

ANDAMAN AND NICOBAR ADMINISTRATION

DRAFT

THIRD FIVE YEAR PLAN 1961-66

338.954 A 2 # A 543 D

(VOLUME I)

APPRAISAL OF THE FIRST AND SECOND FIVE YEAR PLANS THE THIRD PLAN OUTLAY AND ALLOCATIONS AGRICULTURE AND COMMUNITY DEVELOPMENT

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APPRAISAL OF THE FIRST FIVE YEAR PLAN

There was no integrated First Five Year Plan for the Andaman and Nicobar Islands. Only two schemes were taken up - the Colonisation Scheme and the Road Scheme.

<u>Colonisation Scheme</u>: - The colonisation scheme was approved by the Cabinet in January 1952. The scheme envisages clearance of 20,000 acres of forest land for settlement of 4,000 agriculturist families from the mainland. Due to various handicaps, field operations could only be started in April 1953. By the end of the First Plan period, an area of 8,100 acres was cleared and 1,006 families were settled on land. Necessary ancillary services like dispensaries and primary schools were provided in the newly settled areas. The expenditure incurred on the implementation of the scheme during the First Plan period amounted to Rs.68.032 lakhs.

<u>Road Scheme</u>: In the First Five Year Plan, the construction of about 83 miles of new roads was approved, of which 49 miles were surveyed and work was in progress on $2\frac{1}{2}$ miles of road. The actual expenditure incurred on construction of new roads was about Rs.1.1akh as against the Plan provision of Rs.60 lakhs. In addition, an expenditure of Rs.16.44 lakhs was incurred on improvements to existing roads in South Andaman.

APPRAISAL AND PROSPECTS OF THE SECOND FIVE YEAR PLAN

The Second Five Year Wlan of these Islands entailed an outlay of Rs.603.135 lakms as per details given below:-

	(Rs,	in lakhs)
2. 3. 4. 5.	Agriculture and Community Development. Power Industries Transport and Communications, Social Services Miscellaneous	$263.610 \\ 2.500 \\ 7.000 \\ 240.000 \\ 86.620 \\ 3.405$
	Potol.	603.135

In addition to the above outlay, the Ministry of Transport and Communications, Department of Transport (Transport Wing) vide their letter No.9-PD-III(1)/58 dated 9.8.1958, sanctioned schemes estimated to cost Rs. 42.48 lakhs for the development of minor ports in the Andaman and Nicobar Islands.

Progress of expenditure: - The actual expenditure incurred during 1956-57, 1957-58, 1958-59 and 1959-60 amounted to Rs.25.738 lakhs, Rs.67.241 lakhs, Rs.70.000 lakns and Rs.105.754 lakhs respectively. The amticipated expenditure in 1960-61 which is the last year of the Plan is Rs.130.423 lakhs. On this basis, the expenditure during the Plan period works out to Rs.399.156 lakhs as against the total Plan outlay of Rs.645.615 lakhs, leaving a shortfall of Rs.246.459 lakhs at the end of the Plan. The fulfilment off the Plan in terms of outlay is to the extent of 61.8 percent. The table given below indicates the yearwise progress of expenditure under the various sectors.

(Rs. in lakhs)

S.No.	Name of Sector	(provi-	Progre	during	2	X	Likely expendi	
	Ő Ø	Sion.	1956-57	057-580 0	58 - 5908	59 - 60	ture during 60 - 61	≬Tot §56-
1	2	13	4	1 5	60	7	8	0
l.	Agriculture and Community Develo- ment:	<u>p</u> –						
b) c)	Agricultural Production. Land Development Minor Irrigation Land re-settleme:	6.500	-	1.392 0.004 (- (3.282 0.122 -	5.036 0.150 -	11.7 0.8 0.0
·	and colonisation Animal Husbandry	130.000 3.800			21.150 0.286	21.226 0.762	27.947 1.701	101.6
g) h) i)	Supply. Forests. Cooperation. Fisheries. Community Develo ment and N.E.S.	5.000 80.000 0.750 1.750	0.136 0.100	0.045 1.973 0.020 0.264	2.162 -	3.530 0.610	4.200 0.079	0.1 12.(0.1 2.(
	Programme.	10.210		0.719	2.041	4.990	6.278	14.
2.	Power.	2.500	_	0.399	0.007	-	0.350	0•'
з.	Industries.	7.000	-	-	0.360	0.891	2.768	4_{\bullet}
4.	<u>Transport</u> and Communications:							
a) b) c)	Roads Road Transport. Shipping	85.000 1.000 154.000	-	-	-	19.442 0.780 34.007		84. 1. 99.
5.	Social Services:			•				
a) b) c) d)	Education Health. Housing. Welfare of	27.400 25.300 22,920	0.164	0.528	l.430	2.837		13. 11. 28.
	Backward Classes Social		-	τ;	0.083	0.155		1.
	Welfare Services	• -	•,	- mat	-	-	0.096	0.
	iscellaneous:			0 00-				
b)	Languages Town Planning Publicity	0.805 2.000 0.600	· 🗕	0.065	-	· · · -	_	0.
ď)	Development of Minor Ports. Total.				•		5.380 130.423	

The progress of expenditure was poor during 1956-57 and slow during 1957-58 and 1958-59. It was stepped up considerably in the fourth year, 1959-60 and is sought to be further accelerated in the last year of the Plan period.

The causes for heavy short-fall in expenditure, particularly in the initial years of the Plan have been examined.

Paucity of Administrative and Technical personnel:

Lack of experience due to the absence of an integrated First Five Year Plan in these Islands placed an enormous strain on the Administration and everything had to be started from scratch. The draft Second Five Year Plan was revised and finalized in August 1956. The next stage was to set up an effective machinery to implement the Plan. Even for maintaining the normal services, the Administration has been experiencing considerable difficulty in finding the required personnel. The Public Works Department was called upon to execute construction works and road programmes costing R.185 lakhs. There was only one Division of the Public Works Department meant for maintenance and normal routine works functioning. in this territory which could not have made any perceptible contribution to the progress of Plan works. There were then other departments viz., Agriculture, Education and Medical which required strengthening with additional staff for which provision had been made in the various schemes. It took lot of time to secure sanctions to the creation of various posts and to recruit the personnel. Full complement of staff for some of the schemes have still not been found inspite of the fact that posts have been advertised time and again in the newspapers on the mainland. The unutilised portion of the provision for salaries of staff due to their late appointment or non-availability, is the most important single factor for shortfall in expenditure.

Foreign exchange difficulties: The plan-provided R.45,000 lakhs for the purchase of one-small ship, and three motor launches, and N.40.440 lakhs for the purchase of equipment for forestry schemes. The entire provision of R.45.000 lakhs remains unutilised owing to the non-availability of vessels within the country and tight position of foreign exchange which ruled out the possibility of their procurement from foreign markets. Out of the provision of R.40.440 lakhs for the purchase of equipment for forestry schemes, only a sum of R.1.495 lakhs could be utilised up to the end of 1959-60.

<u>Transport difficulties</u>: - The difficulties experienced in the novement of men and materials from one island to another owing to inadequate means of inter-island communication have impeded the progress of works to a considerable extent.

Shortage of equipment and key materials: - / The progress of road and building construction works could not keep pace with anticipations owing to shortage of equipment and key materials like iron, steel, and cement.

Want of suitable Public Works Department Contractorss-

The progress of buildings and other construction works which involved an outlay of about R.185 Lakhs continued to suffer as Contractors with adequate financial means were not available and the capacity of the local Public Works Department to execute the works departmentally was extremely limited.

Shortage of land for settlement of families under the colonisation scheme*

The progress of the colonisation scheme could not keep pace with anticipations as all earlier estimates of availability of land, which could be allotted to settlers, after clearance, have been found highly ambitious and misleading, and land actually available fell short of our requirements.

Late finalisation of certain schemes: - ZTMA progress has also lagged behind schedule because of the late initiation of the schemes pertaining to Minor Port Development, and Cottage and Small Scale-Industries. The cumulative effect of all these handicaps is reflected in shortfalls of financial and physical targets.

<u>Remedial measures taken</u>:- The Administration has been making strenuous efforts to overcome these difficulties and to accelerate the tempo of development works. This is amply reflected in the higher level of expenditure during the year 1959-60 as compared with the expenditure pattern in the previous years. The Public Works Department has been strengthened. There are now four Divisions of the Public Works Department functioning in this territory, the fourth Division having been set up in July 1960. A Circle Office headed by the Principal Engineer has been opened. Another two Divisions of the Public Works Department have been sanctioned, and are expected to start functioning before the end of 1960-61. Most of the administrative and technical personnel required for other departments have been found. The Director of Agriculture is being appointed. Efforts are continuing to overcome the remaining handicaps. The Chief Commissioner has been delegated enhanced powers to sanction on the eve of the Third Plan is distinctly better than it was on the commencement of the Second Five Year Plan, and one thing that can be safely said here is that a favourable climate has been created which encourages the hope that the tempo of development programmes ahead will be accelerated.

The concrete programmes of development undertaken and an assessment of likely achievements by the end of the Second Plan have been reviewed separately in detail on the opening pages under each head of development.

THE THIAD PLAN OUTLAY AND ALLOCATIONS

The Third Five Year Plan covers the period 1961-66 and involves an outlay of No.1148.003 lakhs. The following table indicates the distribution of Plan outlay over the various heads of development in the Second and Third Plans:-

Å.		<u>Year Plan</u> Percenta-		Year Plan Percen-
	(Total) (Outlay)	ge of	V Jotar J V Outlay	tage of
S.X	(Is. in)	total	propo-	total
Nol Head of Development	(lakhs) (outlay.	1 sed	outlay
1	Í Í		(Fs. in	proposed.
1 2		4	(lakhs) (5	6
A. A	<u>x</u> x		A	<u> </u>
1. Agriculture and Community Ievelopment:				
(a) Agricultural Production	20,000	3,09	61,855	5.31
(b) Land Development	5.600	0.87	11.764	1.03
(e Minor Irrigation	6,500	1.01		-
(d) Land re-settlement and colonisation	130.000	20.14	110.350	9.61
(e) Animal Husbandry	3,800	0.59	7.922	0.69
(f) Dairying & Milk Supply	5.000	0.77		-
(g) Forests	80.000	12.39	58.144	5.15
(h) Cooperation	0.750 1.750	0.12 0.27	1.474 14.032	0.12
(i) Fisheries (j) Community Development and		0.41	14°037	1.22
N. E.S. Programme	10.210	1.58	25.020	2.18
Total Agriculture and Communation Development	203.610	40.83	290.561	25.31
2. <u>Irrigation & Power</u> :				
(a) Irrigation (b) Power			- 15.300	- 1 04
	2.500	0.39		1.34
Totil Irrigation & Power	2.500	0.39	15.300	1.34
3. Industries:				
Cottage and Small Scale Industries and handicraft	- 7 000	· 1 00	16 070	1 A17
	فيها المتدريع الجياب كالم ويعمرونها	1.08	16.870	1.47
Total Industries	7.000	1.08	16.870	1.47
4. <u>Pransport & Communications</u> :				
(a) Roads	85.000	13.17	263.160	22.92
(b) Road Pransport	1.000	0.16	17.162	1.49
(c) Shipping (d) Tourism	154.000	23.85	216,000 3.087	18.82 0.27
(e) Nimor Ports Development	42,480	6,58	65.717	5.73
Totil Transport & Communication	s 282.480	43,76	565,126	49.23
		•		
5. <u>Jocial Services</u> :				
(a) Education	27.400	2.24	74.158	6.46
(b) Public Health & Medical including water supply	25,300	3,92	76.324	6.65
and sanitation				
(c) Housing	32,920	5.10	75.45 7	6.57

1	<u>2</u> <u>1</u>	3 I	4 1	5	6
(d) (e) (f)	Welfare of Backward Classes Labour and Labour Welfare Social Welfare	1,000	0,16	6.788 1.681 1.248	0.59 0.15 0.10
Τe	otal Social Services	86,620	13.42	235,656	20.52
6. <u>M</u> (a) (b) (c) (d)	<u>iscellaneous</u> : Statistics Publicity Others Local Bodies Total Miscellaneous	0.600 2.805 	0.09 0.43	0.408 3.329 10.395 10.358 24.490	0.04 0.29 0.90 0.90 2.13
	Grand Total	645.615		1148.003	and a second
		ي مرياب المستعمل من من عمل المثلثات : يوالد المريات المريات المري محمد بالمنابع المريات - المنابع - مريا مع مريات المثلث المريات الم		، بر والک بی است. ۲۰ پی است کا است کا است کا است کا است کا ایک ایک کار ای ۲۰ پی ایک کار ا	

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<u>Priorities</u>

The general pattern of investment in the Second Plan is being continued in the Third Plan. The allocations under major heads of development shown above indicate the pattern of priorities in the Plan. Transport and Communications receive the highest priority. This, of course, is natural because of the urgent need for removal of the bottleneck of slow and infrequent communications with the mainland, development of inter-island communications, and providing means of access to the newly opened colonisation areas, which are pre-requisites of progress. The next highest priority accorded in the Plan is to the development of agriculture and allied subjects, because of the need for achieving self-sufficiency in foodgrains, exploitation of timber wealth, and securing a substantial increase in the population of tiese Islands which are sparsely populated. There is a considerable emphasis on the development of power and village and small scale industries. Education, Fublic Health and other programmes of social development which are of the highest importance for building up the human resources have been given a fairly high priority in the pattern of investment. The Plan has been drawn up in response to particular needs of this territory consisting of as many as 223 islands, which is partly underdeveloped, and partly untouched with a view to enabling it to come up to the level of the rest of the country as quickly as possible.

The broad outlines of the development programmes envisaged under the Third Five Year Plan are given on the pages preceding the detailed schemes under each sector.

<u>Foreign Exchange Requirements</u>. The foreign exchange component of the development programmes in the Third Five Year Plan required for the procurement of machinery, equipment etc. from broad according to the present indications is No.288.890 lakhs as per details given below:-

<u>s.No</u> .	Sector	Foreign Exchange <u>(Es. in lakhs)</u>
2. 3. 4. 5.	Agriculture & Community Development Power Industries Transport & Communications Social Services Miscellaneous	32,850 4.000 0.080 251,960
	Total	288.890

The demand is flexible, and the commitment in regard to the forei; gn exchange expenditure will be made only if the required machinery, equipment etc. are not available within the country in the foreseeable future.

(vii)

STATEMENT SHOWING PHASING OF PROPOSED OUTLAY ON SCHEMES INCLUDED IN THE DRAFT THIRD FIVE YEAR PLAN, ANDAMAN & NICOBAR ISLANDS.

(Rs. in lakhs)

	1	Proposed		··	(10.	TH TOWND	
S.No		Outlay L		ng of pr			
-9	2.	<u>1961–66 j</u>	<u> 1961-62Į1</u>	<u>962-6311</u>	963-64)	1964-6511	<u>965-66</u> 8•
			<u>}</u>				
I.	<u>AGRICULTURE AND</u> <u>COMMUNITY DEVE</u> <u>LOPMENT</u> :						
(a)	<u>Agricultural Pro-</u> <u>duction</u> :						
l.	Strengthe ning the Agricultural De- partment	13.340	8 .097	1.594	1,172	1.186	1.25
2.	Training of per- sonnel for staffin the Agricultural Department	lg 1.396	0.294	0.208	0.262	0.316	0.31(
3.	Multiplication and Distribution of Improved geeds	2.211	0.679	0.477	0.481	0.285	0.28
4.	Supply of implements, seeds and manuto cultivators		0.463	0.463	0.463	0.463	0.46
5.	Scheme for demons- tration of intensi cultivation of agr cultural crops	ve	0.243	0.246	0.236	0.238	0.24
6.	Scheme for Plant Protection in the Andaman and Nicoba Islands	1.250 ar	0.370	0.220	0.220	0.220	0,22
7.	Rehabilitation of coconut plantation in Andamans	ns 13.211	2.464	3,009	2.664	2.788	2.2
8.	Development of coo nut plantations in the Nicobars	co- n 5.080	1,426	0,906	0.910	0.917	0.9:
9.	Scheme for the establishment of Coconut Nurseries for the Andaman an Nicobar Islands	2.802	0.760	0.505	0.509	0.512	0.5
10.	Deputing selected Nicobarese to the mainland for a str tour of the Cocon Stations and Plan tions on the West Coast	ut 0.525	0.105	0.105	0.105	0.105	0.1
11.	Scheme for the es blishment of Prog Orchard-cum-Nurse	eny 3.292	1.223	0.510	0.515	0.520	0.5

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11	2.	<u>1 3</u>	<u>] 4</u>	5	<u> </u>	7	1 8
12.	Scheme for Demonstra- tion of Intensive Cul- tivation of Horticul- tural Crops	- 2.470	0.495	0,498	· 0 <b>.</b> 490 /	0.492	0.495
13.	Development of Cashew- nut plantations in Andaman and Nicobar Islands		`≊0 <b>.06</b> 5	0,065	0.065	0.065	0.065
14.	Arecanut Development Scheme	0.938	0.249	0.170	0.172	0.173	0.174
15.	Development of Pine- apple cultivation and establishment of a Canning Unit	2.468	1.429	0.253	0.258	0.262	0.266
16.	Lac Cultivation in Andamans	1.251	0.338	0.360	0.248	0.151	0.154
17.	Exploratory Trials on Coffee Cultivation in Andamans	2,813	0.914	0.629	0.459	0.398	0.413
18.	Rubber Plantation in the Andaman and Nicoba Islands	.r 5.000	0.250	1.000	1.250	1,250	1.250
ota: ion	l Agricultural Produ <b>c-</b>	61.855	10.864	11.218	10.479	10.341	9,953
(ˈɔ)	Land Development:						
1.	Soil Erosion and Re- search Station at Rangat	0.536	0,107	0,107	0.10 <b>7</b>	0.107	0.108
2.	Soil Conservation in Agricultural Lands	6.245	1,885	1.224	1.046	1.045	b.045
З.	Reclamation of Saline Affected Land for Cultivation	4.983	0.391	0.878	1.386	1,130	1.198
Tota	al Land Development	11.764	2.383	2,209	2.539	2,282	2.351
(c)	Land Re-settlement and colonisation:						
-	-	110.350	21.693	21,648	21,822	22.001	23.186
	l Land Re-settlement colonisation	110.350	21.693	21.648	21.822	22.001	23,186
(d)	Animal Husbandry:						
l.	Expansion and Impro- vement of Veterinary Services.	2,056	0,846	0.374	0.423	0,206	0.207
2.	Poultry Farming Scheme	e 0.932	0.180	0.221	0.261	0.132	0.138
З,	Training of Poultry Keepers	0.035	0.00 <b>7</b>	0.007	0.007	0.007	0.007

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1	2	3	<u>14</u>	· 5 )	6 1	7	8
1.	Goat Breeding Scheme	1.399	0.376	0.259	0.254	0.255	0.255
5.	Supply of Milch Cattle	3,500	0.700	0,700	0.700	0.700	0.700
ota	al Animal Husbandry	7.922	2,109	1.561	1.645	1.300	1.307
(e)	Forests:						
¥L.	Purchase of equipment	29,000	20,400	5.400	2.400	0.400	0.400
2.	Raising of <b>I</b> ndustrial Plantation of Matchwood and Teak	12.000	2.400	2.400	2.400	2.400	2.400
З,	Forest Plantation (Minor Forests)	0.720	0.144	0.144	0.144	0.144	0.144
4.	Additional Seasoning Kiln	1.326	-	0.500	0.500	0.163	0.163
5.	Silvicultural Research and Experiments	2.475	0.605	0.605	0.455	0.405	0.405
6.	Boat Building	4.500	0.850	1,250	0.900	0.750	0.750
7.	Construction of Perman- ent Rest Houses	1,373	0.400	0.419	0.438	0.058	0.058
.8	Opening of a Training School for Foresters and Forest Guards	d 0.850	0.250	0.300	0,100	0.100	0.100
9.	Revision of Forest Working Plan	3.900	1.300	1.300	1.300	-	-
⊥O.	Cultural Operations in the Nicobar Group of Islands	2,000	0.251	0.351	0,450	0.450	0.498
	Total Forests	58.144	20.600	12.669	9.087	4.870	4.918
(f)	<u>Co-operation</u> :						
1.	Scheme to provide sub- sidy to 27 Service Co- operative Societies and two Credit Unions	0.261	0.087	0.044	0.044	0.043	0.043
2.	Scheme for training of non-official per- sonnel in the Andaman Islands	0.151	0.072	0.079	-	-	-
З.	Scheme for training of non-official personnel in cooperation in the Nicobar Islands	0.312	0.228	0.084	-	-	-
			0.150	0,150	(	-	<b></b>
4.	Construction of Godowns	0,300	0.100				
-	, Establishment of Credit Unions in Middle and		0.200	0.050	0.050	0.050	0.050
5.	, Establishment of Credit	0.400 d 0.050	0.200		0.050	0.050 0.010	0.050

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(g)	Fisheries:						
1.	Settlement of Fishe men Families	er- 2.310	0,462	0.462	0.462	0.462	0.462
2.	Training of Fi <b>s</b> her- men	0 <b>.</b> 259	0.052	0.052	0.052	0.052	0.051
З.	Mechanisation of Fishing Crafts	0.600	0.120	0.ŀ20	0.120	0.120	0.120
4.	Supply of Essen- tial Fishery Requisites	0.500	0.100	0.100	0.100	0.100	0.100
5.	Anchorage for fishing crafts	0.300	0.050	0.150	0.100	5	
6.	Cold Storage and Marketing	2 <b>.266</b>	-	0.500	1.372	0.195	0.199
7.	Shark Liver Oil and Fish Meal Factory	2.000	-	1.000	1.000		
8.	Establishment of a De-hydration Unit	1.266	-	0.945	0.105	0.107	0.109
9.	Research Acti- vities	3.697	0.397	0,955	0.903	0.812	0.630
10.	Building for the Fisheries Head- quarters	0.834	0.489	0.345		_	
	Total Fisheries	14.032	270	4,629	4.214	1,848	1.671
(h)	Community Deve- lopment Programme.						
1.	Establishment of Community Develop- ment Blocks	25.020	2.59 <b>7</b>	3,311	6.037	6.537	6.538
lopr	l Community Deve- ent and N. E.S. ramme	25.020	2.597	3.311	6.037	6.537	6.538
	.1 Agriculture Community Deve- ment	290.561	77.663	57.662	55.927	49,282	50.027
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1	Ï.	21	3	4_1	5	6 7	71	8
I		POWER: Scheme for <b>E</b> le- ctri Supply in Rural Areas	4.300	2 <b>.79</b> 2	1.413	0.095	-	
	2.	Electrification of Wimberleygunj and surrounding villages, Maya- bunder, Digli- pur, Rangat and Nancowrie	11.000	1.100	2.650	3,200	3.750	0.300
	I	Cotal Power	15,300	3.892	4.063	3.295	3,750	0.300
II.	. –	INDUSTRIES: Training-cum- production Contre in Smithy, Sheet Metalling and Electroplating	1.344	0 <b>.39</b> 6	0,356	0.210	0.189	0.193
		Wood Working (Furniture and Toy making) Unit at Port Bla <b>ir</b>	2.045	0.519	0.449	0.378	0.356	0.343
	З.	Soap Making Unit (Using edible oil) at Port Blair	0.629	0.150	1,130	0,116.	0,116	0.117
	-	Purchase of a Mobile Van (Multipurpose) for demonstra- tion of tech- niques in Work- shop practices.	1,206	-	0.540	0,240	0.217	0.209
	5.	Establishment of Cottage Industri Emporium at Port Blair	es 0,960	0.214	0.343	0.132	0.134	0.137
	6.	Training-cum-pro duction Centre in Coir	<b>-</b> 1.687	0.367	C.392	0.393	0 <b>.2</b> 65	0.270
	7.	Establishment of a Handicrafts In titute and Desig Centre at Port Blair	s- 1.523	0.100)	0.308	0.444	0.332	0.339

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<u>مىرىمى ئىلىم</u> ەت مەتتەرىمەت مەتتەرىمەت مەتتەرىمەت مەتتەرىمەت مەتتەرىمەت مەتتەرىمەت مەتتەرىمەت مەتتەرىمەت مەتتەر مەتتەرىمەت مەتتەرىمەت مەتتەرىمەت مەتتەرىمەت مەتتەرىمەت مەتتەرىمەت مەتتەرىمەت مەتتەرىمەت مەتتەرىمەت مەتتەرىمەت مە	Gfd	<u> </u>		·	<u> </u>	&l	<u> </u>
8.	Ambar Parisramalaya & Khadi Weaving Centre at Diglipur	0.826	0.237	0.297	0.ll <b>7</b>	0.088	0.087
9.	Organisation of Indus- trial Cooperatives	- 1,085	0,365	0.560	0.160	-	-
10.	Training-cum-produc- tion Centre in Black- smithy and Carpentry at Car Nicobar	1.467	0,588	0.213	0.216	0.22 <b>2</b>	0.228
11.	<b>Trai</b> ning-cum;produc- tion Centre in cane and bamboo work at Car Nicobar	0.667	0.126	0.126	0.134	0.137	0.144
12.	Women's Training Cen- tre for Tailoring and garment making at Car Nicobar	0.529	0.174	0.086	0.088	0.090	0.091
13.	State Aid to Indus- tries	2.000	0.400	0.400	0.400	0.400	0,400
14.	Strengthening of Industries Depart- ment	0.902	0,258	0.158	0.157	0.162	0.167
	Total Industries	16.870	3,894	4,258	2.185	2.708	2,725
ΓV	TRANSPORT AN D COMMU- NICATIONS:						
(a)	<u>Roads</u> :						
	Roads Scheme	250,240	39,880	50,620	54 <b>.</b> 570	54.340	50,830
2.	Purchase of tools and plants for the Public Works Depart- ment	12,920	2,240	7.040	3.640	-	
	Total Roads	263,160	42.120	57.660	58,210	54.340	50.830
(b)	Road Transport: & Touri	<u>sm</u> :					
l.	Road Transport	4.317	0.677	1.568	0,430	1.067	0.575
2.	Goods Transport	4.364	0.757	1,010	1,205	0,665	0.727
З.	Establishment of an Automobile <i>W</i> orkshop	8.481	2.003	1.945	1.600	2,694	0.239
	Development of Tourism	3.087	0.005	0.998	1.607	0.248	0.229
	Iotal Road Transport and Tourism	20,249	3.442	5.521	4.842	4.674	1.770
(c)	Shipping:						
1.	Scheme for develop- ment of communica- tion between the mainland and islands Sister ship to my Anda		- :	1.05.000	_ ``	-	-

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Ī	2	2		5	(6)	7	18
2.	Scheme for improvement of inter-island commu- nications and ferry services	94.000	39.000	40.000	15.000	-	-
З.	Purchase of touring Vessels	17.000					
	Total Shipping	216.000	49.000	152,000	15,000	<del>بر</del> مرجعة معروب من مرجع	<b></b>
(d)	<u>Development of Minor</u> <u>Ports:</u>						
1.	Development of Minor Ports in Andaman & Nicobar Islands	65.717	11.167	13.140	14.110	14.870	12.430
Tota Port	al Development of Minor ts	65.717	11.137	13.140	14,110	14.870	12,430
Tota cati	al Transport & Communi-	565,126	105.729	228,321	92 <b>.</b> 162	73.883	65.030
V. <u>S</u>	OCIAL SERVICES:						
A.,	EDUCATION:						
1.	Scheme of Universal Free and Compulsory Primary Education	5,903	0.874	1,124	1:144	1,334	1.327
2.	Extension of facili- ties for Elementary Education (Middle Stage).	5.,746	0,542	1,213	1,263	1.331	1.397
З.	Expansion of facili- ties for Secondary Education	то <b>-</b> 708	2,171.	1, 205	2.481	2,088	2.163
4.	Incentives for pro- motion of female education	1.275	0.173	(,231	0.288	0,290	0.291
5.	Higher Education (Stipends)	2.500	0.400	0.450	0.500	0.550	0.600
6.	Mid-day meals for school children	1.163	0.218	0.207	0226	0.246	0.266
7.	Re-organisation of the Junior Basic Teachers' Training School	1.085	0.292	0,190	0,197	0.201	0.205
8.	Strengthening of Trade School	0.904	0.200	0,198	(*,179	0,172	0.155
9.	Social Education	0.700	0,1?8	0,132	0.132	0.132	0.132
10.	Youth Welfare Pro- gramme (Students' Tours	) 0.347	0.069	0.069	069	0.070	0.070
11.	Seminars and Education Weeks	0.020	0.016	0.016	0.016	0.016	0.016

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12	Vocational Train- ing for girls and Adult Women	0,5233	0.085	),105	0,109	0.112	0.114
13	Establishment of a District Li- brary	1,28?"	1 <b>w</b>		0,381	0.451	0.455
14	Development of National Language Hindi	- 2,1211	0 <b>.5</b> 48	0.464	0.391	0.363	0.355
15	Strengthening of the Office of the Education Officer	1,171	0,380	0.234	0.188	0.182	0.187
16	School Buildings and Teachers'	38.639)	9.5 <u>6</u> 9	7,910	7.180	7.155	6.825
	Quarters Total Education	74.158	15.655	14,4(8	14.844	14.693	14.558
в.	HEALTH:						
1.	Construction of Port Blair Hospi- tal and augmenta- tion & improve- ment of Health Services	19,389)	J <b>,</b> 809	4.657	4. <b>.</b> 501	5.634	1,282
2.	Mayabunder Hos- pital	4.5855	1.,000	1.917	0.551	0.556	0.561
З.	Long Islands Hospital	1.9400	0. JAU	0.,640	0.530	-	-
4.	Extension of Nan- cowrie Hospital	0,7600	0,3-0	ି <b>୍</b> ନି∂ଠି	0,280	-	-
5.,	Conversion of Ran •gat and Diglipur Hospitals into dieted ones		0.080	0.105	0.125	0.155	0.205
6.,	T.B. Hospital at Port Blair	6.579	1,250	<b>En</b> 074	1.278	1.273	0.698
7.	Establishment of T.B. Hospital at Car Nicobar	5,1/59	1.,550	J*000	1,200	0.702	0.707
8.	Isolation Ward for Leprosy pa tients	0.370		0,370	~*	-	-
9.,	Isolation Ward at Car Nicobar	0.3:877	-	0.200	0 187	-	•
LQ .	Expansion of Medical facili- ties in rural areas	3.6955	0.653	0.681	0.709	0.938	0.714
Ll.,	School Health Services	0,6()(6	7,101	0.133	0.100	0.102	0.105

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12.	Establishmen							
_	Maternity Ce		1.420	0,359	0.435	0,263	0.179	0.184
13.	Training of ses, Compoun Midwives & D	ders,	2,569	0,452	0,383	0.511	0.603	0.620
14.	Improvement Laboratory vices at Port Blair		C.300	-	0.210	0.090	-	- `
15.	Urban Water	Supply	22.893	2.500	3.000	4.000	5.000	8.393
16.	Rural Water	Supply	5.000	0.250	0.500	1.000	1.250	2.000
	Total Healt	h	76.324	12.498	16.650	15.310	16.397	15.469
	HOUSING:							
1.	Construction residential non-resident buildings fo Government r quirements	and ial r	33.112	7.277	8.125	6.916	6.214	4.580
2.	(Construction residential non-resident buildings fo Police Deptt	and ial r	13.745	1.790	2,426	2.818	3.041	3.670
3.	Construction residential dings for wo employed in undertakings	buil- rkers Govt.	41.380	1.000	1.880	1.500	-	-
4.	'Sweepers' Ho	using	11.621	0,500	0.621	0.500	-	-
5.	Construction a District J Building at Port Blair		41.919	0.100	1,800	2 <b>.556</b>	0.463	-
6.	Rest Houses Andaman and bar Islands		11,500	0.440	0.650	0.410	-	-
7.	Development land for con tion of Work (Garages and (School	struc. shop,		0.113	0.615	0,452	_	· _
8.	Low Income ( Housing Sche		10).000	2,000	2,000	2.000	, 2.000	2.000
9.	Development House sites Low Income ( Housing Sche	for roup	2.000	0.500	0.500	0.500	0.500	-

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10.	Village Housing Pro- jects Scheme	3,000	• 0,6000	0.600	0.600	0.600	.0.600
	•	75.457	14.320	· · · · · · · · · · · · · · · · · · ·	18.252		10.850
D.	WELFARE OF BACKWARD CLASSES:						
1.	Improvement of hou- sing conditions of the Nicobarese	0.875	0.175	0.175	0.175	0.175	0.175
2,	Additional facilities for the education of the Nicobarese	1.650	0.476	0.341	0.246	0.281	0.306
3.	Welfare of the Onge	1,551	0.274	0.207	0.354	0.357	0.359
4.	Permanent settlement of 50 families of Car Nicobar in Katchal	0.925	0.150	0.230	0.290	0.185	0.070
5.	Establishment of Co- mmunity Welfare Centre	0,794 es	0.360	0.374	0.020	0.020	0.020
6.	Supply of Stud Boars and Poultry Birds to Tribal Families	0,100	0,020	0,020	0.020	0.020	0.020
7.	Women's Training Cen- tre in Tailoring and Garmënt Making at Nancowrie	0.643	0.032	0.154	0.151	0,152	0.154
8.	Improvement of Water Supply	0.200	0.020	0,030	0.050	0.060	0.040
9.	Development of con- tacts with the Jarawa, the Sentinalese and the Shompens	0.050	0.010	0.010	0.010	0.010	0.010
	l Welfare of Backward sses	6,788	1.517	1,541	1.316	1.260	1,154
E. <u>S</u>	OCIAL WELFARE SERVICES	<u>.</u>					
1.	Social Welfare Ser- vices	1 <b>.</b> 248	0,192	0.144	0.336	0.288	0.288
	otal Social Welfare prvices	1.248	0,192	0.144			0.288
F. <u>]</u>	ABOUR WELFARE:						
1.	Labour Welfare Centres	s Ó.822	0,186	0,234	0.334	0.034	0.034
2.	Education of Workers	0,229	0.050	0,045	0.045	0.045	0.044
	Construction of Office Buildings for Labour Welfare Officers	°0.150	· -	0.075	0.075		-
4.	Supply of Additional Staff, Equipment & a Jeep to the Labour Dep	0.480 ptt.	0.191	0.070	0.071	0.073	0.075
<i>r</i>	fotal Labour Welfare	1.681	0.427	0.424	0.525	0.152	0.153

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	- Total Social Services	235.656	44-609		50.583	45,608	42.472
			110000	01,001	00.000	40.008	
VI.	MISCELLANEOUS:						
(a)	<u>Statistios</u> :						
1.	Strengthening of the Statistical Bureau	0 400	0 056	0.000	0.000	0.000	a
	Total Statistics	0.408 0.408	0.056	0.083	0.086	0.090	0.093
(b)	Publicity:					0.000	
_	Installation of Community						
•	Listening Sets	0.240	0.036	0.042	0.048	0,054	0.060
2.	Purchase and distribution of Plan literature		.0.010	0.010	0.010	0.010	0.010
3.	Supply of publications, newspapers and other literature to the Infor- mation Centres	0.200	0.040	0.040	0.040	0.040	0.040
4.	Publication of the Anda- man & Nicobar Information	0,500	0.100	0.100	0.100	0,100	0. 100
5.	Songs and Dramas	0,025	.0,005	0.005	0.005	0005	0.005
ŝ.	Exhibitions	0.500	0.100	0 <b>.10</b> 0	0.100	0,100	0.100
	Contribution to the Press Trust of India	0.600	0.120	0.120	0.120	0.120	0.120
8,	Press Advertisements	0.050	0.010	0.010	0.010	0.010	0.010
9.	Purchase of Photographic material	0,150	0,040	0.020	0,030	0.030	0.030
10.	Strengthening of the Publicity Unit	1.014	0,262	0.220	0.174	0,177	<u>0,181</u>
	Total Publicity	3.329	0.723	0.667	0.637	0.646	0.656
(c)	<u>Others</u> :						
1.	Improvement of Fire Ser- vices in Andaman and Nicobar ^I slands	6,609	. 2 <b>.</b> 132	1.321	0,998	0:950	1,208
2.	Expansion of Govt.Press at Port Blair Total Others	<u>3.786</u> 10.395	1.199 3.331	1,116 2,437	0.478 1.476	0.492 1.442	0.501 1.709
	Local Bodies:	<u></u>					
l.	Development Programme of Port Blair Municipal Board	10,358	2.240	2.120	1.875	2.040	2,083
	Total Local Bodies	10,358		2,120	1.875	2.040	2,083
	Total Miscellaneous	24,490	and the second	5.307	4.074	4.218.	4.54]
	Grand Ibtal ' 1	148.003	242.137	352,095	209.226	179.450	102.095
Р	- AM.22/9.					•	•

PAM.22/9.

# AGRICULTURAL PRODUCTION

#### Agricultural Production

## Review of the First Five Year Plan:

There was no programme of increasing agricultural production in the First Five Year Plan. The various departments concerned with the various aspects of agricultural development carried out their normal activities. The only redeeming feature was that the area under paddy crop increased from 5566 acres in 1950-51 to 9256 acres by the end of 1955-56 as a result of clearance of forest land under the colonisation scheme.

### Outlay and progress of expenditure in the Second Five Year Plan: production

The outlay on agricultural_programme accounted for Rs.20.000 lakhs in the Second Plan. The table given below indicates under the various schemes the progress of expenditure during 1956-57, 1957-58, 1958-59, 1959-60 and the likely expenditure during 1960-61.

(Ns. in lakhs)

<u> </u>					L'anns)		
S.NolName of Scheme	1 nro-	0 dunation		xpenditu		Likely Tota	
\$ \$ \$	Vision	1956 <b>-</b> 5' 1 1	711957- 1 1	5811958- 1 1	59 <u>0</u> 269-4 ≬ ≬	expendfor Oditurelfive Iduringlyear I1960-610195( I I61.	
1 1 2	į́З	¥ 4	¥ 5	6	¥7	8 9	
1.Coconut Plantatic in Andamans.	n 11.800	0.439	0.513	0.267	1.169	1.564 3.952	
2.Development of Coconut Planta- tion in Nicobars.	1.000	Rc,	0.076	0.110	0.143	0.300 0.629	
3.Supply of Imple- ments, Seeds and Manures to old agriculturists.	2.000	0,.04 <u>4</u>	0,359	0.382	0.601	0.830 2.216	
4.Pepper cultiva- tion in Andamans	0.250	0,025	0.045	0.056	0.043	0.044 0.213	
5.Homestead Horti- culture.	0,550	0,.040	0.105	0.038	0.077	0.214 0.474	
6.Development of Sugar cane culti- vation.	0.210	0,001	0.048	0,058	0.043	0.058 0.208	
7.Intensive culti- vation.	1,090	0.001	0.065	0,177	0.222	0.445 0.910	
8.Plant Protection	2,000	0.057	0.181	0,315	0.605	0.489 1.647	
9.Development of Coffee, Tea and Rubber Planta- tions.	1,000	-	يع	<b>e</b> .	0.084	0,200 0,284	
10.Multiplication and Distribution of improved geods			1.392	0.043	0.295	0.892 1.230 5.036 11.763	
Total.	20.000						
* The scheme was sponsored after the finalisation of the Second Five Year Plan. Expenditure was to be met out of the							

anticipated savings from the Agricultural Sector.

Assessment of the extent of likely development by the end of the Second Fiwe Year Plan:

#### 1. Coconut Development in Amdamans: -

The scheme envisaged the clearance of 2,000 acres of unproductive forest land and the allotment of the cleared area in suitable units to private parties for raising coconut plantation with Government assistance by way of loans and supply of improved varieties; of seedlings raised in Government nurseries at concessional raites. 440 acres of forest land have already been cleared and brought under coconut cultivation. About 200 acres of unproductive forest land are expected to be cleared during 1960-61. In addition, an area of 345 acres from which non-commercial species have already been removed, is expected to be cleared of commercial species for raising coconut plantation during 1960-61. Altogether an effective area of about 500 acres will have been brought under coconut cultivation in the Second Plan. 4 nurseries for raising coconut seedlings have been (established. 60,467 Nos.quality seedlings had been supplied upto the end of 1959-60, and 24,400 more seedlings are likely to be supplied during 1960-61.

#### 2. Development of Coconut Plantation in Nicobars: -

Free plant protection services are provided to planters to control the growing menace of rhinoceros beetle. A model farm has been established at Car Nicobar to demonstrate improved techniques off coconut cultivation, Another demonstration farm is expected to be established at Katchal before the end of 1960-61.

#### 2 Supply of implements, seeds and manures to old agriculturists:

168 mes. of improved solls, 31 tons of manures and fertilisers and agriculture implements worth Rs.74,941/had already been supplied to cultivators upto the end of 1959-60 in accordance with the G.M.F. Rules. Agricultural implements worth Rs.51,000/-, manures and fertilisers worth Rs.15,600/- and improved seeds: worth Rs.16,400/- are likely to be supplied during 1960-61. The expenditure likely to be incurred if the end of the Second Five Year Plan is Rs.2.216 lakhs as against the provision of Rs. 2 lakhs.

#### 4, Pepper cultivation:

A 5 acre experimentall-cum-demonstration pepper plantation was set up with a view to studying the prospects of introducing pepper cultivation on a commercial scale, but no fruiting has been noticed inspite of the fact that the plants are over three years old.

#### 5. <u>Homestead Horticulture</u>:

A 5 acre pine-apple mursery has been set up. About 46 acres have been brought under citrus fruits. An area of 13 acres has been brought under pine-apple cultivation. Fruit cultivation will have been further developed during 1960-61.

#### 6. <u>Development of sugar-cane (cultivation</u>:

48 acres of unproductive land have been brought under sugar-cane cultivation. Another 12 acres are expected to be brought under sugar-cane cultivation by the end of 1960-61. The target of bringing 60 acres of forest land under sugarcane cultivation will be fully achieved in the Second Plan.

#### 7. Intensive cultivation:

Demonstrations in intensive cultivation are organised on cultivators' fields. Three mobile gangs for organising demonstrations have been constituted and are functioning. The scheme aims at demonstrating to the cultivators the utility of practising intensive cultivation. 636 Demonstration plots on cultivators fields have been laid out. 8 Demonstration Centres according to Indian Council of Agricultural Research's pattern have been set up.Japanese method of paddy cultivation duly modified to suit local conditions has also been popularised by lying out demonstration plots.

#### 8. Plant Protection:

A plant protection unit under the charge of a trained agricultural assistant has been set up with a view to controlling the growing memace of pests and diseases in the Agricultural and Horticultural crops including coconut plantations. The expenditure incurred on the scheme upto 1959-60 was No.1.158 lakhs and likely expenditure during 1960-61 is estimated at No.0.489 lakhs. The Government of India, Ministry of Food and Agriculture have accorded special sanction to the free supply of pesticides to the cultivators during 1960-61.

#### 9. Development of Coffee, Tea and Rubber Plantations:

a) <u>Coffee</u>:-On the basis of the recommendations of the Coffee experts who carried out local investigations a scheme for "Exploratory Trials on Coffee Cultivation in Andamans" was formulated. One Research Assistant (Coffee) and three field-mon (Coffee) were appointed and sent to the mainland for training. Action has been initiated for the recruitment of Coffee Development Officer. Physical implementation of the scheme will be commenced only from 1961-62.

b) <u>Tea:-</u> Commercial prospects of growing tea cultivation in these Islands are yet to be examined by experts.

c) <u>Rubber</u>:- The Rubber Production Commissioner visited these Islands in 1958 to explore the commercial prospects of developing rubber cultivation. According to the report furnished by him, soil and climatic conditions in these Islands, particularly in the Nicobar group of Islands are eminently suitable for rubber cultivation. In order to assess the availability of areas suitable for rubber cultivation the services of a Junior Field Officer of the Rubber Board were obtained on deputation in 1959 for carrying out a survey of the different Islands. The survey work has since been completed, and approximately an area of 13,600 acres is available for rubber cultivation. Details of the scheme will be worked out after the Government of India have taken a broad policy decision in regard to rubber cultivation in Andamans.

#### IO. Multiplication and Distribution of Improved Seeds:

Against the targets of 3 seed farms, 2 have already been set up. Land for the third seed farm will have been found and developed by the end of the Second Plan.

#### 11. Arecanut Development:

A scheme for the development of arecanut cultivation came into operation with effect from 4-9-1957. The scheme is operated in conjunction with the Indian Central Arecanut Committee on a grant-in-aid basis. A nursery has been established at the Horticultural Garden where seedlings from selected seednuts are raised for supply to local cultivators at concessional rates. 1,11,000 seedmuts were sown in the nursery upto the end of 1959-60 and another 64,000 seednuts will have been sown by the end of 1960-61. 68,355 arecanut seedlings had been supplied to local cultivators upto the end of June, 1960. Campaigns were organissed for the development and use of green manures. 31 tons of green Manure seeds had been distributed upto the end of 1959-60 for green manuring and for multiplication of seeds. Use of eupatorium, a profusely growing common weed green manure, is getting popular.

#### Land Development

#### 1. Soil Conservation:

A Soil Erosion and Research Station has been established at Rangat in Middle Andaman to carry out pilot survey for determination of factors causiing soil erosion with a view to recommending anti-erosion and conservation measures.

#### 2. Provision of bunds and slutices in the Andamans

For reclaiming saline a ffected areas of 790 acres in Middle Andaman which is subject to inundation during high tidal waters for agriculture, necessary plans and estimates for the construction of an earthen bund from Dashratpur to Yeratta in Middle Andaman at a cost of Rs. 7.82 lakhs were finalised, but the project had to be dropped on account of its unsound economics.

#### Minor Irrigation

The scheme envisaged construction of a masonry dam across a stream near Mithakhari village in South Andaman to provide irrigational facilities to about 400 acres of paddy land. The total estimated cost of the project worked out to Rs.10.49 as against the Plan provision of Rs.6.5 lakhs. The Superintending Engineer (UT), Central Water and Power Commission, Government of India, New Delhi, to whom detailed plans and estimates were forwarded for technical scrutiny, advised that the scheme was not feasible from its economic and financial aspects. The scheme has, therefore, been dropped.

#### Other Minor Irrigation Programme.

9 pumping sets were supplied to farmers for irrigation by utilising water of streams which have water supplies for larger part of the dry season. There seems to be no scope for tube well irrigation or irrigation from surface wells owing to poor availability of ground water and occurrence of salinity.

#### Land re-settlement and colonisation.

The target fixed for clearance of forest land for agriculture was 11,900. The area cleared upto 1959-60 was 6,715 acres. Another 1,295 acres will have been cleared by the end of 1960-61.

The production of paddy at the end of the Second Plan is estimated at 8,700 tons (Rice 5,650 tons) as against 4,958 tons (Rice 3,222 tons) at the end of the First Plan. The population of the Islands will have also increased from 39,000 to 49,000 during the same period. The increase in the production potential of coconuts and arecanuts will bear fruit only during the 4th Plan period as extension of areas under these crops will yield results after about: a period of 7-9 years.

In the net result, one thing which can be safely concluded is that the Second Five Year Plan has established a strong base for intensive work in the field of agricultural development during the Third Plan.

lakhs

#### -: 5 :--

# Approach to Agricultural Development in the Third Five Year Plan.

The area under cultivation in the Andaman Islands as in September 1960 was about 23,169 acros. The details are as follows:-

	Area under food c: (1) Paddy	• د ن	16,827 acres.
(b)	Area under cash cr	rops:	
	(1) Sugar-cane (2) Miscellaneous	• • •	137 acres. 1,000 acres.
(c)	Area under fruits	and vegetal	oles:
	<ol> <li>Bannanas</li> <li>Pine-apples</li> <li>Citrus fruits</li> <li>Vegetables</li> <li>Cashownut</li> </ol>	<ul> <li>• •</li> <li>• •</li> <li>• •</li> <li>• •</li> <li>• •</li> </ul>	350 acres. 13 acres. 125 acres. 150 acres. 56 acres.
(d)	Area under plantat	tions:	
	<ul><li>(1) Coconuts</li><li>(2) Betel-nuts</li><li>(3) Rubber</li></ul>	0 0 0 0 0 0 0	4,000 acres. 75 acres. 436 acres.

Total,

23,169 acres.

The average yield of paddy is about 15 mds per acre. The average annual rain-fall is about 123.33 inches. The duration of south-east monsoon is from May to middle of October and of north-east monsoon from middle of October to middle of May. The rainfall between May and October varies from 90" 100". The weather is almost dry from the middle of December to the end of April. No irrigation facilities exist im these Islands. The cropping pattern is entirely based on the rainfed condition. There is not much of agricultural activity in the dry season between January and May. The area under rabi crop is almost negligible.

#### Additional production of foodgrains.

The area under paddy set the end of the Second Plan will be 16,827 acres as against 9,255 acres at the end of the First Plan. The annual production potential of paddy at the end of the Second Plan is estimated at 8,700 tons or 5,650 tons of rice. About 3000 tons of foodgrains are annually imported to meet the local requirements. The present population of the territory is estimated at 47,000 of which about 12,000 are Nicobarese. Assuming that 50% of the Nicobarcse do not require rice or other cereals as they live only on coconuts, yams, fruits and root crops produced locally, the requirement of rice for a population of 41,000 at the rate of 12 ozs. per day per capita work out to 5,000 tons or 7,700 tons of paddy per annum. Another 2,250 tons of paddy are required for feeding elephants, poultry etc. The requirements of seed and wastage account for 1,500 tons of paddy. This also includes unforeseen contingencies like adverse weather and risk of inflation. On this basis the overall requirements of paddy/or rice work out to 11,250/7,300 tons respectively per annum. The population of these Islands is likely to rice from the present figure to 70,000 by the end of the Third Plan due to the following factors:-

(1) Normal growth.

- (2) Migration of families from the mainland for settlement in the Andamans.
- (3) Increase in labour force required for execution of development programme.

The per capita consumption of cereals at present is lower than the level required for a balanced diet. The Nutrition Advisory Committee has recommended a level of 14 ozs. of cereals and 3 ozs. of pulses per day per adult. The annual requirement of rice to feed a population of 70,000 at a uniform scale of 144 ozs. per day per capita works out to 9,980 tons equal to 15,350 tons of paddy at the end of the Third Plan. The wastage and requirements for cattle feed, poultry and seed at the end of the Third Plan are estimated at 4,500 tons of paddy per annum. The overall requirements of paddy at the end of the Third Plan work out to 19,850 tons per annum. An adequate provision has also to be made ffor meeting contingencies like adverse weather and risk cof inflation. These considerations indicate that we should aim at a provision of not only 19,850 tons of paddy/cor 12,850 tons of rice at the end of the Third Plan pericod but somewhat higher so that there may be an adequate security against the possible unforeseen contingencies.

#### Coconut and arecanut:

There is a very wide scope for increasing the production of coconuts and arecanuts by undertaking both short-term as well as long-term measures. The shortterm measures should include the setting up of demonstration centres to propagate improved methods of coconut cultivation and protection of crops against pests and diseases. Under the long-term programmes, the areas under coconuts and arecanuts can be substantially increased. The only difficulty which stands im the way is the removal of commercial timber from forest lland which has got to be overcome for expansion of agricultural activities. Development of nurseries for the production of quality seedlings for supply to farmers; deserves special attention.

#### <u>Cashew-nuts</u>:

Soil and climatic conditions in this territory are suitable for growing cashew-nut:s, which is a dollar earning commodity. It is necessary that: due attention should be paid to the development of cashew-nut cultivation in the Third Five Year Plan.

#### Coffee and Rubber:

With the data available, special attention has to be devoted to implementing the propramme of coffee and rubber cultivation in the Islands in the Third Five Year Plan.

#### Horticulture:

The programme for development of horticulture initiated under the Second Plan is proposed to be continued, and intensified under the Third Plan. Plant material of reliable parentage and guaranteed performance will be supplied to fruitgrowers.

#### Vegetables:

Production of vegetables is to be encouraged by supplying seeds and seedlings of quality to intending vegetable growers. Technical guidance will also be made available to them.

<u>Lac</u>:

Lac cultivation will be initroduced

# Programme of work:

The increase in agricultural production is proposed to be brought about by (a) extensive cultivation, and (b) intensive cultivation. The agriculture under the colonisation scheme which has been in operation since 1953 has already been extended almost to a saturation stage. Although some scope will still exist for (clearing forest land for the settlement of families on agriculture under the colonisation scheme during the Third Plan period the main emphasis should be to bring about increasce in agricultural production by increasing the average yield through intensive cultivation. The increase in yield per acre its to be achieved by a combi-nation of a number of measures such as programmes relating to supply of fertilisers and improved seeds, measures for plant protection, irrigation facilities, propagation of improved agricultural practices, land development and soil conservation measures and populairising of improved agricultural implements. These various programmes need to be combined in such a manner as will ensure the results at the minimum cost.

#### Third Plan, Targets.

The principal targets of additional agricultural production for the Third Five Year Plan are given in the table below:-

	≬ Unit ≬(Tons/acreage	(Esttimated ) )(prcoduction) (in. 1960-61)	production	§increase.
1. Paddy 2. Pulses 3. Oil seeds	tons "	8;,700 18 8	13,344 268 79	53,4%

The actual statistics of increase in agricultural production from year to year of individual commodities are shown in Appendix A.

The increase in food production to the extent indicated above will have been realised broadly from the following sourcest-

- 1. Land re-settlement and colonisation,
- 2. Manures and fertilisers.
- 3. Improved seeds.
- 4. Land reclamation and land development.
- 5. Improved techniques of agriculture

including application of soil conservation methods.

#### Agricultural Production

The programme of Agricult:ural Production involves an outlay of Rs.61.855 lakhs. Altogesther 18 schemes have been formulated. The distribution of expenditure is summarised in the following table:-

#### (a) Agricultural Productiion

Name of scheme	Expenditure (Rs. in lakhs)
1. Strengthening the Agricultural Department.	13.304
<ol> <li>Strengthening the Agricultural Department.</li> <li>Training of personnel for staiffing the Agricultural Department.</li> </ol>	1.396
3. Multiplication and Distribution of Improved Seeds.	2.211

	-: 8 :-	
<u>S .</u> ]	No. Name of scheme. Ex	penditure in lakhs)
4. 5.	Supply of Implements, Seeds and Manures to Cultivators. Scheme for demonstration of intensive cultivation of Agricultural crops.	2.315 1.204
6.	Scheme for Plant Protection in the Andaman and Nicobar Islands.	1.250
7.	Rehabilitation of Coconut Plantations in Andamans.	13.211
8.	Development of Coconut Plantations in Nicobars.	5.080
9.	Scheme for the establishment of Coconut Nurseries for the Andaman and Nicobar Islands.	2.802
10.	Deputing selected Nicobarese to the mainland for study tour of the coconut stations and plantations on the West Coast.	d 0.525
11.	Scheme for the establishment of Progeny Orchard-cum-Nurseries.	3.292
12.	Scheme for demonstration of intensive cultivation of Horticultural crops.	2.470
13.	Development of Cashewnut in Andaman and Nicobar Islands.	0.325
14.	Arecanut Development Scheme.	0.938
15.	Development of Pine-apple cultivation and Establishment of a Canning Unit.	2.468
16.	Lac Cultivation in Andamans.	1.251
17.	Exploratory trials on Coffee cultivation in Andamans.	2.813
18.	Rubber Plantation in the Andaman and	5 000

#### Nicobar Islands. 5.000 Total Agricultural Production. 61.855

N.B. 1. Schemes mentioned at S.Nos.1-15 have been suggested by Shri U.N. Rao, Assistant Agricultural Commissioner, with the Government of India who visited these Islands in February 1960 to advise this Administra-tion on the Agricultural Development of these Islands.

2. Scheme at S.No.16 has been prepared on the basis of the report of Shri H.D. Singh, C.F. (Retd) Lac Extension Officer I.L.C.C. Ranchi, who visited these Islands in November 1959 for finding out the possibilities of Lac Cultivation in these Islands.

In addition, the following schemes involving an outlay of R.147.134 lakhs which indirectly help agricultural production have also been formulated.

(b)(1) Land Development

S.No. Name of scheme.

- 1. Soil Erosion and Research Station at Rangat.
- 2. Soil Conservation in Agricultural Lands. 3. Reclamation of saline Affected land for
- cultivation.

Expe	end	iture
(Rs.	in	<u>lakhs)</u>

- 0.536 6.245 4,983 11,764

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<u>S.No.</u>	Name of the Scheme,	Expenditure (N. in lakhs)
b(2	2) Land Resettlement and Colonisati	OL
4. Cold	nisation Scheme	110.350
Ъ(:	3) Community Development Frogramme.	
5. Com	unity Development Blocks.	25.020
	Grand Total ( $a + b$ )	208.989

N. B. Schemes at S.No.1 and 2 under Land Development have been prepared in consultation with Shri M.S.V.Rama Rao, Senior Director, Soil Conservation, Ministry of Food and Agriculture (Department of Agriculture). Reference is invited to the D.O.letter No.F.1(1)/60-1AC dated the 25th March 1960 of Shri U.Narasınga Rao, Assistant Agricultural Commissioner with the Government of India addressed to the Chief Commissioner, Andaman and Nicobar Islands.

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# Agricultural Production

	Item of cevelopment	1961		l <u>1962</u>			63 <b>-6</b> 4	1964		1965	-66	Additional
No.	programme.	Units		X	Units	8	Units	Units	~ ~	Units	at the second	production
2		in tons	in acreage	in tons	≬ in ≬acreage	tons	in jacreage	in tons	l in l lacreage	in * tonś	in i	l in tons (at the end of
į		}		<u> </u>	<u> </u>	Į	ĵ. )		Í Í	00110		Plan Period
1	· 2 ·	3	4	5	Í Í	į. 7	Į 8	9	10	11	12	13
Ē	Production of Paddy.				-	,						
	and Reclamation/colo- nisation.	465	1,295	1,000	·2 <b>,7</b> 95	1,535	4 <b>,</b> 295	2,070	5,795	2,605	7,295	2,605
	Soil conservation/ and Development.		500	18	1,000	36	1,500	54	2,000_	72	2,500	* 72
3. ]	Improved Seeds.	130	2,500	320	6,000	560	10,500	850	16,000	1,200	22,500	1,200
4. I	Fertilizers and Manures.	71	1,000	85	1,200	107	1,500	128	1,800	142	2,000	142
5.I	Plant Protection.	133	2,500	160	3,000	187	3,500	21.4	4,000	<b>2</b> 68	5,000	268
	Introduction_of double cropping.	71	200	142	400	214	600	285	800	357	1,000	357
<u>_</u>	Other Crops											
1. J	Pulses.	107	300	142	400	178	500	214	600	250	700	250
2. (	Oil Seeds.	35	200	44	250	53	300	62	350	71	400	71

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## AGRICULTURAL DEPARTMENT, Andaman and Nicobar Islands.

Name of (	Scheme:	STRENGTHENING THE AGRICULTURAL DEPARTMENT.
Head	) 0 -	Agriculture & Community Development. Agricultural Production.

Sub-Head ) 9 - Miscellaneous.

#### Object of the Scheme:

The gazetted staff employed on agricultural activities at present consists of an Agricultural Officer, a Coconut Development Officer and an Horticultural Officer. In addition to these officers, there are subordinates in charge of specific projects. A post of Director of Agriculture is expected to be filled in soon. To implement the programme for an all round agricultural development in the Islands, it is necessary that this complement is strengthened and specific provisions are also made for such items that are intended to be taken on hand newly during the Third Five Year Plan perjod.

2. The appointment of an Economic Botanist, who will plan for the introduction and trial in the first instance, and dissemination later, of the improved strains of food; pulse and other crops is deemed as a vital necessity. He will be placed in charge of experimental activities at the Agricultural Farm, Junglighat which will serve as the main receiving centre of all seed and plant materials of agricultural crops from where, after inspection or trial or both, they will be distributed to the seed multiplication farms dispersed over the Islands. He will also survey the Islands for location of promising acclimatised types now being grown and attempt at both their purification and multiplication for wider distribution. Determining within broad limits the fertiliser requirements of the chief agricultural crops like paddy, will be another duty allotted to this officer. He will be responsible further for roguing the material under multiplication at the seed farms in order to ensure and maintain purity. To help him with his work, in addition to the staff stationed to be in charge of the seed farms etc., the technical staff at the Agricultural Farm, Junglighat needs to be strengthened by the appointment of an additional Agricultural Inspector and an Agricultural Demonstrator. The Economic Botanist will be drawn from among persons holding an Agricultural Degree and who have spent about five years in a Breeding Station engaged in general agricultural crop improvement.

3. With the progressive increase under the cropped area on the Islands, the pest and diseases problem is bound to become aggravated. A special agency with the necessary equipment and pesticides has to be provided for dealing exclusively with this aspect of agriculture. In addition to the existing staff of one Plant Protection Assistant and two Demonstrators, a Plant Protection Officer (Plant Pathologist) with his headquarters at Port Blair and an additional complement of three more Demonstrators Stationed at convenient centres on the Islands to work under his instructions have to be provided. This staff will attend to all plant protection problems on the Islands concerning both horticultural and agricultural crops.

4. The need for a dependable evaluation of the increases of area as well as production of individual crops and commodities will be felt as the programme under the Third Five Year Plan advances. Much of the estimation that is done at present is largely a matter of guess work and has to be substituted by more reliable indices. The department should be provided with a person adequately trained in statistical techniques and in the Third Five Year Plan period a Statistical Assistant will be stationed at the headquarters of the Director of Agriculture to assess from time to time the progress being achieved under each separate developmental scheme. He will also be responsible for drawing up suitable experimental layouts for all trials proposed to be undertaken on a replicated basis and also for the analysis of data and interpretation of the results of such trials.

5. The Agricultural Officer, in addition to being in charge of the Farm at Junglighat, has a seed multiplication centre at Panchwati, seed multiplication farm at Diglipur and will be establishing two more such centres, shortly one at Port Mout and another at Ferrargunj. The staffing pattern already decided upon for these several centres will not require any changes.

The Horticultural Officer in addition to the horti-6. cultural station at Haddo has six other centres of work. It is suggested that the Ferrargunj, Beechdera and Panchwati centres may be treated as Progeny Orchard-cum-nurgeries to serve as sources of nursery stock as well as demonstration units and treated under a separate scheme. The pine-apple orchard at Sipighat and the Cashew-nut plantation at Mount Hutton are also dealt with separately under schemes dealing with these crops. The Horticultural Station at Haddo will be the chief centre of work dealing with perennial crops. With an extensive block of about 85 acres of land at its command, it should be possible to undertake not only a conventional pattern of work consisting of varietal introductions and their trial, rootstock selection and the like, and the propagation of plant materials to stock the progeny orchard-cum-nurseries but also to ergage upon select problems of imminent importance or of economic significance to the country as a whole. The Central Government have been generally considering each of such projects as worthy of undivided attention under separate schemes but in the inherent limitations of these Islands, it is proposed to include all such items as quasi-permanent activities of the Horticultural Section, providing separately for the necessary extra contingent expenditure alone. The list of these items with brief notes on each is given below: -

#### (1) <u>Adaptive trials with</u> <u>clove and nutmeg</u>:

The clove has already been introduced to the Andamans and is seen to thrive in

well drained loams. The wild Myristica species occurring here would appear to indicate that the nutmeg should also be able to adopt itself. The increased production of both these crops within the country should conserve foreign exchange annually of more than ten lakhs of rupees.

(2) <u>Trial of Wrapper</u> <u>tobacco</u>: In the mainland, no single place has been located as would foster the wrapper to-

bacco variety and recourse is being taken to meet our requirements from U.S.A. and Indonesia. This is a fine quality type requiring climatic conditions characterised by even temperatures averaging 80°F, heavy but evenly distributed rainfall, high relative humidity, and abundant sun. These requirements can be met by the Andaman and these Islands should, therefore, be able to fill the breach without any great departure from the general

agricultural economy because the annual demand is only for about one lakh of pounds of the wrapper tobacco.

mango:

(3) <u>Perpetuation of gern</u> <u>plasm of outstanding</u> <u>chance seedlings of</u> <u>chance seedling</u> perpetuate and disseminate new varieties of mango which

combine quality and yields that are known to be dispersed all over the country as chance seedling trees at present. Seedling mango trees are reported to be met with all over the Islands and some of them are claimed to be highly flavoured table types while others are quality juicy forms. One tree in the premises of the Office of the Marine Officer at Port Blair has been seen to bear an enormous crop which can be easily computed at some thousands. It is very desirable to make grafts of each of such promising types after a detailed study of both yield and quality and establish a progeny plot at the Haddo Orchard. This will, in due course, form the nucleus for the dissemina-tion of new economic types.

(4)	Trial	. of Sea	I	land	The	An	danan	Islands	s <u>pr</u>	ima	
	Cotto	<u>on</u> :			fac	ie	should	d provid	.e c	on-	
					g on	ial	condi	itions f	`or	the	
a I	sland	Cottor.	Δ	trial	in	sui	table	locatic	ns	is	

Sea Island worthwhile.

Vanilla:

(5) <u>Adaptive trial with</u> Vanilla is an essence yielding orchid plant whose development

on the mainland is being encouraged under special schemes. The Andaman and Nicobar Islands abound in orchids and vanilla therefore is worthy of a trial. If its cultivation is successful it will prove to be a foreign exchange saver.

(6) <u>Collection and propa</u>- Among the ornamental plants <u>gation of Orchids</u>: which are in great comm-ercial demand both within the

country and outside are orchids which put forth magnificient blooms. The Islands have a great natural wealth of them and their pooling, in one place, identification, multipli-cation and sale would prove to be of economic significance to the colonists in due course who could take to this avocation in their spare time.

The Haddo Station has to be strengthened for meeting the needs of the several activities detailed above and it is suggested that one Inspector and two Demonstrators in addition to the existing staff to meet these needs is provided.

The Coconut Development Officer has six nurseries 7. spread over the Islands each in charge of a head worker. No change in their set up is called for. It appears however, desirable that the economic tall dwarf crosses of coconut are tried out in all possible situations by him.

8. Each of the Heads of Sections will be provided with a jeep cum trailer for guick movement. This is a facility which on the mainland has proved to improve the all-round efficiency of work so much as to make the investment more than worthwhile. In addition, one jeep has to be provided for the Director of Agriculture. The department will also be provided with a boat exclusively for its own use for movement of the staff, pesticides, seeds, fertilisers, nursery stock and other

miscellaneous articles to the innumerable islands where the cultivators are dispersed. One of the most important prerequisites for efficient work is for the staff to keep abreast of the latest results of research by reading current periodicals, journals etc., dealing with agricultural topics. Necessary provision for obtaining and stocking these at the headquarters of the Director of Agriculture is to be made. While no elaborate laboratory experimental work is envisaged, it is essential to provide for small laboratories that would facilitate the investigation of problems that arise from day to day such as the identification of diseases under migcroscope, germination for tests of various seeds, the testing of soil samples, etc. It will also be necessary to provide facilities for storing seeds intended for distribution to the farmers. For these purposes, it is essential that the Agricultural Farm at Junglighat and the Horticultural Station at Haddo are provided with two laboratory-cum-seed store buildings with necessary equipments apparatus, seed bins, bags and chemicals.

9. As the Andaman and Nicobar Islands are far away from the mainland and the staff is virtually cut off from the main stream of periodical progress in agricultural research and achievement on the mainland, it is suggested that each of the Heads of Sections are sent to the mainland for a period of three months in rotation to visit the important Agricultural Research Institutes for a general refresher course in the disciplines with which each is particularly associated.

10. Based on the above premises, the following financial estimates for the Chird Five Year Plan have been prepared:-

Financial Estimates:

		961-62	<u> 1962-63</u>	<u> 1963-64</u>	<u> 1964-65</u>	<u>1965-66</u>	<u>Total</u>
Nor	n-recurring:						
	Boat	<b>50</b> 0000				-	500000
2.	Six Jeeps with trailers ) @ Rs.16,000/- ) each )	96000	-	-	-	~	96000
	Garages for ) Jeeps	15000		<b>2</b> 74	-	-	15000
	Residential ) accommodation Laboratory-	50000	50000		-	-	100000;
	cum-seed stores at Junglighat and Haddo Farms	30000	-		-	-	30000
6.	Typewriters (3) at the rate of Rs.1000/- each		1000	-	-	-	3000
7.	Equipment for the labora- tories	10000	-	2000		1000	13000
	Total Non- recurring	703000	51000	2000		1000	757000

		1961-62	1.962-63	1963-64	1964-65	1965-66	Total
Be	curring:	Rs.	Rs.	Rs.	Rs.	Rs.	RS.
Sa	laries and Allowance new staff:	9 <b>5</b>					
1.	Economic Botanist) (One) on Rs.275/-) p.m. in the scale) of Rs.275-25-500-) EB-30-650-EB-30-) 800 )	<b>3</b> 300	3600	3900	4200	4500	19500
	Andaman Special ) Pay @ 33 ¹ 3% )	1100	1200	1300	1400	1500	6500
	Dearness Allowance	900	900	900	900	900	4500
2.	Agricultural Ins-) pector (One) on ) Rs.160/- p.m. in ) the scale of ) Rs.160-10-330 )	1920	2040	2160	2280	2400	<b>108</b> 00
	Andaman Special ) Pay @ 33 % )	640	680	<b>7</b> 20	760	800	3600
	Dearness Allowance	840		840	900;	. 000	4320
3.	Agricultural De- ) monstrator (One) ) at R.60/- p.m. ) in the scale of ) R. 60-130 )	720	7.36°,	∵792 _{,*}	828	864	3960
	Andaman Special ) Pay @ 33½% )	240	252	264	276	288	1320
	Dearness Allowance	660	66 <b>0</b>	660	660	660	3300
4	Statistical Assis- tant (One) on ) Rs.160/- p.m. in ) the scale of ) Rs.160-10-330 )	1920	2040	2160	2280	2400	1 <b>0</b> 800
	Andaman Special ) Pay @ 333% )	' 640	680	<b>7</b> 20	<b>7</b> 60	800	3600
	Dearness Allowance	840	840	840	900	900	4320
5.	Plant Protection ) Officer (One) on ) Rs.275/- p.m. in ) the scale of ) Rs.275-25-500-EB- ) 30-650-EB-30-800 )	<b>33</b> 00	3600	3900	4200	4500	19500
	Andaman Special ) Pay @ 33 ¹ / ₃ % )	1100	1200	1300	1400	1500	6500
	Dearness Allowance	900	900	900	900	900	<b>45</b> 00
6.	Agricultural Demons trators (Three) at) Rs.60/- p.m. in the) scale of Rs.60-130 )	2160	2268	2376	24 <b>84</b>	2592	11880
	Andaman Special )	<b>7</b> 20	756	792	828	864	3960

-:: 15 :-

			-: 16	:-			
	-	<u>1961-62</u> ^{Rs} •	<u>196;2-63</u> Rs.•	<u>1963-64</u> Rs.	<u>1964-65</u> Rs.	<u>1965–66</u> Rs.	Total R.
Dearn ance	ess Allow-	1980	1.980	1980	1980	1980	9900
pecto Rs.160 the s Rs.160	cultural Insor (One) at 0/- p.m. in caale of 0-10-330	) ) 1920 ) )	2:040	2160	2280	2400	10800
Andam	Horticultu an Special 335%	ral wor ) 640	k )) 680	720	760	800	3600
•	less Allowar		840	840	900	900	4320
(Two)	at Rs.60/-) in the of	) ) <u>1</u> 440 )	1512	1584	1656	1728	7920
Andam Pay @	an Special) 33 <del>5</del> % )	) 480	504	528	552	576	2640
Dearn ance	ess Allow-)	) 1 <b>3</b> 20	1320	1320	1320	1320	6600
for D	<u>cal Staff</u> <u>irector of</u> <u>ulture</u> :						
Clerk (Ö ountant)	her Grade ) ne) (Acc- ) in the ) Rs.80-220 )	960	1020	1080	1140	1200	5400
Dearness	Allowance	660	660	660	660	660	3300
		;) 720	756	792	828	864	<b>39</b> 60
Dearness	Allowance	660	660	660	660	660	3,300
for tura Coco ment Hort Offic Plan	ical Staff the Agricul 1 Officer, nut Develop Officer, icultural cer and t Protec- Officer:						
Clerks (]	er Grade ) Four) in th Rs.60-130 )		3024	3168	3312	3456	15840
Dearness	Allowance	2640	2640	2640	2640	2640	1 <b>3</b> 200
(ii) Lowe Clerks (1 Four) in of R.60-1	<pre>fypists - ) the scale)</pre>	2880	<b>3</b> 024	3168	3312	3456	15840
Dearness	Allowance	2640	2640	2640	2640	2640	13200

-: 17' :-

	<u>1961-62</u> Rs•	<u>11962-63</u> Rs.	<u>1963–64</u> Rs.	1964-65 Rs.	<u>1965-60</u> Rs.	<u>Total</u> Rs.
<pre>11. Drivers (Six) on )</pre>	4320	4320	4680	4680	5040	23040
Dearness Allowance	3960	3960	3960	3960	3960	19800
12. Staff for launch -) Master Serang (One) Deck Serang (One)) Seacunny (Two), ) Engine Driver (One) Greaser (Two) and ) Lascars (Three) )	, 12000	12500	13000	13500	14000	65000
Other Charges:						
(i)P.O.L.dnarges for ) Boat )	20000	20000	22000	23000	25000	1 <b>1</b> 0 <b>0</b> 00
(ii) POL Charges for ) Jeeps )	12000	12000	14000	14000	15000	<b>6700</b> 0
<pre>(iii) Technical books,)    journals and )    periodicals for )    the library )</pre>	1000	1000	1000	1000	1000	5000
(iv) <u>Contingent expen-</u> <u>diture for conduc-</u> <u>ting experiments</u> <u>on</u> :						
(a) Cloves and Nutmer (b) Wrapper Tobacco	500	<b>500</b> 500	500 500	<b>3</b> 00 500	300 500	<b>260</b> 0 2500
(c) Trial of superior chance of seed-	> 500	500	500	500	500	2500
lings of mango (d) Sea Island Cotton (e) Trial of Vanilla	400 500	400 200	400 200	400 200	400 200	2000 1300
(f) Collection and multiplication of Orchids	) 5 <b>0</b> 0	500	500	500	500	2500
(v) Provision for stud tours of officers	y 500	500	500	500	500	2500
(vi) Other contingencie for all centres (Lumpsum)	s ) 5000 )	5000	5000	5000	5000	25000
Total Recurring	106740	108392	115204	<b>1</b> 186 <b>3</b> 6	124448	573420
Non-recurring Total Recurring Total	703000 106740	51000 108392	200 <b>0</b> 115204	118636_	1000 124448	757000 57 <b>3</b> 420
Grand Total	809740 =======	159392	117204	118636	125448 :	B30420 ======

Scheme No. 2.

# AGRICULTURALL DEPARTMENT Andaman and Niccobar Islands.

<u>Name of the Scheme</u>: TRAINING OF PERSONNEL FOR STAFFING THE AAGRICULTURAL DEPARTMENT.

Head	)	:0	-	Agricultu	$\mathbf{r}e$	and	Community	Development
Sub-Hea <b>d</b>	)	00	-	Agricultu	ra]	L Pro	oduction	-
	)	:1	-	Training	of	per:	sonnel.	

#### Object of the Scheme:

The isolation of the Andaman and Nicobar Islands and their distance from the mainland have been major obstacles in recruitment of suitable staff for manning the several agricultural dievelopmental schemes which were proposed for implementation during the Second Plan. In fact, one of the chief reasons why no satisfactory progress could be achieved and why the targets that were originally fixed coulld not be attained was this single fact that the peoplle of the mainland were mostly unattracted to serving in these islands for any lengthy period of time. A comprehensive plan of agricultural improvement and development has been programmed for the Third Plan. For satisfactory results, however, the question of providing a complement of technically qualified personnel will certainly again arise. A careful consideration of the relevant factors would point to the need for training of rersons in agriculture for filling both the higher technical ranks as well as of the field sttaff from among persons drawn from the local people. This scheme provides for recruitment of such persons and of training them up so that batches of persons equipped with the technical know how are made available in quick succession in yearly batches.

Two training coursess have been proposed, one 2. for the men who are to fill the higher executive jobs of the rank of Agricultural Inspectors. These persons would have to be spent for courses leading to a basic degree in agriculture it is proposed to recruit every year three persons from those who have passed out of the High School from the institutions on the Islands and send them to the mainland on a stipendary basis to undergo agricultural courses leading to the degree. On the completion of this course, they will be appointed to the posts of Agricultural Inspector in the Agricultural Department. The second course will be operated on the Islands preferably at Port Blair iitself. The course will be conducted by the Gazettted Officers of the Agricultural Department and this candidates will be drawn from those who have successfully completed the Middle School standardi. The intention of this course is to draw young mean from the schools who have no intention to go in for a higher level of academic education but who are sufficiently literate to be trained in the major concepts of scientific agriculture which will enable them, under technical direction to be incharge of the several agricultural developmental projects that have been envisaged under the Third Five Year Plan. Under this course, 15 candidates will be trained annually for a period of one year and on completion of the course they will be posted as Agricultural Demonstrators in the Department. By the end of the Third Five Year Plan, these two training courses would provide, the Administration with 6 persons for appointment as Agricultural Inspectors and 75 men for being posted as Agricultural Demonstrators. It is, however, important to note that the training course proposed at the higher level would be one that will make good the lacunae not so much in the Third Plan but in the plans to follow. But a beginning has to be made at some time and the earlier it is done the better for the Administration.

3. The financial estimates for operating the above courses would be as under:-

Financial Estimates.

Non-Recurring:	<u>1961-6</u>	2 19:62-6	<u>3 1963-6</u>	4 1964-6		
l.Building for the training courses.		-	ns •	ns •	Rs -	10
2.Provision for implements and other equipments for operation of the courses.	2,000	_	-	-	-	2
3.Furniture for the training school.	l,000	-	-	-	_	1,
4.Miscellaneous itens(unforeseen) Total Non-Recurrin	<u>1,000</u> g14,000					<u> </u>
Recurring: 1.Stipends,College fees etc. at a fla rate of Rs.1,800/- per student per annum(Rs.150/-p.m)	t 5 <b>,</b> 400	10,8000	16,200	21,600	21,600	75,0
2.Stipends at the rate of Rs.50/-p.m. for the Middle School trainces for 15 persons annually.	9,000	9,000	9,000	9,000	9,000	45,0 <i>7</i> 0
3.Contingent expent ture for the train ing centre.		1,000	1,000	1,000	1,000	5,00
Total Recurring. Non-Recurring Total.	15,400 14,000	<u>20,800</u> -	26,200	31,600	31,600	<b>1,25,6</b> 0 <b>14,0</b> 0
Recurring Total. Grand Total.	15,400 29,400	20,800 20,800	26,200 26,200		31,600 31,600	1,25 5 1,39,

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# AGRICULTURAL, DEPARTMENT Andaman and Nilcobar Islands.

Name of	the.	Sche	eme•	MILTTE OF IMP			DISTRI	BUTTO	N
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Head ) C - Agriculture and Community Development. Sub-Head ) OO - Agricultural Production. 3 - Seed Multiplication and Distribution.

#### Object of the Scheme:

The scheme for the multiplication and distribution of improved seeds of agricultural crops included in the Second Five Year Plan envisaged the establishment of three seed multiplication fairns of 25 acres each. Two of these farms have already been established and the remaining one will be established by the end of 1960-61. By the end of the Third Five: Year Plan, it is estimated that a total area of 25,000 acres of paddy would be cultivated annually. The requirement of at least half the area shall have to be multiplied at the seed farms as well as drawn from progressive farmers who under a system of subsidy, would supply the department with stocks of the requisite purity. The remaining area under paddy cultivation is expected to obtain its seed requirements by the cultivations putting aside their own particular needs from the yearly production on their holdings. To meet the needs of 12,500 acres, a total quantity of 3,75,000) Ib. of seed paddy has to be produced. The three seed farms which have gone into operation will yield altogether 1,20,000 lb. of seeds annually. It is necessary to make good the deficiency of seed paddy by firstly, establishing at least one more seed farm in the Third Five Year Plan and obtaining the balance from subsidized seed growers. The scheme has been drawn up on the above basis and will be an activity continued from the Second Five Year Plan period. The financial estimates are as follows: -

Financial Estimate.

I. <u>Non-Recurring</u> :	<u>1961-62</u> Rs.	<u>19:62-63</u> R:,	B <u>1963-64</u> Rs.	<u>1964-65</u> Rs.		6 <u>Tot</u> Rs.
1.Construction of four seed stores at Rs.10,000/- per seed store(phased		10,000		ns •	Rs.∙	40,000
2.Cost of irriga- tion facilities at Rs.10,000/-per seed farm(phased)		10,000	10,000	_	-	40,000
3.Furniture for the staff.	500		-		\$P1	500
Total Non- Recurring.	40,500	20),000	20,000			80,500
II. <u>Recurring</u> : 1.Agricultural Demonstrators (four) in the scale of R.60- 130. (3)@R.72/- p.m. (1) @ Rs.60/- p.m.	3,312	33,456	3,600	3,744	3,924	18 <b>,03</b> 6

		-: 21 :				
	<u>1961–62</u> Rs.	19 <u>6</u> 2–63 ^{Rs}	1963-64 Rs.	1964 65 Ks.	1965-66	Total
2.Wages of 40 labourers in the scale of R.30-2- 35 including Dearness Allowances.		3,240	<b>3,</b> 480	3,720	3,960	17,400
<u>Allowances</u> .						
Dearness Allowance. Travelling	2,6440	2,640	2,640	2,640	2,640	13,200
Allowance. Farm	1,000	1,000	1,000	<b>.1</b> ,000	1,000	. <b>5</b> ,000
contingencies.	12,000	12,000	12,000	12,000	12,000	60,000
Total Recurring	21,952	22,336	22,720	2 <b>3</b> m104	23,524 ]	13,636
III.Loans and Subsidies.						
Subsidy to seed growers.	5,400	5,400	5,400	5,400	5,400	27,000
Total subsidy.	5.400	5,400	5,400	5,400	5,400	27.000
Non-Recurring Total. Recurring Total	40,500	20,000 22,336	20,000	- 23,104	23,524	<b>80,800</b>
Loans and Subsidies Total		5.400	5,400	5,400	5.400	
Grand Total.	67,852	47,736	48,120	28,504	28,924	2,21,10

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#### AGRICULTURAL DEPARTMENT Andaman and Nicobar Islands. ***

Name of Sc	h	eme :	;	SUIPPLY OF IMPLEMENTS, SEEDS AND MAINURES TO CULTIVATORS.
		00 4	-	Agriculture and Community Development. Agricultural Production. Manures and Fertilisers.

9 - Miscellaneous.

#### 1. Object of the Schemie:

This scheme came into operation during the Second Five Year Plan and is intended to provide financial assistance in the form of loan and subsidy under the G.M.F. Rules; to the established agriculturists for the purchase of implements, seeds, manures, fertilisers and pumping sets. The scheme has proved useful to the cultivations and will be continued during the Third Five Year Plan. The scope of the scheme will be widened to bring all cultivators within its orbit.

The scheme will be worked by the normal staff of the Agricultural Department and therefore there are no separate commitments on this account under this scheme.

### 2(i) Estimated expenditure.

<u>19</u>	61 <u>-62</u> 1 Rs.	1962-63 Rs	<u>1963-64</u> Rs,	<u>1964-65</u> Rs.	<u>1965-6</u> Rs.	6 <u>Total</u> . Rs.
I <u>Non Recurring</u> II <u>Recurring</u> . III <u>Loans and</u> Subsidies.	•		- Ni] - Ni]			
l.Subsidy on non-nitrogenous fertilisers @ 25% of the cost		1,600	1,600	1,600	1,600	8,000
2.Subsidy on improved seeds @ 25%	2,400	2,400	2,400	2,400	2,400	12,000
3.Subsidy on pumping sets @ 25%	4,000	4,000	4,000	4,000	4,000	20,000
4.Loan for the supply of fertilisers, seeds, imple- ments, pumping sets. etc.	38,300	38,300	38,300	<u>38,300</u>	38,300	L,91,500_
Total Loansand Subsidies.	46,300	46,300	46,300	46,300	46,300	2,31,500
Non-Recurring Total. Recurring Total Loans and						-
Subsidies. Grand Total.	46,300 46,300	-	46,300 46,300			2,31,500 2,31,500

AGRICULTURAL DEPARTMENT Andaman and Nicobar Islands.

<u>Name of the Scheme</u>: SCHEME FOR DEMONSTRATION OF INTENSIVE CULTIVATION OF AGRICULTURAL CROPS.

Head ) O - Agriculture and Community Development. Sub-Head ) OO - Agricultural Production. 9 - Miscellaneous.

#### Object of the Scheme:

In the Second Plan, a combined scheme to deal with agricultural and horticultural crops was conceived and put into execution with the major objectives of demonstrating the use off fertilizers' application and of the increases in yielld which could be brought out by the adoption of the Japanese method of cultivation of paddy. The scheme also endeavoured to show the benefit of improved practices in vegetable culture in the homesteads of the colonists. A stage has now been reached where it is felt that this unified scheme can work in two separate components, one dealing exclusively with agricultural produce and another with all horticultural crops including vegetables so that both aspects can receive their mead of attention. Under the agricultural scheme, in the modified set-up explained above, it is intended during the Third Plan, to concentrate upon obliteration of certain difficulties in the management of land and of the crops by the average culltivators of the Islands. For instance, it has been seen that bunding of the field even when taking a swamp crop like paddy is a practice that is not resorted to in the manner it should be,/leading to more important, to the permanent loss of good top waste of soil in other than the most level of situations. fertilizer It has also been found that the seed rates employed resources are arbitrary. No logical crop sequences are and, what is followed nor is there am intelligent use of the farm resources such as making of compost. Farm operations such as weeding and inter-culture are either not done at all or are not timely. Rational good farm practices have then to be systematized, if the relatively small units which comprise homestead agriculture should yield their maximum and make the Islands self-sufficient at least in grain production. An intensive cultivation scheme of the nature that has been conceived would go a far way to meet the needs of the farmers in these several directions. No additional facilities or staff are being sought than those that were provided in the Second Polan; but since there is now going to be a division of the facilities already pro-vided between the horticultural and the agricultural sections, the estimates given below pertain to the latter section alone.

Financial Estimates.

I. <u>Non-Recurring</u> .	<u>1961–62</u> Rs.,	<u>1962-63</u> Rs.	<u>1963-64</u> Rs.	<u>1964-65</u> Rs.	<u>1965-66</u> Rs.	5 <u>Total</u> Rs.
1.Purchase of implements and						
equipments.	1,500)	1,500				3,000
Total Non- Recurring.	1,500)	1,500	-	-	-	3,000

II. <u>Recurring Pav of staff</u> 1. Agricultural Demonstrators(3) on R.72/- p.m. In the scale of R.60-3-81-EB-4- 125-5-130. 2,592 2:,700 2,808 2,916 3,060 14,076 Andaman Special Pay. 864 900 936 972 1,020 4,692 Dearness Allowance. 1,980 1,980 2,160 2,160 2,160 10,440 Travelling Allowance. 1,000 1.000 1,000 1,000 5,000 2.Wages of (3) Head workers on R.80/-p.m. in the scale of R.35-1-50 including Dearness Allowance. 2,880 2,916 2,952 2,988 3,024 14,760 3.Wages of 15 Mazdoors @ 75/-p.m.in the scale of R.30-2-35 including Dearness Allowance. 13,500 13,590 13,680 13,770 13,860 68,400 Total Recurring22,816 23,086 23,536 23,806 24,124 1,17,368 Non-Recurring Total. 1,500 1,500 3,000 Recurring Total22,816 23,086 23,536 23,806 24,124 1,17,368 Grand Total. 24,316 24,586 23,536 23,806 24,124 1,20,368		<u>1961-62</u> Rs.	<u>19(62-63</u> Rs.	<u>1963-64</u> Rs.	<u>1964-65</u> ^{Rs} .	<u>1965-66</u> Rs.	<u>a Total</u> . Rs.
Demonstrators(3) on R.72/- p.m. in the scale of R.60-3-81-EB-4- 125-5-130. 2,592 2:,700 2,808 2,916 3,060 14,076 Andaman Special Pay. 864 900 936 972 1,020 4,692 Dearness Allowance. 1,980 1,980 2,160 2,160 10,440 Travelling Allowance. 1,000 1,000 1,000 1,000 5,000 2.Wages of (3) Head workers on R.80/-p.m. in the scale of R.35-1-50 including Dearness Allowance. 2,880 2,916 2,952 2,988 3,024 14,760 3.Wages of 15 Mazdoors @ 75/-p.m.in the scale of R.30-2-35 including Dearness Allowance. 13,500 13,590 13,680 13,770 13.860 68.400 <u>Total Recurring</u> Total. 1,500 1,500 3,000 Recurring Total, 22,816 23,086 23,536 23,806 24,124 1,17,368							
Pay. 864 900 936 972 1,020 4,692 Dearness Allowance. 1,980 1,980 2,160 2,160 2,160 10,440 Travelling Allowance. 1,000 1.000 1,000 1,000 5,000 2.Wages of (3) Head workers on R.80/-p.m. in the scale of R.35-1-50 including Dearness Allowance. 2,880 2,916 2,952 2,988 3,024 14,760 3.Wages of 15 Mazdoors @ 75/-p.m.in the scale of R.30-1-35 including Dearness Allowance. 13,500 13,590 13,680 13,770 13,860 68,400 Total Recurring22,816 23,086 23,536 23,806 24,124 1,17,368 Non-Recurring Total. 1,500 1,500 3,000 Recurring Total22,816 23,086 23,536 23,806 24,124 1,17,368	Demonstrators (3 on Rs.72/- p.m. in the scale of Rs.60-3-81-EB-4	3) [ -	2;,700	2,808	2,916	3,060	14,076
Allowance. 1,980 1,980 2,160 2,160 2,160 10,440 Travelling Allowance. 1,000 1.000 1,000 1,000 5,000 2.Wages of (3) Head workers on R.80/-p.m. in the scale of R.35-1-50 including Dearness Allowance. 2,880 2,916 2,952 2,988 3,024 14,760 3.Wages of 15 Mazdoors @ 75/-p.m.in the scale of R.30-2-35 including Dearness Allowance. 13,500 13,590 13,680 13,770 13,860 68,400 <u>Total Recurring22,816 23,086 23,536 23,806 24,124 1,17,368</u> Non-Recurring Total. 1,500 1,500 3,000 Recurring Total22,816 23,086 23,536 23,806 24,124 1,17,368	Pay.	l 8 <b>6</b> 4	900	936	972	1,020	4 <b>,69</b> 2
Allowance. 1,000 1,000 1,000 1,000 5,000 2.Wages of (3) Head workers on R.80/-p.m. in the scale of R.35-1-50 including Dearness Allowance. 2,880 2,916 2,952 2,988 3,024 14,760 3.Wages of 15 Mazdoors @ 75/-p.m.in the scale of R.30-2-35 including Dearness Allowance. 13,500 13,590 13,680 13,770 13,860 68,400 Total Recurring22,816 23,086 23,536 23,806 24,124 1,17,368 Non-Recurring Total. 1,500 1,500 3,000 Recurring Tota <u>122,816 23,086 23,536 23,806 24,124 1,17,368</u>	Allowance.	1,980	1,980	2,160	2,160	2,160	10,440
Head workers on Rs.80/-p.m. in the scale of Rs.35-1-50 including Dearness Allowance. 2,880 2,916 2,952 2,988 3,024 14,760 3.Wages of 15 Mazdoors @ 75/-p.m.in the scale of Rs.30-2-35 including Dearness Allowance. 13,500 13,590 13,680 13,770 13,860 68,400 Total Recurring22,816 23,086 23,536 23,806 24,124 1,17,368 Non-Recurring Total. 1,500 1,500 - 3,000 Recurring Tota <u>122,816 23,086 23,536 23,806 24,124 1,17,368</u>		1,000	1.,000	1,000	1,000	1,000	5,000
Mazdoors @ 75/-p.m.in the scale of Rs.30-1-35 including Dearness Allowance. <u>13,500</u> <u>13,590</u> <u>13,680</u> <u>13,770</u> <u>13,860</u> <u>68,400</u> <u>Total Recurring</u> 22,816 <u>23,086</u> <u>23,536</u> <u>23,806</u> <u>24,124</u> <u>1,17,368</u> Non-Recurring Total. <u>1,500</u> <u>1,500</u> <u>-</u> <u>3,000</u> Recurring Tota <u>122,816</u> <u>23,086</u> <u>23,536</u> <u>23,806</u> <u>24,124</u> <u>1,17,368</u>	Head workers on Rs.80/-p.m. in the scale of Rs.35-1-50 including Dearness	2,880	2,916	2,952	2,988	3,024	14 <b>,7</b> 60
Total Recurring22,816       23,086       23,536       23,806       24,124       1,17,368         Non-Recurring       Total.       1,500       1,500       -       3,000         Recurring Total22,816       23,086       23,536       23,806       24,124       1,17,368	Mazdoors @ 75/-p.m.in the scale of R.30-2-35 including Dearness		1.5.50	10,000	10 550	10.000	<b>CO 400</b>
Non-Recurring Total. 1,500 1,500 3,000 Recurring Tota <u>122,816 23,086 23,536 23,806 24,124 1,17,368</u>							
Total. 1,500 1,500 3,000 Recurring Tota <u>122,816 23,086 23,536 23,806 24,124 1,17,368</u>	Total Recurrin	g22,816	23,086	23,536	23,806	24,124	1,17,368
	Total.	1,500 1,22,816		23,536	23,806	24,124	3,000 1,17,368
					23,806	24,124	

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AGRICULTURAL DEPARTMENT Andaman and Nicobar Islands.

Name of t	he	e So	he	eme:	SCHEME	FOR	PLANT	PRO	TECTION	IN	THE
					AN DAMA	N ANI	D NICOI	BAR	ISLANDS.	,	
Head	)	0		Agricu	lture	and (	Commun:	ity	Develop	nent	t.
Sub-Head	)	00		Agricu	ilt.ural	Pro	duction	n ,	-		
		5		Plant	Protec	tion	•				

# Object of the Scheme:

In the Second Five Year Plan period, a beginning has been made to utilise all available vacant areas for intensifying production of agricultural and horticultural crops both in the Andamans as well as Nicobar Islands. An area of 17,000 acres under/horticultural crops are expected to be covered by the end of the Second Plan period. For the Third Plan, a comprehensive agricultural development programme has been drawn up and an additional area of 8,000 acres under agriculture and 3,250 acres under horti culture including plantation crops is expected to be covered. Unfortunately however, parallel to the intensification of these agricultural operations, no commensurate agency for protecting the crops and inspection of the plan paterials that are being received from the mainland has be brought into existence. This is bound to have repurcussio in the form of aggravation of plant diseases and pests hich thrive then crops are grown en masse. In due cognition of these facts, under a separate scheme or strengthering the Agricultural Department, the creation of he post of a Plar' Protection Officer to be assisted by an Agricultical Inspector and three Demonstrators has been proposed. There are now only two Agricultural Demonstrators for undertaking preventive and control measures against crop posts and discases and these are totally insufficient to meet the needs. In the new set up, therefore, with an office and the complementary staff, it is expected that each of the representative tracts of the Andaman and Nicobar Islands would have an agency to watch the incidence of the plant diseases and pests and take such preventive and control measures as would be necessary in avoiding crop discases and pests that are otherwise likely to occur. Such a special agency is also extremely necessary as the majority of holdings are in the possession of colonists who are not separately or individually equipped with either the knowledge of these pests and diseases or of the neasures required for their prevention or control and also ill-equipped with the facilities such as sprayers, dustres, etc. which are required for guarding their crops. The holding, moreover, is very small and unless crop losses due to pests and diseases are prevented, the sconomy of the colonists is bound to suffer. The Islands which are now intended to take in more and more colonists will not attract new entrants unless the existing agriculturists bear testimony to the remunerative nature of agriculture here. It is, therefore, proposed to use the newly created section for plant protection for an extended supervisory roll over the entire stretch: of Islands and assist the growers to take such steps as would keep their crops healthy and free from the more scrious discases to which these crops may be subjected under the local conditions

It is proposed undier-this scheme to provide the plant protection staff with the necessary equipment of sprayers, dusters, pesticides, fungicides as well as of the needed labour to assist in the operations of spraying and disting. The service to be rendered to the farmers will be entirely free of all charges to them and the State will bear the entire expenditure over the Third Five Year Plan period but the cost of pesticides will be subsidised to an extent of 50 percent. If these concessions show manifest benefits to the growers, it is expected that the growers themselves would come forward to either undertake operations on their own or pay for the services reendered to them by the plant protection agency. The following financial estimates are framed on the above premises:-

Financial Estimates.

nanciai instin	ales.					
Non-Recurring:	<u>1961-62</u> Rs.	<u>196;2-63</u> Rs.	<u>1963-64</u>	1964-65 Rs.	1965-66 Rs.	<u>Total</u> . Rs.
l.Purchase of sprayers dusters and other equipment.	5,000	_	_	-	-	5,000
2.Construction of stores for stocking pesti- cides, fungi- cides etc. at 5 regional centres viz. Diglipur, Mayabunder, Kadamtala, Rangat and Nicobar.						10,000
Non-Recurring	10,000					10,000
Total.	15,000	••••				15,000
II.Recurring						
1.Wages of labour to be employed for helping spra- ying and dusting operations.	10,000	10,(000	10,000	10,000	10,000	50,000
2.Unforeseen contingencies towards repairs and upkeep of equipment.	3 2 <b>,</b> 000	2,000	2,000	2,000	2,000	10,000
Total Recurring.	12,000	12,000	12 000	12 000	10.000	60,000
<u>III.Loans &amp;</u> <u>Subsidies</u> . 1.Purchase of pesticides, sprayers, dusters etc. for supply to farmers at 50% subsidised				<u>+6</u> 000	12.000	
prices. Total Loans	10,000	10.0100	10,000	10,000		50.000
and Subsidies.	10,000	10.0100	10,000	10.000	10,000	50,000
		2 4 1				

	<u>1961–62</u> Rs.	<u>.1962-63</u> Rs.	<u>196<b>3-</b>64</u> Rs.	<u>1964-65</u> Ps.	<u>1965-66</u> Rs.	Tota] Rs.1
Non-Recurring Total.	15,000	_	-	_	-	15,04
Recurring Total	12,000	J <b>1</b> 2,000	12,000	12,000	12,000	60,01
Loans and Subsidies Total	10,000	110,000	10,000	10,000	10,000	50,0 <b>d</b>
Grand Total.	37,000	222,000	22,000	22,000	22,000	1,25,0

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AGRICULTURAL DEPARTMENT, Andaman and Nicobar Islands.

Name of the Scheme:	-	Rehabilitation of Coconut Plantations in Andamans.
Head J O	-	Agricultural and Community Development.
Sub-head ( 00	-	Agricultural Production. Special Commodity Programme.

#### Object of the Scheme:

Under the Second Five Year Plan, 2,000 acres of unproductive Government forest land was to be cleared and allotted to interested persons for the cultivation of coconuts. Selected seedlings from Government nurseries were to be supplied at concessional rates and financial assistance for the planting operations was also to be extended. 440 acres of unproductive forst land have already been cleared and brought under coconut cultivation. Another 200 acres are likely to be cleared during 1960-61.

2. The coconut is a mainstay of agriculture in the Islands and in the Andamans, there is scope for a systematic expansion of area under selected seedlings raised from parent trees of known performance. In the Third Plan, therefore, the work in progress will be intensified and an additional 2,000 acres will be brought under this perennial crop. This area will consist of 500 acres cleared of unproductive forest vegetation and 1,500 acres of hilly homestead plots distributed equally in the Middle and North Andamans.

3. So far as the forest area is concerned, the land will be cleared at Government expense. before being allotted to the growers. The allottees of the forest land will be provided with loan assistance of R.110/- per acre for the first year and R.80/- per acre per year in the subsequent six years when the trees would commence **institue** to bear. The money advanced shall be utilised exclusively for purposes of purchase of selected seedlings from Government nurseries which will sell them at concessional rates, for purchase of green manure seeds and fertilisers that should be regularly applied to the trees and for measures of plant protection to be taken under direction and advice of the Department. For the remaining 1,500 acres to be brought under homestead coconut cultivation in North and Middle Andamans, a subsidy of 50% will be allowed to private cultivators for the purchase of quality seedlings from Government nurseries.

4. As this is a continuing scheme from the Second Five Year Plan period, the allottees who came under the loan assistance scheme in that period will continue to receive loan assistance in the Third Plan for such period as to cover altogether a maximum period of seven years.

5. The following will be the financial estimates to operate over the Third Five Year Plan period:-

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Financial Estimates.

	<u>1961-62</u> ^{Rs} .	<u>1962-63</u> Rs.	<u>1963-64</u> Rs.	<u>1964-65</u> Rs.	<u>1965-66</u> Rs.	<u>Tota</u> . Rs.
Non-Recurring:						
1. Cost of clearing 1,555 acres of lland @ Rs.250/- per acre 542 acres in the 1st year, 513 acres the 2nd year, 250 acres in the third year and 250 in the fourth year.	- s in	128250	62500	62500	_	<b>3</b> 88750
2. Implements.	2000	~	-	-	-	2000
3. Residential accom- modation for three Agricultural Demonstrators.	24000	_	_	-	_	24000
Total Non-recurring:	161500	128750	62500	62500		414750
II. <u>Recurring:</u>	****					
1. Pay of three Agrii- cultural Demonstra- tors (One @ R.69/- p.m. and two @ R.60 p.m. in the scale of R.60-130) Special pay @ 3337. for one Demonstrato and @ 40% for two Demonstrators.	)/- of 2268	2376 893	2484 934	2592 975	2700 996	12420 4650
Dearness Allowance.	1980	1980	1980	1980	1980	<b>99</b> 00
2.Head Workers (three) @ R.80/-p.m. in the scale of R.35-1-60 including dearness allowance.		2916	2952	2988	3024	14760
3. Mazdoors (fifteen) @ R.75/- in the sca of R.30-35 includin Dearness allowance	ng	13590	13680	13770	13860	68400
4. Travelling alloward	ce. 1000	1000	1000	1000	1000	5000
Other charges.						
Miscellaneous contingencies.	3000	3000	3000	3000	3000	15000
Total Recurring:	25480	25755	26030	26305	26560	130130

# III. Loans and Subsidies.

1. Loan to cultivators
@ R.110/- per acre
(1st year 200 acres
cleared during 196061, 847 acres during

		-:	30 <b>:-</b>				:
		<u>1961-62</u> Rs.	<u>196;2-63</u> Rs.	<u>1963-64</u> Rs.	<u>1964-65</u> Rs.	<u>1965-66</u> Rs.	<u>Total</u> Rs.
	2nd year, <u>513</u> acres during 3rd year, 250 acres during 4th year and 250 acres during 5th ye	22000	93:170	56430	27500		226600
2.	Loan to cultivators @ Rs.80/- per acre f 2500 acres (vide appendix I for details)	or 35200	51200	118960	160000	172000	537360
З.	Subsidy to cultiva- tors @ 50% for the supply of Coconut seedlings for home-						
	stead cultivation.	2250	2,,500	2500	2500	2500	12250
Tot	al Loan & Subsity.	59450	146870	177890	190000	202000	776210
1.	Non-recurring Total	161500	1282250	62500	62500	_	414750
2.	Recurring Total:	25480	25775.5	26030	26305	2 <b>6</b> 560	130130
з.	Loan and subsidy.	59450	1468370	177890	190000	202000	776210
	Grand Total:	246430	3008;75	266420	278805	228560	1321090
-1	Loong @ Po OO /	:	APPENDIX	· Le			
<b>L</b> o	Loans @ Rs.80/- per acre for 100 acres planted in 1958-59.	<b>8</b> 000	80100	8000	8000	-	32000
2.	Loans @ Rs.80/- per acre for 340 acres planted in 1959-60.	27200	272(00	27200	27200	2 <b>720</b> 0	136000
З.	Loans @ Rs.110/- per acre for <b>34</b> @lst yea and Rs.80/- per acre for subsequent years for 200 acres to be planted in 1961-62.	l r	16000	16000	16000	16000	86000
4.	Loan @ Rs.110/- per acre for 1st year and @ Rs.80/- per acre for subsequent for 847 acres to be planted in 1962-		931770	67760	67760	67760	<b>29645</b> 0
5.	Loan @ R.110/- per acre for 1st year a @ R.80/- per acre f subsequent years for 513 acres to be pla ted in 1963-64.	or	-	56430	41040	41040	138510

		<u>1961-62</u> Rs.	<u>1962-63</u> Rs.	<u>1963-64</u> Rs.	<u>1964-65</u> Rs.	<u>1965-66</u> Rs.	<u>Tot</u> R
6.	Loan @ Rs.110/- per acre for 1st year and @ Rs.80/- per acre for subse- quent years for 250 acres to be planted in						
	1964-65.		-	-	27500	20000	479
7.	Loan @ Rs.110/- pe acre for 250 acre to be planted in						
	1965-66.	_		-	-	27500	27!
	Total Loan:	57200	144370	175390	187500	199500	763 ====

# AGRICULTURAL DEPARTMENT Andaman and Nicobar Islands.

<u>Name of Scheme</u>: DEVELOPMEN'T OF CCCONUT PLANTATIONS IN THE NICOBARS

Head ) O - Agriculture and Community Development Sub-Head ) OO - Agricultural Production. 7 - Special Commodity Programme.

#### Object of the Scheme:

. The Car Nicobar Island and some of the other Islands of the Nicobar group have extensive stretches under coconut which constitute the main source of food supply to the Nicobarese. Increasing the yield of individual trees as well as bringing into more general use of improved practices that would directly reflect in the improvement of individual farm units is of great topical importance to this tract. As things exist now, the coconut plantations are not planted to any systematic pattern nor are they managed on any rational basis. They are more or less Nature's gift left to remain as nature made them. Ripe nuts that fall on the soil germinate and turn into self-sown trees. Even if they are planted, they are entirely at the mercy of Nature's forces in so far as their future development and progress are concerned. A stage has now been reached, however, when the coconut trees on these Islands should not only continue to be a source of food for the Nicobarese who inhabit these Islands but also serve as a source of national wealth providing raw materials for the several industries such as oil, soap, coir and the like. As measures of possible improvement, there is the manifest need for marking out trees of good performance for raising of seedlings that should alone be used for future plantings, to adopt the optimum spacing, to protect the soil from forces of erosion to adopt systematic cultural practices such as inter culturing between trees, ploughing in of green manures and trenching in of coconut wastes such as husks, leaves etc. between the rows of trees, all of which have been tested elsewhere and found to promote the yields and health of the trees.

A special agency has to be created consisting of persons trained in the improved practices of cultivation of coconut and also provided with the necessary equipment such as implements, fertilisers, green manure seeds etc., etc. Nurseries have to be established in order to supply good seedlings. While this particular aspect is going to be dealt with in a separate scheme all the other items that have been detailed above would form the main planks on which the development scheme would rest. The Nicobarese are a scheduled tribe who are entitled for special protective measures for their development and will therefore be provided with plants, seeds and manures free of all charges.

Apart from the rehabilitation of the existing areas of the Nicobars, there is ample scope for further extension under this crop on extensive stretches of new land composed of good soil and characterised by plentiful of moisture and efficient drainage. The development scheme will have for one of its main objectives, extension of coconut planting over a fresh area of 1,000 acres. The land will be cleared of forest growth at Government expense and allotted to private parties who will not only plant the areas allotted to them with seedlings raised from Government nurseries but also adopt other improved practices that are advocated by the Department.

On the above premises, the following are the financial estimates for the execution of the scheme in the Third Plan:-

	<u>1961–62</u> Rs.	<u>196;2-63</u> Rs.	<u>1963-64</u> Rs.	<u>1964-65</u> Rs.	<u>1965-66</u> Rs.	<u>Total</u> . Rs.
Non-Recurring:						
1.Residential accommodation for 1 Agricul- tural Inspector and 3 Agricul- tural Demonstra-						
tors.	48,000	-	-	<b>-</b> ,	-	48,000
2. Furniture.	500	-	-	-	-	500
3.Cost of 2 dinghies and 2 out board motors.	4,000	~	-	-	-	4,000
4.Cost of clearance of 1000 acres of land @ Rs.300/- per acre(200						
acres per year)	60,000	60,000	60,000	60,000	60,000	3,00,000
Total Non- Recurring. 1	.12,500	<u>60_,000</u>	60,000	60,000	60,000	3,52,501
Recurring: 1. Pay 1.Agricultural Inspector(1) in the scale of Rs.160-10- 330.	1,920	2:,040	2,160	2,280	2,400	10,800
Nicobar Special Pay. @ 45%	864	918	972	1,026	1,080	4,860
Dearness Allowance.	840	840	900	900	900	4 <b>,</b> 380
2.Agricultural Demonstrators(3 @ Rs.60/- in the scale of Rs.60-1	)	2,268	2,376	2,484	2,592	11,880
Nicobar Special Pay @ 45%	972	11,020	1,069	1 <b>,1</b> 18	1,166	5,348
Dearness Allowance.	1,980	11,980	1,980	2,160	2,160	10,260
3.Peon (1) in the scale of $\mathbb{R} \cdot 30 - \frac{1}{2} - 35$	360	366	372	378	384	1,864
Dearness Allowance.	540	540	540	540	540	2,70

	<u>1961-62</u> Rs.	<u>1962–63</u> Rs.	<u>1963–64</u> Rs.	<u>1964-65</u> Rs.	<u>1965–66</u> Rs.	<u>Total</u> . Rs.
4.Mazdoors(15) in the scale of $\mathbb{R}_{\cdot}30-\frac{1}{2}-35$ .	5,400	5,490	5 <b>,</b> 580	5,670	5,760	27 <b>,</b> 90(
Dearness Allowance.	8,100	8,100	8,100	8,100	8,100	40,50
<u>II.Allowances</u> <u>and Honoraria</u> . Travelling Allowances.	l,000	1,000	1,000	1,000	1,000	5,00
III.Other Charg	<u>0.5</u>	-	-			
1. Manures etc.	5,000	5,000	5,000	5,000	5,000	25,00
2.Miscellaneous contingencies.	1,000	1,000	1,000	1,000	1,000	5,00
Total Recurring	.30,136	30,562	31,049	3, <b>1,6</b> 53	32,082	<b>1,</b> 55,48
Total Non- Recurring. 1 Total	,12,500	60,000	60,000	60,000	60,000	3,52,50
Recurring	30,136	30,562	31,049	31,656	32,082	<b>1,</b> 55,48
Grand Total. 1	,42,636	90,562	91,049	91,656	92,082	5,07,98

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AGRICULTURAL DEPARTMENT, Andaman and Nicobar Islands.

Name of the Scheme:	SCHEME FOR THE ESTABLISHMENT OF
and the second se	COCONUT NURSERIES FOR THE AN DAMAN
	AND NICOBAR ISLANDS.

Head	)	()	-	Agriculture and Community Development.
	)	0(0	-	Agricultural Production.
Sub-Head	)	7		Special Commodity Programme.

#### Object of the Scheme:

Two major schemes for improving the existing coconut plantations by replanting vacancies and replacing unproductive palms and for extending coconut cultivation in new areas have been separately formulated. To operate these schemes successfully it is incumbent to have a sufficiency of seedlings raised from selected parent trees of known performance. It also raises the question of transport of such plant material to widespread areas. The most practical manner of meeting the supplies of each separate region or tract lies in the establishment of a nursery in each such locality. In so far the Nicobar Islands are concerned, the coconut nursery can also be pressed into service for the production of arecanut seedlings as well from the same site.

2. Under this scheme, it is proposed to establish four coconut nurseries to serve the South, Middle and North Andamans; and the Nicobar Islands. Each nursery will extend over 2 acres and will produce 12,000 seedlings annually. The Nicobar nursery will not only produce 12,000 coconut seedlings but also 6,000 arecanut seedlings annually. The staff will consist of a Demonstrator incharge of each of these units helped by one Head Worker and 5 mazdoors. The normal staff of the Coconut Development Officer will be responsible for locating the parent trees from which the seed material will be procured and taken over for planting in the nurseries. The Horticultural Officer will help in the location of promising parent material of arecanut. The coccant seedlings will be made available at a concessional rate of 0.25 np. each in so far as the Andamans are concerned but will be supplied free to the Nicobarese as they are declared to be a Scheduled Tribe and are entitled to such a concession. The financial estimates based on the above premises is as follow:

Financial Esttimat	es.					
Non-Recurring:	<u>1961-62</u> Rs.	<u>1962-63</u> Rs.	<u>1963-64</u> Rs.	<u>1964-65</u> Rs.	<u>1965-60</u> Rs.	<u>6 Total</u> . Rs.
l.Residential accommodation for four Agr:i- cultural Demon-						
strators.	24,000	-	<b>6</b> 3	-	~	24,000
2.Implements.	2,000	-			<u> </u>	2,000
Total.	26,000			~		26,00(
Recurring: 1.Pay of four Agricultural Demonstrator:s on Rs.69/-p.m in the scale of Rs.60-3-81-EB-4-						
125-5-130.	3,312	3,456	3,600	3,744	3,888	18,000

1	961-62 ^{Rs} .	<u>1962–6:3</u> ^{Rs} •	<u>1963–64</u> Rs.	<u>1964-6</u> ^{Rs} •	5 <u>1965-6</u> Rs•	<u>6- Total</u> . Rs.
2.Andaman Special Pay for one Agri- cultural Demonstr- ator, Middle & Nor Andaman Special P for two Demonstra- tors and Nicobar Special Pay for or Demonstrator.	th ay ne	1 <b>,37</b> 3;	1,410	l,487	1,544	7,130
3. Dearness Allow- ance.	2,700	2,820)	2,880	2,880	<b>2,</b> 880	14,160
4.Head Workers(Fou on Rs.80/- p.m. i the scale of Rs.3 1-50 including Dearness Allowar	n 35- 3,840	3,8883	3,936	3,984	4,032	19,680
5.Mazdoors(20) on Rs.75/- p.m. in the scale of Rs.30-2-35 including Dearness Allowance.	5	18,120)	18,240	18 <b>,3</b> 60	<b>1</b> 8,480	<b>91,</b> 200
6.Travelling Allowance.	1,000	1,000)	l,000	1,000	1,000	5,000
7.Cost of 70,000 seed coconuts @ Rs.250/- per thousand.	17,500	17,500)	17,500	1 <b>7,</b> 500	17 <b>,50</b> 0	87,500
8.Cost of 10,000 areca seed nuts @ Rs.3/- per 100 nuts.	300	300)	300	300	300	1,500
9. Miscellaneous contingencies.	2,000	2000)	2,000	2,000	2,000	10,000
Récurring Total.	49,963	E0,457?	50,866	51,255	51,624	2,54,170
Non-Recurring Total.	26,000				-	<b>26,</b> 000
Recurring Total.	<u>49,968</u>	50,4577	50,866	<u>51,255</u>	51,624	2,54,170
Grand Total.	75,968	50 <b>,457</b> 7	50,866	51,258	5 51,6 <b>2</b> 4	2,80,170

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AGRICULTURAL DEPARTMENT, Andaman and Nicobar Islands. ***

the <u>Name of/Scheme</u>: DEPUTING SELECTED NICOBARESE TO THE MAINLAND FOR A STUDY TOUR OF THE COCONUT STATIONS AND PLANTATIONS ON THE WEST COAST.

Head	)	0	 Agriculture and Community Development.
Sub-Head	)	00	 Agricultural Production.
		9	 Miscellaneous.

#### Object of the Scheme:

The Nicobarese have lived amidst coconut plantations from time immemorial and in fact the coconut constitutes their staple food. Being an easily contented happy-go-lucky race, they hardly even pondered over the possibilities of improving upon the present conditions under which their chief source of food is being garnered. The impact of scientific thought, direction and association has been singularly absent so far due to the distance that has scparated the Nicobars from the mainland and also in part, due to the natural reluctance of these simple people to exert themselves to learn something new and benefit thereby. It is felt that a change has now to be brought about at least in so far as the coconut plantations are concerned because apart from providing food for the islanders, the extensive stretches of this most useful of plant species set in ideal surroundings for its development is a rich source of national wealth. The development is a rich source of national wealth. The Nicobarese, however, are a people who do not like too much of obtrusion from outside and though developmental schemes for rehabilitation of the existing trees and extension of plantings over fresh areas have all been formulated, it is felt that unless the Nicobarese are themselves enthused to take up these activities the progress would at best be halting. A practical method of meeting this situation and putting across the pro-gressive ideas on to the Nicobarese in an effective manner is considered to lie in sending selected batches of Nicobarese young men who are receptive to new ideas and motives to the mainland for study tour of the coconut stations on the West Cost belonging of the coconut stations on the West Cost belonging to the Indian Central Coconut Committee, Kerala Agricultural Department and to coconut plantations on the Kerala State where conditions are more or less similar to those prevalent on the Nicobars. It is hoped that these batches on return will spread the message of what they saw and which they feel could permeate into the lives of their own plantations.

Under the proposed scheme, batches of five Nicobarese drawn from the different parts of Car Nicobar and from the several Nicobar Islands, will be deputed every month from December to March to the West Coast of India and visit the Central Coconut Research Stations at Kasargod and Kayamkulam as well as the coconut stations of the Kerala State, Agricultural Department at Nileswar and Pilicode. They will also visit some coconut plantations in Kerala and Coastal Mysore State (Mangalore). The total period of their deputation including the journey days will extend over a month. Their passage expenses to the mainland and their travelling expenses there as well as other actual expenses will be met by the Government. An overall lumpsum provision of Fs.5500/- for each person has been made. While it is expected that the reception on the mainland and guidance during journeys and visits to stations will be arranged by the concerned State Governments and the Indian Central Coconut Committee, each batch will be led by an Agricultural Inspector of the Andaman Administration who will incidentally benefit also by these educational visits to centres of research. On the above basis the financial estimates will be as follows:-

Financiall Estimates.

Non-Recurring:			•	Nil		
Recurring:	<u>1961–62</u> ^{Ps} .	<u>1962-63</u> Ìs.	<u>1963-64</u> R.	<u>1964-65</u> Fs.	<u>1965–66</u> ^{Rs} .	5 <u>Total</u> . Fs.
1.Lump sum pro- vision for deputation of four batches of five Nicobareses to be sent in each year to the mai land for visits to coconut sta- tions and plant tions @ N.500/- each.	n- ;a-	10,000	1.0,000	10,000 1	0 <b>,00</b> 0	5 <b>0,0</b> 00
2.Travelling allowance of Agricultural Inspector accompanying each batch (lump sum)	500	500	500	500	500	2,500
Total.	10,500	10,500	110,500	10,500 1	.0,500	52,500

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AGR ICULTURAL DEP'AR TMENT Andaman and Nicobair Islands.

<u>Name of the Scheme</u>: SCHEME FOR THE ESTABLISHMENT OF PROGENY C)RCHARD-CULI-NURSERIES.

Head	)	0		Agriculture and Community Development.
	)	00	514	Agricultural Production.
Sub-head	)	6	-	Horticulture.

#### Object of the Scheme:

The Andaman and Nicobar Islands are deficient in the production of vogetables and fruits which are essential protective foods that are required to keep the people healthy. Horticultural development however, on systematic lines takes a long period to accomplish, because most of the fruits thatt are of any commercial importance are perennial in natture and come to bearing only after a period of years. Even the cultivation of short term crops like the quick-growing banana, pineapple and papaya need for their extension, plant and seed materials that take time for their multiplication adequately to meet all the requirements of the several areas comprising these Islands. With perennial fruit trees, this problem is further accentuated because not only a nucleus of high yielding parent trees has to be first established but their yield and quality performance has to be studied over a minimum period of three years before they are used for propagation of nursery stocks. In respect of vegetables, the problem is not; very much dissimilar. The number of varieties in each kind of vegetable is very large and it is generally necessary to test several before fixing those particular types that are suitable for each tract or region. These several objectives are gained by the establishment as early as possible of Progeny Orchard-cum-Nurseries in suitable localities so that the most suitable types are pitched upon and their progeny multiplied and distributed to the growers.

2. In the first stage of Horticultural expansion in the Andaman and Nicobar Isllands, recourse has had largely to be taken for obtaining plants and seeds from the mainland for direct supply to the growers. The pace of development has now become faster and the department cannot depend for fits requirement on outside sources. An agency has to be set up in each of the different regions to cater to the local needs. It is proposed under this scheme to establish four Progeny Orchard cum Nürseries, to serve the South, Middle and North Andamans and the Nicobar Islands. Each of these units will extend over 20 acres in which perennial fruit treec of regional suitability and of known performance and qualkty will be established. Their clonal progeny will be propagated and made available to the colonists as well as others who wish to go in for fruit growing on a more extensive scale. In respect of short term crops including; vegetables also, these units will multiply the propagation materials and seeds for supply to cultivators. A part of the area in each of these units will be set upart for the Economic Botanist who may wish to examine the performance of new varieties and kinds of fruits and vegetables under differing conditions of soil and other environmental factors. These centres will adopt standardised practices of cultivation and will endeavour to serve as centres of ocular demonstration of good plan husbandry to the farmers.

Non-Recurring:	<u>1961-62</u> Fs.	<u>1962-63</u> Fs.	<u>1963-64</u> Ps.	<u>1964-65</u> Fs.	<u>1965-66</u> Ps.	Total.
1.Residential Buildings.	<b>30,0</b> 00	_	_	-	_	30,00(
2.Stores cum packing sheds.	12,000	-	-	-	-	12,000
3.Tools, imple- ments and other	2 400					2,40(
equipments. 4.Furniture.	2,400 400	-	-	-	-	400
5.Fencing and terracking.	20,000	-	**	-	_	20,000
6.Live hedges and wind breaks	1,000		-	-		1,000
7.Providing irrigation facilities including construction of channels.	6,000		_	_	<b>-</b>	6,00
Total Non- Recurring.	71,800					71,80
II.Recurring:					ور المراجع ا	
1.Agricultural Demonstrators (4) @ Fs.60/p.m. Andaman Special	<u>/</u> 2 <b>,</b> 880	3,024	3,168	3,312	3,456	15,84
Pay @ 33 <del>3</del> %(for one) <del>.</del>	240	252	264	2 <b>7</b> 6	288	1,32(
Middle Andaman Special Pay @ 40% (for two)	576	604	632	660	688	3,16
Nicobar Special Pay @ 45%(for on	ie) 324	- 340	356	372	388	1,731
Dearness Allowar	•	2,640	2,640	2,640	2,640	13,20
Travelling allowance.	1,000	1,000	1,000	1,000	1,000	5,00
2.Headworkers(4) in the scale of	ł		•	-		
B-35-50 Dearness	1,680	1,728	1,776	1,824	1,872	8,88
allowance.	2,160	2,160	2,160	2,160	2,160	10,80
3.Mazdoors(40) in the scale of Es.30-35.	14,400	14,640	14,880	15,120	15,360	74,40
Dearness allowance.	21,600	21,600	21,600	21.600	21,600	1,08,00
4. <u>Other charges</u> i)Cost of plan- ting materials. ii)Miscellaneous	2,000	2,000	2,000	2,000	2,000	10,00
contingencies.	1,000	1,000	1,000	1,000	1,000	5,00
Total recurring. Non-Recurringtot		50,983	51,476	51,964	52,452	71,80
Recurring Total. Grand Total.		50,988 50,933	51,476 51,476	51,964 51,964	52,452 52,452	2,57,38 3,29,18
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AGR ICUL TURAL DEPAR TMENT, Andaman and Nicobar Islands.

<u>Name of the Scheme</u>: SCHEME FOR DEMONSTRATION OF INTENSIVE CULTIVATION OF HORTICULTURAL CROPS.

Head and ) O - Agriculture and Community Development Sub-Head ) OO - Agricultural Production. 9 - Miscellaneous.

#### Object of the Scheme #

This scheme will deal exclusively in advising the cultivators on improved practices particularly in respect of horticultural crops that they may be advised to grow newly and with those which are not familiar to them. In so far as vegetables are concerned, the scheme will endeavour to show the way of maximising the production per unit area so as to make the most out of the relatively small area which is all that he could devote for this category of crops. The appropriate number of preliminary cultivations, the manures to be applied, the frequency of inter-culture and irrigation, the optimum seed rates, the profitable varieties to grow in each separate season, the nature of post-harvest treatment to be given to the produce so that it can reach the consumer without losses and in good condition the rotations that are to be adopted, the mixed crops that could be grown in one and the same situation in each season, all these would form the several items on which the campaign for intensive cultivation would be launched.

2. The cost of vegetable seeds, seedlings, fruit plants and other nursery stock to be supplied to the growers will be subsidized to an extent of 50 percent. Those cultivators who are desirous of laying out orchards an acre or more in extent will be offered loans at a maximum rate of Fs.250/- per acre to meet the initial heavy outlay.

3. On these premises, the estimates will be as follows:-

	· · · ·					
	1961-62 Ps.	<u>1962-63</u> F.	<u>1963-64</u> Fs.	<u>1964-65</u> Fs.	<u>1965-66</u> Ps.	<u>Total</u> . Fs.
I. <u>Non</u> - Recurring.						
1.Purchase of implement and equipment						
	1,000	1,000		<b>7</b> 3		2,000
Total Non- Recurring.	1,000	1,000	614 		<b></b>	2,000
II. <u>Recurrin</u> Pay of stat 1.Agricultu demonstrato (four) in scale of	ff ural ors the	,				
R.60-130 @ R.60/-p.m. Andaman		3,024	3,168	3 <b>,312</b>	3,456	15,840
Special Pa @ 33 <del>3</del> %	y 960	1,008	1 <b>,05</b> 6	- 1,104	1,152	5,280

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	<u>1961-62</u> Fs.	<u>1962-63</u> Rs.	<u>1963-64</u> Fs.	<u>1964-65</u> ^{Rs} .	<u>1965-66</u> Fs.	<u>Total</u> Fs.
Dearness Allowance.	2,640	2,640	2,640	2,640	2,640	13,20
2.Travelling Allowance.	1,200	1,200	1,200	1,200	1,200	6,00
3.Head workers (4 Nos) in the grade of E.35- 1-50.	1,680	,1 <b>,</b> 723	1,776	1,824	1,872	8,88
Dearness Allowance.	2,160	2,160	2,160	2,160	2,160	10,80
4.Mazdoors 20 Nos. @ Fs.75/- p.m.	18,000	18,000	18,000	18,000	18,000	90,00
5.Purchase of vegetable seeds fruit plants and seeds. Miscellaneous	3,000	3,000	3,000	3,000	3,000	15,00
contingencies. Total Recurring.	500	500 33,260	500 33,500	500 33,740	500 33,980	2,50
<u>Subsidi</u> cs 50% subsidy for						
vegetable seeds, seedlings fruit plants and seeds.	3,000	3,000	3,000	3,000	3,000	15,00
fruit plants and	e) 12,500	12,500	12,500	12,500	12,500	62,50
seedlings fruit plants and seeds. 2.Loan to culti- vators for grow- ing fruit plants on large scale (more than 1 acr \$250/-per acre	e)	·	• •	·	·	-
seedlings fruit plants and seeds. 2.Loan to culti- vators for grow- ing fruit plants on large scale (more than 1 acr \$250/-per acre Total loan and subsid ies. Non-Recurring)	e) 12,500	12,500	12,500	12,500	12,500	62,50
seedlings fruit plants and seeds. 2.Loan to culti- vators for grow- ing fruit plants on large scale (more than 1 acr @\$250/-per acre Total loan and subsidies.	e) <u>12,500</u> <u>15,500</u> 1,000	<u>12,500</u> 15,500	12,500	12,500	12,500	<u>62,50</u> 77,50 2,00
seedlings fruit plants and seeds. 2.Loan to culti- vators for grow- ing fruit plants on large scale (more than 1 acr \$250/-per acre Total loan and subsid ies. Non-Recurring) Total )	e) 12,500 15,500 1,000 33,020	<u>12,500</u> 15.500 1,000	12,500 15,500	12.500 15,500	12,500 15,500 - 33, <b>980</b> 15,500	62,50 77,50 2,00 1,67,50 77,50
seedlings fruit plants and seeds. 2.Loan to culti- vators for grow- ing fruit plants on large scale (more than 1 acr (more than 1 acr) (more than 1 acr (more than 1 acr) (more than 1 a	e) <u>12,500</u> <u>15,500</u> 1,000 33,020 <b>ies</b>	<u>12,500</u> 15.500 1,000 33,260	12,500 15,500 - 33,500	12.500 15,500 - 33,740	12,500 15,500 - 33, <b>980</b> 15,500	62,50 77,50 2,00 1,67,50

#### AGRICULTURAL DEPARTMENT; Andaman and Nicobar Islands. ***

Name of t	the S	cheme:	DEVELOP	MENT OF	CASHE	WNUT IN
			ANDAMAN	AND NIC	COBAR	ISLANDS.
Head	) 0	- Agric	ulture a	nd Comm	nity	Development.
	) 00	- Agric	ultural	Product:	ion.	_
Sub-Head	) 7	🖌 - Speci	al Commo	dity Pro	ogramm	le.

#### Object of the Scheme.

The cashew is fairly wide-spread on the Andaman and Nicobar Islands. The trees of the species grow to fair height and are seen to bear satisfactory crops in most of the situations wherever they are found in a natural state. There is little doubt that the cashew can be grown on these Islands to serve more than one purpose such as to provide wind protection belts around the home-steads of the colonists, to cover waste lands that are not suitable for arable crop culture and to develop quickly a tree canopy over the exposed hill-sides that are under afforestation by the Forest Department. While, therefore, the cashew has these several particular uses on these Islands, in the larger context of its dollar earning capacity, for which special development schemes have been put into operation in the mainland, its extensive cultivation on the Andamans will be of special significance. In the third Five Year Blan the Ardaman and Nicebar Isla the third Five Year Plan the Andaran and Nicobar Islands can as a first effort in this direction, plant one lakh of trees to yield roughly about 250 tons of produce towards the end of the plan. Further extension can follow later on after gaining experience of the cultural needs of this crop when planted on an extended basis. Under the scheme now proposed, the superior yielding trees on the islands will be spotted out and the nuts collected therefrom will be utilised for sowing purposes. Wild pigs which abound on the islands will prove a menace as they will damage the sprouting seeds for eating the fleshy cotyledons. To avoid this feature, it will be necessary to raise the scedlings in baskets in protected nurseries and set them out in their permanent sites when they are sufficiently grown. The basket nurseries will be established at the Horticultural Farm, Haddo and also at the Progeny Orchard cum nurseries proposed to be set up elsewhere on the Islands. The seedlings will be supplied to those cultivators who take them either for homestead planting or for planting more extensively in solid blocks. The planting on peramboke land as well as forest areas under regeneration will be undertaken by the depart-ment itself. The seed nuts will be gathered from selected trees among those flourishing on the Islands including the ones at Mount Hatton cashew plantation belonging to the department.

Financial Estimates.

	1961-62	1962-63	1963-64	<u>1964-65</u>	<u> 1965–66</u>	Total.		
	Fs.	P5.	Es.	Ps.	Es.	Ps∎		
I. Non-Recurring		<b></b>	I	Vil		·		

<u>1961–62</u> Ps.	<u>1962–63</u> Fs.	<u>1963-64</u>	<u>1964–65</u> Rs.	1965-66 B.	Total Fs.
<b>.</b> 500	500	500	500	500	2,500
s.5 <b>,</b> 000	5,000	5,000	5,000	5,000	25,000
1,000	1,000	1,000	1,000	1,000	5,000
	6,500	6,500	6,500	6,500	32,500
6,500	6,500	6,500	6,500	6,500	32,500
	Ps. 500 5.5,000 <u>1,000</u> 6,500	Ps. Ps. 500 500 5.5,000 5,000 <u>1,000 1,000</u> 6,500 6,500	Ps.       Ps.       Ps.       Ps. $500$ $500$ $500$ $5.5,000$ $5,000$ $5,000$ 2 $1,000$ $1,000$ $6,500$ $6,500$ $6,500$	Ps.       Rs.       Fs.       Fs.       Fs. $500$ $500$ $500$ $500$ $5.5,000$ $5,000$ $5,000$ $5,000$ $1,000$ $1,000$ $1,000$ $1,000$ $6,500$ $6,500$ $6,500$ $6,500$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

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# AGRICULTURAL DEPARTMENT ANDAMAN AND NICOBAR ISLANDS

Name of scheme: ARECANUT DEVELOPMENT SCHEME

Head & Ø O- Agriculture and Community Development Sub-head OO- Agricultural Production 7- Special Commodity Programme

#### 1. Object of the scheme

During the Secondi Plan period, a scheme for arecanut development was undertaken in collaboration with the Indian Central Arecanutt Committee, Kozhikode as a normal item of work. While non-rescurring expenditure of the scheme was to be met wholly by thils Administration the recurring expenditure was to be shareed on 50:50 basis between it and the Indian Central Arecanutt Committee. 1,11,000 seed nuts were sown in the nursery set up under the scheme up to the end of 1959-60 and another 64,000 seed nuts will have been sown by the end of 1960-61, raising the total number to 1,75,000. The number of seedlings supplied to cultivators up to the end of June 1960 was 68,355. The distribution of more seedlings will continue during the remaining period of the Second Plan. Altogether an area of about 100 acres will have been brought under arecanut cultivation through private enterprise by the end of Second Plan.

With a view to encouraging and further extending arecanut cultivation, the scheme envisages the supply of 2,32,000 arecanut seedlings: raised from selected parent trees of known performance to private growers at concession rate during the Thirdl Plan. The seedlings will be raised in the four nurseries to be established at suitable places spread over the Islands. Technical advice and guidance will be provided firee of charge.

	<u>1961-62</u> Rs.	<u>19652-63</u> Rs.	<u>1963-6</u> Rs.	4 <u>1964</u> - ^{Rs}	<u>-65 1965-66</u> Rs.	<u>Total</u> Rs.
Non-recurring						
Residential quarter for Agrl. Demons- trator	8,000			_		8 000
····						8,000
Total Ncn-re-) curring )	8,000		9-21	-	-	8,000
Recurring 1. Pay of staff A. Agricultural Demonstrator on Rs. 60/- p.m. in the scale of Rs. 60-3-81-EB-						
4-125-5-130	720	756	792	828	864	3,960
Andaman Spl. pay @ 333% D.Allowance B. Head Workers (2) on Rs. 35/- in the scale of Rs. 35-1-50 incl	pm <del>.</del>	252 66 <b>6</b>	264 66C	276 660	288 660	1,320 3,300
3		,944 1	,968 1	,992 2	,016	9,840

	<u>1961-62</u> ^{Rs.}	<u>.1962-63</u> Rs•	<u>1963–64</u> Rs•.	<u>1964-65</u> Rs.	<u>1965-66</u> Rs•	Total Rs.
C) Mazdoor (10)in the scale of Rs.30 2-35 including Dearness Allow- ance.		⁽⁹ ,060	<u>9</u> ,120	9,180 -	9,240	45,600
II. <u>Allowance</u> .		¥.	* **			
Travelling Allowance.	360	360 -	- 360	360	360	1,800
III.Other Charges	•					
1.Purchase of implements.	200	200	200	200	200	1,000
2.Purchase of Arecanut seednuts,	3,600	3,600	3 <b>,</b> 600	3 <b>,6</b> 00	3,600	18,000
3.Misc. contingencies.	200	200	200	200	; 200	1,00(
Total Recurring.	16,900	1.7,032	17,164	17,296	17,428	85,82(
Non-Recurring Total. Recurring Total.	8,000 16,900	1'7.032	17,164	17,296	17,428	8,00' 85,82'
Grand Total.	24,900	17,032	17.164	17,296	17,428	93,82

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#### AGRICULTURAL DEPARTMENT Andaman and Nicobar Islands. ***

Name of the Scheme: DEVELOPMENT OF PINEAPPLE CULTIVATION AND ESTABLISHMENT OF A CANNING UNIT.

Head ) O - Agriculture and Community Development. Sub-Head ) OO - Agricultural Production. 9 - Miscellaneous.

#### Object of the Scheme.

The pineapple has taken kindly to the Andaman and Nicobar Islands and it is seen that even under rainfed conditions, it puts on vigorous growth and bears fair size fruits. Under intelligent management, it will be safe to predict that the performance of this fruit will in no way be inferior to that met with under similar conditions on the southern west coast of the mainland. In the Colonisation scheme of the Andaman and Nicobar Islands every family is expected to be allotted with five acres of hilly land for fruit crops and pine-apple would be an ideal crop to grow in a part of it as it can be treated as a cash crop to bring the cultivator a money return which he will require for the necessities of life that cannot be produced on the farm. The suckers required for planting by the growers will be arranged to be supplied from the pine-apple nursery at Sipighat. The pine-apple fruits can all be made available to a canning unit that is proposed to go hand in hand with the extension of pine-apple cultivation. This will be established at Port Blair where alone all the prerequisites for operating a products factory are at present available,

2. Canned pine-apple slices and juice are two products which are in universal favour on the mainland and there is a wide market for them. The Andanan and Nicobar Islands can therefore establish a pilot scheme on a very remunerative basis. Incidentally it may be mentioned that the unit that is established now for handling pineapple can in due course be made to serve to manufacture other fruit products such as jam, jellis, squashes etc. with the additional equipment to the extent necessary.

3. The following are the financial estimates for operating this scheme. They are subject to alteration depending upon the current availability of the listed equipment and the prevalent rates at which they are sold in the market.

#### ESTIMATED EXPENDITURE.

Non-Recurring	<u>1961-62</u> Rs.	<u>1962-63</u> ^{Rs} .	<u>1963-64</u> Rs.	<u>1964-65</u> Rs.	<u>1965-66</u> Rs.	Total. Rs.
1.Construction of Fly-proof cannery.	15,000					15,000
2.Shed for	10,000		-	-	-	<b>9000</b>
Boiler.	2,500	-	-	-	-	2,500

	<u>1961-62</u> Rs.	<u>1962-63</u> Rs.	<u>1963-64</u> Rs.	<u>1964-65</u> _{Ps} .	<u>1965-66</u> Rs•	Total Rs.
3.Construction of a testing Labora- tory cum office cum Store.	10,000	-	-	-	_	10,000
4.Cost of furniture.	500	_	-	-	-	500
5.Quarters for Canning Assistant and analytical chemical Assistant.	nt 20,000	-	-	-	-	20,000
6.Purchase of complete canning unit comprising a peeling-coring and Slicing machi a syruping unit, a exhaust box, a ca body reforming- flanging and sealing assembly, a cooking (Steri- lizing) tank and a Cooling tank.	n		-	_	-	20,00
7.Complete juicin unit comprising a crusher, a pulper a Press, a flesh pasteuriser and a bottle filling- and-closing	ະ •				_	20,0(
assembly. 8.Syrup making tank and vessels	20,000 4,000		-	-	_	4,04
with steam coils. 9.Two Stean jacke pans or Kettles f jams tilting type 20 gallons capaci	eted for		-	-	-	4,0
10.Stean boiler, 100 P.S.I working Pressure with accessories including distribution piping.	6 <b>,5</b> 00	) _	_	_	-	6,5
ll.Work tables, juice barrels, carboys, Water Supply piping, Electrical appliances and other factory						
services. 12.Laboratory equipment in- cluding gas, running water steam services,	4,000	) -	-	-	~	4,(
work tables, a refractometer.	10,000	) -	-	-	-	10,0

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		<u>1961-62</u> Rs.	<u>1962–63</u> Rs.	<u>1963-64</u> Rs.	<u>1964–65</u> Rs.	<u>1965-66 Total</u> . Rs. Rs.
	Other ancilla: equipment		_			- 1,500
	Non- ) Recurring) 1 Total. ) —	,18,000				- 1,18,000
	Recurring					
	Pay of canning Assistant in the scale of Rs.160-10- 330.	1,920	2,040	2,160	2,280	2,400 10,800
	Andaman Speci Pay @ $33\frac{1}{3}\%$ .	•	680	720	760	800 3,600
	Dearness	040	0.00	(20	700	800 - 5,000
	Allowance.	840	84(0	840	840	840 4,200
2.	Pay of Analyt cal Chemical Assistant in the scale of Rs.160-10-330.		2,04(0	2,160	2,280	2,400 10,800
	Andanan Speci Pay @ 33 ¹ / ₃ %	al 640	68(0	720	760	800 3,600
	Dearness Allowance.	840	84(0	840	840 ´	840 4,200
3.	Pay of Demons tor (one) in scale of Rs.60	the	7516	792	82 <b>8</b>	8 <b>6</b> 4 • 3,960
	Andanan Speci Pay @ 33 <del>3</del> %	ial 240	25:2	264	276	288. <b>1,</b> 320
	Dearness Allowance.	660	<b>6</b> 6;0	<b>6</b> 60	660	660 3,300
4.	Boiler Attend in the scale Rs.40-60 inclu Dearness Allowance.	of	1,044	1,068	1,092	<b>1,116</b> . <b>5,</b> 340
5.	Mechanic-cum- electrician : the scale of Rs.40-60 inclu- ding Dearness Allowance.	in <b>u-</b>	1,044	1,068	1,092	<b>1,116</b> 5,340
6.	Helpers (2) the scale of Rs.35-1-50 including Dearness Allowance.		1,944	1,968	1,992	<b>2,016 9,</b> 840
	Travelling		·	-	ŕ	500 2,500
7.	Allowance. Seasonal Labourers an Miscellaneou contingencie	S	500 2,000	500 2 <b>,</b> 000	500 2,000	2,000 10,000

	<u>1961-62</u> Rs.	<u>1996;2-63</u> Rs;.	<u>1963-64</u> Rs.	<u>1964-65</u> Rs.	<u>1965-66</u> <u>Total</u> . R. R.	
8. Purchase of sugar, acids, other materia including can						
bottles, jars		10,000	10,000	10,000	10,000 50,000	,
Total Recurring.	24,880	25,320	25,760	26,200	26,640 <b>128,8</b> 00	
Non-Recurring Total.	1,18,000	~	-	<b>_</b> '	- 1,18,000	
Recurring Total.	24,880	2:5,320	25,760	26,200	26,640 128,800	
Grand Total.	1,42,880	2:5 _{:,} 320	25,760	26,200	26,640 2,46,800	

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AGRICULTURAIL DEPARTMENT Andaman and Nicobar Islands.

Name of the Scheme: LAC CULTIVATION IN ANDAMANS

Head and	)	0		Agriculture and Community Development.
Sub-Head	)	00	-	Agricultural Production.
		7	-	Special Commodity Programmes.

#### 1. Object of the Scheme:

The object of the scheme is to develop lac cultivation in the Andaman Islands.

At the instance of this Administration, the Indian Council of Agricultural Research, New Delhi deputed the Lac Extension (Officer of the Indian Lac Cess Committee to these Islands in November 1959 to find out the possibilities of lac cultivation. In his opinion, conditions in the Andaman Islands are favourable for cultivation of lac. The scheme suggested by him in this connection is set out in Appendix A, which has been adopted in toto except that the following modifications necessitated by the local conditions have been made in its staffing pattern.

(i) In place of Lac Development Inspector in the grade of Rs.100-5-130-EB-6-190, provision has been made for the post of an Agricultural Inspector (Lac) in the scale of Rs.180-10-330.

(ii) In place of 3 posts of Supervisors in the scale of Rs.45-2-65-EB-1-75, provision has been made for 3 posts of Agricultural Demonstrators (Lac) in the scale of Rs.60-3-81-EB-4-125-5-130.

(iii) Instead of 3 Lac Guards, provision has been made for 3 Watchmen in the scale of Rs.30-2-35.

2(i) Estimated Expenditure.

I <u>N</u>	on-Recurring.	<u>1961–62</u> R,	<u>.1962-63</u> %.	<u>1962-64</u> Rs.	<u>1.964-65</u> Rs.	<u>1965-66</u> Rs.	Total. Rs.
f c s a A I	Accommodation For one Agri- cultural In- spector (Lac) and three Agricultural Demonstrators (Lac).	5,000	20,000	10,000	_	_	35,000
	Farn Stores	0,000	20,000	10,000			
	on the three stations.	15,000	-	-	-	-	15,000
(c)	Equipment, for three Centres.	300	600	600	600	600	2,700
(d)	Cost of brood	1 -	1,500	-	-	-	1,500
(e)	Misc. contingencies	<u> </u>	2,000	2,000	2,000	2,000	8,300
	Total Non- Recurring.	20,600	24,100	12,600	2,600	2,600	62,500
II.	Recurring						

Pay & Allowances of staff

	<u>1961–62</u> Rs.	<u>1962–6:3</u> Rs.	<u>1963-64</u> Rs.	<u>1964-65</u> Rs.	<u>1965-66</u> Rs•	<u>Total</u> . Rs.
(i) Agricultural Inspector (Lac) (1) in the scale of Rs.160-10-330	1,920	2,040	2,160	2,280	2,400	10,800
Andaman Speci	•	290-10	2,100	29200	29400	10,000
Pay $@ Rs. 33\frac{1}{3}\%$ .	640	680	720	760	800	3,600
Dearness Allowance.	840	840	840	840	840	4,200
(ii)Agricultur <b>al</b> Denonstrators (Lac)(3)in the scale of Rs.60-130.	2,160	2,268	2,376	2,484	2 <b>,592</b>	11,880
Dearness Allowance.	1,980	1,980	1,980	1,980	1,980	9,900
(iii)Watchmen(Lac (3) in the		_,	_,	2,-00	_,	•
scale of Rs.30-2-35	1,080	1,098	1,116	1,134	1,152	5 <b>,5</b> 80
Dearness Allowance.	1,620	1,620	1,620	1,620	1,620	8,100
(iv)Peon (1) in the scale of Rs.30-2-35	360	366	372	378	384	1,860
Dearness Allowance.	540	540	540	540	540	2,700
(v) Travelling Allowance.	2,000	500	500	500	500	4,000
Total	13,140	11 022	12,224	12,516	10 000	62,620
Non-Recurring		<u>+19000</u>	<u></u>			
Total. Recurring		24,100	12,600	2,600	2,600	62,500
Total.	13,140	11,932	12.224	12,516	12,808 15,408 1	62,620
Grand Total. 2(ii) <u>Expenditur</u>		36,032	24,824	<u> </u>	L 00±00 L	9209220
Statement.	*		(Rs,	in lakh	ns)	
Non- Recurring.	0.206	0.241	0.126	0.026	0.026	0.625
Recurring.	0.132	0.119	0.122	0.125	0.128	0.626
Loans. Other than Loans.	) 0.338 )	0.360	0.248	0.151	0.154	1.251
Foreign Exchange Expenditur	- e	-	-		-	

3. Principal targets to be achieved:

To raise 1,250 standard maunds of stick lac @ 250 standard maunds per annum.

4. This is a new Scheme.

5. <u>Requirement of man-power</u> constructkon phase.	for the	
(1) Administrative ) (ii) Technical ) (iii) Skilled (iv) Unskilled	1 M.M. 100 M.M. 80 M.M.	
6. <u>Requirement of man-power</u> <u>continuing phase</u> .	for the	
(i) Administrative (ii) Technical (iii) Skilled (iv) Unskilled	60 M.M. 240 M.M. Nil 180 M.M.	
7. Requirement of principal	materials.	
Item	Quantity (Tons)	Value _Rs
1. Timber	47	13,062
2. Steel	1.8	1,800
3. Cement.	25	5,250
4. G.C.I. Sheets.	5	4,200
8. <u>Receipts</u> :		

Not yet assessed.

9. <u>Remarks</u>:

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#### APPENDIX 'A'

### SCHEME FOR LAC CULTIVATION IN ANDAMAN ISLANDS.

(By Shri H.D. Singh, C.F. (Retd) Lac Extension Officer, Indian Lac Cess Committee, P.O. Namkum, Ranchi).

Introductory remarks: - In his D.O. letter, dated the 17th September, 1959 addressed to Shri Prakash Krishen, I.A.S., Additional Secretary, I.C.A.R., New Delhi, the Chief Commissioner, Andaman and Nicobar Islands made a suggestion which is reproduced below:-

"As you are aware, Government of India is keen on developing the agricultural and economic resources of the Andaman and Nicobar Islands. The scope is vast and the virgin lands would respond well to at least some crops, if not all. Experiments have shown that coffee, rubber, cashew, cardamon, tea and pepper can grow in commercially exploitable quantities in the Islands.

You may consider sending an expert to assess the possibilities of growing tobacco and lac in this territory

Accordingly the Lac Extension Officer, I.L.C.C., under instruction from the competent authority, visited and toured in the South Andaman Islands from the 13th to 17th November, 1959 both days inclusive and this Scheme has been proposed by him on the basis of his tour notes.

- II. <u>Definitions of terms and excelssions</u> <u>used in lac cultivation:</u> - Certain terms and expressions have been used in this Scheme the full implications of which may not be readily understood by the field staff. For their benefit, therefore, some of the important terms and expressions have been defined and explained in an enclosure, marked as "Enclosure I" and that is being appended to this Scheme.
- III. Lac hosts and their incidence: - The most important and commonly known lac hosts, such as Palas (Butea frondosa) and kusum (Scheleichera oleosa) are not indigenous to these islands. The next in importance is ber (Zizyphus jujuba), but this too is not readily available. Only a few trees of this species are found here and there and unless its incidence is increased by planting it up in matxessexemates thexe permitting the neighbourhood of the villages this species too can not come under the scope of this scheme at present. (The only lac hosts that are found in these islands in fairly large numbers, are of rain-tree species (Samonea saman, Syn Pithecolobium saman, Syn Enterolobium Saman) which is an "evergreen" species) and is said to be a native of tropical America. This is a very easily grown tree of remarkable quick growth. As far as the Andaman Islands are concerned the rain-trees are altogether exotic having been introduced to serve as "avenue trees" along roads and foot-paths during the old regime taking advantage of the free-convict labour. This being a very fast growing species, it has spread over almost gregariously to other adjoining areas, Large percentage of these trees have by now become unvieldy and there being no special use of its wood except as firewood (even as fuel, it is of low quality) when the trees die, or

I.

get blown off by high wind, their presence even as "avenue trees" (with short trunk, but large spreading crown, often forked from the base) is just tolerated now. As already said albove, (this species nowhere occurs in natural conditions and is confined to what is known as South Andamans within about 15-20 miles radius of Port Blair. Its tot:al number at present may be estimated to be nearabout 60 thousand,)although the local Forest Officers think the number is much less. Since, however, it is a very fast growing species its incidence can greatly be enlarged within a few years if that step becomes necesisary. In any case, if lac cultivation is properly developed on this host, the total annual yield of sticklast can easily go up to 25-30 thousand standard maunds. It would be a pity if these host trees are not utilized for growing lac which has assumed such a great importance, in the present context of national development. In the course of lac cultivation the trees will be pruned, their errown's growth controlled and as such they would serve as better" avenue trees" than hitherto. In the initial stage of its introduction in these islands there would be some difficulty, but once introduced and get going it will grow multiply itself so as to develop into a potential source of revenue. And if the "Settlers" get interested in it they will have a ready source of cash income on cottage scale.

It may be noted here that rain-tree is a rangeeni lac host and it will have to be treated as such when it is harnessed for lac production.

IV.

Climatology of the Andreman Islands: - Climatic condition and rainfall have special bearing on the prospects of lac cultivation in general.. The following extracts have, therefore, been taken from the Publication entitled "The Andaman and Nicobar Information, Independence Day Number, 1959" in this context:...

"The islands have a tropical climate. The woather is always warm and very sultry in summer, though tempered by pleasant see-breeze. Most of the rain is received during the southwest and the northeast monsoon seasons. As one goes further south, the islands are subject to rain almost throughout the grour. The majority of the cyclonic distumbances affect the area form within the Bay of Bengal itself, but there are a certain number which originate as typhoons in the China Seas; their remnants, after travel-ling across south China and Burma or across Indo-China and Siam, intensify again into storms in the Bay of Bengal. Conditions for the westward travel of typhoons are most favourable in September and October and somewhat in November also.

The period, December to February, constitutes the cool season with a mean maximum temperature of about 83-87°F and a mean minimum temperature of 71-78°F. Α temperature below 60°F has never been recorded in these islands. On account of its location, surrounded by sea on all sides, the variation of temporature in these islands during the year is very small and the cool senson is not appreciably cooler than the hot season. Port Blair records about 8" of rain in December and 1-2" in the months Jamuary and February. There have, however, been some very heavy rain falls, 11.6" in a day in December, 8.23" in January and 5.2" in February.

Storms of moderate intensity affect the area in December and January but rarely in February. Some of the storms are severe. They form in the neighbourhood of the Nicobars, usually to the Northwest. Occasionally a storm forming in the south-west part of the Bay may move northwest and north and fimally recurve to the northeast and affect the Andamans.

The period March to May is the hot season. April is the hottesst month with a mean maximum temperature of 390-900F and minimum temperature of 75°-80°F. Even during the hottest spells the temperature has never exceeded 97 oF. There is generally only a little amount of rain in March. But it increases slightly in April and very much in May. In May, Port Blair and Nancowry receive 15" of rain and Car Nicobar 13". The rains in April and May are of thundery type, usually occurring in the afternoon or evening. On a) average there are about 8 thunderstorms during april and May. The number of tropical storms also increases from March to May. Many of the sotrms in April form in the later part of the month in the neighbourhood of the Andamans, usually to the west of them. Nearly all of these storms move initially towards the north or northwest and recurve later. Some of the sotrms which form during the first fortnight of May originate in the Andaman Sea, move either northwest or northeast, and are responsible for very heavy falls of rain. Port Blair has recorded 8" of rain in a day in April and 10" in May."

#### Rain fall.

"These islands are situated in the full sweep of the monsoon and rainfall is heavy but varies considerably from place to place. Table Island which is the northernmost island has an annual average of 75", Port Blair 123", Car Nicobar 97" and Nancowrie 121". As the old observatories at Port Blair and Nancowrie were located on the leeward side, it is probable that the stations on the windward side im these areas the rain fall is heavier. According to some old records available, it appears that the rainfall near Port Blair is heavier, being of the order of 140".

Although rainfall occurs throughout the year, the Chief rainy months are May to December which account for about 95% off the annual rainfall. Rainfall during each of the southwest monsoon months June to September is more than 10", the highest being 22" at Port Blair in June. June is the rainfest month of the year accounting for 18 to 20 per cent of the annual rainfall and February and March are the months with the least amount of rain (about 1 per cent).

In the months May to October there is no month with less than 10 rainy days of 10 percent or more. At Port Blair every 2 out of 3 days is a rainy day of 10 percent or more during these months while at the other islands at least 1 out of 2 days is a rainy day. If we take all the days of rainfall of 1 cent or more, almost every day is a rainy day during the months June to September at Port Blair and at the other islands also it would be not less than 2 out of 3 days.

The fluctuations of annual rainfall are quite large and we shall refer here to the data of Port Blair only which are available for a fairly long period. The highest annual rainfall recorded at Port Blair during 60 years is 150 inches (122% of normal) and the lowest 84 inches (68% of normal). The range of rainfall is 54%. It is unlikely that even with a longer record, the highest annual rainfall in the islands will exceed 135 percent of the normal and the lowest fall below 60 per cent of the normal. Variability of rainfall in the islands is low being about 12%."

#### Temperature.

"The annual variation of temperature in these islands with their maritime climate is small, being **Ministry Compose MAXATEX 3** to 5 °F for mean temperature, 2 to 5°F for mean minimum temperature and 4 to 7°F for mean maximum temperature. The annual mean maximum temperature for the year in the islands is from 85 to 8'7°F, mean minimum temperature from 73 to 77°F and mean temperature from 79 to 82°F.

April is generally the warmest month with a mean maximum temperature of  $89^{\circ}F$  at Port Blair and Table Island and  $90^{\circ}F$  at Car Nicobar and Nancowrie. The lowest mean temperature, however, does not seem to occur in a particular month. There is a tendency for this to occur in February in the northern half of the islands and during October and November in the Southern half. The highest and the lowest temperatures ever recorded in the islands are  $97^{\circ}F$  and  $62^{\circ}F$  respectively."

#### Humidity.

"Humidity is high throughout the year being highest in the Southwest monsoon season when the average reaches 90%. On individual days the atmosphere may be saturated. The lowest humidity occurs in the months December to February. The annual variation is about 15%. Mean diurnal variation, as seen from some available data, is very small being only a few percent."

## V. <u>Main objects of the Scheme:</u>

These will be:-

Firstly to utilize the available number of rain-trees for production of sticklac which is one of the important export commodities for India, and Secondly to popularise lac cultivation among the refugee and other settlers so that they may have an additional source of sash income and thereby improve their economic condition.

#### VI. Location of Centres for initiating Lac cultivation:

The following three Centres are proposed round which lac cultivation may at first be initiated and when broodlac becomes available plentifully in these localities, its cultivation may be spread over other parts:-

- (1) Garacharma, 5-6 miles south of Port Blair, (South Andamans).
- (2) Ferrargunj, 7-8 miles west of Bambooflat, (South Andamans).
- (3) Wimberlygung, 3-4 miles north of Bamboo flat, (South Andamans). This place is the N.E.S. Block headquarters as also the Divisional Forost headquarters of the South Andamans Division.

At each of the above three Centres 5 to 6 thousand host trees should be taken up for growing lac thereon. Beginning will, of course, be made with a fewer number of trees, say 700 to 300 at each of the centres and at every harvest with the increasing quantities of broadles that would be available, larger and 1 rger number of trees may be brought under the cultivation till each of the two Gupes at each of the 3 Centres grows to the size of 2500 to 3000 trees. Having reached that stage more Centres of similar size may be established and run till ultimately all the available host means are brought under the Scheme of last production. In short, 5000 to 6000 host trees would form a unit and by stages the scheme may be enlarged in scope so to cover all the available host trees on the islands by opening 10 to 12 Centres and increasing the strength of field staff according to the needs that may be felt in the light of the experience that would be grined.

## VII. Organisational mat up and staff required:

The lac development Scheme may be executed either by the Agriculture Department or by the Forest Department as may be decided by the Chief Condissioner, but the former would perhaps be better because the host trees occur in the outer shirts of the forests and in the open patches and along roads and paths and not in the interior perts of the forests where mainly the Forest Department operates. The Agriculture Department would perhaps fit in better also because lage coltivation is to be non-darised among the refugee and other settlers with when the Department of Agriculture has to do much more than any other Department.

The over-all charge may be held by a Lac Development Inspector (in the grade of say, K.100-5-130-EB-6-190 plus D.A) who may function under the direct control of the Agriculture officer. (Minimum qualification - I.Sc. pass).

- The direct supervisory staff may consit of:-
- (a) 3 Lac supervisors, viz, one for each Centre (in the grade of 3.45-2-65-3B-1-75 plus D.E. (Minimum qualification Read up to Matriculation Standard)
- (b) 3 Lac-Guards, viz, one for each Centre. They may be of Forest Guards^{*} type.

The inspector and the three supervisors will need training in the technique and practical aspects of lac cultivation. Such training are given free of tuition fee at the Indian Lac Research Institute, Manham (Ranchi) and the duration of such training is generally 6 to 3 months. The training may start from January or February 1960.

The Lac Extension Officer, Membum (Ranchi) if so requested can arrange for the training at the I.L.R.I., Membum (Renchi).

# VIII. Routine of Lac operations:

Keeping in view the climatic conditions and the distribution of the heavy rain-fall that these islands receive annually, two-course system should be adopted in preference to three-course system. Annual infection of the heat trees will be carried out in October-November in the Coupe that will have been pruned in the previous March-April so as to allow 5-6 months' time for the new shouts to develop to proper size. The routine operations under the two coupe system will be as indicated in Enclosure II appended to this Scheme. The first instalment of Drood, eay 35 to 40 standard agands, will have to be obtained from Hamkum (Ranchi) during the season October-Hovember, 1960 and the host trees to be infected then will have to be pruned in Murch-Arril, 1960 so that the shoots BAY grow to correct size by then to receive infection. Attendt will be node to get the broodlad londed into the steamer at Calcutta on the day of its departure from the Port within 2-3 days of its first evergence. If infection is carried out invedictely on arrival of the consignment at Port Dair, at least 50% of the viability will be available there on the host trees and that would ensure a fairly good vercentage of larval settlement. This quantity will provide the starting stock to be aultiplied senson to senson till in course of time it expands to about 18-20 thousand trees corresponding to the three proposed Centres.

If it be possible to arrange for a special plane to carry the first consignament of broodlac, from Ranchi or Galcutta, cent per cent viability on its arrival in Port flair can be ensured and in that event a specialist can also travel along with the consignment, who may carry out the infection on the host trees inmediately on arrival there on the spot. This will, of course, be somewhat expensive, but as already said before, once it is introduced it will go on multiplying without much difficulty and recurring cost.

On an overage 4-5 lbs. of broodlac would be required to infect a tree of the size found on the islands. At the later stage when the brood would get acclimatized and the trees take botter shape, the quantity of brood per tree required for infection would be less than what has been mentioned abovs.

#### IX. Fin nei 1 forgesat:

It is too early at this stage to make any estinate of the revenue or the not profit that is likely to accrue from this venture. As already observed, there would have to be sufficient capital outlay in the beginning on producement of broodhae, construction of temporary quarters for the field staff, ato. In the course of 2-3 years, however, it is expected, the "cheme would not only be self supporting, but would start yielding net profit. In any case, it has to be of the nature of developmental work with the view to providing reasonable facilities to the new settlers for improving their economic condition. And what is important, the overall production of has would improve so as to serve the larger interests of the country as a whole.

The economics of lac cultivation: based on what has been promoted above, may be briefly stated as follows. As said above, each Centre will have 5000 to 5000 host trees which would be operated on under this Scheme. If the scale of expenditure as obtaining in dihar is taken for illustration, the expenditure in the First year may be estimated as below:-

(i)	Price of	f brood	• 9	• 0	Es. 1,000/-

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- (ii) Proportionate cost of construction of build /on ings based/a life of 15 years.
   Is 225/-
- (iii) Proportionate wrice of implements based on alife of 5 years. ... No. 75/-

	•••• b() 🚥	
(iv)	Annual recommended cost on operation.	1,600/-
( _V )	Pay, C.L.A., & T. L. of establishment.	\s. 1,800/-
(vi)	liscellansous exponditure including mession to buildings and inclements. Total:	<u>400/-</u> 
hove	bacquent yours breed will not to be purchased a d bence the d recurring communiture will ily.	Rs. 4,100/-

As against the above cannal expenditure the ennual revenue to be expected from each Centre will be es discussed below:-

Every year 3000 host trees will be infected and harvested in each Centre. On an average one tree will yield about: 40 lbs. of broodlas mer annum. On this besis, the total annual production of brood will be 1,20,000 lbs. Of this puntity about 15,000 lbs. would be required for inflecting 3,000 trees in the forward Cours, the surplus vailable would be 1,05,000 lbs. which would be equivalent to about 17,500 lbs of sticklac. 15,000 lbs. brood used for infection would yield 2,500 lbs. of phoonini lec.

The total field of sticil c would, therefore, be

37,500 + 2,500 = 20,000 lbs.

250 standard maunds. =

It's total revenue would be 250 maunds of sticklic ② № 35/- per naund = 0.8,750/-.

Thus the net surplus from 6,000 trees will be R.3,650/- in the first year and N. 1,650/- in the subsequent ymaxs. On in average the gross revenue to be expected from a host tree will, therefore, be R.1.45 yer tree per year and the net revenue will be 0.75 nP. per tree per year.

Is the Gentre is expended and made larger the not revenue will increase aromortionately.

The annual requirements of funds may be worked out on the above basis by the Department concerned.

The subordinate staff required would consist of one Lac Development Inspector, 3 Lac Oppervisors, 3 Hac Guards and terhans one Poos for the Lac Development inspector.

The Insurator and the Supervisors will be required to be trained at the I.L.R.I., as proposed above.

The staff will have to be movided with quarters to be built at the head-warters of the Centres in the second and third years.

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1/2" in diameter, the shoet should be cut close to its origin, or left uncut.

(v) "Ari" luc is the expression used for instature luc. The proper time for hervesting lac is when the emergence is about to start. The lac cultivators, who are mostly poorer class of people in the villages do not usually wait till the crop matures. Under the strain of poverty they go and harvest their lac in "Ari" form. "Ari" cutting leads to scarcity of broodlac during the time of need and in that event the life cycle of the lac-insects is very often upset, which, when it occurs, needs a great deal of time and money to re-establish. It is to be always borne in mind, the-refore, that lac cultivation can yield substantial profit only if area-brood is always made available for further infections season-to-season. In short "ari" cutting of lac is extremely detrimental to sustained production of lac. The routine of operations under the two-coupe system is as follows:-

Divide the available number of host trees into two more or less equal Coupes and call them Coupe A and Coupe B. The host trees had better be serially numbered and listed. The operations will be as indicated in the tabular form below, assuming that start is made in April, 1960.

Approximate time of operation.	Coupe A.	Coupe B.	Remorks.
	2.	3.	4.
March - April, 1960.	Prune		Standard practice of pruning to be followed.
October - November, 1960	). Infect		Brood to be arran- ged from elsewhere. Collect <u>nhoonki</u> lac from Coup A in proper time.
March - April, 1961.		Prune	Standard practice of pruning to be followed.
June, 1961.	Partially harvest leaving sufficient brood for self info tion where noce- ssary. Collect lac from the har- vest.	30 <b></b>	Whatever brood is available should be used for reinfect- ing the trees in the same Coupe where- ver required so that no portion of the infected trees may remain without crop.
October,- Novenber, 1961.	Completely har- vest in brood form. Select brood and col- lect lac from the rest.	Infect with brood obtained from Coupe A. Enlarge the Coupe if that be required.	Collect <u>phoonki</u> lac from Coupe B in proper time.
March - April, 1962.	Dress up the branches and prune where necessary.	الله الله الله الله الله الله الله الله	Collect lac from Chhinties if avail- able. This will be in "Ari" form.
June, 1962.		Partially harvest leaving sufficient breed for self infection where necessary. Collect lac from the harvest.	1961.
October - November, 1962.	Infect with brood obtained from Coupe B, Enlarge the Coupe if that be required.	Completely harves in brood form. Select brood and collect lac from the rest.	t Collect <u>phoonki</u> lac from Coupe A in proper time.

Notes:-

- (i) Care should be taken to remove phoonk lac as soon as emergence has completed. This generally takes 3 weeks counting from the date of first emergence.
- (ii) Rigorous protection against fire and theft is necessary.
- (iii) "Ari" cutting of lac is detrimental to sustained production of lac.
  - (iv) Infection must be completed within 5-6 days from the date of first emergence.

Sd/- H.D. Singh Lac Extension Officer.

(Enclosure to letter No.52/28 dated the 7/8th December, 1959 from Shri H.D. Singh, Lac Extension Officer, I.L.C.C., Namkum, (Ranchi) addressed to the Chief Commissioner, Andaman and Nicober Islands.

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FOREST DEPARTMENT Andaman and Nicobar Islands. ***

<u>Name of Scheme</u>: EXPLORATORY TRIALS ON COFFEE CULTIVATION IN ANDAMANS.

Head	)	0	-	Agriculture and Community Development.
and	)	00	-	Agricultural Production.
Sub-Head	)	7	-	Special Commodity Programme,

# 1. Object of the Scheme:

The question of development of plantation industries like Tea, Coffee and Rubber in these Islands had engaged the attention of this Administration at the time of formulation of the Second Five Year Plan and a scheme was included in the Second Five Year Plan of these Islands with the object of having the commercial prospects of growing Coffee, Tea and Rubber in these Islands examined by experts. A token provision of Rs.1 lakh, spread over a period of five years, was approved for this purpose.

At the instance of the Government of India, Ministry of Commerce and Industry (Department of Commerce and Light Industries), the Coffee Board, Bangalore deputed two experts (Shri S.Sundaram, B.A., B.Sc. (Agri), M.Sc., Officer on Special Duty (Development of Coffee Industry) and Dr.N.G. Chokkanna, Chemist, Research Department, Coffee Board, Bangalore) who after conducting necessary survey, submitted their report entitled "Report on the investigations into the possibilities of growing Coffee in the Andaman Islands - 1956-57". Their recommendations are contained in part VI (Page 39-41) of the report. Before launching on large scale planting, they recommended that exploratory trials with selected Arabica and Robusta material of proved merit should be carried out at six representative contres listed in paragraph 99 of the report. To begin with, experimental cultivation of Coffee was proposed to be under taken in 3 areas viz., No.5, 3 and 1 (Harriet Hill Range, Claudius Happy Vally and Saddle Hill Range) as suggested by the experts in paragraph 100 of their report, total acreage extending to about 10-12 acres.

On the basis of the recommendations of the experts, a scheme - "Exploratory trials on coffee cultivation in Andamans" costing No.1.31.700/- over the three years 1958-61, was sanctioned vide Government of India, Ministry of Home Affairs letter No.14/19/57-ANL dated the 17th May 1958. The scheme was to be continued for another two years during the Third Five Year Plan for completing the work, and investigations in connection with exploratory trials, after which the question of encouraging large scale cultivation of coffee in private sector was to be considered. In order to proceed with the physical implementation of the scheme, one Research Assistant, and three Fieldmen were recruited, and deputed for training in coffee culture in November 1959 at Coffee Research Station, Balehomnur. They are due back after completion of their traiming in September/October 1960. The Coffee Development Officer has also been selected and is expected to be in position very shortly. Although the staff will have been appointed, physical umplementation of the scheme is not expected to record any progress during the remaining few months of the Second Plan. The scheme has, therefore, been switched over to the Third Five Year Plan with the objective already stated above.

# 2(i) Estimated Expenditure:

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Non-Recurring:         1.Accommodation         for the Fieldmen,         Farm Stores etc.         on three trial         centres @ N.12000         per centre. 12,000 24,000 36,000         2.Accommoda-         tion for         mazdoors         @ Ns.12,000/-         per centre. 36,000 36,000         3. Bouipment:         i)Implements,         Sprayers,         drums etc.         @ Ns.1,500/-         per centre. 2,500 2,000 4,500         i)Hand pulper,         washing tubs,         drymg yards         etc.for 3         centres         @ Ns.2,500/-         per centre 7,500 7,500         Total Non-         Recurring.         50,500 26,000 7,500 84,000	1.Accommodati for the Field Farm Stores of On three tria centres @ Rs.	28					
for the Fieldmen, Farm Stores etc. on three trial centres @ R.12000 per centre. 12,000 24,000 36,000 2.Accommoda- tion for mazdoors @ R.12,000/- per centre. 36,000 36,000 3. <u>Equipment</u> : i)Implements, Sprayers, drums etc. @ R.1,500/- per centre. 2,500 2,000 4,500 ii)Hand pulper, washing tubs, drying yards etc.for 3 centres @ R.2,500/- per centre 7,500 7,500 Total Non- Recurring. <u>50,500 26,000 7,500 84,000</u>	for the Field Farm Stores of On three tria centres @ Rs.						
tion for mazdoors (P Ns.12,000/- per centre. 36,000		lmen, etc. 12,000	24,000	_	_	-	36,000
i)Implements, Sprayers, drums etc. @ Rs.1,500/- per centre. 2,500 2,000 4,500 ii)Hand pulper, Washing tubs, drying yards etc.for 3 centres @ Rs.2,500/- per centre 7,500 7,500 Total Non- Recurring. 50,500 26,000 7,500 84,000	tion for mazdoors @ Rs.12,000/-	36,000	-	-	_	<b>-</b> '	36,000
Sprayers, drums etc. @ Rs.1,500/- per centre. 2,500 2,000 4,500 ii)Hand pulper, washing tubs, drying yards etc.for 3 centres @ Rs.2,500/- per centre 7,500 7,500 Total Non- Recurring. <u>50,500 26,000 7,500 - 84,000</u>	3. Equipment	•					
Washing tubs, drying yards etc.for 3 centres (CRS.2,500/- per centre 7,500 7,500 Total Non- Recurring. 50,500 26,000 7,500 84,000	Sprayers, drums etc. @ Rs.1,500/-		2,000			_	4,500
Total Non- Recurring. <u>50,500 26,000 7,500 - 84,000</u>	Washing tubs drying yards etc.for 3 centres @ Rs.2,500/-		_	7,500	-	_	7,500
Recurring:		50,500	26,000	7,500			84,000
1.Coffee Development Officer(one) Class II Gazetted at Rs.620/-p.m. in the scale of Rs.275-25- 500-EB-30-650-	Development Officer(one) Class II Gazetted at Rs.620/-p.m. in the scale of Rs.275-25- 500-EB-30-65	50 <b>-</b>	7,800	0 8 <b>,</b> 160	8 <b>,520</b>	8,880	40,800
Andaman Special Pay @ 33 ¹ 3% 2,480 2,600 2,720 2,840 2,960 13,600	Andaman Spec Pay @ 33 <del>1</del> %	ial 2,480	2,600	2,720	2,840	2,960	13,600
Dearness Allowance. 1,200 1,200 1,200 1,200 1,200 6,000		1,200	1,200	1,200	1,200	1,200	6,000
2.Rescarch Assistant(one) on Ns.170/-p.m. in the scale of Ns.160-10- 330. 2,040 2,160 2,280 2,400 2,520 11,400	Assistant(or on R.170/-p. in the scale of R.160-10-	, m. Э	2,160	) 2,280	2,400	2,520	11,400
Andaman Special Pay @ 333% 680 720 760 800 840 3,800			72(	) 760	800	840	3,800
Dearness Allowance. 840 840 840 840 840 4,200		840	84(	) 840	840	840	4,200

1961-62 1962-63 1963-64 1964-65 1965-66 Total. īs. lis. Rs. Bis. Rs. Rs. 3.Fieldmen(Three) 2,268 2,376 2,484 2,592 2,700 12,420 on Rs.63/- p.m.in the scale of Fs.60-3-81-EB-4-125-5-130. Dearness Allowance. 1,980 1,980 1,980 1,980 1,980 9,900 4.Lower Grade Clerk(one) on Rs.60/- in the scale of Rs.60-3-81-EB-4-125-5-130. 720 756 792 828 3,960 864 Dearness Allowance. 660 660 660 660 660 3,300 5.Peons (Three) on  $F_{0.30}/-p_{0.m}$  in the scale of  $R_{s} \cdot 30 - \frac{1}{2} - 35$ . 1,080 1,098 1,116 1,134 1,152 5,580 Dearness Allowance. 1,620 1,620 1,620 1,620 1,620 8,100 6.Gardner-cum-Mistry(Three) on Rs.60/-p.m. in the scale of Rs.60-3-81-EB-4-125-5-130. 2,160 2,268 2,376 2,484 2,592 11,880 Dearness Allowance. 1,980 1,980 1,980 1,980 1,980 9,900 7.Travelling Allowance. 4,000 4,000 4,000 4,000 4,000 20,000 8.Contingencies: i) Stationery and office contingencies and other consumable articles etc. 1,000 1,000 5,000 1,000 1,000 1,000 ii) Coffee trials, planting and cultivation charges @ Rs.800/- per acre for the first year, Rs. 350/for the Second year, Rs.400/- for the third year, Rs.450/- for the fourth year and Rs.500/for the fifth 8,800 4,950 27,500 year. 3,850 4,400 5,500 Total Recurring. 40,948 36,908 38.368 39.828 41.288 1.97.340 Non-Recurring 84,000 Total. 50,500 26,000 7,500 . -Recurring Total 40,948 36,908 38,368 39,828 41,288 1,97,340 Grand Total. 91,448 39,828 2,81,340 <u>62,908</u> 45,868 41 **,288** 

2(ii) Expenditure S	Statement:
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(Rs. in lakhs)

	<u> 1961-62</u>	<u> 1962-63</u>	<u> 1963-64</u>	<u> 1964-65</u>	<u> 1965-66</u>	Total.
Non-Recurring.	0.505	0.,260	0,075	\$74	- -	0.840
Recurring.	0.409	0.,369	0.384	0 <b>.3</b> 98	0,413	1.973
Loans.	-	<del></del>		-	-	-
Other than loans	<b>6 0.91</b> 4	0.629	0.459	0.398	0.413	2.813
Foreign Exchange Expenditure.	e) -	- 44	-	-	-	-
	ويتحدث فيستعوك ويستحد ويشتكم فالتكر	And and a local grant of the second s				

# 3. Principal targets to be achieved:

To study the response of the two varieties of coffee (Arabica and Robusta) to the varying environments and to choose the most suitable onces for further propagation in the Islands; to study the modifications required in the cultural operations, and to prepare a calendar of operations suited for the Andamans with the ultimate object of developing large scale coffee cultivation in these Islands, through private enterprise.

4. This is a continuing scheme.

5. Requirement of man power for the construction phase:

1.	Administrative	)		l	m.m.
2.	Technical	)			
З.	Skilled		<b>0</b> 0 <b>0</b>	150	n.m.
4.	Un-skilled			120	m.m.

# 6. Requirement of man power for the continuing phase:

l. Administrative	240 m.m.
2. Technical	300 m.m.
3. Skilled	<u>1</u> 80 m.m.
4. Un-skilleá	Not yet assessed.

# 7. Requirement of principal meterials:

<u>Item</u>	<u> Quartity</u> (Tons)	<u>Value</u> Rs.
1. Timber	72	19,800
2. Steel	2.7	2,700
3. Cement	38	7,980
4. G.C.I.	Sheets 7.5	6,300

8. <u>Receipts</u>:

Nil

9. <u>Remarks</u>:

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AGRICULTURAIL DEPARTMENT Andaman and Nicobar Islands.

<u>Name of the Scheme:</u> RUBBER PLANTATION IN THE ANDAMAN AND NICOBAR ISLANDS.

Head and ) O - Agriculture and Community Development. Sub-Head ) OO - Agricultural Production. 7 - Special Commodity Programmes.

#### Object of the Scheme: -

The Rubber Production Commissioner visited these Islands in 1958 to explore the commercial prospects of developing rubber cultivation. According to the report furnished by him, soil and climatic conditions in these Islands, particularly in the Nicobar group, are eminently suitable for rubber cultivation. In order to assess the availability of areas suitable for rubber cultivation, the services of a Junior Field Offficer of the Rubber Board were obtained on deputation in 1959 for carrying out a survey of the different Islands. The survey work has since been completed, and based on the survey reports of the Field Officer of the Rubber Board, an area of 13,600 acres as per details given below is available for rubber cultivation.

2.	Katchal Rutland Great Nicoba	• • • • • • • • T • • •	10,000 acres 3,000 " 600 "	
	Total	• • •	13,600 acres	

Details of the Scheme will be worked out after the Government of India have taken a broad policy decision in regard to the allotment off land and the financial assistance to be made available to prospective planters. A lump provision of Rs.5 lakhs is proposed for implementation of the scheme during the Third Plan period.

<u>1961–62</u>	<u>1962–63</u>	<u>1963–64</u>	<u>1964-65</u>	<u>1965-66</u>	<u>Total</u> .
Rs.	Rs.	Rs.	Fs.	Rs.	Rs.
25,000	1,00,000	1,25,000	1,25,000	1,25,000	5,00,000

* **

LAID DEVELOPMENT

FOREST DEPARTMENT Andaman and Nicobar Islands. ***

-70-

<u>Name of the Scheme</u>: SOIL EROSION AND RESEARCH STATION AT RANGAT.

Head	)	0	-	Agric	ulture	and	Connunity	Development.
	)	01	-	Land	Develop	ment		
Sub-Head	)	З	-	Soil	Conserv	atic	on.	

# 1. Object of the Scheme.

In order to determine the type and extent of the effective soil conservation measures required in the Andaman Islands, it is necessary to determine and assess the primary factors responsible for causing soil erosion and nature of adjustments that may be possible in their study of soil in respect of its erodibility, the duration and intensity of rainfall, quantum of run-off on different slopes covered with vegetation or denuded are some of the factors which will go to determine the type and extent of contour bunds etc., that may be required in the valley land to check erosion.

With the above object in view, a scheme for the establishment of a Soil Erosion and Research Station at Rangat in Middle Andaman to carry out pilot survey for determination of factors causing soil erosion with a view to recommending anti-erosion and conservation measures was included in the Second Five Year Plan. The scheme, however, could not be put into operation till late in 1958-E9 owing to non-availability of Research Assistant and consequently the studies and investigations initiated under the scheme are not likely to be completed by the end of Second Plan period. The scheme will, therefore, be continued during the Third Plan period.

2(i) Estimated expenditure.

	<u>1961-62</u> Rs.	<u>1962-63</u> ^{Rs}	<u>1963-64</u> Rs.	<u>1964-65</u> Rs.	<u>1965-66</u> Rs.	<u>Total</u> . Rs.
Non-Recurring.			Nil	ه، مر الد 		
Total Non-Recurris	ng.	123 and 904 and 90	Nil	400 mil 400 l	674 gas	
Recurring: (a) Pay of staff i) One Research Assistant in the scale of Rs.160-10-330 + Dearness Allowance + 40% North Andaman Pay.	4 <b>,3</b> 68 ·	4 <b>,3</b> 68	4,368	4,368	4,368	21,840
ii)One Headworker in the scale of Rs.35-1-50 + Dearness Allowance.		1,044	1,044	1,044	1,044	5,220
iii)Mazdoors 5 @ Rs.30/-p.n.+ Dearness Allowance + jungle allowance.	4,800	4 <b>; 9</b> 800	4,800	4,800	4 <b>,80</b> 0	24,000

			71-				
		<u>1961-62</u> Rs.	<u>1962-63</u> Rs.	<u>1963–64</u> Rs.	<u>1964–65</u> Rs•	<u>1965–66</u> Rs•	<u>Tota</u> Rs
(b)	Miscellaneous		15 •	1600	10.	10.	100
	contingencies	500	500	500	500	500	2,50
	Total Recurring.	10,712	10,712	10,712	10,712	10,712	53,56
	Non-Recurring Total.		-		-	-	-
	Recurring Total.	10,712	10,712	10,712	10,712	10,712	53,50
	Grand Total.	10,712	10,712	10,712	10,712	10,712	53 <b>,5</b> 6
2(i	i) Expenditure	<u>Statemon</u>	t	(Rs.	in lakh	s)	
	Non-Recurring	5 o ma	-	-	-	-	-
	Recurring.	(0.107	0.107	0.107	0.107	0.108	0.53
	Loans.	<b>cts</b>	-	-		-	-
3.	Other than loans. Foreign excha expenditure Principal tars	0.107 angie - zet:s to be	0.107 - achieve	0.107 	0.107	0.103	0.53
	This is a cont		heme.				
5.	Requirement of			e <u>constru</u>	uculon p	11050.	
		ini _ <b>+</b>			Ň		
	2. Tec 3. Ski	ini.strativ nni.cal lle:d kil.led	°C		- ) - ) - ) Ni		
6.	2. Tec 3. Ski	hni.cal lle:d kil.led			- ) Ni - )	1	
6.	2. Tec 3. Ski 4. Uns <u>Requirement o</u> 1. Adm	hnical lled killed <u>f man powe</u> inistrativ	r for th	- e contin	- ) Ni - ) uing pha	1	
6.	2. Tec 3. Ski 4. Uns <u>Requirement o</u> 1. Adm 2. Tec 3. Ski	hnical lled killed <u>f man powe</u> inistrativ hnical lled	r for th	<u>e contin</u> - 6	- ) Ni - ) uing pha - O M.M.	1	
6.	2. Tec 3. Ski 4. Uns <u>Requirement o</u> 1. Adm 2. Tec 3. Ski	hnical lled killed f <u>man powe</u> inistrativ hnical	r for th	<u>e contin</u> - 6	- ) Ni - ) uing pha	1	
	2. Tec 3. Ski 4. Uns <u>Requirement o</u> 1. Adm 2. Tec 3. Ski 4. Uns <u>Requirement o</u>	hnical lled killed <u>f man powe</u> inistrativ hnical lled killed	<u>r for th</u> e	- - - - 6 - 36	- ) Ni - ) uing pha - O M.M.	1 <u>se</u> .	
	2. Tec 3. Ski 4. Uns <u>Requirement o</u> 1. Adm 2. Tec 3. Ski 4. Uns	hnical lled killed <u>f man powe</u> inistrativ hnical lled killed	<u>r for th</u> e	- - - - 6 - 36	- ) Ni - ) uing pha - 0 M.M. 0 M.M.	1	
	2. Tec 3. Ski 4. Uns <u>Requirement o</u> 1. Adm 2. Tec 3. Ski 4. Uns <u>Requirement o</u>	hnical lled killed <u>f man powe</u> inistrativ hnical lled killed <u>f principa</u> ber ) el ) ent )	<u>r for th</u> e	<u>e contin</u> - - 6 - 36 <u>als</u> , <u>Guantit</u>	- ) Ni - ) uing pha - 0 M.M. 0 M.M.	1 <u>se</u> . <u>Value</u>	
7.	2. Tec 3. Ski 4. Uns <u>Requirement o</u> 1. Adm 2. Tec 3. Ski 4. Uns <u>Requirement o</u> <u>Iten</u> 1. Tim 2. Ste 3. Cem	hnical lled killed <u>f man powe</u> inistrativ hnical lled killed <u>f principa</u> ber ) el ) ent )	<u>r for th</u> e	e contin 6 36 als, <u>Guantit</u> (tons)	- ) Ni - ) uing pha - 0 M.M. 0 M.M.	1 <u>se</u> . <u>Value</u>	

# AGRICULTURAL DEPARTMENT Andanan and Nicobar Islands.

Name of the Scheme: SOIL CONSERVATION IN AGRICULTURAL LANDS

- 72,-

Head	)	0	**	Agriculture and Community Development
	)	01	-	Land Development
Sub-head	)			Soil Conservation.
		4		Land Reclamation.

## 1. Object of the Scheme:

On account of undulating terrain of the country, and heavy rainfall, soils in the Andaman are highly susceptible to erosion. Already about 1,000 acres of recently cleared land allotted to settlers for agriculture have been rendered unfit for paddy cultivation. In the interest of maintaining a high level of productivity it is necessary to preserve the land from the processes which inproverish the fertility. The control of soil erosion is hence an urgent problem which every cultivator should know and adopt necessary measures for the same. The scheme envisages establishment of an organisation to advise and educate cultivators on soil conservation measures by organising demonstrations on selected holdings in the different areas. Financial assistance by way of medium term loan will also be provided to cultivators for bunding, terracing etc. of their fields at the rate of Rs. 150/- per acre. Tractor service will be made available to cultivators on hire charges.

# 2(1) Estimated Expenditure.

<pre>I Non-Recurring: (i)Residential accommodation for Agriculture Engineer, 2 Demonstrators and 1 Surveyor-cum- Draftsman. 36,000 15,000 50,000 (ii) Shed for tractor and implements and stores, at Port Blair. 10,000 10,000 (iii)Tractor with imple- monts, equip- monts, equip- monts, plough etc. 50,000 5,000 1,000 1,000 500 57,500 (iv)Furniture etc. 1,000 - 550 1,750 (v) Purchase of surveying afting and/cquip- ment. 5,000 - 5,000 1,750 1,000 500 1,24,250 Recurring.</pre>		<u>1961-62</u> Fs.	<u>1962-63</u> Rs.	<u>1963-64</u> Rs.	<u>1964-65</u> Rs.	<u>1965-66</u> Rs.	<u>Total</u> . Rs.
accommodation for Agriculture Engineer, 2 Demonstrators and 1 Surveyor-cum- Draftsman. 36,000 15,000 50,000 (ii) Shed for tractor and implements and stores, at Port Blair. 10,000 10,000 (iii)Tractor with imple- ments, equip- nents, equip- nents, option (iv)Furniture etc. 1,000 - 750 1,750 (v) Purchase of surveying afting and/cquip- nent. 5,000 - 5,000 1,000 500 1,24,250	I Non-Recurring:						
<pre>tractor and implements and stores, at Port Blair. 10,000 10,000 (iii)Tractor with imple- ments,equip- ments,plough etc. 50,000 5,000 1,000 500 57,500 (iv)Furniture etc. 1,000 - 750 1,750 (v) Purchase of surveying afting and/cquip- ment. 5,000 - 5,000 1,000 500 1,24,250</pre>	accommodation for 1 Agriculture Engineer, 2 Demonstrators and 1 Surveyor-cum-		15,000	_	_	-	50,000
<pre>with imple- ments,equip- ments,plough etc. 50,000 5,000 1,000 1,000 500 57,500 (iv)Furniture etc. 1,000 - 750 - 1,750 (v) Purchase of surveying afting and/cquip- ment. 5,000 - 5,000 1,750 1,000 500 1,24,250</pre>	tractor and implements and stores, at Port	10,000			-	<b>-</b> ·	·
etc. 1,000 - 750 1,750 (v) Purchase of surveying afting and/cquip- ment. 5,000 5,000 Total Non-1,01,000 20,000 1,750 1,000 500 1.24,250	with imple- ments,equip- ments,plough	50,000	5,000	1,,000	1,000	500	5 <b>7,5</b> 00
surveying afting and/cquip- ment,5.0005.000 Total Non-1.01.000 20.000 1.750 1.000 500 1.24.250		1,000	, <b>a</b> r A	750	-	_	1 <b>,7</b> 50
Total Non- 1,01,000 20,000 1,750 1,000 500 1.24,250	surveying afting and/cquip-	5 000	-				5 000
Total Non-1,01,000 20,000 1,750 1,000 500 1,24,250 Recurring.						<b></b>	
	Total Non- 1 Recurring.	,01,000	20,000	1,750	1,000	500	1,24,250

			D.				
	]			1963-64	<u>1964-65</u>	<u>1965-66</u> .	<u>Total</u> . Rs.
II	Recurring	Rs.	Rs.	rs •	HS.	Г <b>З •</b>	E2 •
1.	Pay of Staff						
a)	Agricultural Engineer (1) @ Rs.160/-p.m. in the scale of Rs.160-10- 330(provision made for three months during 1961-62)	400	1,950	2,070	2,190	2,310	9,000
	Andaman Special Pay @ Rs.335%	l 160	650	690	<b>73</b> 0	770	3,000
	Dearness Allowance.	210	840	840	840	840	3,570
b)	Agricultural Demonstrators(2 @ Rs.60/-p.m.in the scale of Rs.60-3-81-EB- 4-125-5-130 (provision mad for three mont during 1961-62	e hs	1,458	1,530	1,602	1,674	6,624
	Dearness Allowance.	<b>3</b> 30	1,320	1,320	1,320	1,320	5,610
c)	Surveyor-cum- Draftsman(1) @ Rs.100/-p.m. in the scale o Rs.100-5-185 (provision mad for three mont during 1961-62	e hs	1 015	1,275	1,335	1,395	5,520
	Andaman Specia	1	1,215		• •		·
	Pay @ 33½% Dearness	100	405	425	445	465	1,840
- •	Allowance.	180	720	720	735	780	3,135
d)	Lower Grade Clerks (2) in the scale of Rs.60-3-81-EB- 4-125-5-130 (provision made for 3 months during 1961-62 Dearness	2) 360	1,458	•	1,602	1,674	6 <b>,62</b> 4
~)	Allowance.	330	1,320	1,320	1,320	1,320	5,610
	Tractor mechan (1) in the sca of Rs.75-3-105 (provision made for 3 monthsdu Dearness Allow Tractor Driver in the scale of Rs.75-3-105(provision made for 3 months durin 1961-62).	le ring 61 () ~ 225 (1)165 of ) of ) or )	- <b>-</b> 62) 909 660 909	945 660 945	981 660 981	1,017 660 1,017	4,077 2,805 4,077

-73-

	<u>1961-62</u> Rs.	<u>1962-63</u> Fs.	<u>1953-64</u> Rs•	<u>1964-65</u> Rs.	<u>1965-66</u> Rs•	Total. Rs.
Dearness Allowance.	165	66.0	660	660	660	2,805
g) Peon (1) in the scale of Rs.30-2-35 (provision made for thre months during 1961-62)		36.2	368	374	380	l,574
Dearness All©wance.	135	<b>5</b> 40	540	540	540	2,295
h) Head Worker(1 in the scale of R.35-1-60 (provision made for thre months during	e					
1961-62).	105	423	435	447	459	1 <b>,</b> 869
Dearness Allowance.	135	540	540	540	540	2,295
i) Mazdoors (4) in the scale $R_{3}.30-\frac{1}{2}-35.$	of 360	1,446	1,470	1,494	1,518	6,288
Dearness Allowance.	540	2,160	2,160	2,160	2,160	9,180
j) Travelling Allowance.	2,000	2,000	2,000	2,000	2,000	10,000
k) Miscellaneous contingencies		1,000	1,000	1,000	1,000	5,000
1) Fuel and Lubricating oil for tractor.	4,500	4,500	4,500	4,500	4,500	22,500
Total Recurring.	12,455	27,445	27,943	28,456	28,999	1,25,298
III Loans Recoverable loans to culti- vators @ Rs.150/- per acre for 2500 acres (500 acres every year) 75.000 75.000 75.000 75.000						
Total Loans, -	75,000	75,000	75,000	75,000	75,000	375,000
Non-Recurring Total. 1,	01,000	20,000	1,750	1,000	500	1,24,250
Recurring Total	12,455	27,445	27,943	28,456	28,999	1,25,298
Loans Total.	75,000	75,000	75,000	75,000	75,000	3,75,000
Grand Total. 1,	88,455 1	,22,445	1,04,693	1,04,456 1	,04,499	6,24,548
2(ii) Expenditur				lakhs)		<b>a a i a</b>
Non Recurring. Recurring. Loans. Other than loans	1.010 0.125 0.750 1.135	0.200 0.274 0.750 0.474	C.017 C.279 C.750 C.296	0.010 0.285 0.750 0.295	0.005 0.290 0.750 0.295	1.242 1.253 3.750 2.495

-7.4-

-75- (R. in lakhs) Foreign exchange)<u>1961-62</u> 1962-63 1963-64 1964-65 1965-66 Total expenditure. ) 3. <u>Principal targets to be achieved</u>.

Introduction and promotion of sokl conservation measures to step up agricultural production.

# 4. This is a new Scheme.

5. Requirement of man power for the construction phase.

	Administrative		,)	1	M.M.
З.	Technical Skilled	•	•••		М.М.
4.	Unskilled			88	M.M.

## 6. Requirement of man power for the continuing phase.

	dministrative echni-cal	 M. M. M. M.
3. S	killed nskilled	 M.M. M.M.

# 7. Requirement of Principal materials.

Iten	Quantity (tons)	Value <u>Rs</u>
1. Timber	47.50	13,062
2. Steel.	1.80	1,800
3. Cement.	25	5,250
4. G.C.I. Sheets.	5	4 <b>,2</b> 00

# 8. Receipts:

PUBLIC WORKS DEPARTMENT Andaman & Micobar Islands.

Mone of the Schenc:	RECLAMATION OF SALINE AFFECT/SD LAND FOR CULTIVATION.			
	Agriculture and Community Development. Lond Development.			
	Lond Roclemetion.			

#### Object of the Schena:

The old settlers in South Andeman have been demanding from time to time more hand for baddy cultivation to support the increased population. Their demand is genuine and has to be met to the extent it is possible. No vacant hand fit for baddy cultivation is readily evailable in South Andeman for allotment to old settlers. The demand can, however, be partially net if cortain low-lying saline affected areas are reclaimed for cultivation by providing bunds, sluices and sea-walls. The scheme envisages reclamation of saline affected lowlying areas at Shaitenkhari, and near Tytlersghat - Hobdeypur - Port Houat baddy fields, by providing bunds and sluices. The areas likely to be reclaimed for cultivation under each project are given below:-

(1)	Sheitenkheri	₩ 4	••	500 acres
			• •	

(2) Hobdeypur-Port Houat and Tytlersghat ... 200 acres.

Inprovements will also be effected to the existing bunds, sluices and sea-walls.

#### 2(1) Estimated expenditure.

		<u>1961-62</u> Pa	<u>1962–63</u> Bi	<u>1963-64</u> Es.	<u>1964–65</u> Rs	<u>1965-66</u> Rs	Total.
	Non-recurring.						
1.	Construction of bunds at Shaitankhari	10600	50000	65000			125000
2.	Construction of bund between HobdeypurPort Moust Paddy fields	3		10000	50000	56000	116000
	and Tytlorsghat.			10000	30000	300,0	110000
3.	Incrovement to Sea-walls, bunds and sluices in South Andeman.	20000	30000	50000	50000	50000	200000
	Departnental ) charges @ 13%)	9100	7300	13650	13000	13780	<b>5</b> 73 <b>3</b> 0
	Total Non-I recurring.I	39100	8 <b>78</b> 00	133650	113000	119780	498330
	Recurring	water N1, market					
	Totel Recurring.	ring. Nil					
·	Non-Recurring) Total:	39100	8 <b>7800</b>	138650	113000	119780	498330
	Recurring Total:		-			-	
	Grand Total:	39100	87800	1 <b>3</b> 8650	113000	119780	498330
		<b>4</b> -1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		ويربعه ويرقيه فتتقول ورد			

2(11)	Amenditure Staten	ent.		(Rs.	in lekbs	3)	
	Non-recurring.	0.391	0.878	1.386	1.130	1.198	4.983
	Recurring.		9464 <b>0</b> 0				
	Loans.		s as finall	, saturda			
	Other than Loans.	0.391	0.878	1.386	1.130	1.198	4.983
	Foreign exchangel expenditure.	8.10 mž		till od?			*******
3.	Principel tergats to be achieved.	(i)	To construct now bunds & sluices for reclaration of 700 acres of saline affected lend for allotment to old settlers.				
	•	( <u>i</u> i)	To carry ing bunds				
4.	This is a new sche	<u>119.</u>					
5.	Requirement of man for the constructi			Canno	t bo ass	essed ct	present.
6.	Requirement of them for continuing the					il	
7.	<u>Requirement of pri- naterials.</u>	ncipal		Canno	t be ass	essed af	t present.
8.	Receipts.		N	il			
9.	Resorts.			il			
		4 <del>00 400 400</del>	00	One	ويتفرج فبراد		

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# LAND RESETTLEMENT AND COLONISATION

Scheme No.22.

## ANDAMAN AND NICOBAR ADMINISTRATION.

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Name of Scheme:	COLONISATION SCHEME.	
Head 👔 Sub-head 🌡	<ul> <li>0 - Agriculture and Community Development.</li> <li>01 - Land Development.</li> <li>5 - Land Resettlement and Colonisation.</li> </ul>	

## Colonisation Programme.

#### First Plan:

A Five Year Plan for development and colonisation of the Andamans was approved by the Cabinet in January, 1952. The Plan provides for the clearance of 20,000 acres of forest land and settlement of 4,000 agriculturist families from the mainland of India. Due to various handicaps, field operations were actually taken in hand in April, 1953. By the end of the First Plan period, only 8,100 acres of land could be cleared and 1,006 families settled. Necessary ancillary serviceSlike MAXYMAXAX dispensarios, primary schools were also provided in the newly settled area.

The expenditure incurred on the implementation of this Scheme during the First Plan period amounted to Rs,68.032 lakhs.

#### Second Plan:

The un-executed portion of the Colonisation Scheme was switched over to the Second Five Year Plan with the object of achieving the ultimate targets of the said Cabinet Plan. The Second Plan envisaged the clearance of 11,900 acres of Forest land and settlement of 2,994 families by the end of the Plan period, besides the opening of 20 single teacher primary schools one hospital and 6 dispensaries.

The scheme was estimated to involve an outlay of Rs.130.000 lakhs during the Second Pian period. The actual expenditure incurred during 1956-57, 1957-58, 1958-59/amounted to Rs.16.875 lakhs, Ks.14.464 lakhs, Rs.21.150 lakhs, Rs.21.226 lakhs respectively. The likely expenditure during 1960-61 is Rs.27.947 lakhs. On this basis the expenditure during the Plan period works out to Rs.101.662 lakhs, leaving a shortfall of Rs.28.338 lakhs.

# Targets expected to be achieved by the end of the Second Plan Period:

The position regarding achievement of targets is indicated below:-

1	956-57	1957-58	1958-59	1959-60	1960-61	Total.
		Actual ac	chievement	0	(	5 years).
Area cleared.	1400 acres.	1100 acres.	2080 acres.	2135 acres.	1295 acres.	8010 acres.
No. of agricul- turist families settled;	399 fami- lies.	225 fami- lies.	200 fami- lies.	350 fami- lies.	331 fami- lies.	1505 fami- lies.

In addition to the agriculturist families, 31 artisan families had been settled upto the end of June 1960 and 82 more artisan families will have been settled by the end of the II Plan Period.

<u>Supply of plough cattle to settlers:</u> 3,396 heads of plough animals were purchased and distributed to the settlers.

#### Ancillary services:

23 Primary Schools, 7 Dispensaries and two 20 bedded hospitals have already been established and another 6 Dispensaries and 5 Primary Schools are likely to be established during 1960-61.

#### Overall achievements:

The overall physical and financial achievements anticipated by the end of the II Plan period since the inception of the Colonisation Scheme are indicated below:-

		I Plan.	<u>II Plan</u> .	Total.
1.	Area Cleared:	8100 acres.	8010 acres.	16,110 acres.
2.	No. of agriculturist families settled:	1006	1505	2,511
3.	No. of artisan families settled:	-	113	113
4.	Expenditure:	Rs.68.032 H lakhs.	&.101.662 ' lakhs.	Rs.169.694 lakhs.

# Approach to the Third Five Year Plan:

It is proposed to clear 7500 acres of forest land for settlement of 1500 families. Necessary ancillary services like dispensaries and schools will also be provided in the newly settled area.

# Salient features of the Schere:

Each agriculturist family to be settled under the Colonisation Scheme is given a cleared area of 5 acres for paddy cultivation and another 5 acres of jungle land for homestead cultivation, besides the following financial assistance:-

#### (a) <u>Recoverable Loan:</u>

(2) (3)	House Building: Plough animals: Cost of Utensils: Seeds and Manure:	Rs. Rs.	700 130	Loan. Loan. Loan. Loan.
		Rs.	1730	Loan.

#### (b) <u>Ex-gratia Grant:</u>

 (1) Subsistence allowance (Rs.70/- per month for 8 months in the first year and 4 months in the next year).
 (2) Passage.
 (2) Rs. 210/- Ex-gratia. Rs. 1050/- Ex-gratia. Estimate

<u>1961-62</u> <u>1962-63</u> <u>1963-64</u> <u>1964-65</u> <u>1965-66</u> <u>Total</u>. Non-recurring: Rs. Rs. Rs. Rs. Rs. 1. Cost of clearing 7500 acres @ Rs.500/- per acre. 750000 750000 750000 750000 750000 3750000 2. Ex-gratia grant to 1500 families @ 300 families per year @ Rs.1050 per family. 315000 315000 315000 315000 315000 1575000 3. Loans to 1500 families @ 300 families per year @ Rs.1730/-per family. 519000 519000 519000 519000 519000 2595000 4. Loan provision for construction of houses for families already settled @ Rs.800/-300000 per family. 300000 300000 300000 400000 1600000 Education: 1. Equipment for 20 primary schools @ 4 schools per year @ Rs.2000/-8000 40000 per school. 8000 8000 8000 8000 2. Cost of buildings for 20 primary schools and staff quarters @ Rs. 35,000 per set @ 4 schools 140000 140000 140000 700000 140000 140000 per year. Medical: Cost of initial equipment for 11 dispensaries @ Rs.2,000/- each (3 in the first year and 2 each in the sub-6000 4000 4000 4000 4000 22000 sequent year.) Cost of dispensary building and a compounder's quarter. @ Rs.20,000 per set. 60000 40000 40000 4000040000 220000 -----Total Non-recurring: 2098000 2076000 2076000 2076000 2176000 1050200 Recurring:

Contingencies for feeding the settlers on arrival, free sea transport to carry sick settlers to and from Colonisation areas, free supply of water on arrival from mainland, free labour for carrying heavy and cumbersome luggages from ship to destination,

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••• 01 ••								
	<u>1961-6</u> Rs.	2 <u>1962-63</u> Rs.	<u>3 1963-64</u> Rs.	<u>1964-65</u> Rs.	<u>1965-66</u> Rs.	<u>Total</u> . Rs.		
free water transport labour for carriage paddy seeds etc. from Deptt: to Colonisatic and free water transp labour for the carria cooperative stores e	of m supply on areas port and age of							
Pay of teachers@	50000	50000	50000	50000	50000	250000		
R. 68/- p.m. in the scale of R.68-170. Dearness allowance	3264	6720	10368	14208	18240	52800		
@ Rs.55/- p.m.	2640	5280	7920	10560	1 <b>3</b> 200	39600		
Middle Andaman Spl:Pay @ 40%.	1305	2688	4147	5683	7296	21119		
Contingencies @ R.100 per school per year.	400	800	1200	1600	2000	6000		
Pay of compounders @ Rs.60/- p.m. in the scale of Rs.60-130.	2160	3948	5428	7020	8784	27340		
Dearness Allowance @ Rs.55/- p.m.	1980	3300	4620	5940	<b>7</b> 440	23280		
Middle Andaman Specia Pay @ 40%.	al 864	1579	2171	2808	3514	10936		
Pay of ward attendant (3 Nos). on Rs. 30/-p.m. in the scale of Rs. 30- Dearness allowance	1080	1818	2604	3366	4140	13008		
@ Rs.45/- p.m.	1620	2700	3780	4860	5940	18900		
Cost of medicines@ Rs.1000/- per year,	3000	5000	7000	9000	11000	35000		
Other contingencies @ R.1000/- per year per dispensary.	3000	5000	7000	¹ 9000	11000	35000		
Total recurring:	71313	88833	106238	124045	142554	532983		
Non-recurring Total:2	2098000	2076000	2076000	2076000	2176000	10502000		
Recurring Total:	71313	88833	10 <b>623</b> 8	124045	142554	532983		
Grand Total: 2	2169313	2164833	2182238	2200045	2 <b>31</b> 8554	11034983		
2(ii) <u>Expenditure Sta</u>		(Rs. in lakhs)						
Non-recurring: Recurring: Loans: Other than loans:	0.713 8.190	0.888 8.190	1.062 8.190	20.760 1.241 8,190 13.810	1.426 9.190	105.020 5.330 41.950 68.400		
Foreign Exchange expenditure:	-	-	-	-	-	-		

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3. Principal targets to be achieved:

1. To clear 7,500 acres of forest land and settle 1,500 agriculturist families of colonists from the mainland of India

- 2. To set up 13 dispensaries in the Colonisation areas.
- 3. To open 20 single teacher primary schools in colonisation areas.
- 4. This is a continuing scheme:

# 5. <u>Requirement of man power for the construction phase:</u>

		Administrative. Technical. Skilled. Un-skilled.		) 9 m.m. 1840 m.m. (1472 m.m. (4800 m.m.
6,	Req	uirement of man powe	<u>r for</u>	the continuing phase:
	1. 2.	Administrative Technical.		720 420

**3.** Skilled. -- - - 420

# 7. <u>Requirement of Principal materials.</u>

Item.	Quantity. (tons)	<u>Value.</u> Rs.
<ol> <li>Timber.</li> <li>Steel.</li> <li>Cement.</li> <li>G.C.I. Sheets.</li> </ol>	874 33.1 460 92	2,40,350 33,100 96,600 77,280

- 8. <u>Receipts</u>.
- 9. <u>Remarks</u>:

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AN THAT HUSBANDRY

#### ANIMAL HUSBANDRY

According to Livestock Census of 1956, the number of cattle in this territory were as follows:-

(a)	Cattle Buffaloe	c 0 🔹	3,915
(b)	Buffaloe	0 0 4	5,238
(c)	Poultry	<b>3</b> 0 <b>8</b>	58,802
(d)	Pigs.	0 <b>6</b> •	14,449

3,477 plough Animals (he-buffaloes) were imported from the mainland upto 1959-60 for supply to settlers under the colonisation scheme.

The outlay on Animal Husbandry Schemes amounted to Rs.3.800 lakhs. The table given below indicates the expenditure incurred under the various schemes during 1956-57, 1957-58, 1958-59, 1959-60 and likely expenditure during 1960-61.

<u>S.</u> 1	7	Plan pro- vision (Rs.in lakh	incu s) <u>duri</u>			<u>59 59-6</u>	<u>56-6</u> Likely
							expendi- ture during <u>1960-61</u> .
1.	Key Village Scheme	1.540	0.008	0.004	0.139	0.143	0.697 0.991
2.	Grass Farm(Animal Nutrition Scheme)	0.260	-	0.051	0.043	0.053	0.088 0.235
З.	Expansion and Improvement of Veterinary						
	Service ⁵ .	1.500	-		0.094	0.519	0.719 1.332
4.	Poultry Farming.	0.500	0.005	<u></u>	0.010	0.047	0. 1970.255
	Total.	3.800	0.013	0.055	0.286	0.762	1.7012.81'

A brief review of the progress made/or expected to be made under the various schemes is given below:-

#### Key Village Scheme:

The scheme envisaged establishment of one Artificial Insemination Centre and a unit of 6 Key villages in the Andaman Islands. Four key villages have been set up. An Artificial Insemination Centre and two more key villages are expected to be set up by the end of the Second Plan. The progress of the scheme has been seriously impeded due to shipping bottleneck and non-availability of a Veterinary Assistant Surgeon trained in the techniques of artificial insemination.

#### Animal Nutrition Scheme:

One grass farm has been set up and another grass farm is likely to be set up before the end of the Second Plan.

#### Expansion and improvement of Veterinary Services:

The scheme envisaged establishment of two Veterinary hospitals and four Veterinary Out posts. One Veterinary hospital at Rangat and three Veterinary Out posts one each at Betapur, Mayabunder and Kadamtala have been set up and are functioning. One more Veterinary hospital at Diglipur and an Out post at Kalara are expected to be established during 1960-61.

#### Poultry Farming:

The scheme envisaged establishment of 5 poultry farms. One poultry farm with an initial stock of 102 birds has been set up. One more poultry farm is likely to be set up during 1960-61. The remaining three poultry farms are not likely to be set up during the Second Plan period owing to non-availability of birds.

#### Approach to the Third Five Year Plan.

Though the cattle population is large, comparatively a high proportion of live stock is uneconomic or of inferior quality and the yield of milch cattle is poor. The existing fodder resources are inadequate. Measures have, therefore, to be taken to upgrade the breed of cattle, to eliminate inferior breeds and to improve the veterinary resources. There is a deficiency of milch cows, milch buffaloes and goats which is to be made good. In order to cater for adequate medical aid to live-stock in villages, veterinary services require to be expanded. The programme for the development of poultry is to be speeded up. It is felt that the goatery development also offers good prospects of improving economic conditions of the people in villages.

Outlay and programme of development under the Third Five Year Plan:

Altogether 5 schemes involving a total outlay of Rs.7.922 lakhs are proposed for inclusion in the Third Five Year Plan. The schemewise distribution of the outlay is given below:-

Sl. No	Name of the Scheme.	Outlay ( <u>R. in lakhs</u> )
1.	Expansion and improvement of Veterinary services.	2,056
2.	Poultry Farming scheme.	0.932
з.	Training of poultry keepers.	0.035
4.	Goat Breeding Scheme.	1.399
5.	Supply of milch cattle. Total.	<u>3,500</u> 7,922

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LIVE STOCK DEPARTMENT, Andaman and Nicobar Islands.

<u>Name of S</u>	cheme:		EXPANSION AND IMPROVEMENT OF VETERINARY SERVICES.
			Agriculture and Community Development. Animal Husbandry.
5 ub-meau	) 4	_	Veterinary hospitals and dispensaries.

#### 1. Object of the Scheme:

The veterinary services provided at present in the colonisation areas of the Andaman Islands where agriculturist families from the mainland are being settled every year are inadequate. Veterinary services have also to be extended to the Nicobar group of Islands. The scheme envisages establishment of one veterinary dispensary at Car Nicobar and three veterinary outposts in the colonisation areas during the Third Five Year Plan.

2(i) Estimated expenditure. <u>1961-62</u> <u>1962-63</u> <u>1963-64</u> <u>1964-65</u> <u>1965-66</u> <u>Total</u>. Rs. Rs. Rs. Rs. Rs. Rs. Rs. Rs. Non-Recurring 1.Building for one dispensary and 3 outposts.40,000 10,000 10,000 60,000 2.Residential quarters for compounders, dressers and 30,000 10,000 10,000 50,000 cleaners. 3.Equipment 8,000 and furniture. 4,000 2,000 2,000 -Total Non-74,000 22,000 22,000 -1,18,000 Recurring. -Recurring. I. Pay 1.Veterinary compounders(4) 8,508 960 1,464 1,980 2,028 2,076 (2+1+1) in the scale of Rs.40-1-50-2-60. 3,362 822 Special Pay. 376 577 784 803 2.Dressers(4)(2+1+1)in the scale of 840 1,284 1,740 1,788 1,836 7,488 Rs.35-1-50. 3.Cleaners (4) (2+1+1) in the scale of Rs.30-6,294 ┋-35. 720 1,092 1,470 1,494 1,518 II.<u>Allowances</u>, <u>Honoraria etc</u>. 1.Dearness

Allowance.3,4805,2206,9606,9606,96029,5802.Travelling<br/>Allowance.2003004005005001,900

	1061 <b>6</b> 9	1060 60	1000 64	1064 65		A Total
	<u>1901-02</u> Rs.	<u>1962-63</u> Rs.	<u>1963-64</u> Rs.	<u>1964-65</u> Rs	<u>1965-6</u> Rs.	Rs.
III. <u>Other Charges</u>		-				
1. Medicine.	3,000	4,000	5,000	5,000	5,000	22,000
Misc.contingencies		1,500	2,000	2,000	•	8,500
Total Recurring.	10,576	15,437	20,334	20,573	20,712	87,632
Non-Recurring	74,000	22,000	22,000	-		L,18,000
Total. Recurring Total.	10,576	15,437	20,334	20.573	20,712	87,632
Grand Total.	<u>10,810</u> 84,576	37,437				205,632
dianu iotar.	019070	019-201		20,010	209122	
2(ii) Expenditure	Statemer	<u>nt:</u> (Rs	. in lak	hs)		
Non-Recurring.	0.740	0.220	0.220	-		1.180
Recurring:	0.106	0.154	0,203	0.206	0.207	0.876
Loans. Other than loans:	0.846	0.374	0.423	0.206	0.207	2.056
Foreign exchange	•••					
expenditure.	-	-	-	-		-
		<u></u>				
3. Principal targe						
To esta	ablish of	ne dispe	nsary an	d three	outpost	ts.
4. This is a new (	Scheme.					
5. Requirement of						,
for the constru		nase.				
1. Adminis 2. Technica			) ln.n	•		
3. Skilled			, 220 n	• M •		
4. Un-skil	led		170 n	•m•		
6. Requirement of	man pow	er				
for the contin						
1. Adminis	trative	ă <b>n</b>				
2. Technic			204 m	l.m.		
3. Skilled 4. Un-skil	1 04		<b>-</b> 408 m	1 <b>m</b> .		
T. UII-SKLL	it Gr		400 13	2 <b>0</b> 1 <b>4</b>		
7. Requirement of	princip	al mater	<u>ials</u> .			
<u>Iten</u>			Quanti		Value	
			(tons		Rs .	,
1. Timber		<b></b>	104		28,737	
2. Steel 3. Cement		<b>-</b>	4 55		3,960 11,550	
4. G.C.I.S	heets.		11		9,240	
				NT - 7		
8. <u>Receipts:</u>		•••		Nil Ngl		
Total Receipts	0	• • •		Nil		
9. Remarks:		9 G <b>B</b>				

LIVESTOCK DEPARTMENT Andaman and Nicobar Islands.

Name (	of	Scheme:	POULTRY	FARMING	SCHEME

Head	)	0	-	Agriculture and Community Development
Sub-head	)			Animal Husbandry. Poultry Development.

#### 1. Object of the Scheme:

Poultry farming in these Islands has grown on haphazard lines with the result that the average production capacity of a local hen is nearly 50 eggs per year. It is, therefore, considered desirable to develop this industry on scientific lines so that it could, among other things, provide lucrative profession to enterprises in the form of easy and quick cash returns without much investments. With this purpose in view, it was proposed to set up, under the Second Five Year Plan, five poultry farms, each with an initial stock of 75 hens and 10 cocks of good breed viz: White Leg Horns and Rhode Island breed. One poultry farm with an initial stock of 102 birds has already been established at Port Blair and one more farm is likely to be established at Car Nicobar by the end of 1960-61. As the target set out under the II Plan will not be achieved owing to non availability of birds it is proposed to continue the scheme during the III Plan and establish the remaining three poultry farms during that period.

#### 2(i) Estimated expenditure.

	<u>1961–62</u> Rs.	<u>1962-63</u> Rs.	<u>1963-64</u> Rs.	<u>1964-65</u> ^{Rs} .	<u>1965-66</u> Rs.	5 <u>Total</u> . Rs.
Non-Recurring:						
1.Cost of birds 2.Cost of Iron	1,500	1,500	1,500	-	-	4,500
crates (3) 3.Cost of Incu-	500	500	500	-	-	1,500
bators (3)	1,000	1,000	1,000	-	-	3,000
4.Feeding trough	1 400	400	400	-	-	1,200
5.Poultry houses	<b>10,0</b> 00	10,000	10,000	-	-	30,000
Total Non- Recurring.	13,400	13,400	13,400	<del>4.</del>		40,200
Recurring: 1. Pay 1. Poultry attendant (3) in the scale of R.40-1-50 (1+1+1) 2.Mazdoors(3)	480	972	1 <b>,</b> 476	1,512	1,548	5,988
in the scale of $\mathbb{R}_{.30-\frac{1}{2}-35}$ (1+1+1)	360	726	1,092	1,110	1,128	4,416
II. <u>Allowances</u> <u>Honoraria</u> eto 1. Dearness Allowance.	2. 1,080	1,620	2,160	2,700	3,240	10,800
2. Travelling allowance.	200	400	400	400	400	1,800

	-		•			
				<u>1964-65</u>		
III.Other Charges.	Rs 🖕	Rs .	Rs 🖕	Rs 🖕	Rs 🖕	Rs 🖕
l.Cost of feeding birds.	2,000	4,000	6,000	6,000	6,000	24,000
2.Miscellaneous contingencies.	500	1,000	].,500	1,500	1,500	6,000
Total recurring:	4,620	8,718	12,628	13,222	13,816	53,004
Non-recurring Total.	13,400	13,400	13,400	-	-	40,200
Recurring Total.	4,620	8,718	12,628	13,222	13,816	<u>53,004</u>
Grand Total.	18,020	22,118			13,816	
2(ii) Expenditure	Stateme	<u>nt</u> :	(Rs. in 1	akhs)		
Non-recurring. Recurring.	0.134 0.046	0.134 0.087	0.134 0.127	0.132	0.138	0.402 0.530
Loans. Other than loans. Foreign exchange	0.180	0.221	0.261	0.132	0.138	0.932
expenditure.	1955. 	<b>الت</b> 	<b>aa</b>	rdii		
3. Principal targe	ts to be	<u>achiev</u>	<u>ed</u> :			
To establ	ish thre	e poult	ry farms.			
4. This is a conti	nuing so	cheme.				
5. <u>Requirement of</u> construction ph		e <mark>r for t</mark> l	<u>1e</u>			
l. Admini 2. Techni 3. Skille 4. Unskil	cal d			Nil 66 M.M. 53 M.M.		
6. <u>Requirement of</u> continuing phas		er for tl	<u>1e</u>			
l. Admini						
2, Techni 3. