantha</i> Drury.	Nymphalidae
62	<i>Vanessa indica</i> Frushstorfer	Nymphalidae
63	<i>Eupolea sylvester</i>	Nymphalidae
64	<i>Euploea core</i>	Nymphalidae
65	<i>Melanitis leda</i>	Nymphalidae
66	<i>Lethe rohria</i>	Nymphalidae
67	<i>Lethe drypetis todara</i>	Nymphalidae
68	<i>Lethe rohira neelgheriensis</i>	Nymphalidae
69	<i>Idea malabarica</i>	Nymphalidae
70	<i>Mycalesis perseus</i>	Nymphalidae
71	<i>Mycalesis mineus polydecta</i>	Nymphalidae

Sl. No.	Scientific name	Family
72	<i>Mycalesis oculus</i>	Nymphalidae
73	<i>Zipoetis saitis</i>	Nymphalidae
74	<i>Charaxes solon solon</i>	Nymphalidae
75	<i>Acraea violae</i>	Nymphalidae
76	<i>Hasora chromus</i>	Hesperiidae
77	<i>Iambrix salsala</i>	Hesperiidae
78	<i>Elymnias caudate</i> Butler	Satyridae
79	<i>Melanitis leda</i> Lin.	Satyridae
80	<i>Mycalesis anaxias</i> Hewit	Satyridae
81	<i>Zipoetis saitis</i> Hewit	Satyridae
82	<i>Lethe drypetis</i> Moore	Satyridae
83	<i>Mycalesis mineus polydecta</i> Cram.	Satyridae
84	<i>Ypthima baldus</i>	Satyridae

Appendix – VII**Price of timber obtained in auction, Timber Sales Division, Palakkad**

Sl.No	Timber	Average Rate		
		2008	2009	2010
RoseWood				
1	DL AII	0	205000	0
2	DL BI	0	216178	183925
3	DL BII	0	131185	70000
4	DL BIII	0	103867	0
5	DL BS	0	32488	0
6	DL CI	0	139886	70000
7	DL CII	0	97517	64067
8	DL CIII	0	56052	0
9	DL CIV	0	49044	25000
10	DL CII SL	0	55501	35000
11	DL CIII SL	0	54455	0
12	DL CIV SL	0	47000	0
13	DL FW	0	21725	0
Teak				
14	TG A-Exp.	209152	161000	0
15	TG AI	183362	137600	0
16	TG AII	111090	107267	112740
17	TG AIII	76881	73458	80275
18	TG A EXP LL	0	0	331000
19	TG AIV	49433	51454	53076
20	TG B-Exp.	169414	151038	132551
21	TG BI	124216	114389	115082
22	TG B EXP LL	0	0	257254
23	TG B-EXP SL	0	110500	0
24	TG BII	86883	84797	103493
25	TG BI LL	120100	0	105000
26	TG BII LL	86701	88020	89172
27	TG BIII	59601	59111	66001
28	TG BIII LL	47534	62538	72122
29	TG BIII SL	44594	37058	49285
30	TG BII SL	39344	79423	51388
31	TG BIV	40286	40588	46482
32	TG BIV LL	44424	46013	58349
33	TG BIV SL	22593	30507	28634
34	TG BS	21443	22994	26319

Sl.No	Timber	Average Rate		
		2008	2009	2010
35	TG C-EXP	85923	82429	85848
36	TG CI	74287	78470	78090
37	TG CI LL	0	84047	0
38	TG CI SL	48063	49978	56905
39	TG CII	56398	54448	56170
40	TG CII LL	53794	69288	66172
41	TG CII SL	32918	35980	36199
42	TG CIII	36344	35909	39679
43	TG CIII SL	23934	26995	29125
44	TG CIIILL	61753	42109	47102
45	TG CIV	25743	26651	29190
46	TG CIV SL	21370	22099	21174
47	TG CIVLL	27591	34675	35932
48	TG SL C EXP	0	0	60500
49	TG SL C Exp	0	43934	0
50	TG Poles I C	6360	8151	8500
51	TG Poles II C	3895	4196	4424
52	TG Poles III	1741	2086	2185
53	TG Poles IV	844	883	962
54	TG Poles V	564	170	0
55	Kappukal	44	0	0
56	Aarampuli	0	0	3100
57	TG FW	6499	7600	9474
58	A I II	0	3104	0
59	AE I	0	1100	0
60	AHII	0	10299	0
61	AL I(Vel)	6500	7730	0
62	AL II	3611	4520	0
63	AL II (Vn)	0	6824	0
64	AO I	16705	23675	19387
65	AO II	11402	12400	15029
66	AJI	0	18000	0
67	AJII	0	11000	0
68	AP I	12369	14323	13468
69	AP II	2714	4987	7500
70	ACI	17022	0	0
71	ACII	19599	0	0
72	AC I ATTU TEAK	0	2500	6301
73	AC II ATTU TEAK	0	2201	4383
74	AS I	0	2200	3000

Sl.No	Timber	Average Rate		
		2008	2009	2010
75	AS II(Angol)	0	3301	2552
76	ATI	2800	0	0
77	ATII	2200	0	0
78	BR I	13731	12258	11569
79	BR II	8128	9324	11377
80	BC I	2606	2700	3399
81	BCI Elavu	0	2817	0
82	BC II	1903	2100	2458
83	BCII Elavu	0	2001	0
84	BMI	2500	0	0
85	BMII	2014	0	0
86	CBII	0	5901	0
87	CC II	0	2101	0
88	CEII	2101	0	0
89	CF II	0	5101	0
90	CS II	0	2317	0
91	CT II			
92	DMII	2550	0	0
93	ES I	3113	5406	0
94	ES II	2069	3300	0
95	EVI	0	2100	0
96	DPI	4443	4791	0
97	DP II	3198	4100	6075
98	DP II (Paikanni)	0	4752	0
99	Edala	0	3098	0
100	Elamarigan	0	5102	0
101	FTII	10300	0	0
102	FZ	0	3099	0
103	FZI	0	2501	0
104	GAI	8301	0	0
105	GAII	6000	11300	0
106	GPII	3201	2102	0
107	HEI	0	3100	0
108	HE II	0	3099	0
109	HAI	1500	0	0
110	HPI	7000	0	0
111	HPII	5299	0	0
112	GT I	15481	0	21533
113	GT II	9196	10825	10341
114	HII	0	5500	0

Sl.No	Timber	Average Rate		
		2008	2009	2010
115	HI II	0	4750	0
116	LF I	7160	8300	0
117	LF II	5430	6592	5613
118	LGII	2335	0	0
119	LL I	18699	14492	0
120	LL II	8564	9184	10134
121	MD I	3599	5717	5917
122	MD II	0	4807	3887
123	MTII	0	3801	0
124	LL II	0	9184	9671
125	MD I	0	5717	5616
126	ML II	0.000	4807	2300
127	MMI	4601	7600	0
128	MM II	4018	3588	5101
129	MP I	13644	12323	16252
130	MP II	10523	9786	13418
131	MP II VATTA	0	0	4600
132	MTI	0	4900	0
133	MT II	3500	0	3101
134	MJI	0	7399	0
135	MJII	0	8959	6099
136	Paramba I	0	7306	0
137	Paramba II	0	6038	6000
138	PM I	0	19139	20000
139	PM II	5676	5539	0
140	PR	16700	0	0
141	SBII	0	1202	0
142	SCI	4901	8812	4163
143	SC II	2274	3332	2705
144	STII	0	1199	0
145	SDI	0	0	2050
146	SDII	2201	0	4107
147	SGI	1855	0	0
148	SGII	1501	5199	0
149	SMI	21136	0	0
150	SM II	24100	0	5200
151	SNI	3501	0	0
152	SN II	2501	0	1799
153	SO I	8447	7212	14522
154	SO II	5345	4978	4862

Sl.No	Timber	Average Rate		
		2008	2009	2010
155	SXII	12303	0	0
156	SPII	0	2099	0
157	TB I	13464	0	11699
158	TBI tanni	0	8759	0
159	TB II	8517	6364	7850
160	TBII tanni	0	7144	0
161	SSI	0	2270	0
162	SSII	0	1492	0
163	TP I	18600	18264	21041
164	TP II	8911	10745	10991
165	TT I	11513	16411	21976
166	TT II	6155	9138	8285
167	XX I	19677	20506	35763
168	XX II	12242	18385	19390
169	ZMII	0	3299	0

Appendix – VIII

Details of Ganja Raids in Mannarkkad Division

Year	No. of Raids	Extent (acres)	No. of plants (lakhs)
2001-02	67	130	2.8000
2002-03	53	91.20	1.0600
2003-04	41	194.35	2.9500
2004-05	58	108.96	3.0900
2005-06	51	98.44	2.0900
2006-07	99	23.06	0.5600
2007-08	-	-	-
2008-09	-	-	-
2009-10	49	1.456	4.691
2010-11	22	0.29	0.690

Appendix - IX

Enumeration of 1% Growing Stock and the anticipated growth in Bhavani Watershed

Sl. No.	Local Name	Botanical Name	No. of Trees	Volume		Total Volume in whole area		% Composition
				Timber (M ³)	FW (MT)	Timber (M ³)	FW (MT)	
1	Aal	<i>Ficus bengalenesis</i>	19	59.468	89.512	5946.8	8951.2	1.48%
2	Ambazham	<i>Spondias mangifera</i>	5	3.258	2.941	325.8	294.1	0.39%
3	Anjily	<i>Artocarpus hirsuta</i>	4	2.222	2.488	222.2	248.8	0.31%
4	Arampuli	<i>Bauhinia racemosa</i>	25	8.576	10.657	857.6	1065.7	1.95%
5	Aval	<i>Holoptelea integrifolia</i>	1	0.218	0.389	21.8	38.9	0.08%
6	Athi	<i>Ficus glomerata</i>	25	84.09	177.647	8409	17764.7	1.95%
7	Bhoothali	<i>Cellis philippencis</i>	23	1	11.838	100	1183.8	1.80%
8	Chadachi	<i>Grewia tilliaeefolia</i>	350	155.47	218.792	15547	21879.2	27.34%
9	Cheeni	<i>Tetrameles nudiflora</i>	3	0.649	0.45	64.9	45	0.23%
10	Cheru	<i>Holigarna arnotiana</i>	4	1.207	1.61	120.7	161	0.31%
11	Cholapoovam	<i>Nephilium longana</i>	6	4.995	5.378	499.5	537.8	0.47%
12	Cholavenga	<i>Bischofia javanica</i>	7	2.695	1.261	269.5	126.1	0.55%
13	Choriyan	<i>Eugenia montana</i>	1	0.932	0.747	93.2	74.7	0.08%
14	Churuli	<i>Mesua ferrea</i>	3	3.668	2.136	366.8	213.6	0.23%
15	Edala	<i>Aporasa lindleyana</i>	19	5.395	2.317	539.5	231.7	1.48%
16	Elavangam	<i>Cinnamomum zeylanicum</i>	2	0.387	0.186	38.7	18.6	0.16%
17	Elavu	<i>Bombax ceiba</i>	45	54.280	16.432	5428	1643.2	3.52%
18	Ezhilampala	<i>Alstonia scholaris</i>	14	43.05	59.607	4305	5960.7	1.09%
19	Ithimaram	<i>Protium caudatum</i>	2	0.77	0.832	77	83.2	0.16%
20	Kadukka	<i>Terminalia chebula</i>	12	7.145	6.053	714.5	605.3	0.94%
21	Kalkanjiram	<i>Anogeissus latifolia</i>	47	15.078	20.103	1507.8	2010.3	3.67%
22	Kallithi	<i>Ficus microcarpa</i>	8	9.64	12.231	964	1223.1	0.63%
23	Kalpine	<i>Dipetropappus indicus</i>	2	1.244	1.105	124.4	110.5	0.16%
24	Kampili	<i>Fagara lunu-ankenda</i>	4	0.976	0.778	97.6	77.8	0.31%
25	Kanakaitha	<i>Sageraea dalzelli</i>	1	0.552	0.443	55.2	44.3	0.08%
26	Kanikonna	<i>Cassia fistula</i>	4	1.251	1.609	125.1	160.9	0.31%
27	Kanjiram	<i>Strychnos nuxvomica</i>	1	0.322	0.389	32.2	38.9	0.08%
28	Kara	<i>Gararuge pinnata</i>	15	10.093	4.318	1009.3	431.8	1.17%
29	Karakil	<i>Dysoxylum ficiform</i>	2	0.652	0.79	65.2	79	0.16%
30	Karimaram	<i>Diospyras ebenum</i>	7	6.118	5.693	611.8	569.3	0.55%
31	Karimthakaram	<i>Albizia procera</i>	23	15.433	20.735	1543.3	2073.5	1.80%
29	Karakil	<i>Dysoxylum ficiform</i>	2	0.652	0.79	65.2	79	0.16%
30	Karimaram	<i>Diospyras ebenum</i>	7	6.118	5.693	611.8	569.3	0.55%
31	Karimthakaram	<i>Albizia procera</i>	23	15.433	20.735	1543.3	2073.5	1.80%
32	Kiluvan	<i>Commiphora caudata</i>	1	0.322	0.389	32.2	38.9	0.08%
33	Kulamavu	<i>Machilus macrantha</i>	1	0.206	0.238	20.6	23.8	0.08%
34	Kumpil	<i>Gmelina arborea</i>	24	13.538	13.528	1353.8	1352.8	1.88%
35	Kundirikkam	<i>Canarium strictum</i>	4	1.31	1.61	131	161	0.31%
36	Kunnivaka	<i>Albizia odoratissima</i>	3	0.988	1.221	98.8	122.1	0.23%
37	Kurangatti	<i>Acrocarpus fraxinifolius</i>	2	1.15	1.138	115	113.8	0.16%

Sl. No.	Local Name	Botanical Name	No. of Trees	Volume		Total Volume in whole area		% Composition
				Timber (M ³)	FW (MT)	Timber (M ³)	FW (MT)	
38	Malaveppu	<i>Chukrasia tabularis</i>	7	7.109	9.118	710.9	911.8	0.55%
39	Manjakadampa	<i>Adina cordifolia</i>	9	11.065	16.303	1106.5	1630.3	0.70%
40	Manjapavatta	<i>Morinda tinctoria</i>	1	0.218	0.381	21.8	38.1	0.08%
41	Marotti	<i>Hydnocarpus arnottiana</i>	1	0.886	0.704	88.6	70.4	0.08%
42	Maruthu	<i>Terminalia paniculata</i>	28	66.83	69.016	6683	6901.6	2.19%
43	Matty	<i>Adenanathera triphysa</i>	12	5.37	5.648	537	564.8	0.94%
44	Misc		8	2.064	3.124	206.4	312.4	0.63%
45	Mulluvanga	<i>Bridelia retusa</i>	18	7.275	11.907	727.5	1190.7	1.41%
46	Murikku	<i>Erythrina indica</i>	47	42.73	54.771	4273	5477.1	3.67%
47	Myla	<i>Vitex altissima</i>	4	0.872	1.556	87.2	155.6	0.31%
48	Nasakam	<i>Evodia lunal-angenda</i>	31	12.092	13.614	1209.2	1361.4	2.42%
49	Nelli	<i>Embllica officinalis</i>	42	15.951	15.351	1595.1	1535.1	3.28%
50	Njaval	<i>Zizgium cummuni</i>	13	15.583	19.81	1558.3	1981	1.02%
51	Pala	<i>Alstonia scholaris</i>	25	20.457	17.354	2045.7	1735.4	1.95%
52	Parakam	<i>Ficus hispida</i>	1	0.552	0.443	55.2	44.3	0.08%
53	Parapoola	<i>Cochlospermum religiosum</i>	3	1.204	1.233	120.4	123.3	0.23%
54	Peral	<i>Ficus bengalensis</i>	4	5.107	5.069	510.7	506.9	0.31%
55	Plavu	<i>Artocarpus heterophyllus</i>	3	1.214	1.293	121.4	129.3	0.23%
56	Poopathiri	<i>Stereospermum chelonoides</i>	31	29.758	30.247	2975.8	3024.7	2.42%
57	Poovam	<i>Schleichera oleosa</i>	52	54.811	88.572	5481.1	8857.2	4.06%
58	Pottakavala	<i>Sterculia foetida</i>	11	4.658	4.857	465.8	485.7	0.86%
59	Puli	<i>Tamarindus indica</i>	2	3.746	5.089	374.6	508.9	0.16%
60	Punna	<i>Calophyllum elatum</i>	8	6.305	3.238	630.5	323.8	0.63%
61	Sinduram	<i>Mallotus philippensis</i>	5	1.09	1.945	109	194.5	0.39%
62	Teak	<i>Tectona grandis</i>	109	37.684	22.552	3768.4	2255.2	8.52%
63	Thanni	<i>Terminalia bellarica</i>	76	78.355	116.66	7835.5	11666	5.94%
64	Thondupolyan	<i>Hopea racophloea</i>	5	2.806	3.094	280.6	309.4	0.39%
65	Vaka	<i>Albezia lebbek</i>	118	82.349	85.115	8234.9	8511.5	9.22%
66	Vatta	<i>Macaranga peltata</i>	8	5.141	5.048	514.1	504.8	0.63%
67	Veeti	<i>Delbergia latifolia</i>	130	146.205	181.869	14620.5	18186.9	10.16%
68	Vellapine	<i>Vateria indica</i>	1	1.776	1.922	177.6	192.2	0.08%
69	Venga	<i>Pterocarpus marsupium</i>	243	150.916	221.098	15091.6	22109.8	18.98%
70	Venteak	<i>Lagerstromia lanceolata</i>	67	81.852	80.798	8185.2	8079.8	5.23%
71	Verukutheeni	<i>Acronychia pedunculata</i>	8	2.632	3.262	263.2	326.2	0.63%
Total			1280	985.536	1188.38	98553.6	118837.9	

Appendix – X

Enumeration of 1% Growing Stock and the anticipated growth in Siruvani Watershed

Sl. No.	Local Name	Botanical Name	No. of Trees	Volume		Total Volume in whole area		% Compo sition
				Timber (M ³)	FW (MT)	Timber (M ³)	FW (MT)	
1	Aal	<i>Ficus religiosa</i>	10	39.628	28.3325	3962.8	2833.25	0.23%
2	Akil	<i>Dysoxylum malabaricum</i>	48	36.633	14.583	3663.3	1458.3	1.09%
3	Anjili	<i>Artocarpus hirsuta</i>	1	1.428	0.777	142.8	77.7	0.02%
4	Annakkara	<i>Garuga pinnata</i>	85	75.577	25.8455	7557.7	2584.55	1.94%
5	Arampuli	<i>Bauhinia racemosa</i>	31	10.672	6.6305	1067.2	663.05	0.71%
6	Athi	<i>Ficus recemosa</i>	11	9.408	3.0115	940.8	301.15	0.25%
7	Badraksham	<i>Elaeocarpus serratus</i>	3	1.888	0.548	188.8	54.8	0.07%
8	Bhuthali	<i>Celtis weightii</i>	24	17.202	8.7785	1720.2	877.85	0.55%
9	Chadachi	<i>Grewia tilifolia</i>	205	121.655	95.009	12165.5	9500.9	4.67%
10	Chandanaveppu	<i>Cedrela toona</i>	4	1.972	0.844	197.2	84.4	0.09%
11	Cheeni	<i>Tetrameles nudiflora</i>	3	4.659	3.1795	465.9	317.95	0.07%
12	Cheerala	<i>Rapanea capitellata</i>	33	33.46	24.327	3346	2432.7	0.75%
13	Chempakam	<i>Michelia champaca</i>	7	13.109	12.4795	1310.9	1247.95	0.16%
14	Chenner	<i>Knema attenuata</i>	1	0.434	0.2005	43.4	20.05	0.02%
15	Cheru	<i>Holigarna arnottiana</i>	80	76.758	30.58	7675.8	3058	1.82%
16	Cholachadachi	<i>Heritiera papilio</i>	8	5.24	3.815	524	381.5	0.18%
17	Cholamaram	<i>Photinia integrifolia</i>	28	17.161	0	1716.1	0	0.64%
18	Cholapoovam	<i>Schleichera oleosa</i>	1	0.434	0.2005	43.4	20.05	0.02%
19	Cholavenga	<i>Bischofia javanica</i>	68	117.804	51.121	11780.4	5112.1	1.55%
20	Chorapali	<i>Vatica chinensis</i>	150	95.3445	26.384	9534.45	2638.4	3.42%
21	Choriyan	<i>Eugenia montana</i>	6	4.192	2.0945	419.2	209.45	0.14%
22	Churuli	<i>Mesua ferrea</i>	238	284.809	133.0565	28480.9	13305.65	5.43%
23	Chuvanna Akil	<i>Chukrasia tabularis</i>	4	3.313	1.107	331.3	110.7	0.09%
24	Danthapala	<i>Wrightia tinctoria</i>	7	4.176	1.7185	417.6	171.85	0.16%
25	Edana	<i>Olea dioica</i>	62	37.795	18.8725	3779.5	1887.25	1.41%
26	Rose Wood	<i>Aporosa Lindleyana</i>	39	16.624	17.724	1662.4	1772.4	0.89%
27	Elavargam	<i>Cinnamomum malabatrum</i>	1	0.737	0.309	73.7	30.9	0.02%
28	Elavu	<i>Bombax cieba</i>	14	13.211	1.6755	1321.1	167.55	0.32%
30	Irachivetti	<i>Antidesma lindleyana</i>	21	15.26	4.625	1526	462.5	0.48%
31	Irul	<i>Xylia xylocarpa</i>	39	25.236	17.0725	2523.6	1707.25	0.89%
32	Irumpakam	<i>Hopea parviflora</i>	1	1.449	0.529	144.9	52.9	0.02%
33	Ithy	<i>Ficus tinctoria</i>	1	1.503	0.777	150.3	77.7	0.02%
34	Kadambu	<i>Anthocephalus cadamba</i>	4	4.568	0	456.8	0	0.09%
35	Kadukka	<i>Terminalia chebula</i>	9	4.401	2.1025	440.1	210.25	0.21%
38	Nama	<i>Anogeissus latifolia</i>	131	102.763	37.5805	10276.3	3758.05	2.99%
39	Kampakam	<i>Hopea parviflora</i>	5	6.964	4.1615	696.4	416.15	0.11%
40	Kampili	<i>Euodia lunu-ankenda</i>	30	11.006	7.046	1100.6	704.6	0.68%
41	Kanakaitha	<i>Sageraea dalzellii</i>	20	13.716	4.89755	1371.6	489.755	0.46%
42	Kanikonna	<i>Cassia fistula</i>	3	0.783	0.1205	78.3	12.05	0.07%

