

ACKNOWLEDGEMENTS

I have a great pleasure in submitting herewith the Report of the Committee constituted by the Government of Goa to Identify Forest Areas in different Talukas of Goa State.

I wish to express my special thanks to the Hon'ble Chief Minister Shri Manohar Parrikar and also the Forest Minister Shri Vinay Tendulkar for reposing confidence in me and other members of the committee by permitting to carry out with our job independently and without any interference.

The committee could complete this task with the active participation of all the members of the committee, their advice and involvement in the field visit from time to time. Particularly I thank Dr. D. Pandey, Chief Conservator of Forests, Shri A. K. Wahal, Conservator of Forests and the Member Secretaries Shri L. V. Kulkarni, Deputy Conservator of Forests, Dr. P. Devraj, Deputy Conservator of Forests, and Shri. Jitendra Kumar, Deputy Conservator of Forests. Our sincere thanks are also to the Field Staff like R.F.Os, Foresters and Forest Guards who provided with detailed maps and data on forests and also moved with the committee during the field visits. The Committee sincerely acknowledges the services rendered by Smt. Rupa Vaigankar, trainee-Steno-Typist who helped in typing and formatting this report on Computer.

-Sd-
(H. Y. Karapurkar)
Chairman
State Level Expert Committee
for
Identification of Forests.

Panaji
December 16, 2002

FOREWORD

Goa is the smallest State of Indian Union situated in the Western Ghats of central West coast between 14° 49' and 15° 52' N latitude and 73° 38' and 74° 24' E longitude. It is flanked by the Western Ghats on the East and Arabian Sea towards the West.

Goa was liberated from the Portuguese rule in 1961, who rules this tiny territory for about 450 years. Although Goa had very good forest cover during those years, the Portuguese administration had not developed the system of proper mapping, zoning or data collection. From the earlier Portuguese records 'Mata Nacional', it was observed that the forest were identified with the mountains and hills. Later this crude method was changed to the establishment of pillars, for calculating or identifying the forest areas.

However, after the liberation in 1961 Union Territory of Goa, Daman & Diu initiated proper recordings of the forests, i.e. Government as well as private with proper land surveys. Lately, Central Government agencies like FSI and IIRS etc have also carried out assessment of forest cover in the State. While State of Forest report of FSI (1999) gives total forest cover as 1251 sq. km, that of IIRS published recently has approximated the forest cover to be 1591 sq. km. Admittedly, there may be wide variation in these figures due to limitations of correct interpretation of satellite borne, remote sensing data and also due to intermixing of pixels from non-forestry plantation crop with that of adjoining forest areas, thus resulting in over estimation.

State Level Expert Committee have compiled the figures from Government records as well as field assessment carried out by them and all the forestry area put together make upto 1364 sq. kms. It may be unrealistic to call this exercise as complete in itself as there is always a possibility of locating some additional areas which might have escaped the notice of the Committee, due to limitation of time and several other factors. Besides, small isolated patches less than 5.00 Ha. in size are also numerous and the same have not been taken into consideration either by the previous committee or the present one as they did not meet the criteria laid down by the State Government.

Nevertheless, the present assessment of forest areas in the State of Goa irrespective of their ownership provides valuable base line data for the Government agencies to direct their efforts in protecting and helping manage the same as envisaged in the orders of the Hon'ble Supreme Court.

Chairman
State Expert Committee

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1. INTRODUCTION

The Hon'ble Supreme Court with a view to bring complete halt to denudation of forest areas in the country, in their landmark order dated 12.12.1996 in writ **Petition (Civil) No. 202 of 1995 TN Godvarman Thirumulpad V/S Union of India** directed all the States of India to set up a committee to:

- (A) Identify areas which are "Forests" irrespective of Whether they are so notified, recognized or classified under any law, and irrespective of the ownership of the land of such forest;
- (B) Identify areas which were earlier forests but stand degraded, denuded, or cleared; and
- (C) Identify areas covered by plantation trees belonging to Private persons.

1.1. CONSTITUTION OF THE EXPERT COMMITTEE

In pursuant to the Hon'ble Supreme Court's order referred above, Government of Goa issued a notification No. 8-12-96/FOR (REV) (PART)/ dated 24.01.1997, forming a committee under the Chairmanship of Shri S. M. Sawant. This committee submitted two interim reports in February, 1997 and September, 1997 respectively, which were placed before the Hon'ble Supreme Court. The committee submitted its final report on 08.12.1999. It was examined by the State Government and decided that the report was complete and many more areas were yet to be identified. The Government therefore

decided to constitute another committee vide order No. 10/401 (PART-I)/FE/96 dated 04.09.2000. The members of the committee were:

- | | | |
|-----|---|---------------------|
| (1) | Dr. Hemant Karapurkar | Chairman |
| (2) | Conservator of Forests | Member |
| (3) | Shri Anil Walavalkar,
Engineer, Mapusa | Member |
| (4) | Dr. A. Untawale, N.I.O. | Member |
| (5) | Shri R. V. Prabhugaonkar
Journalist. | Member |
| (6) | Dy. Conservator of Forests
(South Goa) | Member |
| (7) | Dy. Conservator of Forests
(North Goa) | Member
Secretary |

Terms of the reference of the committee were as follows:

1. To demarcate and to delimit and or otherwise suggest measures; by a proper land survey all those private properties having natural forest standing thereon.
2. To mutate all such identified areas in the land records to show the classification as 'Forests'.

CRITERIA

The criteria earmarked for the identification of the properties as Forests was fixed by the Government as follows:

1. 75% of the composition should be forestry species.
2. The area should be contiguous to the Government forest and if in isolation, should be more than 5 ha.
3. Canopy density should not be less than 0.4.

1.2. Guidelines laid down by the Committee.

The Committee being aware of the fact that they were required to supplement the task of the earlier committee viz. Sawant Committee, it was, therefore, agreed upon that Government areas which have been identified by the Sawant committee falling in any of the categories as contained in the Hon'ble Supreme Court order as reiterated above should be taken as such and form the part of the present report. As for, private area falling the above categories, the areas freshly identified should be separately listed out in addition to the same done by Sawant Committee so as to supplement the information already compiled by the Sawant Committee. Further as Hon'ble Supreme Court are to be provided with complete information on 'Forests' in the State, the Committee decided to compile and present comprehensive information as far as possible in their report.

As regards private forest areas are concerned, the Committee after going through the report of the Sawant Committee, decided to concentrate on following 3 main categories of lands on which either forests / plantations are existing:

1. Plantations on Comunidade Lands.
2. Mangroves that have naturally come up on Khazan Lands
3. Natural forest / tree growth on private lands especially the dongar areas which were earlier not identified by the Sawant Committee.

Further, Committee also deliberated upon the issue of mutation of identified private forest areas in the land records as provided for in terms for reference of the committee. Since this is a subject area on which action can only be taken by the Government particularly the Revenue Department, only after detailed delineation and mapping of forest area is done and exact extent of area in each of survey numbers so identified by the two committees is known after the detailed land survey by the Forest Department. In view of this position, Committee felt handicapped in taking any action with regard to T.O.R. No.2.

2. METHODOLOGY ADOPTED BY THE COMMITTEE.

Committee were seized with enormous work carried out by Sawant committee who devoted considerable time and energy in collecting data from various sources making field visits, even using Remote Sensing Data etc for the purpose. At the outset, it was therefore, agreed upon by the committee that efforts of the present committee should be to build on / add upon the data already generated by the pervious committee and whenever necessary field checking may be carried out to check the same so as to avoid wrong reporting due to any reasons. Since sizeable area (47.59 sq. kms.) under the private ownership was reported as bearing forest cover in accordance with the criteria given to the committee, it was unanimously decided that the affected persons may also be given opportunity to have their say on the issue of identification of their area by the Committee as it would have subsequent effect of application of Forest Conservation Act on their lands. With this objective in mind, an advertisement was taken out through local newspapers etc and visits were planned to various sites by the committee.

