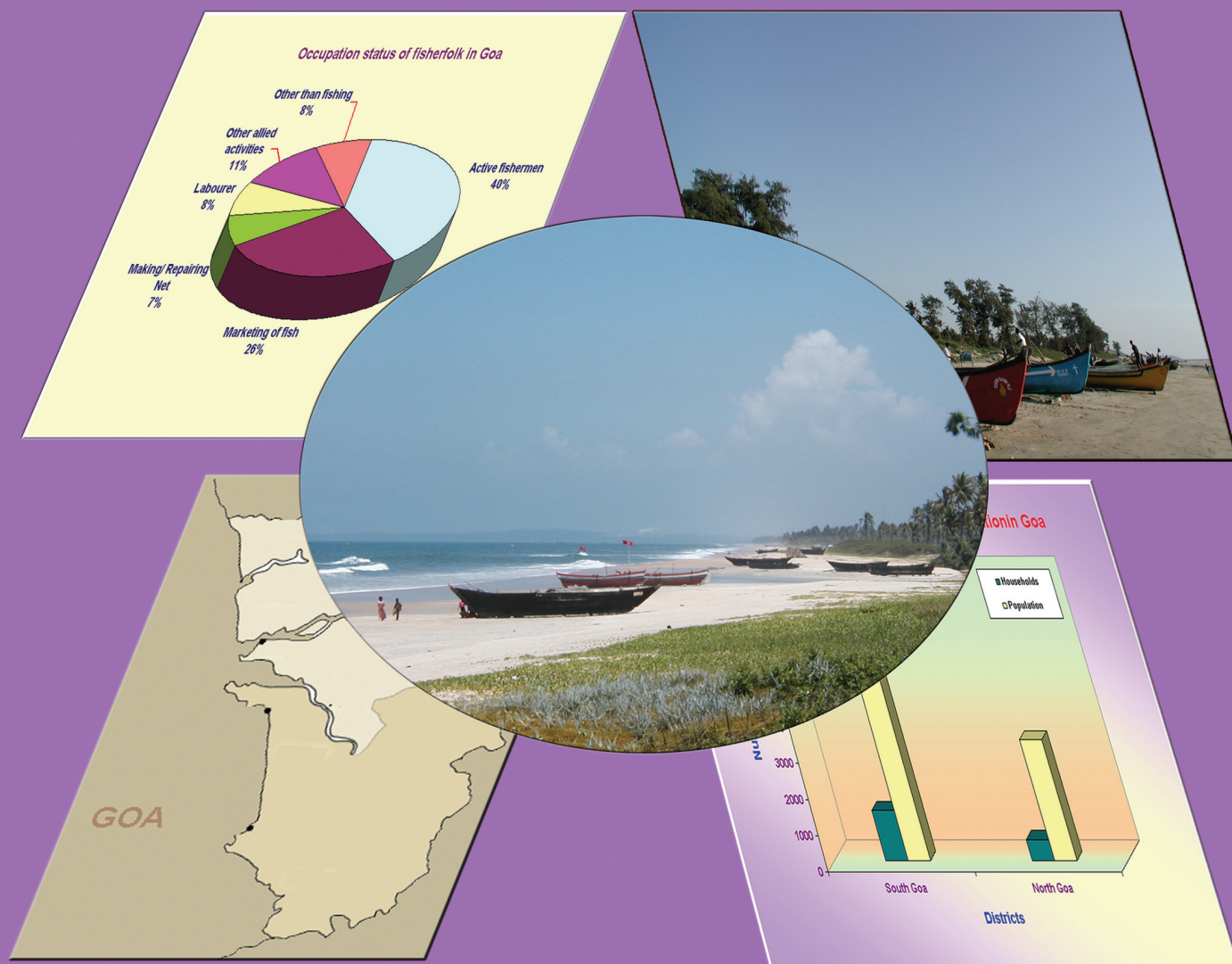


Marine Fisheries Census 2005

Part - III (8) - Goa

Census2005



Census2005



Government of India
Ministry of Agriculture
Department of Animal Husbandry, Dairying & Fisheries,
Krishi Bhavan, New Delhi



Central Marine Fisheries Research Institute, Cochin
(Indian Council of Agricultural Research, New Delhi)

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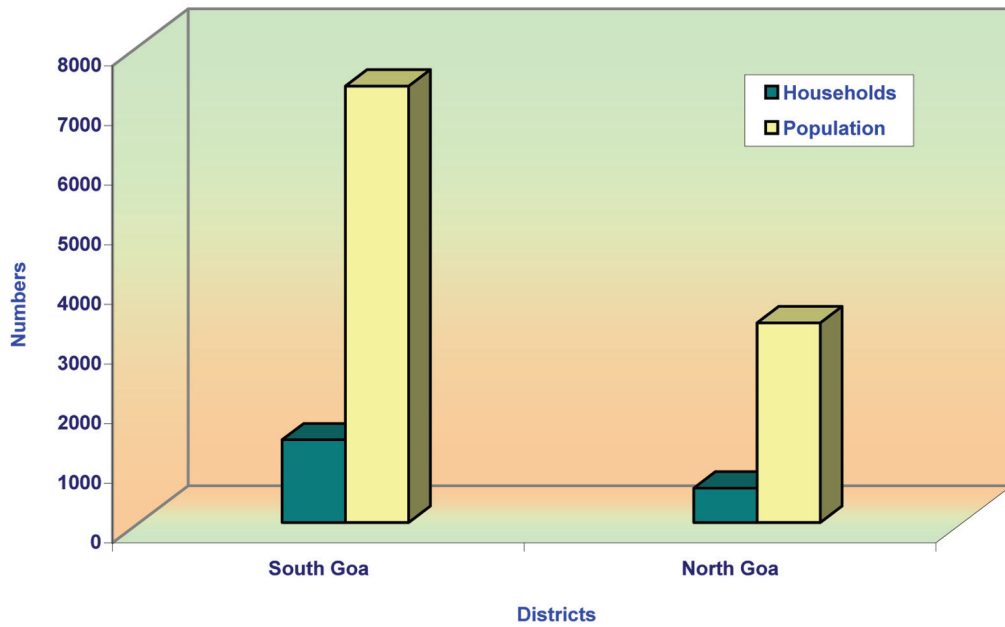
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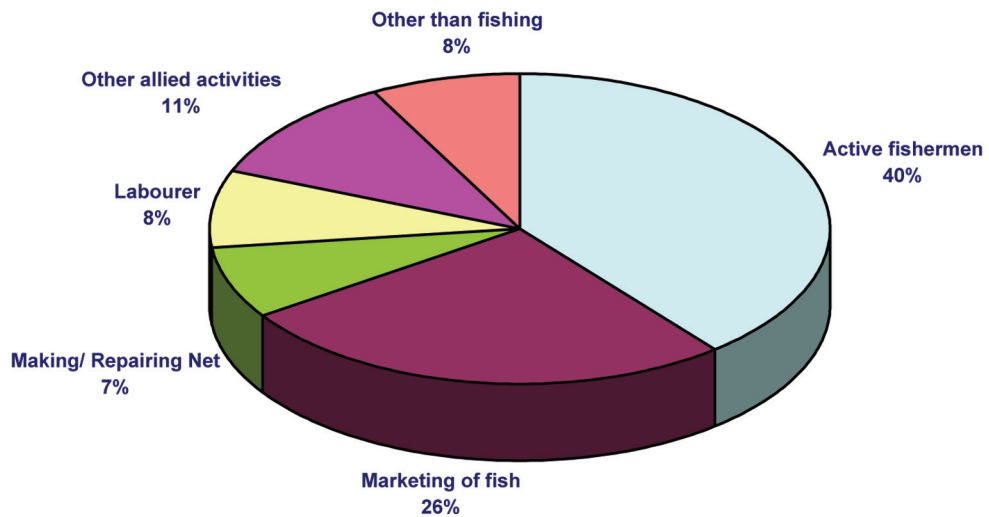
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MARINE FISHERFOLK HOUSEHOLDS AND POPULATION