Sl. No.	Local Name	Botanical Name	No. of Trees	Volume		Total Volume in whole area		% Compo sition
				Timber (M ³)	FW (MT)	Timber (M ³)	FW (MT)	
43	Kanjiram	<i>Strychnos nux-vomica</i>	7	2.401	0.441	240.1	44.1	0.16%
44	Kara	<i>Lania grandis</i>	24	14.296	2.6875	1429.6	268.75	0.55%
45	Karakil	<i>Dysoxylum ficiforme</i>	1	1.064	0.545	106.4	54.5	0.02%
46	Karanjili	<i>Dipterocarpus</i>	1	0.744	0.004	74.4	0.4	0.02%
47	Karimaruthu	<i>Terminalia tomentosa</i>	2	2.303	1.086	230.3	108.6	0.05%
48	Karimthakara	<i>Albizia procera</i>	100	55.806	15.2995	5580.6	1529.95	2.28%
49	Karivaka	<i>Albizia odoratissima</i>	2	1.864	0.747	186.4	74.7	0.05%
50	Karuva	<i>Albizia odoratissima</i>	4	3.132	0.978	313.2	97.8	0.09%
51	Kattukappi	<i>Turpinia malabarica</i>	11	4.336	2.8365	433.6	283.65	0.25%
52	Plavu	<i>Artocarpus heterophyllus</i>	24	22.129	10.3865	2212.9	1038.65	0.55%
53	Kavalam	<i>Stertulia guttata</i>	2	0.677	0.1395	67.7	13.95	0.05%
54	Kayani	<i>Bridelia retusa</i>	8	1.977	0.2955	197.7	29.55	0.18%
55	Kilinjan	<i>Commiphora caudata</i>	5	1.672	1.087	167.2	108.7	0.11%
57	Konna	<i>Casia fistula</i>	11	3.246	4.027505	324.6	402.7505	0.25%
58	Kozhivalan	<i>Agrostistachys longifolia</i>	10	2.005	1.595	200.5	159.5	0.23%
59	Kudampuli	<i>Garcinia cambogia</i>	18	8.225	4.2635	822.5	426.35	0.41%
60	Kulamavu	<i>Machilus macrantha</i>	192	255.436	100.106	25543.6	10010.6	4.38%
61	Kumpil	<i>Gmelina arborea</i>	19	27.139	11.623	2713.9	1162.3	0.43%
62	Kunkilliam	<i>Veteria indica</i>	17	8.771	1.019	877.1	101.9	0.39%
63	Kurangatti	<i>Acrocarpus fraxinifolius</i>	19	18.306	1.849	1830.6	184.9	0.43%
64	Mailellu	<i>Vitex altissima</i>	11	8.515	5.7165	851.5	571.65	0.25%
65	Malavappu	<i>Melia dubia</i>	24	35.749	18.7795	3574.9	1877.95	0.55%
66	Manjakadampu	<i>Haldina cordifolia</i>	37	19.81	16.696	1981	1669.6	0.84%
67	Maruthu	<i>Terminalia paniculata</i>	41	39.514	24.145	3951.4	2414.5	0.93%
68	Matty	<i>Ailanthus excelsa</i>	20	11.15	6.581	1115	658.1	0.46%
69	Mavu	<i>Mangifera indica</i>	5	7.342	6.4325	734.2	643.25	0.11%
70	Misc		205	171.782	84.5025	17178.2	8450.25	4.67%
71	Moottilthoori	<i>Baccaurea courtallensis</i>	1	0.434	0	43.4	0	0.02%
72	Mulakunari	<i>Alseodaphne semecarpifolia</i>	108	87.673	51.377	8767.3	5137.7	2.46%
73	Mullankara	<i>Elaeocarpus glandulosus</i>	1	0.257	0.0355	25.7	3.55	0.02%
74	Mullanpali	<i>Cullenia excelsa</i>	45	50.76	19.482	5076	1948.2	1.03%
75	Mullu venga	<i>Bridelia retusa</i>	24	11.259	14.0265	1125.9	1402.65	0.55%
76	Murikku	<i>Erythrina Indica</i>	74	48.996	24.354	4899.6	2435.4	1.69%
77	Myla	<i>Vitex altissima</i>	8	5.888	3.021	588.8	302.1	0.18%
79	Nedunar	<i>Polyalthia fragrans</i>	1	0.167	0.1945	16.7	19.45	0.02%
80	Neelampala	<i>Wrightia tinctoria</i>	80	22.477	4.3295	2247.7	432.95	1.82%
81	Nelli	<i>Emblica officinalis</i>	21	6.726	4.213	672.6	421.3	0.48%
83	Njaval	<i>Syzygium cumini</i>	163	306.96	161.5035	30696	16150.35	3.72%
84	Oduku	<i>Cleistanthus co;<i>nus</i></i>	2	1.732	0.6825	173.2	68.25	0.05%
85	Oma	<i>Celtis tetrandra</i>	1	1.061	0	106.1	0	0.02%
86	Paala	<i>Alstonia scholaris</i>	28	13.952	3.896	1395.2	389.6	0.64%
87	Paali	<i>Palaquium ellipticum</i>	209	274.781	121.8095	27478.1	12180.95	4.77%
89	Panthapine	<i>Myristica contorta</i>	33	63.638	0.35301	6363.8	35.301	0.75%

Sl. No.	Local Name	Botanical Name	No. of Trees	Volume		Total Volume in whole area		% Compo sition
				Timber (M ³)	FW (MT)	Timber (M ³)	FW (MT)	
90	Parakam	<i>Ficus hispida</i>	1	0.866	0.337	86.6	33.7	0.02%
91	Parapoola	<i>Cochlospermum relegiosum</i>	9	6.764	3.697	676.4	369.7	0.21%
94	Pathiri	<i>Sterospermum chelonodes</i>	2	0.493	0.395	49.3	39.5	0.05%
95	Peenari	<i>Sterculia guttata</i>	2	1.773	0.6155	177.3	61.55	0.05%
96	Peral	<i>Ficus benghalensis</i>	1	6.049	3.059	604.9	305.9	0.02%
97	Perumaram	<i>Ailanthus excelsa</i>	1	0.866	0.3735	86.6	37.35	0.02%
99	Plavu	<i>Artocarpus heterophyllus</i>	15	17.596	6.6925	1759.6	669.25	0.34%
100	Poola	<i>Bombax cieba</i>	43	31.305	10.506	3130.5	1050.6	0.98%
101	Poopathiri	<i>Sterospermum chelonodes</i>	44	26.377	14.487	2637.7	1448.7	1.00%
102	Poovam	<i>Schleichera oleosa</i>	206	154.6995	114.3175	15469.95	11431.75	4.70%
103	Pottakala	<i>Sterculia foetida</i>	8	4.133	1.1085	413.3	110.85	0.18%
104	Puli	<i>Tamarindus indica</i>	4	4.042	1.7945	404.2	179.45	0.09%
105	Pullamaruthu	<i>Terminalia paniculata</i>	3	12.209	6.045	1220.9	604.5	0.07%
106	Punna	<i>Calophyllum elatum</i>	63	54.087	18.7595	5408.7	1875.95	1.44%
107	Rosewood	<i>Aporosa Lindleyana</i>	40	17.088	18.3775	1708.8	1837.75	0.91%
108	Rudraksham	<i>Elaeocarpus tuberculatus</i>	15	23.803	19.318	2380.3	1931.8	0.34%
109	Sinduram	<i>Malotus philippensis</i>	37	20.031	4.6925	2003.1	469.25	0.84%
110	Teak	<i>Tectona grandis</i>	64	32.525	11.986	3252.5	1198.6	1.46%
111	Thanni	<i>Terminalia bellarica</i>	68	61.863	31.39	6186.3	3139	1.55%
112	Uruvanchi	<i>Sapindus Laurifolia</i>	6	3.844	0.279	384.4	27.9	0.14%
113	Vaka	<i>Albizia odortissima</i>	81	59.125	30.2535	5912.5	3025.35	1.85%
114	Vakka	<i>Sterculia villosa</i>	1	0.434	200.5	43.4	20050	0.02%
115	Vanchimaram	<i>Salix tetrasperma</i>	1	6.049	0	604.9	0	0.02%
116	Varali	<i>Elaeocarpus tectorius</i>	70	78.626	27.285	7862.6	2728.5	1.60%
117	Vatta	<i>Macaranga indica</i>	48	19.128	8.3585	1912.8	835.85	1.09%
118	Vayal	<i>Poeciloneuron indicum</i>	9	6.462	1.9495	646.2	194.95	0.21%
119	Vayana	<i>Cinnamomum malabatrum</i>	6	4.444	1.5355	444.4	153.55	0.14%
120	Vediplavu	<i>Cullenia excelsa</i>	183	335.371	199.2655	33537.1	19926.55	4.17%
121	Velakam	<i>Acacia nilotica</i>	1	0.378	0.2005	37.8	20.05	0.02%
122	Vellachadachi	<i>Kydia calycina</i>	3	1.408	1.038	140.8	103.8	0.07%
123	Vellakil	<i>Dysoxylum malabaricum</i>	3	0.966	0.5895	96.6	58.95	0.07%
124	Vellamaram	<i>Fahrenheitia zeylanica.</i>	28	19.451	9.948	1945.1	994.8	0.64%
125	Vellanama	<i>Anogeissus latifolia</i>	1	0.434	0.2005	43.4	20.05	0.02%
126	Vellapine	<i>Wrightia indica</i>	4	2.277	0.5005	227.7	50.05	0.09%
127	Velleetti	<i>Dalbergia lanceolaria</i>	23	7.047	5.072	704.7	507.2	0.52%
128	Venga	<i>Pterocarpus marsupium</i>	80	50.599	35.273	5059.9	3527.3	1.82%
129	venteak	<i>Lagerstroemia lanceolata</i>	70	69.158	37.222	6915.8	3722.2	1.60%
130	Veppu	<i>Azadirachta indica</i>	5	4.83	2.3985	483	239.85	0.11%
131	Vetty	<i>Antidesma lindleyana</i>	82	53.033	27.905	5303.3	2790.5	1.87%
	Total		4386	4058.758	1999.0958	405875.8	199909.58	

Appendix – XI

2% Enumeration of Growing Stock and the anticipated growth in Kanjirapuzha Watershed

Sl. No.	Local Name	Botanical Name	No. of Trees	Volume		Total Volume in whole area		% Compo sition
				Timber (M ³)	FW (MT)	Timber (M ³)	FW (MT)	
1	Ambazham	<i>Spondias mangifera</i>	18	18.74	16.55	936.85	413.68	1.16%
2	Anjily	<i>Artocarpus hirsuta</i>	102	56.26	93.99	2812.75	2349.63	6.60%
3	Arampuli	<i>Bauhinia racemosa</i>	7	4.23	3.50	211.45	87.45	0.45%
4	Athi	<i>Ficus glomerata</i>	15	22.08	28.11	1103.80	702.80	0.97%
5	Annakara	<i>Gruga pinnata</i>	86	97.47	40.95	4873.60	1023.83	5.56%
6	Akil	<i>Dysoxylum beddomei</i>	1	0.43	0.35	21.55	8.68	0.06%
7	Amathali	<i>Trema orialntis</i>	59	40.13	28.24	2006.65	705.95	3.82%
8	Aval	<i>Holoptelea integrifolia</i>	51	52.36	55.14	2618.00	1378.50	3.30%
9	Chadachi	<i>Grewia tilliaeefolia</i>	217	122.36	150.69	6117.95	3767.33	14.04%
10	Thamari	<i>Elaeocarpus vernustus</i>	6	7.54	8.29	376.95	207.30	0.39%
11	Chandanaveppu	<i>Toona ciliata</i>	1	1.98	2.46	99.00	61.48	0.06%
12	Champa	<i>Eugeniamundagom</i>	48	27.87	32.72	1393.65	818.00	3.10%
13	Cheeni	<i>Tetrameles nudiflora</i>	22	18.47	15.89	923.55	397.18	1.42%
14	Cheru	<i>Holigarna arnotiana</i>	13	12.35	12.36	617.45	308.88	0.84%
15	Cholapoovam	<i>Nepheliumlongana</i>	6	2.99	1.31	149.60	32.73	0.39%
16	Cholaplavu	<i>Artocarpus heterophyllus</i>	3	2.21	1.16	110.50	29.08	0.19%
17	Cholavengi	<i>Bischofia javanica</i>	4	2.72	0.84	135.75	20.95	0.26%
18	Chorapali	<i>Myristica beddomei</i>	11	9.39	5.21	469.50	130.28	0.71%
19	Churuli	<i>Mesua ferrea</i>	15	20.94	13.94	1046.85	348.38	0.97%
20	Dandhapala	<i>Wrightia tinctoria</i>	17	4.35	4.23	217.30	105.68	1.10%
21	Elavu	<i>Bombax ceiba</i>	48	50.16	25.28	2507.80	632.05	3.10%
22	Erumbakam	<i>Hopea parviflora</i>	5	1.98	1.59	99.20	39.75	0.32%
23	Irul	<i>Xylia xylocarpa</i>	230	117.98	165.38	5898.85	4134.45	14.88%
24	Kampili	<i>Evodia lunu ankenda</i>	2	0.64	0.78	32.20	19.45	0.13%
25	Kanakaitha	<i>Sageraea dalzellii</i>	38	26.40	21.72	1319.95	543.08	2.46%
26	Kanjiram	<i>Strychnos nuxvomica</i>	8	4.24	4.55	212.10	113.75	0.52%
27	Karakil	<i>Dysoxylum ficiform</i>	2	0.65	0.79	32.60	19.75	0.13%
28	Kanikonna	<i>Cassia fistula</i>	36	21.64	14.49	1082.15	362.35	2.33%
29	Karimaram	<i>Diospyras ebenum</i>	1	1.26	1.09	63.10	27.25	0.06%
30	Karimaruthu	<i>Terminalia tomentosa</i>	5	2.19	2.58	109.40	64.53	0.32%
31	Karimthakaram	<i>Albizia procera</i>	11	12.27	10.99	613.35	274.75	0.71%
32	Kudampuli	<i>Garcinia cambogia</i>	14	4.08	3.31	204.10	82.73	0.91%
33	Kulamavu	<i>Machilus macrantha</i>	64	41.57	42.83	2078.55	1070.83	4.14%
34	Kunnivaka	<i>Albizia odoratissima</i>	3	0.99	1.22	49.40	30.53	0.19%
35	Kumpil	<i>Gmelina arborea</i>	10	4.62	2.79	231.20	69.75	0.65%
36	Kumizh	<i>Caraya arborea</i>	3	0.65	1.17	32.70	29.18	0.19%
37	Malaveppu	<i>Chukrasia tabularis</i>	5	6.52	4.62	325.75	115.38	0.32%
38	Manjakadampa	<i>Adina cordifolia</i>	13	13.52	16.30	676.15	407.48	0.84%
39	Manjadi	<i>Ormosia travancorica</i>	4	1.30	1.58	65.20	39.50	0.26%
40	Marotty	<i>Hydnocarpus arnottiana</i>	34	40.54	29.23	2027.20	730.73	2.20%

Sl. No.	Local Name	Botanical Name	No. of Trees	Volume		Total Volume in whole area		% Compo sition
				Timber (M ³)	FW (MT)	Timber (M ³)	FW (MT)	
41	Maruthu	<i>Terminalia paniculata</i>	230	173.58	218.98	8679.15	5474.40	14.88%
42	Mavu	<i>Mangifera indica</i>	8	12.17	11.61	608.40	290.13	0.52%
43	Moottithuri	<i>Baccaurea courtallensis</i>	6	2.11	2.58	105.30	64.38	0.39%
44	Murikku	<i>Erythrina indica</i>	55	40.02	29.42	2000.95	735.55	3.56%
45	Myla	<i>Vitex altissima</i>	22	26.55	27.01	1327.35	675.33	1.42%
46	Peenari	<i>Strerculia guttata</i>	1	0.22	0.19	10.90	4.85	0.06%
47	Nelli	<i>Emblica officinalis</i>	1	0.43	0.40	21.70	10.03	0.06%
48	Pali	<i>Paliquium ellipticum</i>	43	26.80	9.66	1340.15	241.58	2.78%
49	Parakam	<i>Ficus hispida</i>	36	29.88	28.34	1493.80	708.38	2.33%
50	Parapoola	<i>Cochlospermum religiosum</i>	36	21.60	22.97	1080.05	574.30	2.33%
51	Peral	<i>Ficus bengalenesis</i>	4	5.11	5.07	255.35	126.73	0.26%
52	Plavu	<i>Artocarpus heterophyllus</i>	4	4.49	5.64	224.50	141.08	0.26%
53	Pottakavala	<i>Sterculia foetida</i>	111	85.68	78.84	4283.85	1970.93	7.18%
54	Poopathiri	<i>Stereospermum chelonoides</i>	40	22.57	22.75	1128.68	568.85	2.59%
55	Poovarasu	<i>Thespesia populnea</i>	1	1.50	1.55	75.15	38.85	0.06%
56	Poovam	<i>Schleichera oleosa</i>	70	39.92	47.45	1996.15	1186.35	4.53%
57	Punna	<i>Calophyllum elatum</i>	96	60.38	45.79	3018.95	1144.73	6.21%
58	Rudrashkam	<i>Elaeocarpus tuberculatus</i>	1	0.26	0.36	12.85	8.88	0.06%
59	Sinduram	<i>Mallotus philippinensis</i>	51	18.43	18.84	921.71	471.05	3.30%
60	Teak	<i>Tectona grandis</i>	59	50.50	16.48	2525.00	412.08	3.82%
61	Thanni	<i>Terminalia bellarica</i>	59	140.20	114.98	7009.80	2874.60	3.82%
62	Vatta	<i>Macaranga peltata</i>	188	127.80	114.26	6389.95	2856.58	12.16%
63	Veeti	<i>Dalbergia latifolia</i>	30	22.53	30.01	1126.65	750.33	1.94%
64	Vellanama	<i>Anogeissus latifolia</i>	7	3.29	3.39	164.40	84.65	0.45%
65	Vellapine	<i>Vateria indica</i>	84	71.24	46.28	3561.95	1157.10	5.43%
66	Venga	<i>Pterocarpus marsupium</i>	57	56.35	70.78	2817.50	1769.53	3.69%
67	Venteak	<i>Lagerstromia lanceolata</i>	71	41.59	33.80	2079.65	844.88	4.59%
68	Velleetty	<i>Dalbergia lanceolaria</i>	48	35.42	42.90	1771.15	1072.53	3.10%
69	Vetti (Edala)	<i>Aporasa lindleyana</i>	134	86.19	60.28	4309.40	1506.95	8.67%
70	Vaka	<i>Albezia lebbek</i>	206	21.76	193.90	1087.85	4847.45	13.32%
71	Vakka	<i>Sterculia foetida</i>	9	7.51	11.54	375.35	288.38	0.58%
72	Njaval	<i>Syzygium cumini</i>	2	1.94	1.35	96.80	33.68	0.13%
73	Pala	<i>Tabernaemontana heyneana</i>	26	9.10	10.97	454.75	274.15	1.68%
74	Aal	<i>Ficus</i>	17	36.83	44.15	1841.35	1103.83	1.10%
75	Matty	<i>Ailanthus malabaricam</i>	17	13.16	11.84	657.95	296.00	1.10%
76	Urvanchi	<i>Sapindus</i>	18	7.41	6.13	370.35	153.30	1.16%
77	Therakam	<i>Ficus asperrima</i>	3	1.56	1.41	77.80	35.20	0.19%
78	Neernechi	<i>Vitex leucoxylon</i>	18	7.15	4.05	357.30	101.23	1.16%
	Total		1546	1058.12	1105.76	52906.14	27644.08	