The Committee visited some of these sites and checked the representations received from the affected people and made its own judgment. In between, Goa Foundation filed a PIL in Supreme Court in the month of March 2001. The Hon'ble Supreme Court, while admitting the PIL, passed an Interim Order that nothing contrary to Sawant Committee Final Report be done by the present Committee. Even the Chairman and other members of the Committee were made party to the PIL. This led to engagement of the Government Department as well as Committee members in clarifying the stand of the Government etc before the Hon'ble Supreme Court. It was assured to the Hon'ble Court by the Government and on behalf of all the respondents that the committee was primarily working towards identifying the additional area, if any, so as to complete the task that remained uncompleted by the Sawant Committee. The Hon'ble Supreme Court appreciated the additional work done by the Committee and have directed that they should submit report by January, 2003.

As considerable time was lost due to this PIL and committee was not pretty sure about further course of action required on its part, a state of pandemonium prevailed for quite sometime. The Committee could however, resume its work on receiving State Government's directions in February, 2002 only. Thereafter, 16 nos. of field visits 18 nos. of meetings took place in the Forest Headquarters to complete the work assigned to the Committee.

Due to foregoing reasons and limitation of time, the Committee have not been able to go beyond identification of survey numbers which Committee in its own wisdom and by applying the criterion laid out for the purpose, felt that they are worth reporting. During many a site visits, it was observed that a compact block of natural forests in private area comprised of several part survey nos. which individually do not meet the criterion of 5 ha. However, being looked as a composite block or sometimes being contiguous to Government forests/plantation, they cannot be termed as being non-forest areas. The Committee, therefore, decided to classify them as forests. Some of the areas so identified do not bear forests on the entire survey numbers. Considering the topography of the State, it has been a usual practice from the past to use the land along the lower and middle slopes either under cultivation/plantation while

the upland portion covered with natural fresh vegetation was kept intact. In view of this for all dongor areas, Natural Forests could be seen only of the upper slopes in part area of the Survey numbers. To demarcate/delineate the same on the appropriate map, considerable manpower, resources and time are required. This fact has even been communicated to Hon'ble Supreme Court in the affidavit filed by the Government in the aforesaid PIL.

Mangroves are another important forest crop of forestry nature which have come up profusely, in the State of Goa. Due to its significant ecological importance in maintaining equilibrium of marine eco-system, the Committee decided to devote considerable time in visiting and identifying additional mangrove areas than what was reported by the Sawant Committee in its final report. As by their association, mangroves are occurring along the creeks and back waters, identification of both private as well as Government Survey numbers could not be easily facilitated. As such the Committee had to be content with only reporting part of the same, leaving the task of complete mapping and ground surveying by subsequent teams which are proposed for survey and demarcation of all forest areas other than those under control of Forest Department.

Social Forestry plantations on comunidade land were undertaken by the Department from the year 1980 onwards. These were not reported in details by the previous committee. The committee, therefore, engaged themselves in compiling the data from the Forest Department records so as to enlist all such plantations which are at various age gradations status due to nuances of various Acts in force, it would be a good proposition for the State Government to bring them within the purview of forestry regulation so that they remain legally protected from any onslaught either by people or any other agency.

3. FIELD OBSERVATION & COMPILATION OF DATA

3.1. GOVERNMENT FOREST LANDS

Division	Range	Area (sq. km.)
North	Valpoi	253.82
	Keri	28.82
	Ponda	54.80
	Colem	306.12
	Pernem	15.19
South	Curdi	126.62
	Quepem	71.24
	Sanguem	132.77
	Pissonem	66.43
	Canacona	167.92
	TOTAL	1223.73

SOURCE: Working Plans of Forest Department

**3.1.1. LIST OF FOREST LANDS INVOLVED IN COURT CASES PENDING
BEFORE VARIOUS CIVIL COURTS
(AS RECORDED BY SAWANT COMMITTEE)
(NORTH GOA)**

Sr. No.	Name of the Court	Case No.	Area (Ha.)	Survey No. & Village
1	2	3	4	5
1.	Administrative Tribunal Court, Panaji	Land/Revenue/APPL/26/95	282.60	73, Darbandora
2.	Civil Court, Quepem	Civil/Suit/89/96		
3.	Dy. Collector & S.D.O., Quepem	LRC/EVC/16/88	1.00	65/1, Dudal
4.	-----do----	LRC/EVC/84/95	1.00	30/1, Sangod
5.	-----do----	LRC/EVC/2/94/SANG/33/93	2.00	159, Darbandora
6.	Collector, Margao.	45/5/96/REV/Cumeri	4.37	80, Darbondora
7.	Dy. Collector & S.D.O., Quepem		4.00	
8.	-----do----	LRC/EVC/82/95	0.20	9/2, Sangod
9.	-----do----	LRC/EVC/40/93/SAN	7.43	40/0, Collem
10.	-----do----	LRC/EVC/3/83	0.11	63/4, Mollem
11.	-----do----	LRC/APPL/47/89	0.26	64, Collem
12.	Collector, Margao.	51/1/96	0.06	66/1, Dudal
13.	Dy. Collector & S.D.O., Quepem	LRC/EVC/95	0.66	23, Surla
14.	-----do----	LRC/EVC/10/95	0.25	65/1, Dudal
15.	Civil Court	Civil Suit No. 70/91	38.97	20/1, Melauli
16.	Civil Court	Civil Suit No. 56/97	0.80	9/4, Cudshem
17.	Revenue Secretary	LRC/GDL/Sattari/10/1995	0.79	9/2, Cudshem

1	2	3	4	5
18.	Dy. Collector, North	LRC/MUT/APL/SAT T/77	12.47	2/1, Ansolem
19.	Dy. Collector, North	28/437/79/ENC/SAT T	20.44	14/1, 3/1 & 5/2 Maloli
20.	Dy. Collector, North	GDL/LRC/SAT/9/86	1.28	18/1 & 19/1, Nanora
21.	Dy. Collector, North	GDL/LRC/SAT/4/90	8.52	1/1, 23/1, 3/2, 21/0 Surla
22.	Dy. Collector, North	51/82/MUP/2/92	87.47	13/1, 22/3, 22/4, 22/6 to 22/13, 24/1, 25/1, 25/5, 29/7, 9/8, 29/9, 29/12, 29/15 & 30/5 Xelpo-Curdo
23.	Dy. Collector, North	GDL/LRC/SAT/2/94	17.12	16/1, 17/4, 19/12 Nanora
24.	Dy. Collector, North	4/11/93/ENC/SAT/4 /47/94	1.50	7/1 Maloli, 29/1 Ustem
25.	Dy. Collector, North	LRC/GDL/3413/SAT/97/4038	4.77	14/1 & 2/3 Govanem
26.	District Court	Civil Suit No. 8/79	175.00	16 (part, 164, 108 to 176, 536,177, 116/4 Alorna)
27.	Dy. Collector, Court	1/81/PER/3.1.73	12.00	98/0, 99/1-100/1, 107/0, 110/0, Keri-Pernem
28.	Dy. Collector, Court	No. 16/21/89	7.55	188/0, Latambarcem, Bicholim
29.	Dy. Collector, Court	No. 5/92	11.13	192/0, Latambarcem
30.	Dy. Collector, Court	No. 1/92	1.50	337/0, 338/0, Alorna
31.	Dy. Collector, Court	Mag/SR/145/93	1.00	338/0, Alorna
32.	Dy. Collector, Court	No. 1/94	22.00	190/0, 198/0, Torshem
33.	Dy. Collector & S.D.O., Ponda	No.LRC/10/2/97-Boundary/2710	2.82	84/2(part), 4/2(part), 94/3(part), 4/4(part), 95/0(part), 83/0, Candepar
34.	Dy. Collector, Ponda	Case No. Not alloted	0.60	236, 237 & 244 Usgao
TOTAL			731.68	