DISTRIBUTION OF OCCUPIED FISHERFOLK



Marine Fisheries Census 2005

Part - III (8) - Goa



Government of India
Ministry of Agriculture
Department of Animal Husbandry, Dairying & Fisheries
Krishi Bhavan, New Delhi



Central Marine Fisheries Research Institute, Cochin
(*Indian Council of Agricultural Research, New Delhi*)

PREFACE

For an informed management regime to ensure sustainability of the marine fisheries, it is essential not only to have reliable information on the status of marine fish resources along with fishing effort expended but also the number of fishing villages, landing centres, fisherfolk population, their occupation status, fishing crafts, fishing gears and other related parameters. With this objective, the Central Marine Fisheries Research Institute (CMFRI), Cochin has been conducting frame surveys at periodic intervals. Marine fisheries census on an all India basis was last conducted by CMFRI during May-July, 1980. Since the last census, the marine fisheries in India have witnessed both qualitative and quantitative changes. Post 1980 was also been a period where a number of management/policy interventions were made by the Government of India and the maritime states for ensuring sustainability, conservation of resources and to protect the interests of artisanal fishermen. Surely, the policies and interventions need to be reviewed and fine tuned in view of the highly dynamic nature of marine fisheries. For this a strong realtime and reliable database on various aspects of marine fisheries is essential. Recognising such a need, Department of Animal Husbandry, Dairying & Fisheries (DAHD&F), Ministry of Agriculture (MOA), Govt. of India, has taken up during the 10th Five Year Plan, a programme on Strengthening of Database and Information Networking for Indian Fisheries Sector in which Marine Fisheries Census is a major component. Recognising the expertise and experience of CMFRI in conducting such massive census surveys, the DAHD&F, MOA has entrusted the task of conducting the All India Marine Fisheries Census in the mainland to CMFRI.

Frame of the survey, namely, the marine fishing villages available with CMFRI was validated and updated with the latest information obtained from the respective maritime states. After identification of census parameters such as the population size, education, religion, occupation, number of crafts and number of gears etc., the necessary schedules were designed to collect information and these were approved by the Technical Monitoring Committee set up by DAHD&F, MOA.

The census was conducted in two phases with the first phase covering all the maritime states and Union Territories except Tamil Nadu and Pondicherry which

were covered during second phase. The first phase was conducted during April-June, 2005 and the second during November-December, 2005. Over 300 CMFRI staff (Scientific and Technical) supervised the field level and zonal level census operations ensuring proper collection of relevant data. A total of 1,492 field enumerators mostly drawn from the fishing communities/fishing villages covered 3,202 marine fishing villages. After completion of the census in both the phases, the data were sent to headquarters for processing and preparation of reports. The software required for data entry, data validation and processing was developed by the scientists of Fishery Resources Assessment Division, CMFRI.

The final report (containing two parts) on the marine fisheries census on an All India basis with respective state summaries including the scope, census parameters, their definitions, the types of schedules and instructions for collection of data was released by Shri.P.M.A. Hakeem, I.A.S., Secretary, DAHD&F, Ministry of Agriculture, Govt of India on 25 July 2006 at Krishi Bhavan, New Delhi.

The rapid census exercises and the information supplied by the state department resulted in the finalization of 39 marine fishing villages spread over two districts in Goa. Conscious efforts were made to avoid villages that were estuarial and other inland fishery regions. Further in the villages only those households were selected where at least one member of the family was involved in marine fishing or allied activities. This publication (Part III of the Census report) summarises the districtwise census data of Goa covering a range of information right from the population bifurcation among Goa fisherfolk to the ownership pattern of different craft, either full or partial. For a better understanding of the craft and gear ownership vis-à-vis occupational fishing, specially assorted information on number of households, which thrives by fishing without any wherewithal, has also been presented. Such incisive processing will be of much use to the planners and state authorities, whose primary objective is targeted towards the 'have-nots' of fishery. This report contains an exhaustive list of fishing villages of Goa along with their socio-occupational profile including the craft and gear infrastructure segregated sector-wise.

I take this opportunity to thank the DAHD&F and the Indian Council of Agricultural Research (ICAR) for entrusting CMFRI with this onerous responsibility, which has been completed within a reasonable time span. Special mention is required to laud the role played by CMFRI personnel especially, Dr. V.S. Kakati, SIC, Karwar Research Centre of CMFRI and the associated scientific and technical staff who made

this venture a success with their dedicated and tireless efforts. I hope this report in this current shape and form will be of immense utility to the quintessential observer of Indian Marine Fishery.



CMFRI
Cochin

(Mohan Joseph Modayil)
Director & National Co-ordinator,
National Marine Fisheries Census, 2005

SUMMARY

Marine Fisheries Census 2005 was carried out in two districts of the State of Goa. The scope, time frame, the parameters, their definitions and types of schedules used are described in Part I and Part II of the Marine Fisheries Census Report. The salient features are summarised below:-

- There are in all 34 landing centres in Goa. Number of landing centers in South Goa district is 21 and North Goa district has 13 landing centres.
- There are 39 marine fishing villages in Goa. South Goa district has 26 fishing villages and North Goa district has 13 fishing villages.
- Goa has 1,963 fishermen families. South Goa district has the maximum number (71%). North Goa has 29%.
- The total marine fisherfolk population in the state is 10,668 out of which adult male constitute 38%, adult female 35% and children 27%.
- Districtwise analysis of the fisherfolk population shows that the maximum number is in South Goa district (69%) and remaining 31% belong to North Goa.
- Average fishermen population per village is about 274 and family size is 5.4
- 16% of the fishermen population in the State of Goa acquired primary education, 43% secondary, 10% above secondary and 31% have no formal education.
- The number of fisherfolk engaged in actual fishing is 2,515 forming 24% of the total fishermen population.
- Out of 2,515 fisherfolk engaged in actual fishing, 60% engaged in fulltime fishing, 32% part-time and 8% occasional.
- Out of 6,399 fisherfolk occupied in the fishery activities 39% are active fishermen and 53% are engaged in other activities such as marketing, repairing/making nets, curing, processing, peeling, labourer and other allied activities. The remaining 8% are engaged in other activities not related to fishery.

Marine Fisheries Census 2005

- Out of 1,963 fishermen families in the State of Goa, majority of the families are Hindus (62%), followed by Christians (37%) and Muslims constitute the rest (1%). There is no fishermen families belong to SC/ST category.
- About 3% fisherfolk have membership in Fisheries and other Co-operative Societies.
- In Goa, 2,551 fishing crafts are **in the fishery** out of which 43% are mechanized, 36% motorized and the remaining 21% are non-mechanized crafts. In the mechanized crafts 76% are trawlers, 18% are purse-seiners, 5% are gillnetters and the remaining 1% form others.
- Out of 1,831 fishing crafts are owned by the fishermen of Goa. 21% are mechanized, 51% are motorized and the remaining 28% are non-motorized.
- Among the mechanized, 65% are trawlers, 22% are purse-seiners, 12% are gillnetters. The remaining 1% comprise others.
- Among the motorized sector, fibre glass boat forms 7%, ring seiner 23%, and plank-built boat 68%. The remaining 2% comprise others.
- In non-motorized sector, 64% are plank-built boats and 36% are dugout.
- Important gears of Goa are gillnets, trawl nets and drift nets. Sharing pattern of gears was more visible in shore seines. Number of gillnets in Goa is given as number of pieces. About 26,348 pieces of gillnet are owned by the fishermen.
- About 181 fishermen families possess electronic gadgets and 43 families possess life saving equipment.
- Nearly 21% of the fisherfolk possess neither craft nor gear.
- In Goa 28% of the fishermen houses are kutcha houses and 72% are pucca houses.
- There about 146 Primary schools, 87 Secondary schools, 20 Colleges and 12 Technical Institutions in the fishing villages.
- 30 fishing villages in the State are electrified and connected by road, 29 villages have bus stop/stand.