Appendix – XII

2% Enumeration Growing Stock and the anticipated growth in Nellipuzha Watershed

Sl. No.	Local Name	Botanical Name	No. of Trees	Volume		Total Volume in whole area		% Composition
				Timber (M ³)	FW (MT)	Timber (M ³)	FW (MT)	
1	Aal	<i>Ficus benghalensis</i>	7	17.742	20.705	350	887.1	0.16%
2	Ambazham	<i>Spondias mangifera</i>	5	4.132	4.571	250	206.6	0.12%
3	Anjali	<i>Artocarpus hirsuta</i>	29	6.674	20.805	1450	333.7	0.67%
4	Arampuli	<i>Bauhinia racemosa</i>	61	25.819	17.472	3050	1290.95	1.41%
5	Athi	<i>Ficus glomerata</i>	247	256.955	247.949	12350	12847.75	5.72%
6	Aval	<i>Holoptelea integrifolia</i>	1	0.552	0.443	50	27.6	0.02%
7	Chadachi	<i>Grewia tiliacolia</i>	602	263.65	322.78	30100	13182.5	13.93%
8	Chembakam	<i>Michila champaca</i>	1	1.889	1.469	50	94.45	0.02%
9	Cheru	<i>Holigarna arnotiana</i>	8	4.1	3.975	400	205	0.19%
10	Cholapovam	<i>Nephelium longana</i>	4	4.656	3.211	200	232.8	0.09%
11	Churuli	<i>Messua ferria</i>	3	0.654	1.167	150	32.7	0.07%
12	Dandapala	<i>Wrightia tinctoria</i>	39	8.784	14.952	1950	439.2	0.90%
13	Edala	<i>Olea dioica</i>	5	2.776	2.266	250	138.8	0.12%
14	Eetty	<i>Aporasa lindleyana</i>	81	32.438	55.264	4050	1621.9	1.87%
15	Elavu	<i>Bombax ceiba</i>	191	167.036	36.609	9550	8351.8	4.42%
16	Erumbakam	<i>Hopea parviflora</i>	3	4.992	4.877	150	249.6	0.07%
17	Ezhilampala	<i>Alstonia scholaris</i>	7	5.76	6.368	350	288	0.16%
18	Irul	<i>Xylia xylocarpa</i>	646	163.41	210.052	32300	8170.5	14.95%
19	Kalathi	<i>Ficus microcarpa</i>	1	1.352	1.309	50	67.6	0.02%
20	Kallanama	<i>Anogeissus Latifolia</i>	35	9.692	16.716	1750	484.6	0.81%
21	Kambili	<i>Evodia lunu ankenda</i>	2	2.194	1.837	100	109.7	0.05%
22	Kanakam	<i>Sageraea dalzelli</i>	5	1.94	1.945	250	97	0.12%
23	Kanakaitha	<i>Sageraea dalzelli</i>	24	12.881	8.293	1200	644.05	0.56%
24	Kara	<i>Lania grandis</i>	109	70.306	50.412	5450	3515.3	2.52%
25	Karakil	<i>Aglaia barberi Gamble</i>	1	1.651	1.346	50	82.55	0.02%
26	Karimaruthu	<i>Terminalia tomentosa</i>	34	12.846	14.822	1700	642.3	0.79%
27	Karimthakara	<i>Albizia procera</i>	33	15.655	14.629	1650	782.75	0.76%
28	Kanjiram	<i>Strychnos nux-vomica</i>	3	0.87	1.167	150	43.5	0.07%
29	Kodampuli	<i>Garcinia cowa Roxb</i>	3	2.611	0.704	150	130.55	0.07%
30	Konna	<i>Cassia fistula</i>	4	1.296	0.917	200	64.8	0.09%
31	Kungiliyam	<i>Boswellia serrata Roxb</i>	2	2.524	2.18	100	126.2	0.05%
32	Kulamavu	<i>Persea macrantha</i>	12	13.514	7.163	600	675.7	0.28%
33	Kumbil	<i>Gmelina arborea</i>	4	6.603	3.336	200	330.15	0.09%
34	Kumizhu	<i>Caraya arborea</i>	14	10.046	11.11	700	502.3	0.32%
35	Manjakadambu	<i>Adina cordifolia</i>	3	0.334	1.908	150	16.7	0.07%
36	Manjiyam	<i>Acacia manjiyam</i>	44	16.906	19.217	2200	845.3	1.02%
37	Maruthu	<i>Terminalia paniculata</i>	491	197.162	237.273	24550	9858.1	11.36%
38	Mavu	<i>Mangifera indica</i>	1	0.8	0.69	50	40	0.02%
39	Misc		17	9.564	9.885	850	478.2	0.39%

Sl. No.	Local Name	Botanical Name	No. of Trees	Volume		Total Volume in whole area		% Compo sition
				Timber (M ³)	FW (MT)	Timber (M ³)	FW (MT)	
40	Mulluvenga	<i>Bridelia retusa</i>	17	7.8296	6.803	850	391.48	0.39%
41	Murukku	<i>Erythrina indica</i>	125	97.111	64.917	6250	4855.55	2.89%
42	Mutttilpazham	<i>Baccaurea courtallensis</i>	2	3.006	3.008	100	150.3	0.05%
43	Myllepelli	<i>Vitex altissima</i>	4	3.098	4.957	200	154.9	0.09%
44	Nelli	<i>Emblica officinalis</i>	20	5.042	3.459	1000	252.1	0.46%
45	Nettaval	<i>Holoptelea integrifolia</i>	30	14.06	14.57	1500	703	0.69%
46	Odagu	<i>Cleistanthus collinus</i>	4	1.422	1.622	200	71.1	0.09%
47	Pala	<i>Alstonia scholaris</i>	41	25.154	22.235	2050	1257.7	0.95%
48	Pali	<i>Paliquium ellipticum</i>	2	0.963	0.264	100	48.15	0.05%
49	Parakam	<i>Ficus hispida</i>	42	18.899	21.471	2100	944.95	0.97%
50	Pathiri	<i>stereospermum chelonoides</i>	7	7.839	7.448	350	391.95	0.16%
51	Parapoola	<i>Cochlospermum relegiosum</i>	19	6.77	8.89	950	338.5	0.44%
52	Peenari	<i>Strerculia guttata</i>	1	0.218	0.389	50	10.9	0.02%
53	Perumaram	<i>Ailanthus triphysa</i>	1	0.332	0.389	50	16.6	0.02%
54	Pezhu	<i>Careya arborea</i>	2	0.436	0.778	100	21.8	0.05%
55	Pine	<i>Vateria indica</i>	33	50.433	53.783	1650	2521.65	0.76%
56	Plash	<i>Butea monosperma</i>	4	1.76	1.511	200	88	0.09%
57	Poovam	<i>Schleichera oliosa</i>	34	9.329	13.739	1700	466.45	0.79%
58	Pottakkala	<i>Sterculia foetida</i>	48	23.838	29.001	2400	1191.9	1.11%
59	Punna	<i>Calophyllum tomentosum</i>	164	68.424	45.259	8200	3421.2	3.80%
60	Sindhooram	<i>Mallotus philippinensis</i>	31	10.998	11.248	1550	549.9	0.72%
61	Teak	<i>Tectona grandis</i>	78	28.558	18.188	3900	1427.9	1.81%
62	Thakara	<i>Meliosma pinnata</i>	3	0.654	1.167	150	32.7	0.07%
63	Thaliru	<i>Flacourtiaceae jangomas</i>	2	1.504	0.941	100	75.2	0.05%
64	Thanni	<i>Terminalia bellerica</i>	214	127.636	117.999	10700	6381.8	4.95%
65	Uruvanchi	<i>Sapindus emarginatus</i>	8	2.72	2.795	400	136	0.19%
66	Vaka	<i>Albiza lebbeck</i>	189	140.226	114.64	9450	7011.3	4.37%
67	Vakka	<i>Albizia odorissima</i>	35	12.472	14.658	1750	623.6	0.81%
68	Vatta	<i>Macaranga peltata</i>	95	38.126	41.558	4750	1906.3	2.20%
69	Vellakkil	<i>Dysoxylum malabaricum</i>	1	0.932	0.847	50	46.6	0.02%
70	Vellakumizhu	<i>Gmelina arborea</i>	3	1.9	1.473	150	95	0.07%
71	Venga	<i>Pterocarpus marsupium</i>	73	29.534	41.981	3650	1476.7	1.69%
72	Venteak	<i>Logarstroemia lanceolata</i>	207	109.473	92.623	10350	5473.65	4.79%
		Total	4321	2213.463	2146.41	216050	110673.1	

Appendix – XIII

2% Enumeration Growing Stock and the anticipated growth in Kuntipuzha Watershed

Sl. No.	Local Name	Botanical Name	No. of Trees	Volume		Total Volume		% Compo sition
				Timber (M ³)	FW (MT)	Timber (M ³)	FW (MT)	
1	Aal	<i>Ficus benghalensis</i>	5	6.216	10.532	310.8	263.3	0.33%
2	Anjili	<i>Artocarpus hirsuta</i>	2	3.125	3.954	156.25	98.85	0.13%
3	Annakkara	<i>Garuga gambei</i>	41	28.448	26.106	1422.4	652.65	2.73%
4	Arampuli	<i>Bauhinia malabarica</i>	8	0.654	1.167	32.7	29.175	0.53%
5	Athi	<i>Ficus racemosa</i>	15	10.536	15.088	526.8	377.2	1.00%
6	Chadachi	<i>Grewia tilifolia</i>	103	66.458	102.852	3322.9	2571.3	6.86%
7	Cheeni	<i>Tetrameles nudiflora</i>	2	9.574	10.14	478.7	253.5	0.13%
8	Edana	<i>Olea dioica</i>	7	2.812	2.003	140.6	50.075	0.47%
9	Elavu	<i>Bombax ceiba</i>	30	33.028	17.406	1651.4	435.15	2.00%
10	Irul	<i>Xylia xylocarpa</i>	263	158.364	193.927	7918.2	4848.18	17.51%
11	Kanakaitha	<i>Sageraea dalzelli</i>	16	6.07	6.84	303.5	171	1.07%
12	Karimaruthu	<i>Terminaliaa tormentosa</i>	29	45.324	46.655	2266.2	1166.38	1.93%
13	Karimthakara	<i>Albizia procera</i>	28	18.132	17.245	906.6	431.125	1.86%
14	Konna	<i>Cassia fistula</i>	4	0.872	1.774	43.6	44.35	0.27%
15	Kumizh	<i>Caraya arborea</i>	5	5.523	6.405	276.15	160.125	0.33%
16	Maruthu	<i>Terminalia Paniculata</i>	254	217.561	304.385	10878.1	7609.63	16.91%
17	Matti	<i>Ailanthus excelsa</i>	1	0.218	0.389	10.9	9.725	0.07%
18	Mavu	<i>Mangifera indica</i>	3	1.444	1.396	72.2	34.9	0.20%
19	Mullilavu	<i>Zanthoxylum rhesta</i>	1	0.434	0.401	21.7	10.025	0.07%
20	Murikku	<i>Erythrina indica</i>	4	0.872	1.556	43.6	38.9	0.27%
21	Mylillus	<i>Vitex altissima</i>	8	9.461	10.192	473.05	254.8	0.53%
22	Nama	<i>Conocarpus latifolia</i>	129	53.276	73.396	2663.8	1834.9	8.59%
23	Nelli	<i>Emblica officinalis</i>	48	20.658	25.304	1032.9	632.6	3.20%
24	Nettaval	<i>Holoptelea intriphonea</i>	11	6.99	7.13	349.5	178.25	0.73%
25	Nettavil	<i>Holoptelea intriphonea</i>	2	0.682	0.79	34.1	19.75	0.13%
26	Pala	<i>Alstonia scholaris</i>	32	31.889	37.17	1594.45	929.25	2.13%
27	Pali	<i>Palaquium ellipticum</i>	1	0.792	0.144	39.6	3.6	0.07%
28	Parakam	<i>Ficus hispida</i>	10	3.76	4.615	188	115.375	0.67%
29	Parapoola	<i>Bombax religiosum</i>	11	11.905	17.466	595.25	436.65	0.73%
30	Pathiri	<i>Stereospermum chelonoides</i>	3	2.13	1.892	106.5	47.3	0.20%
31	Pezhu	<i>Caraya arborea</i>	12	3.628	4.944	181.4	123.6	0.80%
32	Poovam	<i>Schleichera oleosa</i>	9	15.496	22.59	774.8	564.75	0.60%
33	Pottakkala	<i>Sterculia foetida</i>	9	8.142	9.255	407.1	231.375	0.60%
34	Punna	<i>Calophyllum inophyllum</i>	64	43.133	44.289	2156.65	1107.23	4.26%
35	sindhuram	<i>Mallotus philippensis</i>	15	5.574	6.213	278.7	155.325	1.00%
36	Teak	<i>Tectona grandis</i>	9	4.851	3.699	242.55	92.475	0.60%
37	Thanni	<i>Trminalia bellerica</i>	36	58.911	88.578	2945.55	2214.45	2.40%
38	Vaka	<i>Albizia lebbeck</i>	119	96.588	117.541	4829.4	2938.53	7.92%
39	Vatta	<i>Macranga peltata</i>	13	8.404	10.173	420.2	254.325	0.87%
40	Veetty	<i>Dalbergia latifolia</i>	5	0.84	3.294	42	82.35	0.33%
41	Venga	<i>Pterocarpus marsupium</i>	66	17.68	25.502	884	637.55	4.39%
42	Venteak	<i>Lagerstroemia lanceolata</i>	68	157.923	169.939	7896.15	4248.48	4.53%
43	Vetti	<i>Antidesma lindleyana</i>	1	0.218	0.389	10.9	9.725	0.07%
Total			1502	1178.6	1454.7	58930	36368	

Appendix – XIV

Abstract of 0.01% Enumeration of Regeneration survey in Bhavani Watershed

Sl. No	Species	Scientific Name	Seedlings Nos.	Saplings Nos.	Poles Nos.	Total Nos.	% Composition
1	Annakara	<i>Garuga gambei</i>	34	27	19	80	0.77%
2	Arampuli	<i>Bauhinia malabarica</i>	50	52	57	159	1.53%
3	Aththi	<i>Ficus racemosa</i>	12	9	23	44	0.42%
4	Ampazham	<i>Magifera Pinnata</i>		0	1	1	0.01%
5	Bhuthali	<i>Celtis philippensis</i>	10	8	16	34	0.33%
6	Chadachi	<i>Grewia tilifolia</i>	491	388	305	1184	11.43%
7	Cheeni	<i>Tetrameles nudiflora</i>			1	1	0.01%
8	Cheru	<i>Holigarna arnottiana</i>	4	3	7	14	0.14%
9	Churuli	<i>Mesua ferrea</i>	103	88	75	266	2.57%
10	Elavu	<i>Bombax ceiba</i>	25	15	18	58	0.56%
11	Elangi	<i>Mimusopselangi</i>	74	47	31	152	1.47%
12	Edana	<i>Olea dioica</i>	96	71	44	211	2.04%
13	Ezhilampala	<i>Alstonia scholaris</i>	0	0	1	1	0.01%
14	Ficus	<i>Ficus bengalensis</i>	11	2	2	15	0.14%
15	Iththi	<i>Ficus tinctoria</i>	6	0	5	11	0.11%
16	Irul	<i>Xylia xylocarpa</i>	10	4	1	15	0.14%
17	Irumpakam	<i>Hopea parviflora</i>	4	3	0	7	0.07%
18	Kanikonna	<i>Cassia fistula</i>	99	68	49	216	2.08%
19	Kara	<i>Elaeocarpus seratus</i>	20	20	19	59	0.57%
20	Kumpil	<i>Euodia roxburghiana</i>	22	19	13	54	0.52%
21	Kazhani	<i>Bridelia retusa</i>	19	30	21	70	0.68%
22	Kulamavu	<i>Machilus macrantha</i>	30	29	28	87	0.84%
23	Karimthakara	<i>Albizia procera</i>	131	85	72	288	2.78%
24	Karivelakam	<i>Acaciaferruginea</i>	1	1	0	2	0.02%
25	Kallannava	<i>Muliusa tomentosa</i>	57	34	54	145	1.40%
26	Kaarimaram	<i>Diospyros sylvatica</i>	3	1	0	4	0.04%
27	Kudampuli	<i>Garcinia gummi-gutta</i>	1	0	0	1	0.01%
28	Kariveppu	<i>Muraya paniculata</i>	2	0	0	2	0.02%
29	Kanhiram	<i>Strychnosnux-vomica</i>	0	0	1	1	0.01%
31	Myla	<i>Vitexaltissima</i>	1	1	0	2	0.02%
34	Manjakadampa	<i>Haldina cordifolia</i>	0	0	2	2	0.02%
35	Nava	<i>Conocarpus latifolia</i>	202	192	240	634	6.12%
36	Nelli	<i>Emblica officinalis</i>	108	77	59	244	2.35%
37	Pathiri	<i>Stereospermum chelonoide</i>	68	77	50	195	1.88%
38	Poovam	<i>Schleichera oleosa</i>	379	255	199	833	8.04%
39	Parakam	<i>Ficus hispida</i>	99	85	62	246	2.37%
40	Pala	<i>Tabernaemontana heyneana</i>	35	31	19	85	0.82%
41	Parapoola	<i>Bombax religiosa</i>	1	1	1	3	0.03%
42	Pali	<i>Palaquium ellipticum</i>	77	56	68	201	1.94%
43	Potakala	<i>Sterculia foetida</i>	36	43	34	113	1.09%
44	Punna	<i>Calophyllum inophyllum</i>	30	12	11	53	0.51%
45	Plavu	<i>Artocarpus heterophyllus</i>	18	9	6	33	0.32%
46	Maruthu	<i>Terminalia paniculata</i>	22	15	16	53	0.51%
48	peraal	<i>Ficus bengalensis</i>	4	3	5	12	0.12%
49	Sindhuram	<i>Mallotus philippensis</i>	464	400	244	1108	10.69%
50	Dandhapala	<i>Dandhapala</i>	62	30	13	105	1.01%
51	Teak	<i>Tectonagrantis</i>	103	132	185	420	4.05%
52	Urvanchi	<i>Sapidus</i>	5	4	8	17	0.16%
53	Ungu	<i>Pongamia pinnata</i>	27	15	8	50	0.48%
54	Vatta	<i>Macrangapeltata</i>	75	53	29	157	1.52%
55	Pana	<i>Caryata urens</i>	18	9	6	33	0.32%
56	Vaka	<i>Albeziaproceria</i>	428	350	276	1054	10.17%
57	Venteak	<i>Lagerstroemia laceoleolata</i>	102	92	57	251	2.42%
58	Thanni	<i>Terminalia bellerica</i>	45	32	18	95	0.92%
59	Venga	<i>Pterocarpus marsupium</i>	253	202	183	638	6.16%
60	Eetty	<i>Darbergia latifolia</i>	195	174	173	542	5.23%
Total			4172	3354	2835	10361	
Percentage Composition			40.27%	32.37%	27.36%		

Appendix – XV

Abstract of 0.01% Enumeration of Regeneration survey in Siruvani Watershed

Sl. No	Species	Scientific Name	Seedlings Nos.	Saplings Nos.	Poles Nos.	Total Nos.	% Composition
1	Annakara	<i>Garuga gambei</i>	7	9	12	28	0.53%
2	Arampuli	<i>Bauhinia malabarica</i>	21	8	6	35	0.66%
3	Aththi	<i>Ficus racemosa</i>	7	3	8	18	0.34%
4	Akil	<i>Dysoxylum beddomei</i>	8	14	11	33	0.62%
5	Chandanam	<i>Sandalum album</i>	26	93	1	120	2.25%
6	Chadachi	<i>Grewia tilifolia</i>	7	9	12	28	0.53%
7	Cheeni	<i>Tetrameles nudiflora</i>	14	7	9	30	0.56%
8	Cheru	<i>Holigarna arnottiana</i>	68	58	23	149	2.80%
9	Peenari	<i>Sterculia foetida</i>	39	40	22	101	1.90%
10	Churuli	<i>Mesua ferrea</i>	252	204	108	564	10.59%
11	Cholavenga	<i>Bischofia javanica</i>	22	12	9	43	0.81%
12	Eetty	<i>Dalbergia latifolia</i>	13	9	12	34	0.64%
13	Elavu	<i>Bombax ceiba</i>		5	4	9	0.17%
14	Ficus	<i>Ficus bengalensis</i>	14	9	7	30	0.56%
15	Irumpakam	<i>Hopea parviflora</i>	74	46	22	142	2.67%
16	Kanikonna	<i>Cassia fistula</i>	22	9	12	43	0.81%
17	Kadukka	<i>Terminalia chebula</i>	32	9	13	54	1.01%
18	Kumpil	<i>Euodia roxburghiana</i>	5	4	3	12	0.23%
19	Kazhani	<i>Bridelia retusa</i>	5	6	5	16	0.30%
20	Kulamavu	<i>Machilus macrantha</i>	12	10	12	34	0.64%
21	Karimthakara	<i>Albizia procera</i>	9	7	6	22	0.41%
22	Kampili	<i>Euodia roxburghiana</i>	12	17	20	49	0.92%
23	Karivelakam	<i>Acacia ferruginea</i>		4	4	8	0.15%
24	Kaarimaram	<i>Diospyros sylvatica</i>	30	34	41	105	1.97%
25	Kudampuli	<i>Garcinia gummi-gutta</i>	102	84	62	248	4.66%
26	Karigali	<i>Acacia cattachu</i>	2	3	5	10	0.19%
27	Malaveppu	<i>Mela dubia</i>	1	12	7	20	0.38%
28	Myla	<i>Vitex altissima</i>	9	2	12	23	0.43%
29	Murukku	<i>Erythrina indica</i>	12	7	4	23	0.43%
30	Manjakadampa	<i>Haldina cordifolia</i>	21	23	12	56	1.05%
31	Nava	<i>Conocarpus latifolia</i>	17	23	26	66	1.24%
32	Njaval	<i>Syzygium cuminae</i>	156	108	102	366	6.87%
33	Nelli	<i>Emblica officinalis</i>	20	12	6	38	0.71%
34	Pathiri	<i>Stereospermum cheloneoides</i>	9	7	4	20	0.38%
35	Poovam	<i>Schleichera oleosa</i>	39	34	44	117	2.20%
36	Parakam	<i>Ficus hispida</i>	9	7	8	24	0.45%
37	Pali	<i>Palaquium ellipticum</i>	218	194	72	484	9.09%
38	Punna	<i>Calophyllum inophyllum</i>	12	9	8	29	0.54%
39	Plavu	<i>Artocarpus heterophyllus</i>	9	7	12	28	0.53%
40	peraal	<i>Ficus bengalensis</i>	13	4	7	24	0.45%
41	Sindhuram	<i>Mallotus philippensis</i>	14	12	10	36	0.68%
42	Teak	<i>Tectonagrantis</i>	14	8	12	34	0.64%
43	Ungu	<i>Pongamia pinnata</i>	2	1	3	6	0.11%
44	Vayana	<i>Cinnamomum malabatruit</i>	5	4	2	11	0.21%
45	Vatta	<i>Macrangapeltata</i>	102	38	64	204	3.83%