**3.1.2. LIST OF DISPUTED FOREST LANDS (SOUTH GOA)
INVOLVED IN COURT CASES BEFORE VARIOUS CIVIL COURTS
AS COMPILED BY SAWANT COMMITTEE**

Sr. No.	Name of the Court	Case No.	Area(Ha.)	Survey No. & Village	
1.	2.	3.	4.	5.	6.
1.	District Court, Margao	147/81	4007.9400	11/1, 34/1 to 5	Verlem
2.	District Court, Margao	51/82	17.1425	120/1, 105/1, 114/9, 114/8, 114/7, 113/3 to 6	Colomba
3.	District Court, Margao	100/81	1043.2100	25/3, 20/1, 19/1, 18/1, 16/1, 15/2, 12/1, 10/1, 9/1, 5/2, 3/1, 2/1, 23/3	Mangal
4.	District Court, Margao	158/81	-	25/3, 20/1, 19/1, 18/1, 16/1, 15/2, 12/1, 10/1, 9/1, 5/2, 3/1, 2/1, 23/3	Mangal
5.	District Court, Margao	310/81	13.4575	8/1, 9/1	Portem
6.	District Court, Margao	1/85	17.1949	109/1	Netrulim
7.	Collector, Margao	13/98/LRC/Title/AC	627.5000	30/1	Netrulim
8.	Collector, Margao	14/98/LRC/Title/AC	-	30/1	Netrulim
9.	Collector, Panaji	LRC/Appeal/2/90	-	34/1 to 5, 11/1	Verlem
10.	Dy. Collector, Quepem	LRC/Title/11/82	342.4800	53/1, 51/1	Vichundrem
11.	Dy. Collector, Quepem	34/88/ID/ENQ/Cort arlim/	166.0000	72/1	Colomba
12.	Dy. Collector, Quepem	91/88ID/ENQ/Curd/i/AC/4091	6.2500	38/1	Curdi

(cont.)

1.	2.	3.	4.	5.	6.
13.	Dy. Collector, Quepem	1588/IS/CS/ ENQ/187/ Mangal	-	2/1, 3/1, 2, 3, 5/1, 5/12, 4, 6, 7, 8, 9, 7/1, 6/1, 10/1, 12/1, 13/1, 3,6, 15, 1, 16/1, 17/1, 18/1, 20/1, 21/1, 22/1, 23/1, 2, 3, 24/1, 2, 25/1, 2, 3	Mangal
14.	Dy. Collector, Quepem	94-88/LS/ENQ/ Netorlim	-	23, 30, 140	Netrolim
15.	Senior Division Court, Quepem	88/96	10.4100	97/1, 98/1	Colomba
16.	Senior Division Court, Quepem	1/88	3.1825	45/3	Vichundrem
17.	Senior Division Court, Quepem	74/94	-	10/1	Mangal
18.	Senior Division Court, Quepem	149/88	-	25/3, 20/1, 19/1, 18/1, 15/2, 16/1, 12/1, 10/1, 9/1, 5/2, 3/1, 2/1	Mangal
19.	District Court, Margao	45/88	-	45/3	Vichundrem
20.	Dy. Collector, Quepem	LRC/EVC/1/1988/ Encroachment/ Survey	-	45/3	Vichundrem
21.	Dy. Collector, Quepem	66/88/AS/PQ/EnQ /31/62	-	120/1	
22.	Dy. Collector, Quepem	LRC/EVC/SAN/1/ 99	1.9800	21/1	Nundem
23.	Dy. Collector, Quepem	LRC/EVC/SAN/25 /95	0.9200	6/1	Colomba
24.	Dy. Collector, Quepem	LRC/EVC/SAN/24 /95	-	6/1	Colomba
25.	Dy. Collector, Quepem	LRC/EVC/SAN/27 /95	-	6/1	Colomba
26.	Dy. Collector, Quepem	LRC/EVC/SAN/95	5.1500	24/1	Vichundrem

(cont.)

1.	2.	3.	4.	5.	6.
27.	High Court	94/94	201.5000	140/1&2	Netrulim
28.	Dy. Collector,	LRC/Title/5/88	489.0600	114	Barcem
29.	Dy. Collector	LRC/APPL/292/96	0.2300	37	Barcem
30.	Dy. Collector	LRC/Title/112/88	72.5600	65	Barcem
31.	Senior Division Court, Quepem	56/97/A	-	65	Barcem
32.	District Court, Margao	134/81/A	-	65	Barcem
33.	Dy. Collector, Quepem	117/88/LD/ENQ/ AC	57.8500	58/1	Morpirla
34.	Dy. Collector,	LRC/Title/117/88	51.7250	65/1	Morpirla
35.	Quepem	28/83	55.7108	76/1	Morpirla
36.	Dy. Collector,	LRC/Title/5/Morpirla/98	23.2000	49/1	Morpirla
37.	Senior Division Court, Quepem	44/95	97.8000	85/1	Morpirla
38.	Mamlatdar, Quepem	MUT/QUEPEM/16/95	20.0000	4/0	Quedem
39.	Tribunal, Panaji	LRC No./1997	37.0000	13	Quisconda
40.	Mamlatdar, Quepem	5	10.5000	150/0	Naquerim
41.	Dy. Collector, Quepem	LRC/Title/123/80	537.7900	402	Cola
42.	Dy. Collector, Quepem	LRC/Title/11/88	-	402	Cola
43.	Administrative Tribunal, Panaji	LRA 11/95	20.0000	11/1	Sulcorna

(cont.)

1.	2.	3.	4.	5.	6.
44.	Addl. Dist. Court, Margao	8/84	30.9400	41/1	Pirla
45.	Addl. Dist. Court, Margao	4/82	6.8775	24/1	Pirla
46.	Addl. Dist. Court, Margao	108/81	180.8800	58/1	Maina
47.	Addl. Dist. Court, Margao	135/81	-	58/1	Maina
48.	Addl. Dist. Court, Margao	136/81	-	58/1	Maina
49.	Addl. Dist. Court, Margao	148/81	67.5900	58/1	Maina
50.	Dir. of Land Survey	LRC/APPEAL/3/87	40.3975	35/1	Pirla
51.	Dy. Collector, Quepem	LRC/104/74/EVC	11.1816	96/0, 100/38	Deao
52.	Dy. Collector, Quepem	LRC/Title/20/80	33.96	96/0	Deao
53.	Dy. Collector, Quepem	LRC/67/88/ENQ	535.5500	109/1, 110/16, 110/6	Rivona
54.	Dy. Collector, Quepem	LRC/49/88/ENQ	10.0000	39/1	Sulcorna
55.	Dy. Collector, Quepem	LRC/EVC/26/80	1.2400	13/1 to 6	Molcornem
56.	Dy. Collector, Quepem	LRC/Title/Rivona/7/ 96	20.1864	194/0	Rivona
57.	Dy. Collector, Quepem	LRC/Title/8/90	0.9275	59/11, 60/0	Rivona
58.	Dy. Collector, Quepem	LRC/Title/1/94	10.8500	18/1	Rivona
59.	Dy. Collector, Quepem	LRC/APL/1/78	-	8/1	Cazur
60.	Dy. Collector, Quepem	LRC/APL/2/78	60.9100	8/1	Cazur
61.	Dy. Collector, Quepem	LRC/APL/3/78	30.9900	41/1	Pirla
62.	Dy. Collector, Quepem	LRC/APL/5/78	0.3850	8/1	Cazur

(cont.)