TABLES

TABLE 1. DISTRICT PROFILE

District	No. of landing centres	No. of fishing villages	No. of fishermen families	Fisherfolk Population
South Goa	21	26	1,386	7,320
North Goa	13	13	577	3,348
Total	34	39	1,963	10,668

TABLE 2. POPULATION STRUCTURE

District	No. of fishing villages	No. of fishermen families	Male			Female		Total	Family size
			Adult	Children	Total	Adult	Children		
South Goa	26	1,386	2,799	984	3,783	2,593	944	3,537	5.28
North Goa	13	577	1,237	496	1,733	1,185	430	1,615	5.80
Total	39	1,963	4,036	1,480	5,516	3,778	1,374	5,152	5.43

TABLE 3. EDUCATIONAL STATUS

District	Primary	Secondary	Above Secondary	Not educated	Total
South Goa	1,036	3,279	603	2,402	7,320
North Goa	655	1,302	499	892	3,348
Total	1,691	4,581	1,102	3,294	10,668

TABLE 4. ACTIVE FISHERFOLK

District	Full time	Part time	Occasional	Total	Fisherfolk Population
South Goa	854	696	123	1,673	7,320
North Goa	657	121	64	842	3,348
Total	1,511	817	187	2,515	10,668

TABLE 5. OCCUPATIONAL PROFILE

District	Active fishermen	No. of members involved in fishing allied activities							Total occupied	Fisherfolk population
		Marketing of fish	Making/Repairing Net	Curing/Processing	Peeling	Labourer	Others	Total		
South Goa	1,673	1,018	428	0	0	302	648	2,396	4,417	7,320
North Goa	842	670	51	0	0	213	52	986	1,982	3,348
Total	2,515	1,688	479	0	0	515	700	3,382	6,399	10,668

TABLE 6. GENDER-WISE FISHING ALLIED ACTIVITIES

District	Male						Female						Total	Fisherfolk population		
	Marketing of fish	Making/Repairing Net	Curing/Processing	Peeling	Labourer	Others	Total	Marketing of fish	Making/Repairing Net	Curing/Processing	Peeling	Labourer			Others	Total
South Goa	13	424	0	0	288	644	1,369	1,005	4	0	0	14	4	1,027	2,396	7,320
North Goa	206	51	0	0	213	42	512	464	0	0	0	0	10	474	986	3,348
Total	219	475	0	0	501	686	1,881	1,469	4	0	0	14	14	1,501	3,382	10,668

TABLE 7. RELIGION (NO. OF FAMILIES)

District	Religion			Total
	Hinduism	Islam	Christianity	
South Goa	972	22	392	1,386
North Goa	237	0	340	577
Total	1,209	22	732	1,963

TABLE 8. MEMBERSHIP IN CO-OPERATIVES

District	Members in		Fisherfolk population
	Fisheries co-operatives	Other co-operatives	
South Goa	280	9	7,320
North Goa	75	5	3,348
Total	355	14	10,668

TABLE 9. FISHING CRAFT IN THE FISHERY

District	Trawlers	Purse-seiners	Gillnetters	Others	Total Mechanized	Motorized	Non-motorized	Total
South Goa	628	181	47	11	867	474	440	1,781
North Goa	202	15	0	3	220	458	92	770
Total	830	196	47	14	1,087	932	532	2,551

TABLE 10. CRAFT OWNED BY FISHERFOLK

Craft \ District	South Goa	North Goa	Total
MECHANIZED			
1 Trawler(<30')	93	3	96
Trawler(30'-35')	60	5	65
Trawler(36'-40')	16	8	24
Trawler(>40')	29	37	66
TRAWLERS	198	53	251
2 Purse Seiners (<40')	1	2	3
Purse Seiners (>40')	74	7	81
PURSE SEINERS	75	9	84
3 Gill Netter (<30')	47	0	47
Gill Netter(>30')	0	0	0
GILL NETTERS	47	0	47
4 Ring Seiners (<40')	7	0	7
Ring Seiners (>40')	0	0	0
RING SIENERS	7	0	7
TOTAL MECHANIZED	327	62	389

TABLE 10. Contd.

Craft \ District	South Goa	North Goa	Total
MOTORIZED			
1 Dugout	1	12	13
2 Catamarans	0	2	2
3 Plank-built	372	258	630
4 Ring Seiner	75	143	218
5 Fibre Glass	20	43	63
6 Others	3	0	3
TOTAL	471	458	929
NON-MOTORIZED			
1 Dugout	148	39	187
2 Plank-built	282	44	326
TOTAL	430	83	513
GRAND TOTAL	1,228	603	1,831

TABLE 11. SHARING PATTERN OF CRAFT AMONG FISHERFOLK
(No. of families having shares in fishing craft)

Craft / District	South Goa	North Goa	Total
Mechanized			
Purse Seiners (>40')			
<25%	0	0	0
25-50%	8	0	8
50-75%	0	0	0
>75%	0	0	0
Total	8	0	8
Total Purse seiners	8	0	8
Total Mechanized			
<25%	0	0	0
25-50%	8	0	8
50-75%	0	0	0
>75%	0	0	0
Total	8	0	8

TABLE 11. Contd.

Craft / District	South Goa	North Goa	Total
Motorized			
Plank-built			
<25%	0	0	0
25-50%	4	1	5
50-75%	0	0	0
>75%	2	0	2
Total	6	1	7
Total Motorized			
<25%	0	0	0
25-50%	4	1	5
50-75%	0	0	0
>75%	2	0	2
Total	6	1	7
Non-Motorized			
Plank-built			
<25%	75	42	117

TABLE 11. Contd.

Craft / District	South Goa	North Goa	Total
25-50%	0	11	11
50-75%	0	0	0
>75%	0	0	0
Total	75	53	128
Total Non-motorized			
<25%	75	42	117
25-50%	0	11	11
50-75%	0	0	0
>75%	0	0	0
Total	75	53	128
Total craft			
<25%	75	42	117
25-50%	12	12	24
50-75%	0	0	0
>75%	2	0	2
Total	89	54	143

TABLE 12. GEARS OWNED BY FISHERFOLK

Gear \ District	South Goa	North Goa	Total
Trawl net	1,057	281	1,338
Purse seine	160	123	283
Boat seine	5	0	5
Drift net	10	134	144
Gill net (Large)	4,592	5,164	9,756
Gill net (Medium)	3,485	5,867	9,352
Gill net (Small)	1,462	5,778	7,240
Total Gill net pieces	9,539	16,809	26,348
Ring seine	115	162	277
Shore seines	170	34	204
Scoop net	90	38	128
Others	296	313	609

Note :- Shaded rows indicate number of pieces

TABLE 13. SHARING PATTERN OF GEARS AMONG FISHERFOLK
(No. of families having shares in fishing gears)

Gear \ District	South Goa	North Goa	Total
Purse seine			
<25%	1	0	1
25-50%	0	0	0
50-75%	0	0	0
>75%	0	0	0
Total	1	0	1
Drift net			
<25%	13	0	13
25-50%	0	0	0
50-75%	0	0	0
>75%	0	0	0
Total	13	0	13
Shore seine			
<25%	22	42	64
25-50%	2	0	2

TABLE 13. Contd.