Sl. No	Species	Scientific Name	Seedlings Nos.	Saplings Nos.	Poles Nos.	Total Nos.	% Composition
46	Vaka	<i>Albeziaproceria</i>	12	14	9	35	0.66%
47	Velleety	<i>Dalbergia lanceolaria</i>	4	5	7	16	0.30%
48	Thanni	<i>Terminalia bellerica</i>	9	12	8	29	0.54%
49	Venga	<i>Pterocarpusmarsupium</i>	5	8	12	25	0.47%
50	Kanakaitha	<i>Muliusa tomentosa</i>	9	7	6	22	0.41%
51	Kumpil	<i>Gmelina arborea</i>	5	4	3	12	0.23%
52	Vediplavu	<i>Cullenia excelsa</i>	47	52	62	161	3.02%
53	Vetty	<i>Antidesma lindleyana</i>	19	18	23	60	1.13%
54	Cholachadachi	<i>Heritiera papilio</i>	21	20	14	55	1.03%
55	Cholapoovam	<i>Nephelium longana</i>	36	12	9	57	1.07%
56	Kanakaitha	<i>Sageraea daizelli</i>	12	8	10	30	0.56%
57	Kalladampa	<i>Drypetes elata</i>	4	2	2	8	0.15%
58	Vayal	<i>Poecilolearonindicum</i>	4	2	2	8	0.15%
59	Rudraksham	<i>Elaeocarpus seratus</i>	10	4	3	17	0.32%
60	Cheerala	<i>Nepheliumlongana</i>	19	7	4	30	0.56%
61	Mullanpali	<i>Culleniaexcelsa</i>	112	46	67	225	4.22%
62	Mavu	<i>Mangifera indica</i>	16	9	12	37	0.69%
63	Vellapine	<i>Veteria indica</i>	26	18	17	61	1.15%
64	Kozhivalan	<i>Agrostistachyslongifolia</i>	59	47	42	148	2.78%
65	Valemani	<i>Gomphia seratta</i>	60	32	37	129	2.42%
66	Choriyan	<i>Eugenia montana</i>	24	22	16	62	1.16%
67	Mulakunari	<i>Baccaurea courtallensis</i>	100	37	24	161	3.02%
68	Elavangam	<i>Cinnamomum zeylanicum</i>	9	7	12	28	0.53%
69	Kurangatty	<i>Acrocarpus</i>	9	7	6	22	0.41%
70	Chuvannakil	<i>Toona ciliata</i>	7	4	4	15	0.28%
71	Thelli	<i>Canarium stictum</i>	12	9	6	27	0.51%
72	Mootilpazhm	<i>Baccaurea courtallensis</i>	9	7	6	22	0.41%
73	Kalkanhiram	<i>Anogeissus latifolia</i>	39	12	9	60	1.13%
74	Peenari	<i>Sterculia foetida</i>	72	9	12	93	1.75%
75	Jathika	<i>Myristica malabarica</i>	9	12	7	28	0.53%
76	Kottan	<i>Ziziphus glabrata</i>	3	2	1	6	0.11%
77	Verukutheeni	<i>Acronychia pedunculata</i>	42	9	12	63	1.18%
		<i>Total</i>	2309	1689	1328	5326	
		<i>Percentage composition</i>	43.35%	31.71%	24.93%		

Appendix – XVI

Abstract of 0.02% Enumeration of Regeneration survey in Kanjirappuzha Watershed

Sl. No	Species	Scientific Name	Seedlings Nos.	Saplings Nos.	Poles Nos.	Total Nos.	%Composition
1	Aal	<i>Ficus benghalensis</i>	10	2	0	12	0.31%
2	Akil	<i>Dysoxylum beddomei</i>	3	2	1	6	0.16%
3	Ampazham	<i>Mangifera Pinnata</i>	8	4	2	14	0.36%
4	Amathali	<i>Dysoxylumbinectiferum</i>	14	14	20	48	1.24%
5	Arampuli	<i>Bauhinia malabarica</i>	2	1		3	0.08%
6	Anhily	<i>Artocarpus hirsutus</i>	9	10	9	28	0.72%
7	Aththi	<i>Ficus racemosa</i>	8	8	3	19	0.49%
8	Attuvanchi	<i>Hardwickia vahliana</i>	8	13	12	33	0.85%
9	Chadachi	<i>Grewia tiliifolia</i>	103	173	66	342	8.85%
10	Chandanaveppu	<i>Cedrela toona</i>	3	2		5	0.13%
11	Cheru	<i>Holigarna arnottiana</i>	18	18	17	53	1.37%
12	Cholavenga	<i>Bischofia javanica</i>	3	10		13	0.34%
13	Chorapathiri	<i>Myristicaattenuata</i>	10	16	3	29	0.75%
14	Chorapine	<i>Knema attenuata</i>	24	20	14	58	1.50%
15	Chukannakil	<i>Chukrasia tabularis</i>	3			3	0.08%
16	Churuli	<i>Mesua ferrea</i>	9	5	5	19	0.49%
17	Dandhapala	<i>Wrightia tinctoria</i>	30	34	43	107	2.77%
18	Edampiri	<i>Helictres ixora</i>	45	21	8	74	1.91%
19	Edana	<i>Olea dioica</i>	31	20	19	70	1.81%
20	Eerampana	<i>Carayota urens</i>	4	0		4	0.10%
21	Eetty	<i>Dalbergia latifolia</i>	12	4	12	28	0.72%
22	Ponnampaya	<i>Myristica malabaica</i>	17	11	7	35	0.91%
23	Irumpakam	<i>Hopea parviflora</i>	8	10	5	23	0.59%
24	Ilavu	<i>Bombax ceiba</i>	22	16	7	45	1.16%
25	Illiipa	<i>Madhucaindica</i>	2	3	4	9	0.23%
26	Irlu	<i>Xylia xylocarpa</i>	247	82	224	553	14.30%
27	Iyoli	<i>Actinodahnmadrspatana</i>	7	8	12	27	0.70%
28	Kallithi	<i>Ficus retusa</i>	1	1		2	0.05%
29	Kampili	<i>Euodiaroxburghiana</i>	9	2		11	0.28%
30	Kanakam	<i>Miliusa wightiana</i>	11	8	4	23	0.59%
31	Kanhiram	<i>Strychnos nux-vomica</i>	9	7	5	21	0.54%
32	Kadampu	<i>Neolamarckia cadamba</i>	1	2		3	0.08%
33	Kara	<i>Elaeocarpus serratus</i>	14	5	6	25	0.65%
34	Karimaruthu	<i>Terminalia tomentosa</i>	20	4	5	29	0.75%
35	Karivalli	<i>Agrostistachys longifolia</i>	11	10	7	28	0.72%
36	Karivetty	<i>Antidesma bunius</i>	6	1		7	0.18%
37	Kampakam	<i>Hopea ponga</i>	4	0		4	0.10%
39	Kattunarakam	<i>Atlandia racemosa</i>	2	2	1	5	0.13%
40	Kodampuli	<i>Garcinia gummi-gutta</i>	11	14	4	29	0.75%
41	Kodakapala	<i>Holarrhena antidyseterica</i>	44	48		92	2.38%
42	Konna	<i>Cassia fistula</i>	15	12	10	37	0.96%
43	Kurangatty	<i>Acrocarpus fraxinifolius</i>	7	9	3	19	0.49%
44	Kulirmavu	<i>Machilus macrantha</i>	14	9	3	26	0.67%
45	Kumpil	<i>Gmelina arborea</i>	19	8	10	37	0.96%
46	Malayuram	<i>Pterospermumreticulatum</i>	5	5	3	13	0.34%
47	Manchady	<i>Ormosia travancorica</i>	8	0	2	10	0.26%
48	Mantharam	<i>Bauhinia racemosa</i>	2	2		4	0.10%
49	Marotty	<i>Hydnocarpus pentandra</i>	18	9	4	31	0.80%

Sl. No	Species	Scientific Name	Seedlings Nos.	Saplings Nos.	Poles Nos.	Total Nos.	%Composition
50	Malaveppu	<i>Melia dubia</i>	2			2	0.05%
51	Maruthu	<i>Terminalia Paniculata</i>	67	54	38	159	4.11%
52	Misce		2	1		3	0.08%
53	Mootilpazham	<i>Baccaurea courtallensis</i>	23	5	2	30	0.78%
54	Mavu	<i>Mangifera indica</i>	6	2		8	0.21%
55	Murukku	<i>Erythrina indica</i>	13	13	14	40	1.03%
56	Nama	<i>Conocarpus latifolia</i>	2	1	2	5	0.13%
57	Nettaval	<i>Holoptelea integrifolia</i>	6	7	3	16	0.41%
58	Nelli	<i>Embelia officinalis</i>	10	11	14	35	0.91%
59	Pala	<i>Alstonia scholaris</i>	20	12	16	48	1.24%
60	Pali	<i>Palaquium ellipticum</i>	19	15	3	37	0.96%
61	Parakam	<i>Ficus hispida</i>	22	12	5	39	1.01%
62	Parapoola	<i>Bombax religiosum</i>	10	3	3	16	0.41%
63	Pathiri	<i>Stereospermum chelonoides</i>	15	10	8	33	0.85%
64	Perumaram	<i>Ailanthus excelsa</i>	2	5		7	0.18%
65	Pine	<i>Vateria indica</i>	19	12	10	41	1.06%
66	Poovam	<i>Schleichera oleosa</i>	62	45	21	128	3.31%
67	Pottakkala	<i>Sterculia foetida</i>	12	8	6	26	0.67%
68	Plavu	<i>Artocarpus heterophyllus</i>	9	5	6	20	0.52%
69	Puli	<i>Tamarindus indica</i>	11	3	4	18	0.47%
70	Punna	<i>Calophyllum inophyllum</i>	49	38	26	113	2.92%
71	Puzhakanni	<i>Cleistanthus Zeylanicus</i>	3	0	3	6	0.16%
72	Sinduram	<i>Mallotus philippensis</i>	73	76	57	206	5.33%
73	Therakam	<i>Ficus asperima</i>	2	2	1	5	0.13%
74	Teak	<i>Tectona grantis</i>	19	15	21	55	1.42%
75	Thalir	<i>Flacouria cataphracta</i>	8	12	4	24	0.62%
76	Thanni	<i>Trminalia bellerica</i>	21	25	15	61	1.58%
77	Urvanchi	<i>Sapindus</i>	12	10	14	36	0.93%
78	Vayana	<i>Cinnamomum Malabatum</i>	14	7	18	39	1.01%
79	Vaka	<i>Albizia lebbeck</i>	60	29	33	122	3.16%
80	Vakka	<i>Sterculia villosa</i>	2	2	2	6	0.16%
81	Vatta	<i>Macaranga peltata</i>	117	43	38	198	5.12%
82	Vellapine	<i>Veteria indica</i>		3	1	4	0.10%
83	Venga	<i>Pteracarpus marsupium</i>	22	18	12	52	1.35%
84	Vetty	<i>Antidesma lindleyana</i>	31	20	13	64	1.66%
85	Venteak	<i>Lagerstroemia lanceolata</i>	12	11	16	39	1.01%
86	Vediplavu	<i>Cullenia excelsa</i>	4	2	1	7	0.18%
Total			1672	1202	990	3864	
Percentage Composition			43.27%	31.11%	25.62%		

Appendix – XVII

Abstract of 0.02% Enumeration of Regeneration survey in Nellippuzha Watershed

Sl no	Species	Scientific Name	Seedlings Nos.	Saplings Nos.	Poles Nos.	Total Nos.	% Composition
1	Anjili	<i>Artocarpus hirsuta</i>	3	3	1	7	0.54%
2	Annakara	<i>Elaeocarpus serratus</i>	2	3	1	6	0.46%
3	Arampuli	<i>Bauhinia malabarica</i>	2		6	8	0.61%
4	Chadachi	<i>Grewia tilifolia</i>	20	17	32	69	5.28%
5	Churuli	<i>Mesua ferrea</i>			2		0.00%
6	Cholavenga	<i>Bischofia javanica</i>	8	4	2	14	1.07%
7	DandhaPala	<i>Wrightia tinctoria</i>	12	41	16	69	5.28%
8	Edala	<i>Olea dioica</i>	8	8	1	17	1.30%
9	Eetty	<i>Dalbergia latifolia</i>	4	1	3	8	0.61%
10	Elavu	<i>Bobax ceiba</i>		4	8	12	0.92%
11	Irul	<i>Xyloxylocarpa</i>	131	75	118	324	24.81%
12	Kampili	<i>Evodia lunalankenda</i>		1	1	2	0.15%
13	Kanakaitha	<i>Miliusa tomentosa</i>	9	11	8	28	2.14%
14	Kanhiram	<i>strichnos nux-vomica</i>	13	8	4	25	1.91%
15	Kanikonna	<i>Cassiafissula</i>	3	5	1	9	0.69%
16	Karimthakara	<i>Albezia lebbeck</i>	4	3	1	8	0.61%
17	Karivalli	<i>Agrostistachys bunius</i>	41	20	1	62	4.75%
18	Kudakapala	<i>Holarrhenaantidysentrica</i>	54	31	13	98	7.50%
19	Kudampuli	<i>Garciniacambogia</i>	5	10	0	15	1.15%
20	kulirmavu	<i>MachilusMacrantha</i>	2	1		3	0.23%
21	Maruthu	<i>Terminalia paniculata</i>	31	32	34	97	7.43%
22	Myellu	<i>Vitexaltissima</i>	1	1		2	0.15%
23	Nama	<i>Anogeissus latifolia</i>	1		1		0.00%
24	Nettaval	<i>Holoptelea integrifolia</i>	2	4	2		0.00%
25	Nelli	<i>Emblica officinalis</i>		8	5	13	1.00%
26	Nilanaragam	<i>Limonia crenulata</i>	1			1	0.08%
27	Pala	<i>Tabernaemontana heyneana</i>	4		1	5	0.38%
28	Pali	<i>Palaquium ellipticum</i>	2	1	1	4	0.31%
29	Parakam	<i>Ficus hispida</i>	3	3	5	11	0.84%
30	Pottakala	<i>Sterculia foetida</i>	2		2	4	0.31%
31	Pine	<i>Veteria indica</i>	1	1	1	3	0.23%
32	Poopathiri	<i>Stereospermumcoais</i>	1	1		2	0.15%
33	Poovam	<i>Schleichera oleosa</i>	6	7	6	19	1.45%
34	Punna	<i>Calophyllum austroindicum</i>	24	12	15	51	3.91%
35	Sindhuram	<i>Philippensis</i>	22	11	5	38	2.91%
36	Teak	<i>Tectona grandis</i>			8	8	0.61%
37	Thanni	<i>Terminalia bellirica</i>		22	17	39	2.99%
38	Vaka	<i>Albezia lebbeck</i>	2	32	8	42	3.22%
39	Vatta	<i>Macaranga peltata</i>	124	9	5	138	10.57%
40	Venga	<i>Pterocarpus marsupium</i>	4	0	4	8	0.61%
41	Venteak	<i>Lagerstroemia lanceolata</i>	5	9	18	32	2.45%
42	Vetty	<i>andiderma lintleyana</i>	3	2		5	0.38%
	Total		560	401	357	1306	
	Percentage Composition		42.88%	30.70%	27.34%		

Appendix – XVIII

Abstract of 0.02% Enumeration of Regeneration survey in Kunthipuzha Watershed

Sl. No	Species	Scientific Name	Seedlings in Nos.	Saplings in Nos.	Poles in Nos.	Total in Nos.	% Composition
1	Annakkara	<i>Lania grandis</i>	-	-	8	8	0.75%
2	Aval	<i>Holoptelea integrifolia</i>	-	-	2	2	0.19%
3	Cashew	<i>Anacardiaum oxidens</i>	2	2	-	4	0.37%
4	Chadachi	<i>Grewia tiliacefolia</i>	31	40	18	89	8.29%
5	Cheru	<i>Holigarna arnotiana</i>	-	2	3	5	0.47%
6	Irul	<i>Xylia xylocarpa</i>	124	69	64	257	23.95%
7	Kadukapala	<i>Holarrhena antidysenterica</i>	-	6	3	9	0.84%
8	Kanakaitha	<i>Sageraca dalzellii</i>	-	-	7	7	0.65%
9	Konna	<i>Cashew fistula</i>	8	11	1	20	1.86%
10	Manjapavatta	<i>Wrightia tinctoria</i>	-	5	2	7	0.65%
11	Maruthu	<i>Terminalia paniculata</i>	45	23	20	88	8.20%
12	Misc		11	19	10	40	3.73%
13	Myla	<i>Vitex altissima</i>	43	8	25	76	7.08%
14	Nava	<i>Anogeissus latifolia</i>	27	12	9	48	4.47%
15	Nelli	<i>Emblica officinalis</i>	8	8	1	17	1.58%
16	Pala	<i>Alstonia scholaris</i>	3	9	13	25	2.33%
17	Parakam	<i>Ficus hispida</i>	9	3	1	13	1.21%
18	Parapoola	<i>Sterculia spes.</i>	-	5	2	7	0.65%
19	Pathiri	<i>Stereospermum chelonoides</i>	-	2	-	2	0.19%
20	Pezhu	<i>Careya arborea</i>	-	3	3	6	0.56%
21	Poola	<i>Bombax ceiba</i>	-	5	6	11	1.03%
22	Poovam	<i>Schleichera oleosa</i>	13	23	12	48	4.47%
23	Punna	<i>Calophyllum elatum</i>	29	30	33	92	8.57%
24	Sindhoram	<i>Mallotus philippensis</i>	15	5	4	24	2.24%
25	Teak	<i>Tectona grandis</i>	2	-	-	2	0.19%
26	Thakara	Albizia species	5	1	-	6	0.56%
27	Thanni	<i>Terminalia bellerica</i>	2	4	8	14	1.30%
28	Uruvanchi	<i>Sapindus Laurifolia</i>	0	2	0	2	0.19%
29	Vaka	Albizia species	-	35	42	77	7.18%
30	Vatta	<i>Macaranga peltata</i>	22	15	12	49	4.57%
31	Veeti	<i>Dalbergia latifolia</i>	5	7	3	15	1.40%
32	Venteak	<i>Lagerstromia lanceolata</i>	1	-	2	3	0.28%
	Toal		405	354	314	1073	
	Percentage Composition		37.74%	32.99%	29.26%		

Appendix – XIX

List of Plantations in Mannarkkad Division

1. Mannarkkad Forest Range

Sl. No	Year	Locality	Extent (ha)	
1	1950	Panakkadan	1.2435	
2	1952	Panakkadan	3.1106	
3	1953	Panakkadan	3.6613	
4	1954	Panakkadan	4.2934	
5	1955	Panakkadan	3.7169	
6	1956	Panakkadan	3.3838	
7	1957	Panakkadan	4.4757	
8	1958	Panakkadan	4.0691	
9	1959	Panakkadan	9.3019	
10	1960	Panakkadan	7.3462	
11	1961	Panakkadan	16.4016	
12	1962	Panakkadan	17.4925	
13	1963	Panakkadan	17.0564	
14	1964	Panakkadan	16.3197	
15	1965	Tp Bit I	10.7167	
16	1965	Tp Bit II	4.4952	
17	1966	Panakkadan	19.7436	
18	1968	Panakkadan	5.5677	
19	1976	Tp Bit I	10.0832	
20	1976	Tp Bit II	1.0718	
21	1983	Thathengalam	1.4750	
22	2003	Panakkadan	13.6632	
23	2004	Panakkadan	27.1627	
24	2005	Panakkadan	1.7083	
25	2006	Panakkadan	4.7353	
26	2007	Panakkadan	3.0091	
27	2009	Panakkadan	4.5105	
28	TFS TP	Kacheriparambu	1.0894	
29		Thekkinthitta	1.1738	
30		Vettilachola	1.1985	
	Total		223.2766	
31	1976	Cashew	Thiruvizhamkunnu	2.2056
32	1974	Cashew	Thiruvizhamkunnu	1.3749
33	1995	Cashew	Kanjiramkunnu	11.9984
34	1996	Cashew	Kanjiramkunnu	23.6555
35	1958	Cashew	Kanjiramkunnu	16.1747
36	1957	Cashew	Mulakuvalam	12.9267
37	1956	Cashew	Mulakuvalam	45.0255
38	1983	Cashew	Thathengalam	39.3502
	Total		152.7115	
39	1983	Acacia (Sf)	Thathengalam	6.3863

Sl. No	Year		Locality	Extent (ha)
40	1983	Acacia (Sf)	Thathengalam	4.1791
	Total			10.5654
41	1998	Medicinal	Anamooli	3.7056
42	2005	Medicinal	Vettilachola	2.9241
	Total			6.6297
43		Cane	Anamooli	12.3973
	Total			12.3973
44		Bamboo	Thodukap	22.5979
	Total			22.5979
45	2001	Misc	Panakkadan	1.7083
	Total			1.7083
	Grand Total			429.8867