1.	2.	3.	4.	5.	6.
63.	Dy. Collector, Quepem	LRC/APL/8/78	23.4800	8/1	Cazur
64.	Dy. Collector, Quepem	LRC/APL/9/78	129.6700	10/1, 52/1	Sulcorna
65.	Dy. Collector, Quepem	LRC/APL/12/78	62.5400	8/1	Cazur
66.	Dy. Collector, Quepem	LRC/APL/14/78	23.1500	8/1	Cazur
67.	Dy. Collector, Quepem	LRC/APL/15/78	16.7800	8/1	Cazur
68.	JMFC, Quepem	C.S. 64/95	230.4500	11/1	Sulcorna
69.	Dy. Collector, Quepem	LRC/ENG/CD/Title/ 116/88	135.9975	65/1	Rivona
70.	Dy. Collector, Quepem	44/88/LD/ENG	0.5000	25/1	Bendrudem
71.	Dy. Collector, Quepem	LRC/Part/6/85	194.0200	89/1, 88/1	Rivona
72.	Dy. Collector, Quepem	LRC/CORR/11/90	99.5000	6/1	Nagvem
73.	Dy. Collector, Quepem	LRC/EVC/37/77	0.0300	18/1	Rivona
74.	District Court, Margao	CM.App/48/97	0.9100	42/2, 43/7	Pirla
75.	District Court, Margao	CM.App/157/93, c.a. No. 13/93, R.C.S. No. 62/90	16.7600	8/13, 9/1	Cazur
76.	Civil Judge Senior Division, Margao	113/91/A	25.1600	247, 248, 251, 264/6-7-9	Gaondongrem
77.	Civil Judge Senior Division, Margao	196/90/A	-	-do-	Gaondongrem
78.	Civil Judge Senior Division, Margao	197/90/A	-	-do-	Gaondongrem
79.	Civil Judge Senior Division, Margao	198/90/A	-	-do-	Gaondongrem

(cont.)

1.	2.	3.	4.	5.	6.
80.	Civil Judge Senior, Margao	189/91/A	196.7300	3/0	Goandongrem
81.	Civil Judge Senior, Margao	104/94/B	115.1200	37/1	Cotigao
82.	District Court, Margao	33/81	431.5200	37	Cotigao
83.	District Court, Margao	30/83	338.9800	58/1	Gaandongrem
84.	Dy. Collector, Quepem	65/88/LD/ENQ	789.1200	36/3, 36/4 & 37	Cotigao
85.	Dy. Collector, Quepem	106/88/LD/ENQ	338.9800	38/1	Loliem
86.	Dy. Collector, Quepem	107/88/LD/ENQ	49.9000	199	Loliem
87.	Dy. Collector, Quepem	71/82/ENQ/LRC	0.9375	42/0	Poiguinim
88.	Dy. Collector, Quepem	61/88/LD	-	-	Loliem
89.	Dy. Collector, Quepem	37/88/LD/ENQ	-	199	Loliem
90.	Dy. Collector, Quepem	1/88/LRC/Title	-	199	Loliem
91.	Dy. Collector, Quepem	32/88-LRC/Title	-	199	Loliem
92.	Dy. Collector, Quepem	24/88/LD	-	8/0	Cotigao
93.	Dy. Collector, Quepem	26/88/LD	-	-	-
94.	Dy. Collector, Quepem	3/88/LRC	11.5025	110/0	Canacona
95.	Dy. Collector, Quepem	2/95/LRC/Title	-	199	Loliem
96.	Dy. Collector, Quepem	44/88/LD/ENQ	1.2000	229/1	Loliem
97.	Dy. Collector, Quepem	LRC/Appl/190/89/61	-	148/1	Gaandongrem
98.	Dy. Collector, Quepem	57/88/LD/ENQ/AC	118.99	37/0	Cotigao

(cont.)

1.	2.	3.	4.	5.	6.
99.	Dy. Collector, Quepem	96/88/LD/ENQ	260.4560	37/0	Poinguinim
100	Dy. Collector, Quepem	12/88/LRC/Title	-	199/0	Loliem
101	Civil Judge, Margao	154/97/II/Addl	24.0000	137/1	Gaondongrem
102	Dy. Collector, Quepem	11/89/LRC/Title	50.2800	199	Loliem
103	Dy. Collector, Quepem	41/88/LD/ENQ/Loli em	321.6900	229/0	Loliem
104	Dy. Collector, Quepem	60/88//LD/ENQ/AC	845.5500	37/0	Cotigao
105	Dy. Collector, Quepem	38/88/LD/ENQ	-	229/0	Loliem
106	Dy. Collector, Quepem	56/88/LD/ENQ	328.3100	38/1	Loliem
107	Dy. Collector, Quepem	53/89/LRC/Cor	271.839	199/1	Nagorcem- Paloem
108	Civil Judge, Margao	239/97/II/Addl	-	48, 51, 52	Cotigao
109	Dy. Collector, Quepem	LRC/Title/Poin/12/9 7	113.1025	39/0	Poinguinim
110	District Court, Margao	LRC/263/91	-	-	Poinguinim
111	Dy. Collector, Addl. Court. Margao	9- 98/LRC/II/AppI/Titl e/AC	-	48, 51, 52	Cotigao
112	Dy. Collector, Quepem	24/88/lrc/Title	-	-	-
113	Civil Judge Senior Division, Margao	24/99	-	170/1	Gaondongrem
114	Civil Judge Senior Division, Margao	15/97	6.0000	39/1	Uguem
115	District Court, Margao	11/83	40.4300	21	Nainguinim

(cont.)

1.	2.	3.	4.	5.	6.
116	Civil Judge Senior	64/95	100.0000	34, 36, 37, 38	Vililiena
117	Dy. Collector, Quepem	LRC/EVC/64-94	0.1500	92/0	Bhati
118	Dy. Collector, Quepem	LRC/EVC/65/94	0.0320	92/0	Bhati
119	Dy. Collector, Quepem	LRC/EVC/66/94	1.3450	92/0	Bhati
120	Dy. Collector, Quepem	LRC/EVC/67/94	0.4525	92/0	Bhati
121	Dy. Collector, Quepem	LRC/EVC/68/94	0.4675	92/0	Bhati
122	Dy. Collector, Quepem	LRC/EVC/69/94	0.6990	92/0	Bhati
123	Dy. Collector, Quepem	LRC/EVC/70/94	0.0300	92/0	Bhati
124	Dy. Collector, Quepem	LRC/LD/ENQ/101/ 88	2.0000	8	Comarcondã
125	Dy. Collector, Quepem	LRC/EVC/LAN/29/ 93	2.0000	5	Comarcondã
126	Dy. Collector, Quepem	LRC/EVC/35/86	3.0000	5/3	Comarcondã
127	Dy. Collector, Quepem	LRC/EVC/74/90	1.2000	5	Comarcondã
128	Dy. Collector, Quepem	LRC/Title/1/92	2.1125	24/2	Sanvordem
129	Dy. Collector, Quepem	LRC/Title/LD/17/ 88	7.3600	2	Comarcondã
130	Collector, Margao	APP/PET/12/96	4.0905	10/0	Potrem
131	Collector, Margao	APP/PET/2/96	4.0000	24/1	Patiem
132	Collector Margao	LRC/Title/44/88	6.0000	5/3	Comarcondã
133	Dy. Collector, Quepem	LRC/Title/2/98	9.6500	92/0	Bhati
134	Senior Division Court, Quepem	12/96	21.0000	31/0	Naiquinim
TOTAL			14954.97		

3.2. FORESTS ON REVENUE LANDS

Sr. No.	Taluka	Village	Survey No.	Area Ha.
1.	Pernem	Chopdem	Riverbed of Chopdem	1.00
2.	Sanguem	Piliem	17/1, 19/1, 20	30.39
3.	Satari	Conquirem	17/3	10.00
4.	Pernem	Varcond	37, 38	5.00
5.	Pernem	Ugem	22/0	5.00
6.	Sanguem	Rumbrem	23/1	10.00
7.	Sanguem	Potrem	12	8.00
8.	Sanguem	Patiem	49(p)	7.00
9.	Canancona	Cola	138(p)	4.00
Total				80.39

3.3.

FORESTS ON PRIVATE AREAS

3.3(A) AS IDENTIFIED BY SAWANT COMMITTEE

NORTH GOA

Sr. No.	Taluka	Village	Survey No.	Area Ha.
1	2	3	4	5
1	Tiswadi	Gaundaulim	15/1, 15/5, 16/0	5.00
2		Bainguinim	Part of 16/1, part of 26/2, part of 31, part of 32	50.00
3		Ella	77, 79, 136, 138	33.98
4		Gaoli-moula	31/1, 39/2	100.00
5		Mandur	43/1	20.00
6		Cujira	Not available	5.00
7		Talaulim	107/1	60.00
8		Latamarcem	764, 765, 768	20.00
9	Bicholim	Nanora-latamarcem	518	5.00
10		Latamarcem	Not identified	10.00
11		Amthane Latamarcem	Not identified	5.00

(cont)

1	2	3	4	5
12		Sal	Not identified	10.00
13		Dhumasem Mencurem	Not identified	10.00
14		Nanora-latambarcem	Not identified	5.00
15		Nanora-latambarcem	Not identified	5.00
16	Sanguem	Sangod	12/1(p), 20/1(p)	40.32
17		Sangod	29/1	20.7625
18		Sangod	33/1part	18.76
19		Molem	17/1 (p)	115.00
20		Darbondora (Tathodi)	100/1	7.69
21		Darbandora	172/1	4.18
22		Darbandora	208/1 Part	5.30
23		Colem	39/2	10.9475
24		Calem / Kalay	71/2(p), 74/1(p), 96/1(p)	56.00

(cont)

1	2	3	4	5	
25		Dongurli	8/0(p)	5.00	
26		Surla	6/0(p)	14.00	
27		Surla	16/4 Part	10.00	
28		Surla	27/0	0.77	
29		Surla	17/4(p), 29/0(p)	26.00	
30		Surla	33/0(p), 37/0(p), 67/0(p), 10/0(p)	67.25	
31		Surla	71/0(part)	31.00	
32		Sacordem	33/1(p), 26/1(p)	16.22	
33		Cuncolem	91/0, 88/0	28.75	
34		Cuncolem	90/0	16.36	
35		Ponda	Querim	136/1, 137/1	10.00
36			Nirancal	45/0,111/0,101/0,103/0,31/3, 72/0,73/0,31/0	62.54
37			Khandepar	120/1 & 120/2	2.00

(cont)

1	2	3	4	5
38		Shiroda	636/1	10.88
39		Borim	357/1	5.00
40		Codar	49/(p)	5.00
41		Codal	6/4-9, 10/1, 10/2, 15/1, 15/3, 15/4, 22/1-2, 23/1-3, 24/0, 6/2, 15/2	212.2875
42		Keri	102/1, 24/1	200.00
43		Ravan	71/0	6.00
44		Satari	Molpona	28/1, 35/1
45	Naneli		30/1, 29/0	10.00
46	Naneli		32/0(p)	5.00
47		Malauli	54/1	5.00
48		Melauli	11/1, 86/2, 13/1	18.00

(cont)

1	2	3	4	5
49		Penha de Franca	38/1(p), 40 part, 42(p), 45(p), 39(p), 51(p), 52(p), 84(p), 85(p), 86(p), 92(p), 93(p), 104/1(p), 104/2(p), 105/1(p), 69/4	26.00
50		Reis Magos	Part of 32/1, 41/0, 42/1, 43/0, 45/0, 46/0, 47/1, 48/1, 48/1-A-E, 48/2, 48/3, 48/4, 48/5, 49/1, 50/1, 51/1, 51/2, 51/3, 52/1, 53/1, 54/1, 55/1, 56/1, 56/2, 57/1, 57/2, 64/3, 64/5, 63/0(p), 44/0	93.46
51	Bardez	Marna	Part of 100/9, 100/12, 104/1, 105/1, 105/2, 105/3, 105/24, 105/26, 105/34, 105/39, 105/48, 105/49, 105/50, 105/51, 105/52, 106/0	15.00
52		Siolim	200(p), 295/1, 295/2	20.00
53		Thivim	Part of 399/1, 399/12, 401(p), 403/1-3, 404/0, 405/0, 366/3-A	23.00
54		Socorro	13/1(p), 164(p), 164/1-A(p), 164/1B(p), 164/1-C(p), 164/1-D(p), 164/1E(p), 164/1F(p), 164/2(p), 165/1-12(p), 166/1-2(p), 167/1(p), 170/1(p), 171/1(p), 172/1(p), 260/1(p), 261/1A(p), 261/1B(p), 261/1C(p), 173(p), 174(p), 268(p), 278(p), 291(p), 292(p), 301(p), 303(p), 304(p), 305(p), 307(p), 308(p)	50.00
55		Salvador do Mundo	233/1, 233/2, 235/0, 236/0, 237/0, 239/1, 239/2, 266/0, 274/0	80.00
56		Salvador do Mundo	127/1, 127/2, 127/3, 132/0, 129/1	8.6975

57	Bardez	Pomburpa	Parts of 9/1, 12/1, 13/1, 16/2	30.00
58		Colvale	87/1, 158/1, 158/2, 158/3, 158/4	5.00
59		Pilerne	Part of	60.00
60		Verla		5.00
61		Assagao		5.00
62		Arpora		50.00
63		Dhargal		40.00
64		Casarvornem		10.00
65		Pernem		10.00
66		Vazari-Madcai		5.00
67	Pernem	Pernem		10.00
68		Tuem		5.00
69		Alorna		5.00
Total				19.60 sq. km

**3.3 (B) AS IDENTIFIED BY SAWANT COMMITTEE
SOUTH GOA**

Sr. No.	Taluka	Village	Survey No.	Area in ha.	
1	2	3	4	5	
1	Canacona	Loliem	214(p), 328/2, 328/3, 246/1	235.56	
2		Poinguinim	259/1,258/4, 260/1, 113/0, 2/1,41/1, 269/1,270/1, 165/1, 156/1, 191(p)	385.29	
3		Gaondongrem	168/1, 166/1, 153/1, 154/1, 155/1, 158/1	170.74	
4		Cola	27(p), 106, 111(p), 148(p), 125 to 130(p), 60/2, 34(p)	91.40	
5		Agonda	63(p), 73(p), 74(p)	15.00	
6	Salcete	Raia	297(p), 334(p), 201(p), 200(p), 397(p), 363(p), 364(p), 362(p), 398(p), 400(p), 401(p)	25.00	
7		Loutolim	165(p), 166(p), 154(p), 160(p), 167(p), 193(p), 194(p), 201(p), 202(p)	26.00	
8		Cutorim	232/3 & adjoining area	5.00	
9		Verna	65(p), 88(p), 64(p)	5.00	
10		Camurlim	N. A.	5.00	
11		Zanodem	10(P), 11(P), 13(P), 14(P)	100.00	
12		Pirla	6(p), 9(p), 38/1, 39/1, 43(p), 44(p)	110.00	
13		Sulcorna	15(p), 16(p), 17(p), 27(p), 28(p), 4(p)	125.00	
14		Ambaulim	N.A.	5.00	
15		Xeldem	10(p)	10.00	
16		Sirvoi	86(p), 87(p), 88(p), 89(p), 147(p), 148(p), 149(p)	150.00	
17		Quepem	Molcornem	46(p), 47(p), 48(p), 39(p), 82(p), 83(p)	150.00
18			Xic Xelvona	1(p), 32(p), 33(p)	8.00
19	Xelvona		26(p), 28(p)	8.00	
20	Naquerim		N.A.	50.00	

21		Nagvem	N.A.	10.00
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22		Assolda	45(p), 46(p)	5.00
23		Odar	14(p), 36(p)	4.00
24		Undorna	17(p)	20.00
25		Padi	22(p), 25(p), 26(p), 27(p)	40.00
26		Paroda/Mulem	N. A.	150.00
27		Quedem	30(p)	2.00
28		Maina	16/1	7.00
29		Rivona	107 & 108	50.00
30		Neturlim	146(p), 21(p), 105(p)	15.00
31		Colomba	48(p), 57(p), 68(p), 144(p)	60.00
32		Curdi	39(p), 29(p)	60.00
33		Ugem	39, 82(p), 68	135.00
34	Sanguem	Ugem	Not available	50.00
35		Bati	28(p), 61	22.00
36		Patiem	11(p)	20.00
37		Cumbari	18(p)	20.00
38		Villiena	11(p)	25.00
39		Cormonem	Not available	15.00
40		Bati	Not available	20.00
41		Naiquinim	1	15.00
42		Rumbrem	9(p), 10(p)	40.00
43		Codli	41(p)	30.00
44		Netorlim	21, 105	10.00
45		Verlem	14(p), 18(p), 19(p), 22(p)	100.00
46		Tudou	5, 6, 19	16.00
47		Portem	31, 32, 34	10.00
48		Curpem	5(p)	10.00
49	Marmagao	Sancoale	69(p), 54(p)	20.00

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50		Grande Island & St. George Island		40.00
Total				2728.99

3.3 (C)

**NEW PRIVATE FOREST AREAS IDENTIFIED BY THE
KARAPURKAR COMMITTEE
NORTH GOA**

Sr. No.	Taluka	Village	Survey Nos.	Area (ha.)	Remarks
1.	Tiswadi	Siridao	41	0.43	All survey numbers are contiguous & taken together form a compact forest block. Some clearance has taken place in coconut plantations in part of the area adjacent to the tar road.
			42	9.02	
			43	2.28	
			44	1.77	
			48	2.27	
			49	11.63	
			50	4.28	
			51	3.64	
			53	2.58	
			54	4.02	
			55	2.51	
				44.44	
		Telaulim	99/0	46.19	All Survey Numbers consist of forest blocks.
			106/1	99.01	
			98/0	23.53	
			97/6	0.07	
			97/5	2.1	
			97/4	1.51	
			97/3	0.83	
			97/2	1.00	
			97/1	14.21	
			107/2	0.26	
				188.71	
		Curca	25	6.16	
			42	18.20	
			44	13.76	
				38.12	
		Naura-O-Piqueno	23(part)	29.00	Part of the sy. No. consists of natural vegetation & the rest area bears sparse cashew plantation.
		Morambi-o-Grande	256	5.20	All sy. Nos. taken together form compact forest block except some lower areas along the roadside being utilized for residential purposes.
			257	4.73	
			232	4.21	
			230	4.33	
			229	13.37	
			258	0.60	
			259	5.15	
			231	6.11	
			227	2.48	
			225	0.72	
			224	7.80	
			226	3.27	
				56.98	
		Chimbel	40/1	48.44	
			40/0	5.62	
			42/2	45.29	
				99.35	

Sr. No.	Taluka	Village	Survey Nos.	Area (ha.)	Remarks			
		Siolim	190/0 222/0 225/0 298/0 297/0 245/1	22.12 55.2 13.77 5.14 8.01 9.18 113.42	All sy. Nos. combined together form compact forest blocks.			
		Assagao	160/1 66/1 115/1 198/1 110/1 131/1 159/1 145/1 144/1 100/1 99/1	13.61 9.94 13.23 22.45 54.35 24.28 11.68 49.52 28.1 18.45 18.47 264.08		All sy. Nos. taken together form compact blocks of forestry nature		
3.	Ponda	Cuncolem	92/2 14/2	13.27 9.1 22.37	These sy. No. form compact forest blocks.			
			Shiroda	557/1 605/1		17.58 6.88 24.46		
		Usgao Querim		224/1		21.74		
			157/1 158/1 159/1 161/1 162/1 163/2	8.08 3.37 11.77 9.56 1.52 2.44 1.52 38.26				
			4.	Satari		Keri	24/2 93 89	10.00 10.00 10.00 30.00
			Ansolem			2/1(p) 6/1(p) 1/2	12.47 16.5 9.9 38.87	
Naguem	7/2	14.4						
Saleli	73/2(p)	241.4						
Veluz	75/1	15.66						
Dhavem	37/1	10.16						
Poriem	91/1	8.16						
5.	Pernem	Korgao	808/0		22.36			

		Pernem	119(p)	8.00	
				1716.66	

3.3 (C)

**NEW PRIVATE FOREST AREAS IDENTIFIED BY THE
KARAPURKAR COMMITTEE
SOUTH GOA**

Sr. No.	Taluka	Village	Survey Nos.	Area (ha.)	Remarks
6.	Sanguem	Signonem	2	5.92	
			3	5.74	
				11.6	
		Rivona	126	5.59	
			127	10.28	
			141(p)	20.00	
				35.87	
		Sangod	18/1	21.66	
		Agalote	62/1	9.02	
		Colem	36/0	16.16	
Piliem	17/1	2.41			
	18/1	1.45			
	19/1	9.80			
	20/1	19.68			
Sancordem	29/1	25			
Dharbandora	208/1	42.36	The area consists of forest growth on the upper slope. There is a small patch down below which has cashew plantation.		
7.	Quepem	Sulcorna	12(p)	10.00	
8.	Canancona	Loliem	253 to 258	20	Part of the area is abandoned paddy fields, only small area is cultivated. Rest all consists of natural forest.
9.	Salcette	Raia	361	54.145	
		Curtorim	186, 187	7.26	
10.	Mormugao	Sancoale	55(p) & 56(p)	15.00	Contiguous with forests
				301.41	
GRAND TOTAL				2018.07	

3.3 E. REFERENCES RECEIVED BY THE EXPERT COMMITTEE AND REPORT THEREON

The previous and the present Expert Committee received following references about private areas for carrying out site inspection and to report position thereof.

1. Property No. 69/4 at Penha de France belonging to Tata Housing Development Company.
2. Lease No. 42/56 of Kunda Garse in village Tudou of Sanguem Taluka.
3. Property at Sy. No. 23 of Neura-o-Pequeno belonging to Shyam Kamat of Sterling Abode.