Gear \ District	South Goa	North Goa	Total
50-75%	0	0	0
>75%	0	0	0
Total	24	42	66
Others			
<25%	0	1	1
25-50%	0	0	0
50-75%	0	0	0
>75%	0	0	0
Total	0	1	1

TABLE 14. Electronic equipment and life saving equipments (No. of families)

District	Electronic gadgets	Life saving equipments
South Goa	106	18
North Goa	75	25
TOTAL	181	43

TABLE 15. ADDITIONAL INFORMATION

District	Total Families	No. of families					Only women involved in fishing allied activities
		Involved in fishing			Not involved in fishing		
		No craft	No gear	Neither	Having craft	Having gear	
South Goa	1,386	537	448	379	11	21	30
North Goa	577	91	42	39	21	22	21
Total	1,963	628	490	418	32	43	51

TABLE 16. INFRASTRUCTURE - HOUSING AND EDUCATION (IN THE VILLAGES)

District	No. of villages	No. of Families	Housing		Education			
			Kutcha houses (%)	Pucca houses (%)	Total	Primary	Secondary	College Technical Institutions
South Goa	26	1,386	27.63	72.37	1,256	86	44	5 2
North Goa	13	577	30.33	69.67	523	60	43	15 10
Total	39	1,963	28.43	71.57	1,779	146	87	20 12

TABLE 17. INFRASTRUCTURE / FACILITIES (IN THE VILLAGES)

District	No. of villages	Villages electrified	Villages connected by road	Villages having bus stop/stand	Hospitals	Banks	Co-operative Societies	Community centers	Local festivals	Cinema theatres
South Goa	26	17	17	16	94	33	12	26	77	3
North Goa	13	13	13	13	29	19	11	31	86	4
Total	39	30	30	29	123	52	23	57	163	7

VILLAGEWISE TABLES

TABLE 18. POPULATION

Sl No.	Name of the Village	House holds	Adults		Children		Population				
			Male	Female	Male	Female	Male	Female	Total		
DISTRICT : SOUTH GOA											
TALUK : CANACONA											
1	Agonda	59	89	99	188	46	43	89	135	142	277
2	Agonda(Parve)	37	61	60	121	17	27	44	78	87	165
3	Agonda(Saleri)	132	240	208	448	109	90	199	349	298	647
4	Cabo De Rama Nuvem	25	51	43	94	17	20	37	68	63	131
5	Canacona Lower Colomb	25	39	36	75	16	23	39	55	59	114
6	Canacona Mangam Panep	45	82	69	151	32	20	52	114	89	203
7	Canacona Polem	146	265	259	524	104	97	201	369	356	725
8	Canacona Upper Colomb	70	100	98	198	59	37	96	159	135	294
9	Canacona(Kinalebag)	129	229	208	437	92	99	191	321	307	628
10	Canacona(Patnem)	21	33	28	61	13	7	20	46	35	81
11	Galshibag	16	35	34	69	11	13	24	46	47	93
12	Metvem Khola	25	44	39	83	18	26	44	62	65	127
13	Polem	9	20	15	35	8	4	12	28	19	47

TABLE 18. Contd.

SI No.	Name of the Village	House holds	Adults			Children			Population		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
14	Talpona	22	45	46	91	6	14	20	51	60	111
TALUK : MARMAGOA											
15	Baina(Vasco)	95	266	219	485	74	81	155	340	300	640
16	Bogmalo	18	39	45	84	8	6	14	47	51	98
17	Vasco-Da-Gama	35	86	93	179	32	44	76	118	137	255
18	Velsao	60	163	135	298	41	41	82	204	176	380
TALUK : QUEPEM											
19	Betul	55	103	100	203	29	37	66	132	137	269
TALUK : SALCETE											
20	Ambelim	17	39	33	72	8	9	17	47	42	89
21	Baradi(Betul)	118	227	223	450	91	69	160	318	292	610
22	Benaulim	111	267	261	528	45	42	87	312	303	615
23	Cavelossim	21	48	48	96	6	4	10	54	52	106
24	Colva	75	184	158	342	82	66	148	266	224	490
25	Cutbona	7	14	9	23	6	9	15	20	18	38

SOUTH GOA TOTAL

SI No.	Name of the Village	House holds	Adults		Children		Population					
			Male	Female	Total	Male	Female	Total	Male	Female	Total	
26	Varca	13	30	27	57	14	16	30	44	43	87	
SOUTH GOA TOTAL			1,386	2,799	2,593	5,392	984	944	1,928	3,783	3,537	7,320
DISTRICT : NORTH GOA												
TALUK : BARDEZ												
1	Baga	18	20	25	45	39	23	62	59	48	107	
2	Calangute	33	46	49	95	50	42	92	96	91	187	
3	Chapora	71	178	150	328	32	20	52	210	170	380	
4	Nerul	59	87	87	174	99	80	179	186	167	353	
TALUK : PERNEM												
5	Harmal	88	205	182	387	76	69	145	281	251	532	
6	Mandrem	16	35	34	69	12	14	26	47	48	95	
7	Morjim	39	87	83	170	29	23	52	116	106	222	
8	Querim	43	88	77	165	21	12	33	109	89	198	
TALUK : TISWADI												
9	Agacaim	26	55	61	116	17	17	34	72	78	150	

TABLE 18. Contd.

Sl No.	Name of the Village	House holds	Adults		Children		Population	
			Male	Female	Male	Female	Male	Female
10	Caranzalem	20	46	63	8	4	54	67
11	Dona Paula(Maaria)	51	115	104	28	35	143	139
12	Nauxi	17	57	46	22	29	79	75
13	Shiridona	96	218	224	63	62	281	286
NORTH GOA TOTAL		577	1,237	1,185	496	430	1,733	1,615
GRAND TOTAL		1,963	4,036	3,778	1,480	1,374	5,516	5,152
				7,814		2,854		10,668

TABLE 19. EDUCATIONAL STATUS

SI No.	Name of the Village	Primary	Secondary	Above Secondary	Total educated	Not educated
DISTRICT : SOUTH GOA						
TALUK : CANACONA						
1	Agonda	17	120	8	145	132
2	Agonda(Parve)	17	80	0	97	68
3	Agonda(Saleri)	31	252	12	295	352
4	Cabo De Rama Nuvem	13	46	3	62	69
5	Canacona Lower Colomb	10	51	4	65	49
6	Canacona Mangam Panep	7	116	1	124	79
7	Canacona Polem	43	268	12	323	402
8	Canacona Upper Colomb	15	124	7	146	148
9	Canacona(Kinalebag)	57	297	9	363	265
10	Canacona(Patnem)	6	33	5	44	37
11	Galshibag	6	25	9	40	53
12	Metvem Khola	9	44	0	53	74
13	Polem	4	11	13	28	19

TABLE 19. Contd.

SI No.	Name of the Village	Primary	Secondary	Above Secondary	Total educated	Not educated
14	Talpona	16	40	8	64	47
TALUK : MARMAGOA						
15	Baina(Vasco)	149	294	83	526	114
16	Bogmalo	23	58	14	95	3
17	Vasco-Da-Gama	52	104	34	190	65
18	Velsao	74	184	45	303	77
TALUK : QUEPEM						
19	Betul	47	171	22	240	29
TALUK : SALCETE						
20	Ambelim	10	52	23	85	4
21	Baradi(Betul)	130	348	55	533	77
22	Benaulim	135	293	86	514	101
23	Cavelossim	22	40	26	88	18
24	Colva	116	173	102	391	99
25	Cutbona	5	29	1	35	3

TABLE 19. Contd.

SI No.	Name of the Village	Primary	Secondary	Above Secondary	Total educated	Not educated
26	Varca	22	26	21	69	18
SOUTH GOA TOTAL		1,036	3,279	603	4,918	2,402
DISTRICT : NORTH GOA						
TALUK : BARDEZ						
1	Baga	27	26	4	57	50
2	Calangute	42	49	11	102	85
3	Chapora	67	128	134	329	51
4	Nerul	48	95	15	158	195
TALUK : PERNEM						
5	Harmal	102	223	84	409	123
6	Mandrem	17	53	9	79	16
7	Morjim	51	95	41	187	35
8	Querim	40	69	49	158	40
TALUK : TISWADI						
9	Agacaim	68	59	20	147	3

TABLE 19. Contd.