2. Attappady Forest Range

Sl. No	Year		Locality	Extent (ha)
1	1951	Tp	Pottikkal	0.6463
2	1952	Tp	Pottikkal	1.1391
3	1953	Tp	Pottikkal	1.7018
4	1954	Tp	Pottikkal	4.2108
5	1955	Tp	Pottikkal	7.5095
6	1956	Tp	Pottikkal	8.7504
7	1957	Tp	Pottikkal	4.1988
8	1958	Tp	Pottikkal	3.9781
9	1959	Tp	Pottikkal	8.6289
10	1960	Tp	Pottikkal	19.0847
11	1961	Tp	Pottikkal	14.7662
12	1962	Tp	Pottikkal	14.9174
13	1963	Tp	Pottikkal	13.4154
14	1965	Tp	Pottikkal	16.0277
15	1966	Bit i tp	Pottikkal	15.4442
16	1966	Bit ii tp	Pottikkal	5.3500
17	1967	Bit i tp	Pottikkal	10.7257
18	1967	Bit ii tp	Pottikkal	2.6452
19	1968	Bit i tp	Pottikkal	11.2397
20	1968	Bit ii tp	Pottikkal	3.7311
21	1983	Tp	Pottikkal	13.1669
	Total			181.2779
22	1997	Eucalyptus	Chalayur	55.4882
	Total			55.4882
23	1987	Agave	Pattanakkal	9.6373
	Total			9.6373
24	1987	Cassia	Kunnanchala	5.3004
	Total			5.3004
	Grand total			251.7038

3. Agali Forest Range

Sl. No	Year		Locality	Extent (ha)
1	1998	Acacia	Kallamala	15.7282
2	1998	Acacia	Onthumala bit i	18.7916
3	1998	Acacia	Sholayur	5.2927
4	1999	Acacia	Kurathikallu	4.8794
5	2002	Acacia	Kalkkandi	0.4415
6	2002	Acacia	Manjachola	18.6755
7	2003	Acacia	Kollenkadavu	15.8782
8	2003	Acacia	Kallamala east	5.2007
9	2003	Acacia	Poravalavu	20.4444
10	2004	Acacia	Cholakkad	9.2811
11	2004	Acacia	Chinnaparambu bit i	4.6906
12	2004	Acacia	Chinnaparambu bit ii	1.9868
13	2005	Acacia	Manthampotti	5.4845
14	2005	Acacia	Onthumala bit ii	4.5352
15	2005	Acacia	Thoova	10.7076
16	2007	Acacia	Kakkupady	1.9396
17	1999	Misc (Acaciaa)	Odappotty	10.0122
		Total		153.9698
18	2004	Eucalyptus	Thachamala	22.7449
18	2005	Eucalyptus	Thoova	11.6176
19	2005	Eucalyptus	Thoova	54.0652
		Total		88.4277
22	1992	Mixed	Sambarcode	23.9793
21	1998	Mixed	Methottam	21.4289
22	1995	Mixed	Keeripathi bit ii	5.3707
23	1995	Mixed	Keeripathi bit i	15.0807
24	1998	Cassia	Kulukkur	5.7408
		Total		71.6004
25	2004	Mpca	Sambarcode	7.1611
		Total		7.1611
26	1995	Watershed& 1998 mixed	Kulukkur	85.2666
		Total		85.2666
		Grand Total		164.0281

Appendix – XX

Chief Conservator of Forests letter on the Thinning regime in teak plantations and on the treatment of soft wood plantations

Copy of the letter No.P-5289/93 dated 01-02-1993 from the Chief Conservator of Forests (D) Thiruvananthapuram addressed to the Conservator of Forests, Working Plan and Research Circle, Thiruvananthapuram.

Sub: Working Plan – Treatment of softwood plantation thinning in Teak Plantations – decision – reg.

Ref: Discussion on draft Working Plan held at Olavacode on 15-01-1993.

The general consensus regarding treatment of Softwood Plantation and regime of thinning in Teak Plantation were placed before the Chief Conservator of Forests councils, which discussed them in detail and following decisions, were taken.

Softwood Plantation:

Situation (1) Pure Softwood plantations including block mixtures

- (a) No thinning to be done
- (b) Final felling at 30th year
- (c) Replanting with softwood, if site is suitable otherwise with teak

Situation (2) Softwood and teak in intimate mixture

(a) Growth and stocking of softwood – good

- (i) Remove teak in successive thinning at 8th, 15th and 20th year
- (ii) Final felling at 30th year
- (iii) Replanting with same mixture

(b) Growth and stocking of softwood poor but teak fairing well

- (i) Treat it as pure teak plantation and follow the prescription accordingly
- (ii) Final felling as rotation age of teak and
- (iii) Replanting with teak

(c) Growth and stocking of both softwood and Teak poor

Replanting as early as possible after getting the area inspected by the committee on failed plantations, species to be selected in accordance with recommendations of the committee.

Thinning in Teak Plantation:

Thinning cycle of 5, 10, 15, 20, 30 and 40 may be prescribed in future plantations. Thinning of the 5th year will be Mechanical and all others will be silvicultural thinnings.

It was to be decided to commence intensive Research study for the improvement of softwood plantations and also for arriving at a suitable calendar of operations and package of practice for softwood plantation including manuring, soil working etc. Please instruct the Silvicultural Research Officer to expeditiously chalk out a programme and discuss with us before 10-2-1993.

The above position may be intimated to all Working Plan Officers for information and compliance.

(Sd/-)
Chief Conservator of Forests (D)

Appendix – XXI**Details of Stock in Teak Plantations (Estimate)****1. Mannarkkad Range**

Sl.No	Year of plantations	Effective area (ha)	Expected volume	
			Timber (m ³)	Firewood (MT)
1	1950Tp	1.2435	97.58	58.49
2	1952Tp	3.1106	387.74	200.07
3	1953Tp	3.6613	384.67	229.84
4	1954Tp	4.2934	26.42	14.93
5	1955Tp	3.7169	14.34	7.91
6	1956Tp	3.3838	129.15	76.42
7	1957Tp	4.4757	275.03	156.59
8	1958Tp	4.0691	339.8	196.08
9	1959Tp	9.3019	400.8	224.58
10	1960Tp	7.3462	717.06	430.34
11	1961Tp	16.4016	651.71	365.12
12	1962Tp	17.4925	943.47	575.82
13	1963Tp	17.0564	592	334.06
14	1964Tp	16.3197	2060.63	1163.73
15	1965Tp	10.7167	974.2	552.45
		4.4952		
16	1966Tp	18.4708	1916.53	1053.21
17	1968Tp	5.5677	295.71	167.34
18	1976Tp	11.155	206.47	111.23
19	2003Tp	1.475		6.56
20	2003Tp	13.6632	0	60.73
21	2004Tp	27.1627	0	120.72
22	2005Tp	1.7083	0	7.59
23	2006Tp	4.7353	0	21.05
24	2007Tp	3.0091	0	13.37
25	2009Tp	4.5105	0	20.05
26	Thekkinthitta Tp	1.9804	208.35	64.66
27	Vettilachola Tp	1.1985	210.34	113.48
Total		193.7682	5674.8	3519.98

2. Attappady Range

Sl.No.	Year of Plantations		Effective Area(ha)	Expected Volume	
				Timber(M ³)	Fire Wood(MT)
1	1951	TP	0.6463	18.09	10.64
2	1952	TP	1.1391	52.9877	31.17
3	1953	TP	1.7018	69.3968	40.82
4	1954	TP	4.2106	223.513	131.48
5	1955	TP	7.5095	299.672	176.28
6	1956	TP	8.7504	204.698	116.97
7	1957	TP	4.1988	96.1746	54.96
8	1958	TP	3.9781	105.589	60.34

Sl.No.	Year of Plantations		Effective Area(ha)	Expected Volume	
				Timber(M ³)	Fire Wood(MT)
9	1959	TP	8.6289	135.86	77.63
10	1960	TP	19.0847	173.98	99.42
11	1961	TP	14.7662	357.367	204.21
12	1962	TP	14.9174	103.037	58.88
13	1963	TP	13.4184	437.154	249.8
14	1965	TP	16.0277	33.8732	19.36
15	1966	TP BIT I	15.4442	28.2255	16.13
16	1966	TP BIT II	5.35	11.8492	6.77
17	1967	TP BIT I	10.7257	31.6333	18.08
18	1967	TP BIT II	2.6452	12.354	7.06
19	1968	TP	11.2397	45.4638	25.98
20	1968	TP	3.7311		
21	1983	TP BITI	13.1669	57.5105	106.43
TOTAL			181.2807	2498.43	1512.41

Appendix – XXII

Details of Teak Plantations with Site Quality

Sl. No	Plantation	Effective Area(ha)	Site Quality	Remarks and Recommendations
A. MANNARKKAD RANGE				
1	1950 Panakkadan	1.2435	II, III	Areas Final Felling 2012-13 Misc:growth also occupy the area. Above 45° slope. Gullies formed to be tackled. Regeneration recommended.
2	1952 Panakkadan	3.1106	II	Slope 30° Teak dominates, regeneration recommended Rill formation to be plugged.
3	1953 Panakkadan	3.6613	IV SMC recommended	Misc growth dominates, final felling during 2013-14. After clear felling area is to be reverted back to natural forest. No regeneration of teak proposed
4	1954 Panakkadan	4.2934	I, II SMC recommended	Final Felling during 2014-15, Area is to be regenerated Erosion more.
5	1955 Panakkadan	3.7169	I, II SMC recommended	Final felling during 2015-16. Area is to be regenerated
6	1956 Panakkadan	3.3838	III, IV	Final Felling during 2016, Misc: growth occupy major portion, no regeneration after final felling. Reverted back to natural forest.
7	1957 Panakkadan	4.4757	I, II SMC recommended	Final felling during 2017-18 Rill formation to be tackled. Regeneration after clearfelling.
8	1958 Panakkadan	4.0691	I, II SMC recommended	Final felling during 2018-19 Area is to be regenerated.
9	1959 Panakkadan	9.3019	III, IV	Misc. growth more, final felling during 2019-20, Area to be reverted back to natural less
10	1960 Panakkadan	7.3462	I, II	Final Felling during 2020-less soil depth. Rill and gully formed due to erosion. Area to be regenerated
11	1961 Panakkadan	16.4016	II, III	Final felling during 2021, Misc: growth dominates, Area to be reverted back to natural forest
12	1962 Panakkadan	17.4925	II, III	Final felling during 2022. Area is to be regenerated.
13	1963 Panakkadan	17.0564	I, II	Final thinning(S5) during 2012 as Arrear.
14	1964 Panakkadan	16.3197	III, IV	Final Thinning(S5) during 2012 as Arrear.
15	1965 Panakkadan	15.2119	II, III	Final Thinning during 2012
16	1966 Panakkadan	19.7436	II, III	Final Thinning during 2012
17	1968 Panakkadan	5.5677	II, III	Final Thinning during 2012
18	1976 Panakkadan	11.1550	II, III	Penultimate Thinning 2012(30 th year)
19	2003 Panakkadan	13.6632	Root Trainer Planting	First Silvicultural thinning during 2013-14 and second silvicultural thinning during 2018-19. Heavy stock under planting of medicinal plants by VSS. No operation seen done, tending operations recommended.
20	2004 Panakkadan	27.1627	Stump planting	12 Ha No maintenance work seen done.

Sl. No	Plantation	Effective Area(ha)	Site Quality	Remarks and Recommendations
21	2005 Panakkadan	1.7083	1 st mechanical thinning due on 2010 under planting of vetivera grass by VSS during 2007	First Silvicultural thinning during 2015. VSS planted vetivera grass during 2007, No maintenance work seen done, stock-96%, weed growth more, tending operations recommended second silvicultural thinning during 2020
22	2006 Panakkadan	4.7353		First Silvicultural thinning during 2016-2017 Second Silvicultural thinning during 2021. Root trainer seedlings planted under planting of vetivera grass by VSS, Stock 95% low soil depth, SMC work recommended. Tending operations recommended.
23	2007 Panakkadan	3.0091		Root trainer seedlings planted . Stock 96% Heavy weed growth, climber cutting essential 1 st mechanical thinning during 2012, first Silvicultural thinning during 2017-18
24	2009 Panakkadan	4.5105		Root trainer seedlings planted . Stock 90%. 1 st Mechanical thinning during 2014, 1 st silvicultural thinning during 2019-20. Tending operations recommended
25	Vettila Chola	1.1985		Final thinning may be resorted to when considering the girth and height of teak trees, year of planting not recorded anywhere
26	1984, Thathengalam	1.4750		Fourth Silvicultural thinning recommended during 2014-15
B. ATTAPPADY RANGE				
1	1951 Pottikkal Teak Plantation(T.P)	0.6463	II	Misc.growth occupies the major portion, hence leave the area to go natural.
2	1952 Pottikkal	1.1391	I/II	Good stock, vigorous undergrowth scope for gully plugging. Open gaps found near Reserve Forests
3	1953 Pottikkal	1.7018	I/II	Good stock,bombax planted as intermittent crop, felling of bombax may be decided upon the local situations
4	1954 Pottikkal	4.2108	I	Excess stock. Thinning completed
5	1955 Pottikkal	7.5095	I	Levelled area. Excess stock. Thinning completed but not proper.
6	1956 Pottikkal	8.7504	I	Good crop. Bombax exist as intermittent crop. Excess stock present. Thinning completed. Sufficient stock. Thinning not seen done. Misc. growth less
7	1957 Pottikkal	4.1988	II/III	Sufficient stock. Thinning not seen done misc:growth less.
8	1958 Pottikkal	3.9781	II/I	Slope-30°-40° , growth of teak is poor, partially rocky area
9	1959 Pottikkal	8.6289	II/I	Slope-30°-40° , growth of teak is poor, partially rocky area
10	1960 Pottikkal	19.0847	II/I	Finally thinning completed. Approx:30 trees found dead due to marshy area, elephant damages more.
11	1961 Pottikkal	14.7662	II/I	Final thinning completed, scope for gully plugging Slope 20-30, growth is good in the lower strata. Misc:growth is less
12	1962 Pottikkal	14.9194	III/II	Final thinning completed, kakkupady Ooru nearby firewood collection, grazing more medium stock.
13	1963 Pottikkal	13.4154	III/II	Final thinning completed. Heavy weed growth, firewood collection and cattle grazing more, climber and loranthus have grown vigorously.

Sl. No	Plantation	Effective Area(ha)	Site Quality	Remarks and Recommendations
14	1965 Pottikkal	16.0277	II/III	Finally thinning done in 2008. Teak occupies the major portion. Slope of 20° -30°. Excess stock present
15	1966 Pottikkal Bit I Bit II	15.4442 5.3500	II/III	Final thinning completed in 2007. pottikkal Ooru nearby, Biotic interference more. Soil erosion more, gullies already treated by AHADS
16	1967 Pottikkal Bit I Bit II	10.7257 2.6452	II/III	Biotic interference more. Soil erosion more, gullies already treated by AHADS
	1968 Pottikkal Bit I Bit II	11.2397 3.7311	II/III	Biotic interference more. Soil erosion more, gullies already treated by AHADS
17	1983 Pottikkal	13.1669	II/I	Steep slope of more than 30° Misc: growth dominates the major portion, Rocky area present, scope for gully plugging structures.

Appendix – XXIII

**Details of Post 01/01/1977 encroachment of forest land remaining to be evicted as on
31/10/2011 in Mannarkkad Forest Division (Joint Verification)**

Range	Village	Name and Address	Extent (Acre)
Below 1 Acre			
Agali	Kallamala	Lal, Kurathipara.	0.99
	Kallamala	Madhavan S/o Kurumban, Kallamala	0.29
	Kallamala	Ravi, Kamalalayam, Oonthumala	0.99
	Kallamala	Ravi Puthanpura, oonthumala	0.99
	Kallamala	Nanjankutty, Kallamala, Kurathipara	0.99
	Kallamala	Appukuttan, Padinjarekara, Kurathipara.	0.99
	Kallamala	Mathayi, Kakkattukuzhiyil, Kurathipara	0.99
	Kallamala	Janu W/o Gopi, Kurathipara	0.99
	Kallamala	T.A. Varghese, Kurathipara	0.99
	Kallamala	Velayudhan, Vellambattu	0.99
	Kallamala	Santo Joseph S/o Baby, Vendakkadavu	0.99
	Kallamala	Wilson, Vendakkadavu	0.99
	Kallamala	Poulose, Mundakkal, Chinnapparambu	0.99
	Kallamala	Madanan S/o Kesavan Nair, Kollankadavu	0.99
	Kallamala	Kunjumon, Kollankadavu	0.99
	Kallamala	Thankappan, Thekkara, Vandanpara	0.67
	Kallamala	Jayan, Kallamala	0.99
	Kallamala	Sivadas, Kallamala	0.99
	Kallamala	Mallika W/o Vella, Kallamala	0.99
	Kallamala	Vasu Kizhakkekara, Chinnaparambu	0.5
	Kallamala	Chacko, Vattappilli, Chinnaparambu	0.05
	Kallamala	Pole Vattappilli, Chinnaparambu	0.99
	Kallamala	Yacob, Chinnaparambu	0.99
	Kallamala	Vavachan, Chinnaparambu	0.99
	Kallamala	Babu, Chinnaparambu	0.99
Agali	Kallamala	Schariya, Moleth, Chinnaprambu	0.5
	Kallamala	Damodharan, Chinnaparambu	0.9
	Kallamala	Sivan Kizhanikkara,	0.99
	Kallamala	Sunny Puthuppalli, Chinnaparambu	0.99
	Kallamala	Kunjachan Abrham, Chinnaparambu	0.99
	Kallamala	Sundaran, Kallamala	0.5
	Kallamala	Sudarasan, Kallamala	0.6
	Kallamala	Veera W/o Mari, Kandiyoor	0.99
	Kallamala	Johny Karyamattathil, Ommala	0.6
	Kallamala	Dasan Nadar, Ommala	0.99
	Kallamala	Chandran Ommala	0.39
	Kallamala	Maniyan Kollankadavu	0.99
	Kallamala	Sebastian, Chinnaparambu	0.99
	Kallamala	Moideen Kaka, Ommala	0.5
	Kallamala	Johnson S/o Poulose, Paruthimala	0.99
	Kallamala	Yohannan, Nedumpullithadathil, Paruthimala	0.99
	Kallamala	Nalini Chandran, Ommala	0.72

Range	Village	Name and Address	Extent (Acre)
Agali	Kallamala	M.Shaju S/o Unni, Pakkulam	0.99
	Kallamala	Balakrishnan, Pakkulam	0.99
	Kallamala	Thankappan, Pakkulam	0.99
	Kallamala	Thankachan, Ommala	0.5
	Kallamala	Chellayan Nadar, Ommala	0.5
	Kallamala	Varkichan, Ommala	0.5
	Kallamala	Kolunthan, Paruthimala	0.99
	Agali	Gracy, Venkakadavu	0.99
	Kallamala	Chelan S/o Konan, Paruthimala	0.45
	Kallamala	Vasu, Kurukkankundu	0.5
	Agali	Maruthan S/o Vendari, Thottappura	0.99
	Agali	Vijayasudha, Nellipathy	0.06
	Agali	Mini, Nellipathy	0.05
	Agali	Ulahannan, Nellipathy	0.35
	Agali	Kutappan S/o Chanan, Vadekkadan, Nellipathy	0.1
	Agali	Babu S/o Mathai, Kunathukudi, Chittur.	0.19
	Agali	Joseph, Nellipathy	0.99
	Kallamala	Joe Thupanath, Kurukkankundu	0.39
	Kallamala	Grace Joy, Kozhipurath	0.99
	Kallamala	Annamma Varghese, Kozhippurathil	0.99
	Kallamala	Kali S/o Komali, Nellipathy	0.99
	Kallamala	Kunjukuttan, Kurukkankundu	0.99
	Kallamala	Mary, Kakkuppady	0.99
	Kallamala	Ponni, Kakkuppadi	0.99
	Agali	Sivannan S/o Rangan, Nellipathy	0.74
	Kallamala	Muhammed Puthuvachola, Kakkuppady	0.99
	Agali	Benny S/o Thomas Thottappura	0.99
	Kallamala	Muhammed, Kakkuppady	0.99
	Agali	Sivanan S/o Rangan, Nellipathy	0.74
	Kallamala	Muhammed Puthuvachola, Kakkuppady	0.99
	Agali	Benny S/o Thomas Thottappura, Agali.	0.99
	Kallamala	Muhammed, Kakkuppady	0.99
	Kallamala	Neelakandan Nair, Manthampatty	0.99
	Kallamala	Komban Bappu, Manthampatty	0.99
	Kallamala	Azzy, Payyanatt, Parayankunu, Cholakkadu	0.99
	Kallamala	Suresh, Malappuram,	0.5
	Kallamala	Kochettan, Kakkuppady	0.99
	Kallamala	Saheer, Kakkuppady	0.11
	Kallamala	Abdul Rahiman, Kakkuppady	0.11
	Kallamala	Saidu Muhammed, Kurikalveedu, Parayankunu, Cholakkadu	0.74
	Kallamala	Kunjappan, Kakkuppady	0.99
	Kallamala	Azeez, Kakkuppady	0.99
Agali	Kallamala	Mathai S/o Joseph Kaithamatam House, Jellippara (PO)	0.69
	Kallamala	Beeran, Kakkuppady	0.99
	Kallamala	Kunjumon S/o Varkey Mooppan, Jelipara PO	0.24
	Kallamala	Thomas S/o Joseph, Karumattan House, Jellippara (PO)	0.69
	Agali	Chellan S/o Chami, Thottapura	0.14