Sawant Committee received the first reference quoted above in connection with Writ Petition No. 273/97 filed by Goa Foundation in the High Court of Bombay, Goa Bench. The Committee carried out site inspection and submitted report on 22.4.98 which was forwarded to the Hon'ble Court vide CF letter No. 10/421/FD/97/325/23 dated 23.4.98. The said area was identified as private forest being contiguous to forest in adjoining survey numbers.

As regards lease No. 42/56 Kunda Gharse in village Tudou of Sanguem Taluka is concerned, the present committee has noted that the Survey No. 5, 6 and 19 totaling about 16 ha, which fall in the aforesaid lease are already identified as private forest by the Sawant Committee. Regarding survey and delineation of actual forest area from the said lease, the committee felt that this is required to be done for all the survey numbers identified by the committee after Government decides to engage teams consisting of surveyors etc of Forest Department for this specific purpose. The committee on going through the records have also noted that renewal application for the lease had been rejected by the State Government and thereafter appeal filed by the lessee under MMRD Act has also been turned down by the Department of Mines, Government of India. In view of this, there may not be any urgency as such to survey and delineate the private forest area which can be done together with other private survey number identified and listed as above in the Report.

The committee inspected the property at Sy. No. 23 of Neura-o-Pequeno. It is observed that part area of the sy. No. is covered with natural forest growth while rest is having cashew trees growing sparsely over the area. Forest area from the said sy. No. can be delineated by carrying out actual ground survey.

3.5. MANGROVE FORESTS IN STATE OF GOA.

Mangroves are the tidal forests, which are found along the estuaries, backwaters and creeks. This is one of the highly productive ecosystems, which is rich in the biodiversity. The State of Goa is situated along the central west coast of India. The Mandovi, Zuari estuaries, along the Cumbarjua Canal is the largest estuarine complex with maximum mangrove area covered. There are seven estuaries like Terekhol, Chapora, Mandovi, Zuari with interconnecting Cumbarjua canal, Sal, Talpona and Galgibag. Physical data of these estuaries is shown in the following table.

Estuary	Estuarine or Riverine area (in ha)	Mangrove Area (in ha)	Mangrove (%)
Terekhol	390.0	30	8.6
Chapora	711.0	100	14.0
Mandovi	5564.0	700	12.6
Zuari	5790.0	900	15.5
Cumbarjua canal	375.0	200	53.3
Sal	302.0	30	9.9
Talpona	40.0	20	25.0
Galgibag	26.0	20	76.9
Total	131574.0	2000	15.1

Mangrove forests of Goa mostly are either the Government property or the private ownership. Untawale et al (1980) estimated about 2000 ha of mangroves in Goa (Table 1). This had some limitations, since all the minor creeks and backwaters were not included. An effort was made by Research Division of Forest Department in Goa to assess the mangrove areas in different Talukas part of which may be falling in rivulet/estuaries and part on the private sy Nos. located all along the same. As per this estimation total area estimate for the mangrove is other than those which are under the control of Forest Department inform of plantations and those falling in Chorao Bird Sanctuary comes out to be 2905 ha. Details are as under:

List of Private Mangrove Growth in Goa.

Sr. No.	Taluka	Location	Approximate area in ha.
1.	Salcete	Loutolim	350.00 ha
2.	--do--	Assolna	100.00 ha
3.	--do--	Chinchinim	360.00 ha
4.	Ponda	Shiroda	330.00 ha
5.	--do--	Borim	530.00 ha
6.	Tiswadi	Santan	150.00 ha
7.	--do--	Chorao	150.00 ha
8.	--do--	Goa Velha	5.00 ha
9.	Bicholim	Sirigao	107.00 ha
10.	--do--	Mulgao	22.00 ha
11.	Bardez	Salvador-do-Mundo	100.00 ha
12.	--do--	Siolim	45.00 ha
13.	--do--	Revora	12.00 ha
14.	--do--	Ecoxim	50.00 ha
15.	--do--	Tivim	50.00 ha
16.	Pernem	Pernem	124.00 ha
17.	Mormagao	Quelocim	400.00 ha
Total			2905.00 ha.

Mangrove plantation:

Since 1985 Forest Department of Goa Government has taken up large scale mangrove plantation programme along the open intertidal mudbanks of the estuaries. According to the Forest Department records from 1991 to 2002 almost 1078.30 ha of mangrove plantation has been undertaken as per details given below:

Total mangrove cover of Goa.

From the above, total mangrove area works out as follows:

1. Mangrove cover on private land	2905.00 ha
2. Mangrove plantation	1078.30 ha
3. Dr. Salim Ali Sanctuary, Chorao	<u>178.00 ha</u>
	4161.30 ha

From the above, it may follow that the present estimates of mangrove forest cover in State of Goa show manifold increase in their coverage. Since mangrove are protected spp. As notified by the State Government, they would require complete protection for which detailed field survey Talukawise and detailed survey nos. etc plotwise are required. This is a voluminous job requiring extra manpower and resources such as boat, surveyors etc. The committee understands that Research Division of Forest Department are entrusted with the responsibility to protect the naturally occurring mangrove and propagate mangrove plantations in the State and in recent past they have undertaken detailed survey along the estuaries from Penha-de-France upto Aldona covering Pomburpa, Ecoxim, Mapusa, Moira etc and from Cortalim to Borim. It is therefore, suggested that they may do the extensive survey at all other places to give ac complete detailed information about the status of Mangroves in the State.

4. LIMITATIONS OF THE REPORT AND RECOMMENDATIONS

4.1 LIMITATIONS:

1. The methodology adopted by the committee was to rely on Government record (forest as well as Revenue records), and to make the field visit to the site to ascertain the factual position. However, some NGO's had come forward in helping to locate such areas in field. The involvement of actual owner of the property in respect of areas identified as private forest, could not be done due to cumbersome procedure of serving upon them a notice to come forward with the details and awaiting for their response etc and then fixing up a date. It was also anticipated that some of them due to fear/apprehension of their areas being identified as forest by the committee, might try to put a hindrance in the field visit etc thereby stalling the committee's task.
2. The committee did certainly feel handicapped due to non-availability of high resolution satellite/aerial borne remote sensing data of recent origin as that would have made the task of the committee simpler in identifying and locating the isolated pockets of forests/vegetation areas outside the hold of Forest Department and then carrying out extensive ground truthing based on the same. The committee has, therefore, planned field inspection based on the local knowledge of the chairperson and other members of the committee as well as on the information provided by the forest executive staff. Detailed land survey of private forest area as well as khazan lands bearing mangrove vegetation could not be carried out due to lack of resources specially the skilled manpower such as surveyors etc. moreover, this would have been very time-consuming exercise due to widely scattered nature of such areas throughout the length and breadth of the State.
3. Although adequate care has been taken to enlist the correct survey numbers etc by consulting the village map as well as form I & XIV obtained from Land Survey Directorate, the possibility of committing some mistakes in matching the survey numbers with ground locations, could not be ruled out. The same, however would be subject to

correction at the time of detailed field survey proposed for actual delineation/mapping of the areas so identified on a suitable base map.

Due to forgoing reasons, it is also likely that some remote and secluded lands specially under private/revenue department ownership might have escaped the notice of the committee. There has been no deliberate attempt on the part of committee to not include any area, which meet the criteria laid down for the identification as being forest.

4.2. RECOMMENDATIONS:

1. The Committee have tried to identify and locate as much areas that fulfilled the basic criteria. However, due to its very nature, the exercise could never be termed as complete in all respects and, therefore, still there could be a possibility of identifying some more areas in subsequent surveys. In the opinion of the Committee, this exercise may continue for some more time so as to give effect to Hon'ble Supreme Court's decision.
2. Sawant Committee in its final report has recommended constitution of a Task Force for ground survey so as to delineate the actual extent of forests on the survey numbers identified by the committee especially private areas and khazan lands for mangrove. As far as forest areas under the control of the government are concerned, they have been completely surveyed and fully mapped by the Department. They shall, therefore, remain safeguarded both in Government records as well as on the ground. The job of surveying these areas could be done taking help of the total station now available with the Working Plan Division of the Forest Department as also by forming two teams headed by the surveyors for each of North/South Districts. The Government / Department will have to especially earmark the additional funds for this purpose. If services of the Departmental Surveyor and field staff are employed for this purpose, it would not entail any monetary expenditure on account of salary/wage component and expenditure only on transport and TA-DA will have to be incurred.

3. The ultimate objective behind this exercise was to give effect to the orders of the Hon'ble Supreme Court in extending the applicability of Forest Conservation Act to all such areas, which are identified by the State Level Expert Committee as forests. While the government forest areas within the control of Department are protected by way of regulation, those lying outside will have to be afforded protection by notifying the same through Government Gazette. Since private forest areas cannot be brought within the purview of I.F.A. and the issues like right to property are involved, Government may explore any other legal provisions / possibilities for doing the same.

4. As stated earlier, committee did anticipate problems involving the affected people in carrying out the entire exercise of identifying the forest land. Even in case of Sawant Committee and now the present Committee, the affected people whose lands have been identified have not notified of the same. To make them informed about the same and also to make them aware about the implications of the same, it would be imperative for the government to decide on the modalities of the same. The Committee, on their own, have not ventured into this aspect as it was not covered in the Term of References of the committee and due to the fact that the committee did apprehend some hindrance in this regard.

5. Keeping in view the preservation and conservation of Goa Forest, which is a part of Western Ghats, the Committee recommends to draw proper guidelines to create awareness among the local community for the protection of Forests. Although the Hon'ble Supreme Court has not totally banned the forest felling, it has directed the concerned Departments, to regulate the felling through proper management plans.

Dr. Hemant Karapurkar
Chairman

A. K. Wahal
Conservator of Forests,
Member

Shri Anil Walavalkar,
Engineer, Mapusa, Member

Dr. A. G. Untawale
Member

R. V. Prabhugaonkar,
Journalist
Member

R. K. Singh
Dy. Conservator of
Forests,
(South), Member

Dr. P. Devraj
Dy. Conservator of
Forests,
(North), Member

SUMMARY

Based on the data collected/compiled by the Sawant as well as present Committee the position in respect of forest area in the State of Goa emerges as under:-

	Area in sq. km.
1. Forest land under control of Government including plantation on the forest land	1223.73
2. Forest on revenue land	0.80
3. Private forests	
a) As identified by Sawant Committee	
i) North Goa	19.60
ii) South Goa	27.29
b) As identified by Karapurkar Committee	
i) North Goa	17.17
ii) South Goa	3.01
4. Government plantations on non-forest land	
a) Comunidade land	31.23
b) Devalaya land	6.50
c) Road side	2.40
d) Canal bank	0.72
e) Others	0.80
5. Mangrove forests	41.61
Total	1364.39

The Sawant Committee did also compile data on private plantations of non-forestry spp to the extent of 791 sq. km. of which 523 sq. km. are cashew plantations on private Plantations on private holdings. If we add these figures with that above then the total vegetation area in the State of Goa works out of be 2155 sq. kms which is 58.2% of the total geographical area of the State. The

State in this sense is highly privileged to have such a large percentage cover of greenery which help in providing luxuriant evergreen coverage which adds to the beauty of the landscape, and are good source of water flow through its rivers, clean and pollution free environment for the ecological and well being of the people concerned (both government as well as people) to help maintain this green cover for prosperity and welfare of the people of the state and their future generations.

No. 10/401(Part-1) FD/96/216/3036
Government of Goa,
Forest Department,
Panaji – Goa.
Dated:- 4th Sept, 2000

O R D E R

The Government of Goa, hereby constitutes as Expert Committee consisting of the following”-

- | | |
|---|----------|
| 1. Dr. Hemant Karapurkar | Chairman |
| 2. Conservator of Forests | Member |
| 3. Shri Anil Walavalkar, Engineer, Mapusa | Member |
| 4. Dr. A. G. Untawale, NIO., | Member |
| 5. Shri R. V. Prabhugaonkar, Journalist | Member |
| 6. Dy. Conservator of Forests, (South) | Member |
| 7. Dy. Conservator of Forests, (North) | Member |

The terms of reference of the Committee are as follows:-

1. To demarcate and to delimit and or otherwise suggest measures, by a proper land survey all those private properties having natural forest standing thereon.
2. To mutate all such identified areas in the land records to show the classification as ‘forests’.

The criteria/guidelines for the identification of the above properties will be as follows:-

1. 75% of the composition should be forestry species.
2. The area should be contiguous to the Govt. forest and if in isolation, should be more than 2 Ha.- To be read as 5 ha.
3. Canopy density should not be less than 0.4

The Committee shall give a hearing to the affected persons if it feels necessary to do so.

The committee shall give its findings within a period of six months from the date of its constitution.

By order and in the name
Of the Governor of Goa

-Sd-
(Richard D' Souza)
Additional Secretary (Forests)

ANNEXURE II

MEETINGS HELD BY STATE LEVEL EXPERT COMMITTEE

Sr. No.	Date
1	10/10/2000
2	22/02/2001
3	17/01/2002
4	07/02/2002
5	25/02/2002
6	07/03/2002
7	26/03/2002
8	16/10/2002
9	21/10/2002
10	31/10/2002
11	07/11/2002
12	04/12/2002
13	05/12/2002
14	09/12/2002
15	10/12/2002
16	11/12/2002
17	12/12/2002
18	13/12/2002

ANNEXURE III

DETAILS OF FIELD INSPECTIONS OF STATE LEVEL EXPERT COMMITTEE

Sr. No.	Date	Taluka	Places visited
1.	30/11/2000	Sanguem	Codli, Carmonem, Pattiem, Tudou
2.	15/01/2001	Bardez	Penha de France, Reis Magos
3.	25/01/2001	Ponda	Cuncolim, Querim, Nirankal, Codar, Khandepar, Shiroda, Borim
4.	30/01/2001	Sanguem	Dharbandora, Sangod, Sancordem, Mollem
5.	06/02/2001	Bicholin & Pernem	Latambarshem, Warkhand, Dhargal
6.	22/02/2001	Quepem	Paroda, Sirvoi, Sulcornia, Pirla
7.	27/02/2001	Bicholim & Sattari	Dhavem, Keri, Melaulim, Malpona
8.	16/03/2001	Bardez	Soilim, Camurlim, Arpora
9.	20/03/2001	Bardez	Pomburpa, Salvador de Munde, Succorro & Nachinola
10.	11/04/2001	Sattari	Codal, Naneli
11.	20/04/2001	Salcette & Mormugao	Sancoal, Verna, Loutolim, Raia, Curtorim
12.	03/05/2001	Sanguem	Uguem, Bhati, Potrem, Cumbhari

13.	12/11/02	Tiswadi & Bardez	Siridao, Telaulim, Curca, Nachinola, Pomburfa
14.	15/11/2002	Ponda & Sanguem	Keri, Rivona
15.	19/11/2002	Bicholim & Satari	Querim, Morlem, Anujem Dam Site
16.	21/11/2002	Pernem	Pernem, Dhargal
17.	25/11/2002	Satari	Saleli, Ansolem, Nagvem
18.	02/12/2002	Salcette & Canacona	Cortalim, Loutolim, Rai, Orlim, Cavellossim, Loliem