SI No.	Name of the Village	Primary	Secondary	Above Secondary	Total educated	Not educated
10	Caranzalem	19	37	27	83	38
11	Dona Paula(Maaria)	63	121	44	228	54
12	Nauxi	25	53	3	81	73
13	Shiridona	86	294	58	438	129
NORTH GOA TOTAL		655	1,302	499	2,456	892
GRAND TOTAL		1,691	4,581	1,102	7,374	3,294

TABLE 20. ACTIVE FISHERFOLK

SI No.	Name of the Village	No. of members engaged in Actual Fishing			Total
		Full time	Part time	Occasional	
DISTRICT : SOUTH GOA					
TALUK : CANACONA					
1	Agonda	0	53	1	54
2	Agonda(Parve)	0	25	9	34
3	Agonda(Saleri)	0	111	20	131
4	Cabo De Rama Nuvem	0	23	0	23
5	Canacona Lower Colomb	0	13	6	19
6	Canacona Mangam Panep	0	34	12	46
7	Canacona Polem	0	132	9	141
8	Canacona Upper Colomb	1	56	11	68
9	Canacona(Kinalebag)	0	112	16	128
10	Canacona(Patnem)	0	18	3	21
11	Galshibag	0	3	0	3
12	Metvem Khola	0	25	0	25
13	Polem	0	3	0	3

TABLE 20. Contd.

Sl No.	Name of the Village	No. of members engaged in Actual Fishing			
		Full time	Part time	Occasional	Total
14	Talpona	0	17	2	19
TALUK : MARMAGOA					
15	Baina(Vasco)	164	17	3	184
16	Bogmalo	26	2	0	28
17	Vasco-Da-Gama	40	20	2	62
18	Velsao	105	8	8	121
TALUK : QUEPEM					
19	Betul	46	9	0	55
TALUK : SALCETE					
20	Ambelim	24	0	0	24
21	Baradi(Betul)	141	13	0	154
22	Benaulim	141	2	6	149
23	Cavelossim	25	0	5	30
24	Colva	117	0	8	125
25	Cutbona	7	0	0	7

TABLE 20. Contd.

Sl No.	Name of the Village	No. of members engaged in Actual Fishing			
		Full time	Part time	Occasional	Total
26	Varca	17	0	2	19
SOUTH GOA TOTAL		854	696	123	1,673
DISTRICT : NORTH GOA					
TALUK : BARDEZ					
1	Baga	20	1	0	21
2	Calangute	44	6	0	50
3	Chapora	67	43	8	118
4	Nerul	83	2	7	92
TALUK : PERNEM					
5	Harmal	114	11	1	126
6	Mandrem	22	2	0	24
7	Morjim	56	2	0	58
8	Querim	3	14	20	37
TALUK : TISWADI					
9	Agacaim	20	6	18	44

TABLE 20. Contd.

SI No.	Name of the Village	No. of members engaged in Actual Fishing		
		Full time	Part time	Occasional
10	Caranzalem	23	3	4
11	Dona Paula(Maaria)	47	7	1
12	Nauxi	39	5	1
13	Shiridona	119	19	4
NORTH GOA TOTAL		657	121	64
GRAND TOTAL		1,511	817	187
				2,515

TABLE 21. FISHING ALLIED OCCUPATION - MEN

SI No.	Name of the Village	Marketing of fish	Making/Repairing Net	Labourer	Others	Total
DISTRICT : SOUTH GOA						
TALUK : CANACONA						
1	Agonda	4	25	0	52	81
2	Agonda(Parve)	0	20	3	30	53
3	Agonda(Saleri)	0	118	20	119	257
4	Cabo De Rama Nuvem	0	3	0	10	13
5	Canacona Lower Colomb	0	4	11	20	35
6	Canacona Mangam Panep	0	29	0	32	61
7	Canacona Polem	1	64	99	129	293
8	Canacona Upper Colomb	3	23	44	50	120
9	Canacona(Kinalebag)	1	112	88	130	331
10	Canacona(Patnem)	0	17	21	21	59
11	Galshibag	0	0	0	10	10
12	Metvem Khola	0	7	0	21	28
13	Polem	0	1	0	6	7

TABLE 21. Contd.

SI No.	Name of the Village	Marketing of fish	Making/ Repairing Net	Labourer	Others	Total
14	Talpona	0	1	0	1	2
TALUK : MARMAGOA						
15	Baina(Vasco)	0	0	0	0	0
16	Bogmalo	0	0	0	0	0
17	Vasco-Da-Gama	0	0	0	1	1
18	Velsao	1	0	0	0	1
TALUK : QUEPEM						
19	Betul	1	0	0	6	7
TALUK : SALCETE						
20	Ambelim	0	0	0	0	0
21	Baradi(Betul)	0	0	0	6	6
22	Benaulim	0	0	0	0	0
23	Cavellossim	0	0	0	0	0
24	Colva	2	0	2	0	4
25	Cutbona	0	0	0	0	0

TABLE 21. Contd.

Sl No.	Name of the Village	Marketing of fish	Making/Repairing Net	Labourer	Others	Total
26	Varca	0	0	0	0	0
SOUTH GOA TOTAL		13	424	288	644	1,369
DISTRICT : NORTH GOA						
TALUK : BARDEZ						
1	Baga	0	0	0	0	0
2	Calangute	0	0	0	0	0
3	Chapora	1	16	0	2	19
4	Nerul	0	0	0	0	0
TALUK : PERNEM						
5	Harmal	3	2	0	14	19
6	Mandrem	1	0	0	0	1
7	Morjim	0	11	0	3	14
8	Querim	0	0	4	5	9
TALUK : TISWADI						
9	Agacaim	200	16	204	0	420

TABLE 21. Contd.

SI No.	Name of the Village	Marketing of fish	Making/Repairing Net	Labourer	Others	Total
10	Caranzalem	1	5	0	4	10
11	Dona Paula(Maaria)	0	1	3	8	12
12	Nauxi	0	0	1	0	1
13	Shiridona	0	0	1	6	7
NORTH GOA TOTAL		206	51	213	42	512
GRAND TOTAL		219	475	501	686	1,881

TABLE 22. FISHING ALLIED OCCUPATION - WOMEN

Sl No.	Name of the Village	Marketing of fish	Making/ Repairing Net	Labourer	Others	Total
DISTRICT : SOUTH GOA						
TALUK : CANACONA						
1	Agonda	42	0	0	0	42
2	Agonda(Parve)	23	0	0	0	23
3	Agonda(Saleri)	75	0	0	0	75
4	Cabo De Rama Nuvem	9	4	0	0	13
5	Canacona Lower Colomb	12	0	0	0	12
6	Canacona Mangam Panep	26	0	2	0	28
7	Canacona Polem	103	0	5	2	110
8	Canacona Upper Colomb	43	0	2	0	45
9	Canacona(Kinalebag)	86	0	5	0	91
10	Canacona(Patnem)	14	0	0	1	15
11	Galshibag	6	0	0	0	6
12	Metvem Khola	11	0	0	0	11
13	Polem	1	0	0	0	1

TABLE 22. Contd.

Sl No.	Name of the Village	Marketing of fish	Making/ Repairing Net	Labourer	Others	Total
14	Talpona	21	0	0	0	21
TALUK : MARMAGOA						
15	Baina(Vasco)	78	0	0	0	78
16	Bogmalo	16	0	0	0	16
17	Vasco-Da-Gama	42	0	0	0	42
18	Velsao	61	0	0	0	61
TALUK : QUEPEM						
19	Betul	39	0	0	0	39
TALUK : SALCETE						
20	Ambelim	0	0	0	0	0
21	Baradi(Betul)	98	0	0	0	98
22	Benaulim	102	0	0	0	102
23	Cavelossim	7	0	0	1	8
24	Colva	75	0	0	0	75
25	Cutbona	4	0	0	0	4

TABLE 22. Contd.