Range	Village	Name and Address	Extent (Acre)
Mannarkkad	Kallamala	Philippose S/o Joseph, Kaithamatam House, Jellippara PO	0.99
	Agali	Maruthi W/o Krishnankutty, Radhalayam, Moochikkadavu	0.99
	Kallamala	Varghese S/o Joseph Kaithamatam House, Jellippara (PO)	0.69
	Kallamala	Muhammed, Kakkuppady	0.99
	Kallamala	Kamala W/o Thankappan Nellupulli, Jellipara	0.37
	Kallamala	Mary W/o Balakrishnan, Nellikkamalayil, Jellippara PO	0.99
	Kallamala	James, Odapetty, Jellippara PO	0.99
	Kallamala	P.N.Vijayan S/o Narayanan, Puthen Purayil, Jellippara PO	0.55
Mannarkkad	Palakkayam	C.L.Ouseph, Chiramel House, Laser Ouseph, Chiramel, Mundanadu, Palakkayam	0.8
	Thenkara	Mariyakutty Thomas, Anamooly	0.59
	Thenkara	Pulloni Thomas S/o Mathew, Anamooly	0.94
	Thenkara	Chandran S/o Velayudhan, Konnodatha, Parakkalu	0.74
	Thenkara	T.K. Viswanathan, Anamooly	0.92
	Thenkara	Aysha, Thorira Veedu	0.24
	Thenkara	Puthunur Rugmini D/o Velayudhan	0.79
	Thenkara	Velayudhan, Manthoni	0.5
	Thenkara	Kuruman S/o Kurumban, Anamooly	0.39
	Palakkayam	Kurumban S/o Chellan	0.6
	Palakkayam	Chattan S/o Nagan	0.39
	Palakkayam	Chandran S/o Urumanai	0.79
	Palakkayam	Thambi S/o Chellan	0.99
	Palakkayam	Madavan S/o Varman, Pampanthodu	0.34
	Palakkayam	Chellan S/o Mathan, Pampanthodu	0.79
	Thenakara	Madavan, Tholanur Veedu, Thenkara	0.06
	Palakkayam	Baby, Parippukalayan, Pampanthodu	0.99
	Palakkayam	Ramachandran Nair, Pampanthodu	0.99
	Palakkayam	K.K. Mani, Malathep, Pampanthodu	0.72
	Palakkayam	Kurumban S/o Chellan, Pampanthodu	0.43
	Palakkayam	Vella S/o Vella	0.4
	Palakkayam	Appu S/o Chellan, Pampanthodu	0.49
	Palakkayam	Raman Kuppatumare, Pangode Colony	0.76
	Palakkayam	Kandathu Mani S/o Velayudhan	0.99
	Thenkara	Kurumban S/o Ponnан	0.05
	Thenkara	Kurumban S/o Chathan, Ambalapara	0.1
	Thenkara	Madhavan S/o Kurumban, Ambalapara	0.1
	Thenkara	Kurumban S/o Kunjachan, Ambalapara	0.1
	Thenkara	Neelan S/o Chattan	0.1
	Thenkara	Karuppan S/o Kunjachan, Ambalapara	0.1
	Thenkara	Thayyil Hamsa, Ambalapara	0.99
	Thenkara	Sundharan S/o Kunjachan, Ambalapara	0.05
	Palakkayam	Rajan S/o Kurumban, Palakkayam	0.49
	Thenkara	Pulikkal Kurumban S/o Kurumban	0.49
	Thenkara	Vasu, Ambalapara Veedu, Mezhukumpara	0.19
	Thenkara	Kannan S/o Chattan, Ambalapara	0.12

Range	Village	Name and Address	Extent (Acre)
	Edathanatukara	Bettypaul, Pothuvapadam	0.99
	Palakkayam	Mathan S/o Varman, Odakulam	0.49
	Edathanatukara	Baby Paul, Pothuvapadam	0.99
	Palakkayam	Vijayan S/o Mathan, Odakulam	0.49
	Edathanatukara	Baby Paul, Pothuvapadam	0.99
	Palakkayam	Kurumbi W/o Neelan, Chittali Veedu	0.49
	Palakkayam	Rajan S/o Chathan	0.49
	Palakkayam	Kurumban S/o Chathan, Odakulam	0.49
	Palakkayam	Kumaran S/o Kurumban, Odakulam	0.49
	Thenkara	Alavaikutty, Pazhiparamban, Mezhukumpara	0.05
	Thenkara	Kalludumban Haneefa, Amabalapara	0.49
	Thenkara	Pathumma, Pacheeri, Mezhukumpara	0.02
	Thenkara	Vellankara Shoukath, Ambalapara	0.17
	Thenkara	Leelama, Kalkandi	0.02
	Thenkara	Velayudhan Aranikkal	0.24
	Thenkara	Rajan S/o Kuppandi	0.08
	Thenkara	Athikkal Humsa, Cherumkulam	0.05
	Thenkara	Unni S/o Etti, Mezhukumpara	0.39
	Thenkara	Nabeesa, Kapooran, Karimbanakunnu	0.62
	Thenkara	Manachithodi Ummer, Ambalapara	0.07
	Thenkara	Vattathodi Kunchayamu, Ambalapara	0.24
	Thenkara	Vattathodi Mamootty, Ambalapara	0.24
	Thenkara	Thonikadavu Muhammed Kutty	0.24
	Thenkara	Erakunnil Chandran, Ambalapara	0.72
	Thenkara	Plakkal Velu,	0.25
	Thenkara	Kalathil Abdu	0.74
	Thenkara	Ayyadi Synaba, Ambalapara	0.03
	Thenkara	Poothani Beethankutty	0.49
	Thenkara	Vellankara Assiya, Ambalapara	0.74
	Thenkara	Vellankara Ishaque	0.05
	Thenkara	Vallan Haneefa	0.01
	Thenkara	Arathikuzhi Gopi, Ambalapara	0.99
Mannarkkad	Thenkara	Thonikadavu Abu	0.14
	Thenkara	Pappu Mezhukumpara Veedu	0.24
	Palakkayam	ThresiammaSebastian,Pakkarambil,Achilatty	0.19
	Palakkayam	Philipose,Naduveettil,Achilatty	0.17
	Palakkayam	Simon Chulikattillrumbamudi,Palakkayam	0.75
	Palakkayam	Chinnathampi,S/oChundan,Irattavayalil	0.79
	Palakkayam	Joyi,Puthanpurakkal, Achilatty	0.92
	Palakkayam	Manjakkuzhiyil Devasia	0.8
	Palakkayam	Balan,Kizhakkekara,Achilatty	0.18
	Palakkayam	Meenakshi, Pambanthodu.	0.29
	Palakkayam	M.Mathew,S/oJoseph,Adhikaram,Inchikunnu	0.79
	Palakkayam	Palankutty,Anakaranam Colony	0.24
	Palakkayam	Yesudas,Arapurakkal,Cheriyalnchikkunnu	0.21
	Palakkayam	K.V.Rajan,Kizhimuri,Achilatty	0.57
	Palakkayam	Thamburanchola,Anakaranam.	0.75
	Palakkayam	Mary,W/o.Augustin,Akakanamkunnel,	0.79
	Palakkayam	Krishnankutty.K.Vadakkekara,Achilatty	0.8

Range	Village	Name and Address	Extent (Acre)
Mannarkkad	Palakkayam	Gopalan,S/o. Beeran,Pampanthode	0.49
	Palakkayam	Thanka,D/o.Varman,Pampanthode	0.59
	Palakkayam	Chinnakkuttan,S/o.Palan,Pampanthode	0.99
	Palakkayam	Madhavan, S/o.Kunhan, Cheenikkapara	0.36
	Palakkayam	Mathai, Cheenikkapara	0.22
	Palakkayam	Mathew,S/o.Padanamakkal,Cheenikkapara	0.77
	Palakkayam	Jose,Panamthottathill,Cheenikkapara	0.37
	Palakkayam	Narayanan,S/o.Raman,Cheenikkapara	0.49
	Palakkayam	Kuryan Varghese,Melekunnumel	0.37
	Palakkayam	Narakathuli Babu, Achilatty	0.5
	Palakkayam	Devasya,Thkaram Pallil Veedu,Achilatty	0.89
	Palakkayam	Subhramanyan,S/o.Koran,Kandathilkara	0.15
	Palakkayam	Sebastian,P.J.Chakkaraparambil	0.37
	TOTAL		127.23
Between 1 Acre & 2 Acres			
Agali	Kallamala	Kuttan, Kallamala Colony, Kurathipara	1.99
	Kallamala	Mathayi, Kakkatukuzhiyil,Kurathipara.	1.99
	Kallamala	Varghese Kazhambil, Oonthumala	1.99
	Kallamala	M.I. Thankachan, Oonthumala	1.99
	Agali	Raju S/o Velayudhan, Melekuruvambadi	1.99
	Kallamala	Puliyana, Kallamala Colony, Oonthumala	1.99
	Kallamala	Baby, Nediyakalayil, Onthumala	1.99
	Kallamala	Santha W/o Karunakaran, Kollankadavu	1.99
	Kallamala	Chathi S/o Kumban, Kallamala	1.99
	Kallamala	Ashokan, Shaji, Vandanpara	1.99
	Kallamala	Maruthy W/o Madhavan, Kallamala	1.99
	Kallamala	Nadarajan, Kallamala	1.99
	Kallamala	Konkara, Nanchi, Kallamala	1.99
	Agali	Joseph S/o Mathew, Mele Kuruvanpadi	1.99
	Kallamala	P.S. Varghese, Kallamala	1.99
	Kallamala	Jose, Plathottathil, Chinnaparambil	1.99
	Kallamala	Sunny Cherian, Jaison, Kallamala	1.99
	Kallamala	Joe Parayanthottil, Chinnaparambu	1.24
	Kallamala	Prabhakaran, Chinnaparambu	1.49
	Kallamala	Aliyas Kizhanikkara, Chinnaparambu	1.99
	Kallamala	Poulose, Kizhanikkara, Chinnaparambu	1.5
	Kallamala	Kunju Kodithottathil, Kallamala	1.99
	Kallamala	Mathew, Kakkamakkattil, Kallamala	1.99
	Kallamala	Johan Kakkanamkattil, Kallamala	1.99
	Kallamala	John Kizhakkemuttathil, Kallamala	1.99
	Kallamala	Johan Perinjali, Kallamala	1.5

Range	Village	Name and Address	Extent (Acre)
Kallamala	Kallamala	Krishnankutty, Kalamala	1.5
	Kallamala	Johny Vellaranankunnu, Kallamala	1.99
	Kallamala	Pavithran, Kallamala	1.99
	Kallamala	Thomas, Ommala	1.5
	Kallamala	Papachan, Puthanpura, Kandiyoor	1.99
	Kallamala	Ramakrishnan, Koorkkattil, Ommala	1.5
	Kallamala	Balakrishnan, Ommala	1.99
	Kallamala	Rajan Ommala	1.99
	Kallamala	Jollan S/o Kali,	1.99
	Kallamala	Jose Ellikkal	1.99
	Kallamala	Iyyochan, Ommala	1.5
	Kallamala	Maruthan, Kollankadavu	1.5
	Kallamala	Nanjan S/o Raman, Kollankadavu	1.99
	Kallamala	Chola S/o Kotti, Kollankadavu	1.99
	Kallamala	Rangan S/o Chathan, Kandiyur	1.99
	Agali	Thamandan S/o Kali Thottapura,	1.99
	Kallamala	Ayyidan S/o Thavidan, Kandiyoor	1.99
	Kallamala	Maruthachalam S/o Rangan, Kandiyoor	1.99
	Kallamala	Nanjan S/o Kadalan, Kandiyoor	1.99
	Kallamala	Maruthan, Paruthimala	1.99
	Kallamala	Johnson S/o Poulose, Paruthimala	1.99
	Kallamala	Sasi S/o Nesayan, Paruthimala	1.99
	Kallamala	Henna Mooppan S/o Bheeman, Paruthimala	1.99
	Kallamala	Chacko S/o Varkey, Pakkulam	1.75
Agali	Kallamala	James Mamanassery, Chinnaparambu	1.49
	Kallamala	Baby Nirappel, Chinnaparambu	1.49
	Kallamala	Mathan Kochu, Vilangu Kallingal, Chinaparambu	1.49
	Kallamala	Krithyadas S/o Kuttappan Nadar, Paruthimala	1.49
	Kallamala	Doraiswamy, Ommala	1.49
	Kallamala	Prabhakaran, Ommala	1.99
	Kallamala	Ponnachan, Ommala North	1.49
	Kallamala	Kali S/o Chathan, Paruthimala	1.99
	Kallamala	Kali, Paruthimala	1.99
	Kallamala	Naduvani Paruthimala	1.99
	Kallamala	Govindaswamy, Paruthimala	1.99
	Kallamala	Rangan S/o Masanan, paruthimala	1.49
	Kallamala	Nanjan Mooppan S/o Sukkunan, Paruthimala	1.99
	Kallamala	V.J.Eliyamma, Kurukkankundu	1.49
	Agali	Mallika John, Nellipathy	1.99
	Agali	Chekidan S/o Jogi, Thottapura	1.99
	Kallamala	Joseph S/o Thoman, Fenser Villa, Chinaparambu	1.99
	Agali	Panali S/o Cheerankan, Nellippathy	1.99
	Agali	Rangan S/o Kongra, Nellippathy	1.5
	Agali	Roony S/o Sivan, Nellippathy	1.5
	Agali	Dasan S/o Raghavan, Nellippathy	1.5
	Agali	Sudan, Nellipathy	1.5
	Agali	Thresiamma, Nellipathy	1.5
	Agali	Rajamma Sasi, Puraparambil	1.99
	Kallamala	Thomas Varghese Kozhipurathil, Kurukankundu	1.99

Range	Village	Name and Address	Extent (Acre)
Agali	Kallamala	Joseph Vattathottathil, Kurukkankundu	1.99
	Kallamala	Thomas Numaparayil, Kurukkankundu	1.5
	Kallamala	Pappachan, Kakkuppady, Kallamala	1.99
	Kallamala	Murugan, Kakkuppady Colony, Kakkupady	1.99
	Kallamala	Raman Kakkuppady Colony, Kakkupady	1.99
	Kallamala	Mathan Kakkuppady Colony, Kakkuppady	1.99
	Kallamala	Ayyappan Kakkuppady Colony, Kakkuppady	1.99
	Kallamala	Cheriyan Mani, Kakkuppady	1.99
	Kallamala	Kali, Kakkupady Colony, Kakkuppady	1.99
	Kallamala	Nabeesa, Pasukkattil, Kakkuppady	1.99
	Kallamala	Nanji, Kakkupadi Colony, Kakkupadi	1.99
	Kallamala	Kunjani, Kakkuppady	1.99
	Kallamala	Maruthan, Kakkuppady	1.99
	Kallamala	Hamsa Kolani, Kakkuppadi	1.99
	Kallamala	Madanan, Karithadathil, Manthampotty	1.49
	Kallamala	Augasty, Pullumattathil, Manthampotty	1.49
	Kallamala	Joseph, Manthampotty	1.49
	Kallamala	Rangan, Kakkuppady Colony	1.99
	Kallamala	Manikkan, Kappuppady Colony, Kakuppady	1.99
	Kallamala	Maruthi, Kappuppady Colony, Kakupady	1.49
	Kallamala	Muhammed, Mundakottil, Kakkupady	1.99
	Kallamala	Mary S/o Kuppan, Jellippara (PO)	1.49
	Agali	Pottala S/o Kali, Thottapura	1.49
	Kallamala	Paulose S/o Varkey moopathil, Jellippara	1.55
	Kallamala	Joseph S/o Ouseph, Kaithamattam House, Jellippara PO	1.34
Mannarkkad	Kallamala	George S/o Varkey, Mampuzhikal,Jellipara PO	1.99
	Kallamala	George S/o Mathew, Mampuzhikal	1.99
	Agali	Varghese S/o Kunjandy,Thotarikath, Thotapura, Agali.	1.49
	Kallamala	Tomy S/o Antony Moothedathu,Pambanthodu	1.99
	Kallamala	Eliyamma W/o Achenkunju, Tharapputhottil, Jellippara PO	1.99
	Kallamala	Raju S/o Thankappan Nedumpullil,Jellipara	1.3
	Kallamala	Raju S/o Joseph, Nellikamalayil, Jellipara PO	1.99
	Thenkara	Sarada Balakrishnan, Thalachira	1.99
	Palakayam	Karimi, Pampanthodu	1.99
	Thenkara	K.P. Varghese, Anamooly	1.99
	Thenkara	T.K.Thankappan, Thalachira	1.99
	Thenkara	Kurumban S/o Mari	1.99
	Thenkara	Chandran S/o Kurumban, Pangode	1.99
	Thenkara	Kariman S/o Kakki, Pangode	1.99
	Thenkara	Chathan S/o Chadayan, Pangode	1.99
	Thenkara	K.A.Jose, S/o Augustin, Anamooly	1.99
	Thenkara	Thomas Ayiloor Veedu, Mezhukumpara	1.49
	Thenkara	Rosamma, Ayiloor Veedu	1.49
	Thenkara	P.K. Krishnan Nair, Anamooly	1.79
	Palakayam	Thomas, Thundathil, Thariappappathi	1.92
	Thenkara	Arumughan, Anamooly	1.14
	Thenkara	Kunchumon Alias, Moidutty	1.49

Range	Village	Name and Address	Extent (Acre)
Thenkara	Thenkara	Chacko, Pullukalayil	1.8
	Palakayam	Madhavan S/o Kuttan	1.99
Edathanatukara	Palakayam	Thankappa S/o Chellan, Pampanthodu	1.59
	Palakayam	Chellan S/o Chattan, Pampanthodu	1.99
	Palakayam	Valiya Nagan S/o Velu, Pampanthodu	1.19
	Palakayam	Elsamma Raveendran, Pampanthodu	1.23
	Palakayam	Thambi S/o Appu, Pampanthodu	1.66
	Edathanatukara	Rosamma, Arancheri, Pothuvapadam	1.49
	Edathanatukara	Mary Vimala, Arancheri, Pothuvapadam	1.49
	Thenkara	Kuttiikkodan Saide, Ambalapara	1.49
	Thenkara	Pazhani, Anamooly	1.24
	Thenkara	Thaivalappil Humsappa	1.24
	Thenkara	Karim , Pappali Veedu	1.64
	Palakayam	MundanAchilatty,Palakkayam	1.29
	Palakayam	Appukuttan Parakkal Veedu,Achilatty	1.05
	Palakayam	C.M. Manikkan,Chakkanthody Veedu, Achilatty	1.39
Mannarkkad	Palakayam	KarthiyayaniAmma,VallivalaVeedu,Kalladikkode	1.88
	Palakayam	Agstin,Chettiparambil, Pandanmala	1.61
	Palakayam	P.R.Ramu(dead),Santha,W/o.Ramu	1.2
	Palakkayam	Prabhakaran,Puravayalil,Tharippapathi	1.27
	Palakkayam	Thallachira Thankappan,Munnekkar	1.99
	Palakkayam	Mathew,S/o John,Vettukattil Veedu,Vellathode	1.01
	Palakkayam	Krishnankutty,Kizhakkekara,Vettilachola	1.2
	Palakkayam	Francis Vadayattukuzhi,Vettilachola	1.46
	Palakkayam	Sebastian,Velikkunnel,Vellathode	1.58
	Palakkayam	Ponnus,@Punnus Pandikalayil,Tharippapathi	1.2
	Palakkayam	Skaria,Mathew,Kattumathil,Tharippapathi	1.24
	Palakkayam	Augustin,Valiyakunnel,Anakkaranam	1.24
	Palakkayam	Veluttunni,S/o.Karimban Pambanthode	1.99
	Palakkayam	Kora,Venmanikuttan, Cheenikkapara	1.09
	Palakkayam	Mari,S/o. Varman,Pampanthode	1.99
	Palakkayam	Mulakkal Jose,S/o.Jose Pandanmala	1.89
	Palakayam	Jony,Akkappara,Pandanmala	1.74
	Palakkayam	Thakara pallil Jose, Pandanmala	1.5
	Palakkayam	Jose, Puthanpura,Pandanmala	1.05
	Palakkayam	Mari,S/o. Varman,Pampanthode	1.99
	Palakkayam	Mulakkal Jose,S/o.Jose Pandanmala	1.89
	Palakkayam	Jony,Akkappara,Pandanmala	1.74
	Palakkayam	Thakara pallil Jose, Pandanmala	1.5
	Palakkayam	Jose,Puthanpura,Pandanmalavaram	1.05
	Palakkayam	Mani Joseph, Madathil Parambil, Achilatty	1.27
	Palakkayam	Pattali Thankappan, Achilatty	1.07
	Palakkayam	Thakara pallil George, Pandanmala	1.5
	Palakkayam	Varghese S/o Poulose,Edatuveedu,Panthanmala	1
		TOTAL	285.94
	Above 2 Acres		
Agali	Kallamala	Vasu, Chamakala, Kurathipara.	4
	Kallamala	Kakki S/o Mari, Kallamala	4
	Kallamala	Veeran, Mangadakuzhiyil,Onthumala	2.5

Range	Village	Name and Address	Extent (Acre)
Kallamala	Kallamala	Kuppan, Kallamala, Kurathipara	2.99
	Kallamala	Karunakaran, Mylakkel, Onthumala	3.99
	Kallamala	Roy S/o Varkey, Onthumala	4.99
	Kallamala	P.A. Appukuttan, Kurathipara	2.99
	Kallamala	Latheef, Vandanpara	9.98
	Kallamala	K.V. Varkey, Kallikkattil, Onthumala	7.98
	Kallamala	Rajan S/o Devarajan, Venkakkadavu	5.98
	Kallamala	Rajan S/o Devarajan, Venkakkadavu	6.98
	Kallamala	Thankavelu S/o Arumugan Pillai, Kollankadavu	4.79
	Kallamala	Ranki, Vandanpara	2.99
	Kallamala	Maruthan, Vandanpara	2.99
	Kallamala	Chinnan, Vandanpara	3.99
	Kallamala	Ayyappan S/o Kurumban, Kallamala	4.99
	Kallamala	Thankachan, Chullikkal, Kallamala	3.5
	Kallamala	Johny, Vellarankunnu, Chinnaparambu	3.99
	Kallamala	John, Njattekkadu, Chinnaparambu	2.99
	Kallamala	Pappachan Kappiyar, Chinnaprambu	6
	Kallamala	George Kandankulangara, Chinnaparambu	2.75
	Kallamala	Thankachan, Chinnaparambu	2.7
	Sholayur	Maruthan, Ayyappandurai, Engakkadavu	7.99
	Kallamala	Maruthan, Kollankadavu	2.99
	Kallamala	Vijayan Poyyanampuzhayil, Kallamala	3.74
	Kallamala	Thankachan.M.I, Onthumala	2.99
	Kallamala	Haji, Malappuram, Onthumala	8.99
	Kallamala	Balan Nair, Onthumala	2.99
	Kallamala	Ramakrishnankurupu	2.99
	Kallamala	Mohanam, Kyppanadu, Kallamala	3.99
Agali	Kallamala	Madhavan, Pookulam, Kallamala	3.99
	Kallamala	Gopalan, Brahmanikunnel, Kallamala	3.99
	Kallamala	Ravunni, Kolathodi, Kallamala	3.99
	Kallamala	Gopalan, Nirappil, Kallamala	2.5
	Kallamala	Balan Nair, Pappan Nair, Kallamala	4.99
	Kallamala	Mathew Kizhakkemuttathil, Kallamala	2.5
	Kallamala	Bhaskaran Niar, Kallamala	4.5
	Kallamala	George. M.I, Onthumala,	7.99
	Kallamala	Vinod Velamparambil, Kallamala	2.99
	Kallamala	Appachan Kappiyarukunnel, Kandiyoor	2.99
	Kallamala	Chacko, Mundanparambil, Kandiyoor	3.99
	Kallamala	George Padinjarekkara, Kandiyoor	2.99
	Kallamala	Rupputty, Kandiyoor	4.99
	Kallamala	Varghese Alikalkunnu, Ommala	3.09
	Kallamala	Kuttappan Lillikal, Ommala	3.99
	Kallamala	Ommala Church, Ommala	2.5
	Kallamala	Sadanandan Ommala,	3.99
	Kallamala	Devasiya, Korandikkattil	3.99
	Kallamala	Chidambaran Nellikkal, Ommala	3.99
	Kallamala	Krishnankutty & Others, Ommala	3.79
	Kallamala	Samuel Thenguthottathil, Ommala	3.99
	Kallamala	Panali S/o Kariyan, Kandiyoor	5.99

Range	Village	Name and Address	Extent (Acre)
Agali	Kallamala	Sukumaran, Thottumkara, Kollankadavu	5.5
	Kallamala	Vellingiri, Kollankadavu	2.9
	Kallamala	Maruthan Kollankadavu	7.49
	Kallamala	Vellingiri S/o Lunchi, Kollankadavu	3.99
	Kallamala	Chellan S/o Sivan, Kolankadavu	7.99
	Kallamala	Devara, S/o Kariyan, Kollankadavu	3.99
	Kallamala	Baby, Kollankadavu	4.99
	Kallamala	Kakki S/o Chathan, Kandiyur	5.99
	Kallamala	Thankachan, Chakkad, Kollankadavu	2.99
	Kallamala	Nanchan, Kollankadavu	2.5
	Kallamala	Puliyan S/o Chellan, Kollankadavu	3.99
	Kallamala	Dasan S/o Kali, Kandiyoor	2.99
	Kallamala	Mari, Kollankadavu	2.99
	Kallamala	Maruthan S/o Kudala, Paruthimala	2.5
	Kallamala	Anandan, Paruthimala	3.99
	Kallamala	Thabiachan, Paruthimala	2.99
	Kallamala	Varghese Paruthimala	4.99
	Kallamala	Papachan, Paruthimala	10.98
	Kallamala	Thomas Kapiar, Paruthimala	4.99
	Kallamala	Varghese, Paruthimala	3.49
	Kallamala	Panali S/o Kariyan, Paruthimala	5.99
	Kallamala	Kuppan Kounder, Pakkulam	6.98
Agali	Kallamala	George Kurrian, Koonan Parambil,Chinnaparambu	3.09
	Kallamala	Resan Paruthimala	5.99
	Kallamala	Jose Chalakkudi	3.49
	Kallamala	Siva Mooppan S/o Chathan, Paruthimala	3.99
	Kallamala	Kitty, Paruthimala	3.99
	Kallamala	Krishnan, Paruthimala	4.99
	Kallamala	Nadarajan, Paruthimala	3.5
	Kallamala	Kanyankumari Nadar, Paruthimala	2.5
	Kallamala	Dasan S/o Nadar, Paruthimala	3.49
	Kallamala	Katti Mooppan S/o Kuppan,Paruthimala	3.49
Agali	Kallamala	Chundan S/o Manappa, Paruthimala	2.5
	Kallamala	Cheillan S/o Dodda Mooppan, Paruthimala	2.99
	Kallamala	Chathan , Kurukkankundu	2.99
	Agali	Pazhaniyappan S/o Narayana Chettiyar,Thotapura	3.99
	Kallamala	Joseph,Jose Pananathanath,Kurukankudu	3.11
	Kallamala	M.K.Varkey, Madhvassery	10.48
	Kallamala	Pathrose, Erumathanam,Kurukkankunu	4.99
	Kallamala	Elikutty, Erumathani	9.98
	Kallamala	Chandran Kurukkankundu	7.99
	Kallamala	Joseph, Kazhukamalayil	4.99

Range	Village	Name and Address	Extent (Acre)
Kallamala	Kallamala	Meenamma Rajappan,Parampanattu	9.98
	Kallamala	Damodaran, Puraparambil, Kurukkankundu	7.99
	Kallamala	Sasi, Puraparambil, Kurukkankundu	3.99
	Kallamala	Sunny Thomas, Erumathanam,Kurukkankundu	3.99
	Kallamala	Thomas Erumathanan	9.98
	Kallamala	Raju Puraparambil, Kurukkankundu	9.98
	Kallamala	Thankappan S/o Peter, Kumpadi Veetil	4.99
	Agali	Thanka W/o Kunchupillai	5.99
	Kallamala	Vasu Puthanpurayil, Kurukkankundu	2.99
	Kallamala	Agustian Thurakkal, Kurukkankundu	3.99
	Agali	Leela, Nellipathy	4.47
	Kallamala	Thankamma W/o Kunjikannan, Alankal	4.99
	Kallamala	Ushakumari W/o Kumaran, Alankkal	4.99
	Agali	Jaganadhan S/o Sreedharan, Nellipathy	3.21
	Kallamala	George Vettikuzhiyil	2.99
	Kallamala	Joseph S/o Mathai, Kurukkankundu	9.98
	Kallamala	Vamadevan, Kollankadavu, Kallamala	5.99
	Kallamala	Thressiya W/o Mathai, Kurukkankundu	7.99
	Kallamala	Joseph, Palakkatiil, Kurukkankundu	9.98
	Kallamala	Gracy Mathew, Mamparambil, Kurukkankundu	4.99
Agali	Kallamala	Mahadevan, Kurukkankundu	4.99
	Kallamala	Chacko, Erumathanam,Kurukkankundu	9.98
	Kallamala	Shaji Joseph, Kurukkankundu	4.99
	Kallamala	Jose,Joseph Vetikuzhiyil, Kurukkankundu	4.99
	Kallamala	N.J. George, Kurukkankundu	2.99
	Kallamala	Mariyama Pilley, Vettiyatte	4.99
	Kallamala	Joseph Pananthanath	9.98
	Kallamala	Joseph Vetukalathil	4.99
	Kallamala	Achamma W/o Jose, Kurukkankundu	8.98
	Kallamala	Schariya S/o Thomas, Vettikuzhiyil	10.98
	Kallamala	Chinnamma W/o Scariaya, Kurukkankundu	3.99
	Kallamala	Ulahannan S/o Ouseph,Erumathanam,Jelliippara	9.98
	Kallamala	Susanna Thurakkal, Kurukkankundu	3.99
	Kallamala	Varghese Pallithazhathil, Kurukkankundu	2.99
	Kallamala	John Kozhippurathil, Kurukkankundu	2.5
	Kallamala	George Kozhippurathil, Kurukkankundu	5.99
	Kallamala	Mathew Mamaparambil, Kallamala	5.99
	Kallamala	Varghese Kozhippurathil, Kurukkankundu	7.48
	Kallamala	Thomas Arakkaparambil, Kurukkankundu	3.99
	Kallamala	Thresyamma Joy, Kurukkankundu	6.98
	Kallamala	Joy, Kurukkankundu	4.99
	Kallamala	Augasty Parakkudiyil, Kurukkankundu	2.99
	Kallamala	Babu Thomas Pezhathum Moottil, Kurukkankundu	4.99
	Kallamala	George Thannayil, Kurukkankundu	3.99
	Kallamala	Mary W/o Thomas Kollamparambil, Kurukkankundu	3.99
	Kallamala	Santhinathavali, Kurukkankundu	12.97
	Kallamala	Baburaj S/o Gopalakrishnapillai,Kurukkankundu	2.99
	Kallamala	Thomas Ettukalathil, Kurukkankundu	9.98

Range	Village	Name and Address	Extent (Acre)
	Kallamala	Jose Thurakkal, Kurukkankundu	3.99
	Kallamala	Mathew Joseph Mattaparambil,Kurukkankundu	17.98
Agali	Kallamala	Macrony, muthaliar, Kakkuppady	2.99
	Kallamala	Marykutty, Kakkuppady	2.99
	Kallamala	Sadique, Kakkuppady	4.99
	Kallamala	Anandan, Kakuppady Colony, Kakkuppady	3.5
	Kallamala	Aandimooppan, 154 Kakkuppadi Colony, Kakupady	5.99
	Kallamala	Santhamma, Kakkuppady	2.5
	Kallamala	Sugathan, Nithyavilasam, Manthampotty	2.5
	Kallamala	Santhamma, Kakkuppady	2.5
	Kallamala	Sugathan, Nithyavilasam, Kottiyurkunu,Cholakadu	2.5
	Kallamala	Raghavan, Manthampotty	4.99
	Kallamala	Kesavan, Chanamparambil, Manthampotty	2.99
	Kallamala	Raghavan, Manthampotty	7.99
	Kallamala	Suseelan S/o Divakaran,Kalluparambil Veedu, Cholakkadu	2.99
	Kallamala	Sony, Kakkuppady	2.99
	Kallamala	Vellangiri, Kappupady Colony, Kakkuppady	3.99
	Kallamala	Pankajakshan,Kadayilveedu, Cholakkadu	2.99
	Agali	Gopalakirhnpillai S/o Narayana Pillai, Thulasi Bhavan, Mochikkadavu	9.98
	Agali	Joseph, Mullavila Veedu,Kottiyurkunnu,Cholakadu	2.5
	Agali	Avarini W/o Velayudhan, Thottappura	3.99
	Kallamala	Baby, Pelayam Parambil, Jellippara (PO)	9.98
	Kallamala	Kutty, Pelayamparambil, Jellippara PO	9.98
	Agali	Thamindan S/o Vadapodi, Thottapura	3.99
	Agali	Santhamma W/o Sasi, Chundasery House, Mochikkadavu	2.5
	Agali	Krishnan S/o Nanjan, Mochikkadavu	3.99
	Agali	Appukuttan, Edimayil, Mochikkadavu	2.5
	Agali	Kuppan S/o Sivan Mochikkadavu	4.99
	Kallamala	Bedda Mooppan, Kakkuppady Colony	4.99
Agali	Kallamala	Kandimani, Odapetty, Jellippara PO	3.5
	Kallamala	Sasi, Kizhakkekara Puthan House, Jellippara	3.99
	Kallamala	Andrews, Kakkaravilayil, Odapetty,Jellippara	2.99
	Kallamala	Mallan S/o Japamasan, Jellippar PO	4.99
	Kallamala	Ramankutty, Odapetty, Jellippara Po	3.99
	Kallamala	Prabhakaran S/o Kochu, Kallivalappil, Jellipara	4.99
	Kallamala	Kakky S/o Kitta, Odapetty, Jellippara PO	14.97
	Agali	Balan Pillai S/o Kunjappan Nair	3.99
	Kallamala	Rapheal S/o Antony Moothedathu, Jellipara PO	2.99
	Kallamala	George S/o Devassy, Chalaniyil, Ommala,	2.5
	Kallamala	Annamma W/o Thomas, Tharapputhottil,Jellipara	9.98
	Kallamala	Gadikan S/o Mary, Odapetty, Jellippara PO	9.98
	Kallamala	Valsala, Thadatherikathu Puthen Veedu,Jelipara	4.99
	Kallamala	Mary S/o Mary, Odapetty, Jellippara PO	9.98
Mannarkkad	Thenkara	Mohanam, Anamooly	2.5
	Thenkara	Chacko, Pullukalayil, Anamooly	2.91

Range	Village	Name and Address	Extent (Acre)
Thenkara	Thenkara	Margasseri, Anamooly	24.95
	Thenkara	Agastin, Anamooly	2.79
	Thenkara	Vidhyadharan, Anamooly	2.5
	Thenkara	Markkose, Panthanthodu	2.99
	Thenkara	Anna Agastin	3.31
	Palakkayam	Beeran S/o Ponnan	3.99
	Palakkayam	Kariman S/o Nagan	3.99
	Palakkayam	Pulliyan S/o Nagan	3.99
	Palakkayam	Chattan S/o Nagan', Pampanthodu	4.49
	Palakkayam	Kuttan S/o Chattan	3.99
	Palakkayam	Mundan S/o Kariman, Pampanthodu	3.99
	Palakkayam	Parameswaran, Pampanthodu	3.99
	Palakkayam	Raju.K.V. Pampanthodu	2.16
	Palakkayam	Mari S/o Kariman, Pampanthodu	3.99
Mannarkkad	Palakkayam	Joseph S/o Abraham, Pampanthodu	6.98
	Palakkayam	Nagan S/o Kariman, Pampanthodu	3.99
	Palakkayam	Pariyani S/o Palan	3.99
	Edathanatuakara	Kizhakkettalakkal, Pothuvappadam	3.99
	Palakkayam	Raghavan Pillai,Pandan Malavaram	2.12
	Kallamala	Mariyakutty W/oJoseph Thalappallil	2.04
	Palakkayam	Rajappan Thekkedathil,Irumbamudi	2.77
	Palakkayam	Thomas Immanuel,Kulakkad vayalil,Karimba	4.54
	Palakkayam	Sumathi,W/oSudhakaran,Mullamaram,Munnekkar	2.99
	Kallamala	T.P.Joseph,Thalappalli Veedu,Vattappara	2.02
	Pottassery	Joseph Jacob,Pulinayam Vetayil,	4.04
	Palakkayam	Koluthuvayil Paily,Munnekkar	2.05
	Palakkayam	A.P.Veerankutty,Rahman Manzil,Karimba	4.94
	Palakkayam	Edattu Poulose,Pandanmala	2.52
	Thenkara	Sureshkumar,S/o.Panali Purakkal	3.99
	Palakkayam	Thressiamma,Thekkedathil,Irumbakammutty	4.1
	Palakkayam	Varkey,S/o.Mathai,Vadayattukuzhi,Irumbakachola	6.53
	Palakkayam	K.M.Mathew,S/o.K.E.Joseph,Kizhakkekara	2.39
	Palakkayam	M.J.Joseph,S/o.Joseph,Vettilachola	2.02
	Palakkayam	Thekkedathil Sebastian,Irumbumutti	3.55
	palakkayam	Vadakkekuzhi Mathew,Vettilachola	27.45
	Palakkayam	Jimmy Joseph,Joseph, Vettilachola	2.29
	Palakkayam	Kuriakose,Kurian Thomas,Mailamvelyil	1.54
	Palakkayam	Rosamma,W/o.Joseph,Vadithala Kazhi,Anakaranam	2.95
	Palakkayam	Joseph, Kattuvallathil, Achilatty	2.95
	Palakkayam	Joyi,Mundanad Veedu,Palakkayam	2.24
	Palakkayam	Ouseph Mattai,Valiyakunnil Vellathode	2.06
	Palakkayam	Chattan,S/o.Varman,Pampanthode	3.99
	Palakkayam	Chami,S/o.Manikyan,Pampanthode	3.99
	Palakkayam	Kuttappa,S/o.Palan,Cheenikkapara	3.99
Mannarkkad	Palakkayam	James Immannuel,Chaitanya,Munnekkar	4.54
	Palakkayam	John Immanuel,Chaitanya,Munnekkar	7.98
	Palakkayam	Lorence,S/oMathew,Kizhakkekara,Vettillachola	2.27
	Palakkayam	Mohammed Abdul Rahman,Rahman manzil,Karimba	2.04

Range	Village	Name and Address	Extent (Acre)
Palakkayam	Palakkayam	A.K.Kadeeja Teacher, Karimba	4.94
	Palakkayam	Kunjammu,W/o.Chami, Achilatty	2.01
	Palakkayam	Ouseph Varkey, Anakkayam, Achilatty	4.86
	Palakkayam	A.P.Mathai,S/o.Ikara Veedu,Tharappapathy	3.02
	Palakkayam	Kunjamu,W/o.Chamil Achilatty	2.01
	Palakkayam	Ouseph Varkey, Anakkayam,Achilatty	4.86
	Palakkayam	A.P.Mathai,S/oMathai,.Ikara Veedu,Tharappapathy	3.02
	Palakkayam	Thomas Mezhukunnel, Cheenikkappara	9.98
		TOTAL	1225.84

Appendix - XXIV

List of Lichens in Mannarkkad Division

Sl. No	Scientific name	Family
1	<i>Graphina acharii</i>	Graphidaceae
2	<i>G. dimorphodes</i>	Graphidaceae
3	<i>G. leucocarpoides</i>	Graphidaceae
4	<i>Graphis zeylanica</i>	Graphidaceae
5	<i>Ocellularia patwardhwani</i>	Megalosporaceae
6	<i>Thelotrema deppressum</i>	Megalosporaceae
7	<i>T. tuberculiferum</i>	Megalosporaceae
8	<i>Letrouitia vulpina</i>	Brigantiaceae
9	<i>Pyrenula interducta</i>	Pyrenulaceae
10	<i>Cladonia farinacea</i>	Cladoniaceae
11	<i>C. glauca</i>	Cladoniaceae
12	<i>C. pityrea</i>	Cladoniaceae
13	<i>Coccocarpus erythroxyli</i>	Coccocarpiaceae
14	<i>C. palmicola</i>	Coccocarpiaceae
15	<i>Leptogium adpressum</i>	Collemataceae
16	<i>L. brebissoni</i>	Collemataceae
17	<i>L. burnetiae</i>	Collemataceae
18	<i>L. chloromelum</i>	Collemataceae
19	<i>L. fallax</i>	Collemataceae
20	<i>L. phyllocarpum</i>	Collemataceae
21	<i>L. pichneum</i>	Collemataceae
22	<i>L. tenuissimum</i>	Collemataceae
23	<i>L. ulvaceum</i>	Collemataceae
24	<i>Bulbothrix isidiza</i>	Parmeliaceae
25	<i>B. setschwanensis</i>	Parmeliaceae
26	<i>Catraria wallichiana</i>	Parmeliaceae
27	<i>Everniastrum cirrhatum</i>	Parmeliaceae
28	<i>E. vexans</i>	Parmeliaceae
29	<i>Hypotrachyna adducta</i>	Parmeliaceae
30	<i>H. awasthii</i>	Parmeliaceae
31	<i>H. crenata</i>	Parmeliaceae
32	<i>H. exsecta</i>	Parmeliaceae
33	<i>H. infirma</i>	Parmeliaceae
34	<i>Parmelia thomsonii</i>	Parmeliaceae
35	<i>Parmelina expallida</i>	Parmeliaceae
36	<i>P. horrescens</i>	Parmeliaceae
37	<i>P. manipurensis</i>	Parmeliaceae

Sl. No	Scientific name	Family
38	<i>P. mullelleri</i>	Parmeliaceae
39	<i>P. spathulata</i>	Parmeliaceae
40	<i>P. wallichiana</i>	Parmeliaceae
41	<i>Parmotrema eunetum</i>	Parmeliaceae
42	<i>P. grayanum</i>	Parmeliaceae
42	<i>P. kamatii</i>	Parmeliaceae
43	<i>P. praesorediosum</i>	Parmeliaceae
44	<i>P. pseudonilgherrense</i>	Parmeliaceae
45	<i>P. sanctae - angeli</i>	Parmeliaceae
46	<i>P. tinctorum</i>	Parmeliaceae
47	<i>Relicina abstrusa</i>	Parmeliaceae
48	<i>Psorella psorina</i>	Phyllosporaceae
49	<i>Dirinaria confuluens</i>	Physciaceae
50	<i>Heterodermia coronata</i>	Physciaceae
51	<i>H. diadermata</i>	Physciaceae
52	<i>H. dissecta</i>	Physciaceae
53	<i>H. incana</i>	Physciaceae
54	<i>H. isidiophora</i>	Physciaceae
55	<i>H. lecomela</i>	Physciaceae
56	<i>H. podocarpa</i>	Physciaceae
57	<i>Ramalina inflata</i>	Ramalinaceae
58	<i>R. sinensis</i>	Ramalinaceae
59	<i>R. taitensis</i>	Ramalinaceae
60	<i>Strcta cyphelluata</i>	Ramalinaceae
61	<i>S. henryana</i>	Ramalinaceae
62	<i>S. limbata</i>	Ramalinaceae
63	<i>S. neocalledonica</i>	Ramalinaceae
64	<i>S. orbicularis</i>	Ramalinaceae
65	<i>Teloschistes flavicans</i>	Teloschistaceae
66	<i>Usnea albopunctata</i>	Usneaceae
67	<i>U. complanata</i>	Usneaceae
68	<i>U. fischeri</i>	Usneaceae
69	<i>U. dentritica</i>	Usneaceae
70	<i>U. maculata</i>	Usneaceae
71	<i>U. misamensis</i>	Usneaceae
72	<i>U. nilgirica</i>	Usneaceae
73	<i>U. orientalis</i>	Usneaceae
74	<i>U. picta</i>	Usneaceae
75	<i>U. rigidula</i>	Usneaceae
76	<i>U. rubicunda</i>	Usneaceae
77	<i>U. vegaee</i>	Usneaceae

Appendix – XXV**List of Reptiles in Mannarkkad Division**

Sl. No.	Scientific name	Family
1	<i>Melanochelys trijuga</i>	Bataguridae
2	<i>Calotes versicolor</i>	Agamidae
3	<i>Calotes calotes</i>	Agamidae
4	<i>Calotes ellioti*</i>	Agamidae
5	<i>Calotes rouxii*</i>	Agamidae
6	<i>Calotes nemoricola*</i>	Agamidae
7	<i>Calotes grandisquamis*</i>	Agamidae
8	<i>Salea horsfieldii*</i>	Agamidae
9	<i>Draco dussumieri*</i>	Agamidae
10	<i>Psmophilius blanfordanus</i>	Agamidae
11	<i>Cnemaspis indica*</i>	Gekkonidae
12	<i>Cnemaspis indraneil dasii*</i>	Gekkonidae
13	<i>Cnemaspis wynadensis*</i>	Gekkonidae
14	<i>Hemidactylus brookii</i>	Gekkonidae
15	<i>Hemidactylus frenatus</i>	Gekkonidae
16	<i>Mabuya macularia</i>	Scincidae
17	<i>Mabuya carinata</i>	Scincidae
18	<i>Mabuya beddomei</i>	Scincidae
19	<i>Scincella laterimaculata*</i>	Scincidae
20	<i>Ristella beddomii*</i>	Scincidae
21	<i>Sphenomorphus dussumieri*</i>	Scincidae
22	<i>Varanus bengalensis</i>	Varanidae
23	<i>Ramphotyphlo braminus</i>	Typhlopidae
24	<i>Uropeltis ceylanicus</i>	Uropeltidae
25	<i>Uropeltis phipsonii</i>	Uropeltidae
26	<i>Python molurus</i>	Boidae
27	<i>Ahaetulla nasuta</i>	Colubridae
28	<i>Ahaetulla perroteti*</i>	Colubridae
29	<i>Ahaetulla pulverulenta</i>	Colubridae
30	<i>Amphiesma beddomei*</i>	Colubridae
31	<i>Boiga nuchalis</i>	Colubridae
32	<i>Boiga forsteni</i>	Colubridae
33	<i>Boiga ceylonensis*</i>	Colubridae
34	<i>Dendrelaphis grandoeulis*</i>	Colubridae
35	<i>Dendrelaphis tristis</i>	Colubridae
36	<i>Lycodon aulieus</i>	Colubridae
37	<i>Lycodon travaneoricus</i>	Colubridae
38	<i>Maeropisthodon plumbicolor</i>	Colubridae

Sl. No.	Scientific name	Family
39	<i>Oligodon arnensis</i>	Colubridae
40	<i>Ptyas mucosa</i>	Colubridae
41	<i>Xenoehrophis piscator</i>	Colubridae
42	<i>Chrysopelea ornata</i>	Colubridae
43	<i>Coelognathus helena</i>	Colubridae
44	<i>Oligodon taeniatus</i>	Colubridae
45	<i>Ophiophagus hannah</i>	Elapidae
46	<i>Calliophis nigrescens</i>	Elapidae
47	<i>Bungarus caeruleus</i>	Elapidae
48	<i>Naja naja</i>	Elapidae
49	<i>Hypnale hypnale</i>	Viperidae
50	<i>Trimeresurus macrolepis*</i>	Viperidae
51	<i>Trimeresurus malabaricus*</i>	Viperidae
52	<i>Daboia russelii</i>	Viperidae

*Endemic to Western Ghats

Appendix – XXVI

List of Red Data Book Birds in Mannarkkad Division

No	Species	IUCN Category	Encounters	Numbers
1.	Nilgiri Laughingthrush	Endangered	8	11
2.	White-bellied Shortwing	Vulnerable	1	1
3.	Broad-tailed Grass-Warbler	Vulnerable	1	1
4.	Nilgiri Wood-Pigeon	Vulnerable	9	11
5.	Great-Pied Hornbill	Near-Threatened	1	1
6.	Nilgiri Flycatcher	Near-Threatened	17	18
7.	Black-and-Orange Flycatcher	Near-Threatened	6	6
8.	Tytler's Leaf Warbler	Near-Threatened	2	6
9.	Darter	Near-Threatened	3	3

Appendix – XXVII

List of Butterflies in Mannarkkad Division

Sl.No.	Scientific name	Family
1	<i>Troides minos</i> Cram	Papilionidae
2	<i>Graphium sarpedon teredon</i> Feld.	Papilionidae
3	<i>Graphium agamemnon</i>	Papilionidae
4	<i>Pachliopta aristolochiae</i> Fb	Papilionidae
5	<i>Papilio liomedon</i>	Papilionidae
6	<i>Papilo helenus</i>	Papilionidae
7	<i>Papilo polytes</i>	Papilionidae
8	<i>Papilo polymnestor</i>	Papilionidae
9	<i>Papilio paris</i>	Papilionidae
10	<i>Papilio polytes polytes</i>	Papilionidae
11	<i>Papilio clytia clytia</i>	Papilionidae
12	<i>Papilio liomedon</i>	Papilionidae
13	<i>Pachliopta hector</i>	Papilionidae
14	<i>Graphium sarpedon teredon</i>	Papilionidae
15	<i>Pachliopta pandiyana</i>	Papilionidae
16	<i>Appias albina</i>	Pieridae
17	<i>Appias lyncida</i> Cram.	Pieridae
18	<i>Appias paulina</i> Feld.	Pieridae
19	<i>Catopsilia pomona</i> Fb.	Pieridae
20	<i>Catopsilia pyranthe</i> Lin.	Pieridae
21	<i>Cepora nadina</i>	Pieridae
22	<i>Delias eucharis</i> Drury	Pieridae
23	<i>Eurema blanda</i> Boisd.	Pieridae
24	<i>Eurema hecabe</i> Lin.	Pieridae
25	<i>Leptosia nina</i> Fb.	Pieridae
26	<i>Ixias Marianne</i> Cram.	Pieridae
27	<i>Colotis eucharis eucharis</i>	Pieridae
28	<i>Caleta caleta decidia</i>	Lycaenidae
29	<i>Udara akasa</i>	Lycaenidae
30	<i>Zizula hylax</i>	Lycaenidae
31	<i>Euchrysops cneus</i>	Lycaenidae
32	<i>Arhopala pseudocentaurus</i> Doubleday	Lycaenidae
33	<i>Castalius rosimon</i> Fb.,	Lycaenidae
34	<i>Cheritra freja</i> Fb.	Lycaenidae
35	<i>Chilades pandava</i> Horsfield	Lycaenidae
36	<i>Lampides boeticus</i> linne	Lycaenidae
37	<i>Spindasis vulcanus</i> <i>vulcanus</i> Fb.	Lycaenidae
38	<i>Loxura atymus</i> Carm.	Lycaenidae
39	<i>Tajuria cippus</i> Fb.	Lycaenidae
40	<i>Megisba malaya</i> Moore	Lycaenidae
41	<i>Jamides electo</i> Field	Lycaenidae
42	<i>Pieris canidia canis</i>	Lycaenidae
43	<i>Ixias pyrene sesia</i>	Lycaenidae
44	<i>Jamides celeno</i>	Lycaenidae

Sl.No.	Scientific name	Family
45	<i>Ariadne merione</i> Cram	Nymphalidae
46	<i>Cirrochora thaia</i> Fb.	Nymphalidae
47	<i>Cupha erymanthis</i> Drury.	Nymphalidae
48	<i>Euthalia garuda</i> Moore	Nymphalidae
49	<i>Euthalia lubentina</i> Cram.	Nymphalidae
50	<i>Hypolimnas bolina</i> Lin.	Nymphalidae
51	<i>Hypolimnas misippus</i> Lin.	Nymphalidae
52	<i>Junonia atlites</i> Lin	Nymphalidae
53	<i>Junonia hirta</i> Fb.	Nymphalidae
54	<i>Junonia almana almana</i> Lin.	Nymphalidae
55	<i>Junonia iphita</i> Cram	Nymphalidae
56	<i>Junonia orithya</i>	Nymphalidae
57	<i>Kanishka canace</i>	Nymphalidae
58	<i>Junonia lemonias</i>	Nymphalidae
59	<i>Tirumala limniace</i>	Nymphalidae
60	<i>Tirumala sertentris</i>	Nymphalidae
61	<i>Phalanta phalantha</i> Drury.	Nymphalidae
62	<i>Vanessa indica</i> Frushstorfer	Nymphalidae
63	<i>Eupolea sylvester</i>	Nymphalidae
64	<i>Eupolea core</i>	Nymphalidae
65	<i>Melanitis leda</i>	Nymphalidae
66	<i>Lethe rohria</i>	Nymphalidae
67	<i>Lethe drypetis todara</i>	Nymphalidae
68	<i>Lethe rohira neelgheriensis</i>	Nymphalidae
69	<i>Idea malabarica</i>	Nymphalidae
70	<i>Mycalesis perseus</i>	Nymphalidae
71	<i>Mycalesis mineus polydecta</i>	Nymphalidae
72	<i>Mycalesis oculus</i>	Nymphalidae
73	<i>Zipoetis saitis</i>	Nymphalidae
74	<i>Charaxes solon solon</i>	Nymphalidae
75	<i>Acraea violae</i>	Nymphalidae
76	<i>Hasora chromus</i>	Hesperiidae
77	<i>Iambrix salsa</i>	Hesperiidae
78	<i>Elymnias caudate</i> Butler	Satyridae
79	<i>Melanitis leda</i> Lin.	Satyridae
80	<i>Mycalesis anaxias</i> Hewit	Satyridae
81	<i>Zipoetis saitis</i> Hewit	Satyridae
82	<i>Lethe drypetis</i> Moore	Satyridae
83	<i>Mycalesis mineus polydecta</i> Cram.	Satyridae

Appendix – XXVIII**List of Ecologically Fragile Land Notified area in Mannarkkad Division**

Sl. No.	Item No.	Taluk	Range	Locality	Village	Survey No. (Sub-Division)	Extent (ha)	OA. NO.
Ordinance 6/2000 - Notification No.C4.21437/00 dated 26.8.00 of PCCF. Gazette No.37 dtd. 19.9.00 (59 items)								
1	ECM - 1	Mannarkkad	Agali	Anakkaranam Malavaram	Palakkayam	2020/3 Pt	37.3200	OA 110/78 A1-14633/86
2	ECM - 2	Mannarkkad	Mannarkkad	Thathengalam	Mannarkkad	185/1	31.9700	OA 14/86 A1 - 8437/88
3	ECM - 3	Mannarkkad	Agali	Manthampotty	Agali	Un surveyed	56.7800	OA 332/76 A1-7082/93
1	ECM - 1	Mannarkkad	Mannarkkad	Pothoppadam	Payyanadam	1/1	12.3400	Lakshmi Estate OA 187/77, 188/77
2	ECM - 2	Mannarkkad	Mannarkkad	Karappadam	Payyanadam	1/1	1.5700	Kuthiramattam Joseph OA 87/88
3	ECM - 3	Mannarkkad	Mannarkkad	Kelaloor	Kottoppadam I	235/A1,2	14.1700	Pathummakutty OA 307/76
4	ECM - 4	Mannarkkad	Mannarkkad	Uppukulam	Alanalloor	1/1	110.9300	NSS Edathanattukara OA 347/76
5	ECM - 5	Mannarkkad	Mannarkkad	Kelaloor	Kottoppadam I	235/A1,2	50.7200	
6	ECM - 6	Mannarkkad	Mannarkkad	Inchikunnu	Palakkayam	2081	7.3000	Kuzhivelil Joseph OA 118/77
7	ECM - 7	Mannarkkad	Mannarkkad	Mundanadu	Palakkayam	2157	8.0900	Tharuppapetty OA 247/79
8	ECM - 8	Mannarkkad	Mannarkkad	Vettilachola	Palakkayam	Unsurveyed	4.0400	M.S. Thomas OA 583/76
9	ECM - 9	Mannarkkad	Mannarkkad	Kalladikkodan	Mundur	Unsurveyed	5.6600	Paraparagath OA 88/77
10	ECM - 10	Mannarkkad	Mannarkkad	Inchikunnu	Palakkayam	2081	8.0900	Dr. Mathew, Kizhakkekara OA 591/76
11	ECM - 11	Mannarkkad	Mannarkkad	Irimbakachola	Palakkayam	Unsurveyed	20.2400	Aryavaidyashal OA 123/77
12	ECM - 12	Mannarkkad	Mannarkkad	Mezhukumpara	Palakkayam	1969	23.1600	M.P. Philip & others OA 52/77, 53/77
13	ECM - 13	Mannarkkad	Mannarkkad	Urulamkunnu	Palakkayam	Unsurveyed	6.6900	M.V. Ittiara OA 539/76

Sl. No.	Item No.	Taluk	Range	Locality	Village	Survey No. (Sub-Division)	Extent (ha)	OA. NO.
14	ECM - 14	Mannarkkad	Mannarkkad	Thathengalam	Mannarkkad I	185/1	4.9500	K.T. Thomas OA 27/85
15	ECM - 15	Mannarkkad	Mannarkkad	Urulamkunnu	Palakkayam	2015	5.9600	V. Joseph & Others OA 538/76
16	ECM - 16	Mannarkkad	Mannarkkad	Anamooly	Palakkayam	1960 Pt.	16.1300	K.C. Yooseph & others
17	ECM - 17	Mannarkkad	Mannarkkad	Anamooly	Palakkayam	1960 Pt.	12.1400	Radhakrishna Menon
18	ECM - 18	Mannarkkad	Mannarkkad	Anamooly	Palakkayam	1960 Pt.	8.0900	Shibin Joseph
19	ECM - 19	Mannarkkad	Mannarkkad	Thodukappukunnu	Thachanattukara	6 Pt	1.4084	OA 421/76 Kolakkattu Kunhahammed Mussaliar
20	ECM - 20	Mannarkkad	Mannarkkad	Anamooly	Palakkayam	1960 Pt.	4.0500	Shaji John
21	ECM - 21	Mannarkkad	Agaly	Sholayoor	Sholayoor	1687, 1700, 1732/Pt, 1737, 1742	40.4700	OA 68/77
22	ECM - 22	Mannarkkad	Agaly	Thumpapara	Agaly	2019	5.4300	OA 41/77
23	ECM - 23	Mannarkkad	Agaly	Thumpapara	Agaly	2019	5.8900	OA 42/77
24	ECM - 24	Mannarkkad	Agaly	Thumpapara	Agaly	2019	3.4100	OA 43/77
25	ECM - 25	Mannarkkad	Agaly	Kallamala	Agaly	2019	20.2400	OA 7/78
26	ECM - 26	Mannarkkad	Agaly	Nellippathy	Sholayoor	1335/Pt (Old Agaly -Kallamala)	36.4400	OA 28/85
				Pothupady			21.0500	
				Paravalavu			4.0800	
27	ECM - 27	Mannarkkad	Attappady	Moolakombu	Pudur	S/D 8	12.0000	Baby Estate Moolakombu
28	ECM - 28	Mannarkkad	Attappady	Vellakki	Pudur	5/1	2.7600	Vellakki Gouder
29	ECM - 29	Mannarkkad	Attappady	Sootra	Pudur	S/D 3	5.4000	Ballakki Estate
30	ECM - 30	Mannarkkad	Attappady	Sootra	Pudur	S/D 4	2.5800	Ballakki Estate
31	ECM - 31	Mannarkkad	Attappady	Sootra	Pudur	4/2	0.3400	Ballakki Estate

Ordinance 3/2001 - Notification No.C6.21437/00 dated 21.4.01 of PCCF. Gazette No.20 dtd. 15.5.01 (87 items)

Sl. No.	Item No.	Taluk	Range	Locality	Village	Survey No. (Sub-Division)	Extent (ha)	OA. NO.
1	ECM 1	Mannarkkad	Agaly	Varadimala	Sholayoor	1734	1.5000	Plot 13 of OA 68/77
2	ECM 2	Mannarkkad	Agaly	Varadimala	Sholayoor	1908	0.5000	Plot 14 of OA 68/77
3	ECM 3	Mannarkkad	Agaly	Varadimala	Sholayoor	1908	2.2800	Plot 17 of OA 68/77
4	ECM 4	Mannarkkad	Agaly	Varadimala	Sholayoor	1734, 1735, 1736	2.0000	Plot 19 to 24 of OA 68/77
5	ECM 5	Mannarkkad	Agaly	Varadimala	Sholayoor	1734	0.4000	Plot 29 of OA 68/77
6	ECM 6	Mannarkkad	Agaly	Varadimala	Sholayoor	1687	4.4800	Plot 49 to 64 of OA 68/77
7	ECM 7	Mannarkkad	Agaly	Varadimala	Sholayoor	1687	1.6100	Plot 29 & 47 of OA 68/77
8	ECM 8	Mannarkkad	Agaly	Varadimala	Sholayoor	Unsurvey	2.0000	Plot 67, 68, 69 of OA 68/77
9	ECM 9	Mannarkkad	Attappady	Panachola	Kallamala	2/1	57.0000	
88	ECM 1	Mannarkkad	Mannarkkad	Kandakkamala	Pottasseri	11/2 B, 9/10, 9/26, A3 &10 pt	1.3500	OA 536/74
89	ECM 2	Mannarkkad	Mannarkkad	Kandakkamala	Pottasseri	11/2 B	3.0400	OA 537/74
90	ECM 3	Mannarkkad	Mannarkkad	Mezhukumpara, Paruthimala	Palakkayam	1959	7.1000	OA 312, 313, 314, 315, 316/76
91	ECM 4	Mannarkkad	Mannarkkad	Muthukurissi, Chullippara	Palakkayam	2211, 2212	4.6500	OA 16/78
Gazette No. 8 dated 20.2.07 EFL12 252/06 dated 11.1.07 (Erratum)								
1		Mannarkkad	Mannarkkad	Kundanatty Malavaram	Palakkayam	Un surveyed	20.24	

Appendix - XXIX

Details of Firelines created by VSS during 2009-10 in Mannarkkad Division

Attappady Range

1) Kadukumanna A.V.S.S.	-	10 Km
2) Aralikonam- Keekarakuthu-Convenor	-	10Km
3) Abbannur-Manjakandy-Convenor	-	5Km
Mannarkkad Range		
1) Achilatty VSS	-	5Km
2) Mankada VSS	-	5Km
3) Cherumala VSS	-	5Km
4) Mannarkkad Statio-Anamooly FPC	-	1Km
5) Kacheriparambu VSS	-	7Km
6) Manthanpotty-Anamooly roadside- Convenor	-	2Km

Agali Range

1) Anakkad to Melthottam – interstate boundary (20metre width) Convenor	-	5Km
2) Keralamedu to Vellingiri- interstate boundary (20metre width) Convenor	-	5 Km

Attappady Range

1) Edavani- Galaxy -Convenor	-	9 Km.
2) Melethudukki – Convenor	-	6 Km

Mannarkkad Range

1) Thodukappukunnu - Convenor	-	3 Km.
2) Singappara- Palakkayam Road – Convenor	-	6 Km
3) Manthapotty – Mezhumkumpara – Convenor	-	3 Km.
4) Pampanthodu – Odakunnu Road – Convenor	-	3 Km.

Agali Range

1) Thachamala FPC	-	4.5 Km.
2) Varadimala FPC	-	7 Km
3) Kallamala AVSS	-	3 Km

Attappady Range

1) Bison swamp- Thuduki Convenor	-	8 Km
2) Vellara- Chembara – Manjikandy FPC	-	4.5Km

Agali Range

1) Agali- Mannarkkad Range boundary -Convenor	-	8.5 Km
2) Cholakad Manthampoty Roadside- Convenor	-	1.5 Km
3) MPCA Singappara (2 nd portion)- Convenor	-	4 Km
1) Siruvani dam to Keralamedu Raodside- Convenor	-	5 Km
2) Koodam to Puliyara – Convenor	-	5 Km
3) Thottapura to State boundary- Singappara AVSS	-	5 Km