SI No.	Name of the Village	Marketing of fish	Making/ Repairing Net	Labourer	Others	Total
26	Varca	11	0	0	0	11
SOUTH GOA TOTAL		1,005	4	14	4	1,027
DISTRICT : NORTH GOA						
TALUK : BARDEZ						
1	Baga	23	0	0	0	23
2	Calangute	42	0	0	0	42
3	Chapora	25	0	0	0	25
4	Nerul	41	0	0	0	41
TALUK : PERNEM						
5	Harmal	80	0	0	5	85
6	Mandrem	14	0	0	0	14
7	Morjim	36	0	0	1	37
8	Querim	25	0	0	0	25
TALUK : TISWADI						
9	Agacaim	25	0	0	0	25

TABLE 22. Contd.

SI No.	Name of the Village	Marketing of fish	Making/ Repairing Net	Labourer	Others	Total
10	Caranzalem	17	0	0	1	18
11	Dona Paula(Maaria)	38	0	0	2	40
12	Nauxi	17	0	0	0	17
13	Shiridona	81	0	0	1	82
NORTH GOA TOTAL		464	0	0	10	474
GRAND TOTAL		1,469	4	14	14	1,501

TABLE 23. OCCUPATIONAL STATUS AND MEMBERSHIP IN CO-OPERATIVES

Sl No.	Name of the Village	Occupational Status				No. of members in	
		Fishing	Allied Activities		Other than fishing	Fisheries co-operatives	Other co-operatives
			Men	Women			
DISTRICT : SOUTH GOA							
TALUK : CANACONA							
1	Agonda	54	81	42	123	0	1
2	Agonda(Parve)	34	53	23	76	8	0
3	Agonda(Saleri)	131	257	75	332	13	1
4	Cabo De Rama Nuvem	23	13	13	26	0	0
5	Canacona Lower Colomb	19	35	12	47	4	0
6	Canacona Mangam Panep	46	61	28	89	6	1
7	Canacona Polem	141	293	110	403	7	0
8	Canacona Upper Colomb	68	120	45	165	4	0
9	Canacona(Kinalebag)	128	331	91	422	13	1
10	Canacona(Patnem)	21	59	15	74	2	0
11	Galshibag	3	10	6	16	0	0
12	Metvem Khola	25	28	11	39	0	0

TABLE 23. Contd.

SI No.	Name of the Village	Occupational Status				No. of members in		
		Fishing	Allied Activities		Other than fishing	Fisheries co-operatives	Other co-operatives	
			Men	Women				
13	Polem	3	7	1	8	7	0	0
14	Talpona	19	2	21	23	2	0	0
TALUK : MARMAGOA								
15	Baina(Vasco)	184	0	78	78	35	36	0
16	Bogmalo	28	0	16	16	6	0	0
17	Vasco-Da-Gama	62	1	42	43	11	29	1
18	Velsao	121	1	61	62	21	0	0
TALUK : QUEPEM								
19	Betul	55	7	39	46	30	11	0
TALUK : SALCETE								
20	Ambelim	24	0	0	0	9	17	0
21	Baradi(Betul)	154	6	98	104	29	52	1
22	Benaolim	149	0	102	102	74	28	2
23	Cavellossim	30	0	8	8	8	16	0

TABLE 23. Contd.

Sl No.	Name of the Village	Occupational Status				No. of members in		
		Fishing	Allied Activities		Other than fishing	Fisheries co-operatives	Other co-operatives	
			Men	Women				
24	Colva	125	4	75	79	71	1	
25	Cutbona	7	0	4	4	7	0	
26	Varca	19	0	11	11	5	0	
SOUTH GOA TOTAL		1,673	1,369	1,027	2,396	280	9	
DISTRICT : NORTH GOA								
TALUK : BARDEZ								
1	Baga	21	0	23	23	3	0	
2	Calangute	50	0	42	42	3	0	
3	Chapora	118	19	25	44	25	1	
4	Nerul	92	0	41	41	2	0	
TALUK : PERNEM								
5	Harmal	126	19	85	104	0	4	
6	Mandrem	24	1	14	15	0	0	
7	Morjim	58	14	37	51	0	0	

TABLE 23. Contd.

SI No.	Name of the Village	Occupational Status					No. of members in	
		Fishing	Allied Activities		Other than fishing	Fisheries co-operatives	Other co-operatives	
			Men	Women				Total
8	Querim	37	9	25	34	9	20	0
TALUK : TISWADI								
9	Agacaim	44	420	25	445	2	6	0
10	Caranzalem	30	10	18	28	4	0	0
11	Dona Paula(Maaria)	55	12	40	52	33	0	0
12	Nauxi	45	1	17	18	14	0	0
13	Shiridona	142	7	82	89	41	16	0
NORTH GOA TOTAL		842	512	474	986	154	75	5
GRAND TOTAL		2,515	1,881	1,501	3,382	502	355	14

TABLE 24. RELIGION (NO. OF FAMILIES)

Sl No.	Name of the Village	Religion			Total Households
		Hinduism	Islam	Christianity	
DISTRICT : SOUTH GOA					
TALUK : CANACONA					
1	Agonda	59	0	0	59
2	Agonda(Parve)	37	0	0	37
3	Agonda(Saleri)	132	0	0	132
4	Cabo De Rama Nuvem	21	0	4	25
5	Canacona Lower Colomb	25	0	0	25
6	Canacona Mangam Panep	45	0	0	45
7	Canacona Polem	146	0	0	146
8	Canacona Upper Colomb	70	0	0	70
9	Canacona(Kinalebag)	129	0	0	129
10	Canacona(Patnem)	21	0	0	21
11	Galshibag	16	0	0	16
12	Metvem Khola	25	0	0	25
13	Polem	9	0	0	9

TABLE 24. Contd.

Sl No.	Name of the Village	Religion			Total Households
		Hinduism	Islam	Christianity	
14	Talpona	22	0	0	22
TALUK : MARMAGOA					
15	Baina(Vasco)	38	22	35	95
16	Bogmalo	0	0	18	18
17	Vasco-Da-Gama	0	0	35	35
18	Velsao	0	0	60	60
TALUK : QUEPEM					
19	Betul	55	0	0	55
TALUK : SALCETE					
20	Ambelim	0	0	17	17
21	Baradi(Betul)	118	0	0	118
22	Benaulim	0	0	111	111
23	Cavelossim	3	0	18	21
24	Colva	1	0	74	75
25	Cutbona	0	0	7	7

TABLE 24. Contd.

SI No.	Name of the Village	Religion			Total Households
		Hinduism	Islam	Christianity	
14	Talpona	22	0	0	22
26	Varca	0	0	13	13
SOUTH GOA TOTAL		972	22	392	1,386
DISTRICT : NORTH GOA					
TALUK : BARDEZ					
1	Baga	0	0	18	18
2	Calangute	0	0	33	33
3	Chapora	71	0	0	71
4	Nerul	24	0	35	59
TALUK : PERNEM					
5	Harmal	34	0	54	88
6	Mandrem	1	0	15	16
7	Morjim	33	0	6	39
8	Querim	43	0	0	43

TABLE 24. Contd.

SI No.	Name of the Village	Religion			Total Households
		Hinduism	Islam	Christianity	
14	Talpona	22	0	0	22
TALUK : TISWADI					
9	Agacaim	0	0	26	26
10	Caranzalem	2	0	18	20
11	Dona Paula(Maaria)	1	0	50	51
12	Nauxi	17	0	0	17
13	Shiridona	11	0	85	96
NORTH GOA TOTAL		237	0	340	577
GRAND TOTAL		1,209	22	732	1,963

TABLE 25. CRAFT OWNED BY FISHERFOLK

SI No.	Name of the Village	Mechanized	Motorized	Non-motorized	Total
DISTRICT : SOUTH GOA					
TALUK : CANACONA					
1	Agonda	0	5	19	24
2	Agonda(Parve)	0	3	8	11
3	Agonda(Saleri)	0	16	28	44
4	Cabo De Rama Nuvem	1	5	7	13
5	Canacona Lower Colomb	0	0	7	7
6	Canacona Mangam Panep	1	0	13	14
7	Canacona Polem	0	22	47	69
8	Canacona Upper Colomb	1	12	22	35
9	Canacona(Kinalebag)	1	3	37	41
10	Canacona(Patnem)	0	1	5	6
11	Galshibag	2	0	3	5
12	Metvem Khola	0	4	14	18
13	Polem	0	1	1	2

TABLE 25. Contd.

SI No.	Name of the Village	Mechanized	Motorized	Non-motorized	Total
14	Talpona	12	0	9	21
TALUK : MARMAGOA					
15	Baina(Vasco)	13	120	24	157
16	Bogmalo	0	23	1	24
17	Vasco-Da-Gama	38	39	1	78
18	Velsao	0	174	32	206
TALUK : QUEPEM					
19	Betul	11	19	22	52
TALUK : SALCETE					
20	Ambelim	24	0	0	24
21	Baradi(Betul)	58	4	48	110
22	Benaulim	48	14	3	65
23	Cavellossim	5	0	6	11
24	Colva	84	4	61	149
25	Cutbona	8	0	0	8

TABLE 25. Contd.

SI No.	Name of the Village	Mechanized	Motorized	Non-motorized	Total
26	Varca	20	2	12	34
SOUTH GOA TOTAL		327	471	430	1,228
DISTRICT : NORTH GOA					
TALUK : BARDEZ					
1	Baga	0	19	0	19
2	Calangute	1	74	2	77
3	Chapora	34	1	11	46
4	Nerul	4	78	15	97
TALUK : PERNEM					
5	Harmal	0	40	2	42
6	Mandrem	0	11	1	12
7	Morjim	0	55	4	59
8	Querim	0	0	10	10
TALUK : TISWADI					
9	Agacaim	3	10	1	14

TABLE 25. Contd.

SI No.	Name of the Village	Mechanized	Motorized	Non-motorized	Total
10	Caranzalem	0	18	13	31
11	Dona Paula(Maaria)	1	67	9	77
12	Nauxi	0	20	2	22
13	Shiridona	19	65	13	97
NORTH GOA TOTAL		62	458	83	603
GRAND TOTAL		389	929	513	1,831

TABLE 26. FISHING GEARS OWNED BY FISHERFOLK

SI No.	Name of the Village	TrawlInet	Gillnet (pieces)	Seine nets	Drift nets	Others
DISTRICT : SOUTH GOA						
TALUK : CANACONA						
1	Agonda	0	836	7	3	0
2	Agonda(Parve)	0	123	3	0	5
3	Agonda(Saleri)	0	449	6	0	47
4	Cabo De Rama Nuvem	0	148	4	0	0
5	Canacona Lower Colomb	0	32	6	0	0
6	Canacona Mangam Panep	4	240	2	0	6
7	Canacona Polem	0	232	25	3	0
8	Canacona Upper Colomb	3	421	8	2	0
9	Canacona(Kinalebag)	5	358	14	1	31
10	Canacona(Patnem)	0	36	3	0	0
11	Galshibag	1	25	0	0	0
12	Metvem Khola	0	224	2	0	3
13	Polem	0	78	0	0	0

TABLE 26. Contd.

SI No.	Name of the Village	Trawl net	Gillnet (pieces)	Seine nets	Drift nets	Others
14	Talpona	7	205	0	0	0
TALUK : MARMAGOA						
15	Baina(Vasco)	47	1,500	61	0	94
16	Bogmalo	0	215	2	0	17
17	Vasco-Da-Gama	144	766	37	0	30
18	Velsao	0	804	83	0	69
TALUK : QUEPEM						
19	Betul	19	136	6	1	15
TALUK : SALCETE						
20	Ambelim	33	0	26	0	2
21	Baradi(Betul)	143	289	6	0	65
22	Benaulim	93	869	37	0	0
23	Cavelossim	26	50	7	0	2
24	Colva	526	1,356	79	0	0
25	Cutbona	6	0	14	0	0

TABLE 26. Contd.

SI No.	Name of the Village	Trawl net	Gillnet (pieces)	Seine nets	Drift nets	Others
26	Varca	0	147	12	0	0
SOUTH GOA TOTAL		1,057	9,539	450	10	386
DISTRICT : NORTH GOA						
TALUK : BARDEZ						
1	Baga	0	2,206	70	19	0
2	Calangute	2	4,011	78	34	0
3	Chapora	156	14	0	0	37
4	Nerul	0	6,516	91	34	0
TALUK : PERNEM						
5	Harmal	0	380	6	0	111
6	Mandrem	0	98	7	0	33
7	Morjim	0	715	31	2	27
8	Querim	0	119	0	0	39
TALUK : TISWADI						
9	Agacaim	0	29	6	45	1

TABLE 26. Contd.

Sl No.	Name of the Village	Trawl/net	Gillnet (pieces)	Seine nets	Drift nets	Others
10	Caranzalem	0	193	9	0	1
11	Dona Paula(Maaria)	8	947	2	0	24
12	Nauxi	0	514	0	0	17
13	Shiridona	115	1,067	19	0	61
NORTH GOA TOTAL		281	16,809	319	134	351
GRAND TOTAL		1,338	26,348	769	144	737

**LIST OF
MARINE FISHERIES CENSUS
VILLAGES**

Marine Fisheries Census 2005

DISTRICT : SOUTH GOA

TALUK : CANACONA

- 1 Agonda
- 2 Agonda(Parve)
- 3 Agonda(Saleri)
- 4 Cabo De Rama Nuvem
- 5 Canacona Lower Colomb
- 6 Canacona Mangam Panep
- 7 Canacona Polem
- 8 Canacona Upper Colomb
- 9 Canacona(Kinalebag)
- 10 Canacona(Patnem)
- 11 Galgibag
- 12 Metvem Khola
- 13 Polem
- 14 Talpona

TALUK : MARMAGOA

- 15 Baina(Vasco)
- 16 Bogmalo
- 17 Vasco-Da-Gama
- 18 Velsao

TALUK : QUEPEM

- 19 Betul

TALUK : SALCETE

- 20 Ambelim
- 21 Baradi(Betul)
- 22 Benaullim
- 23 Cavelossim
- 24 Colva
- 25 Cutbona
- 26 Varca

DISTRICT : NORTH GOA

TALUK : BARDEZ

- 1 Baga
- 2 Calangute
- 3 Chapora
- 4 Nerul

TALUK : PERNEM

- 5 Harmal
- 6 Mandrem
- 7 Morgim
- 8 Querim

TALUK : TISWADI

- 9 Agassim
- 10 Caranzalem
- 11 Dona Paula(Maaria)
- 12 Nauxi
- 13 Shiridona

**LIST OF
LANDING CENTRES
COVERED BY CMFRI FOR
RESOURCE ASSESSMENT**

Marine Fisheries Census 2005

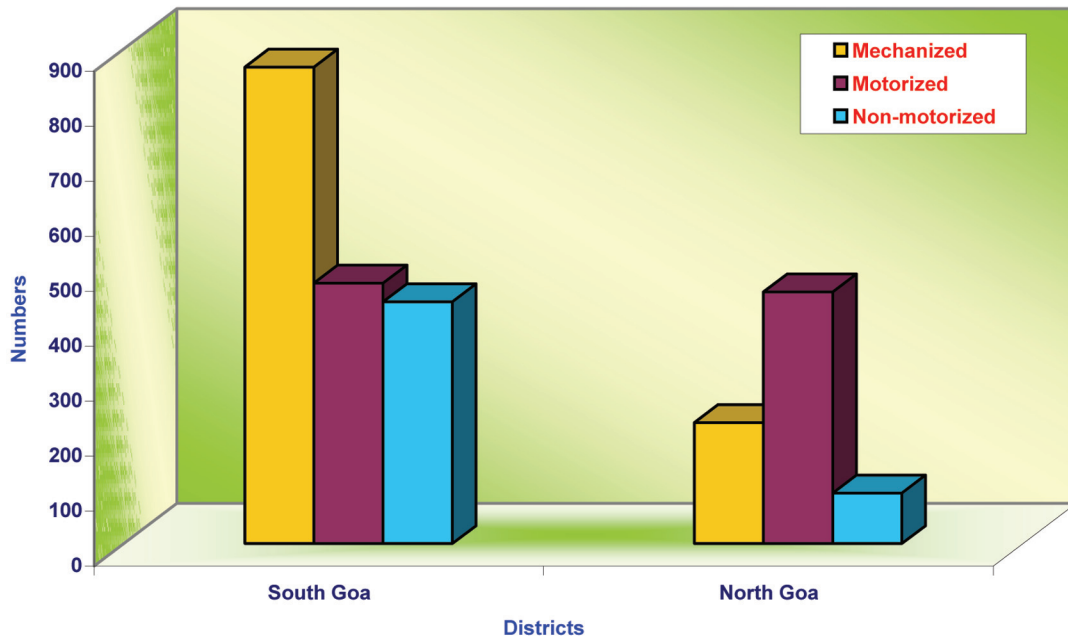
DISTRICT : SOUTH GOA

- 1 Vaso Da Gama
- 2 Cotbona
- 3 Cansaulim
- 4 Velsao
- 5 Pale
- 6 Bogmalo
- 7 Baina - Bimber
- 8 Cortalim
- 9 Talpona
- 10 Patnem / Colomb
- 11 Palolem
- 12 Agonda
- 13 Betul
- 14 Cavelossim
- 15 Orlim / Varca
- 16 Benulim
- 17 Sernabatim
- 18 Colva
- 19 Betalbatim
- 20 Mojorda
- 21 Utorda

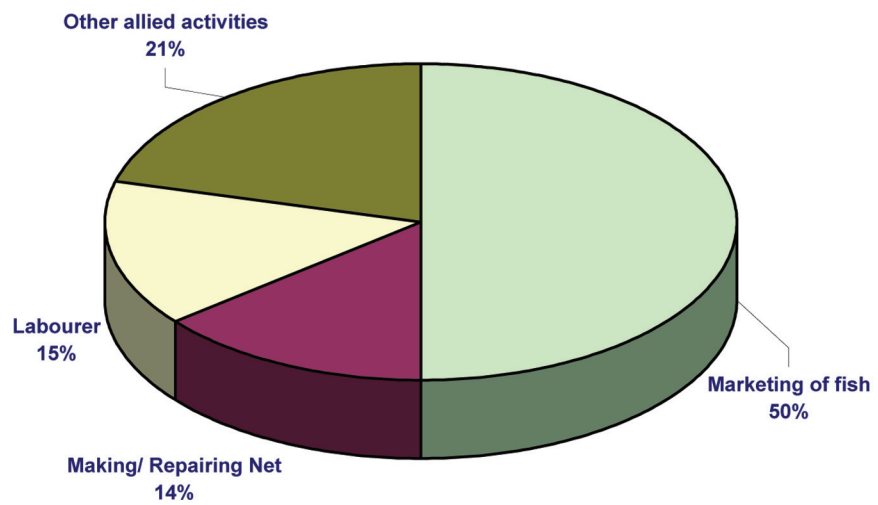
DISTRICT : NORTH GOA

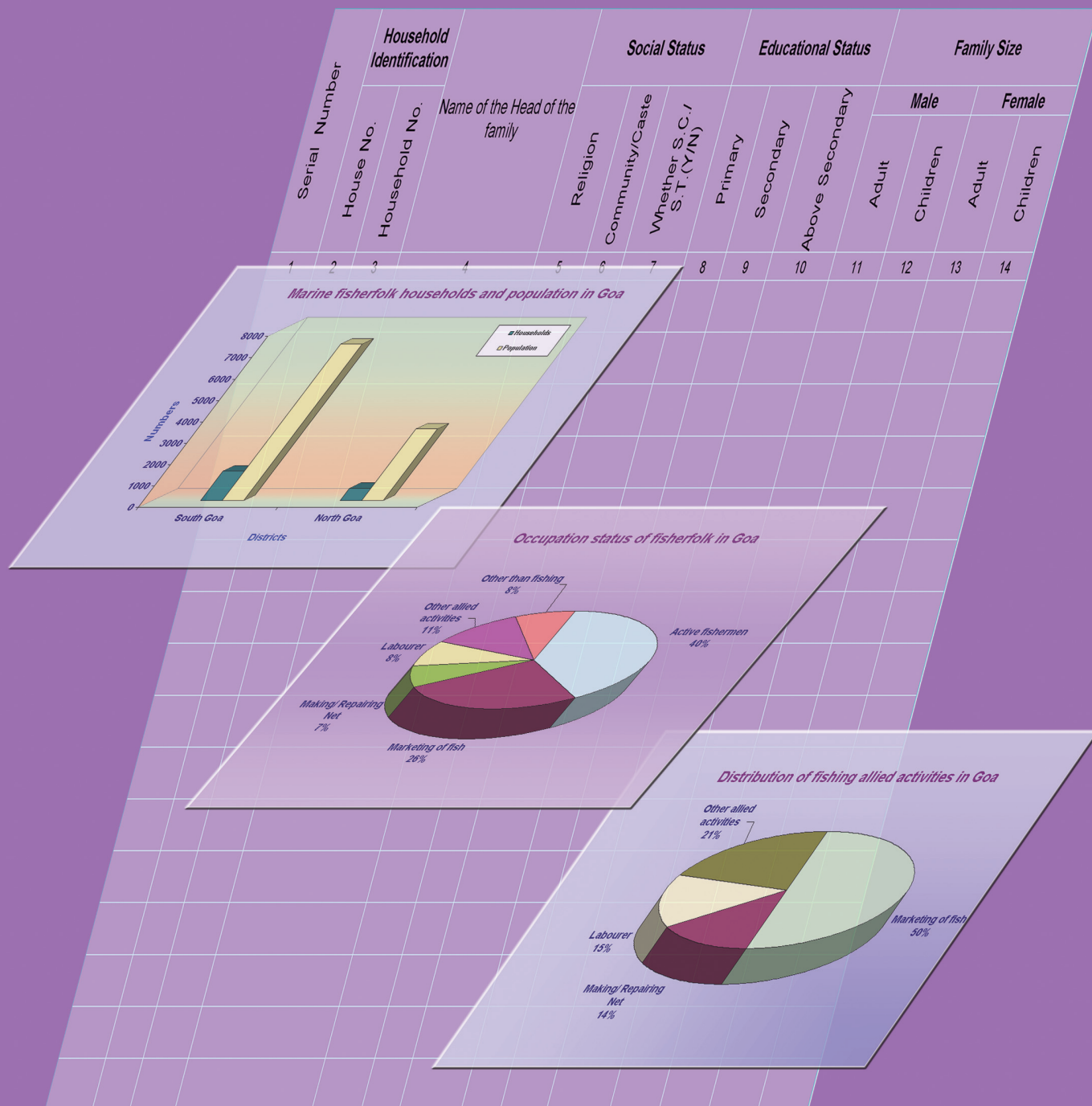
- 1 Malim (Panaji)
- 2 Chapora
- 3 Shiridona
- 4 Dona Paula I
- 5 Dona Paula II
- 6 Caranzalem
- 7 Nerul
- 8 Candolim
- 9 Calangute
- 10 Baga
- 11 Morjim
- 12 Manderem
- 13 Harmal

FISHING CRAFT IN THE FISHERY



DISTRIBUTION OF FISHING ALLIED ACTIVITIES





Government of India
Ministry of Agriculture
Department of Animal Husbandry, Dairying & Fisheries,
Krishi Bhavan, New Delhi



Central Marine Fisheries Research Institute, Cochin
(Indian Council of Agricultural Research, New Delhi)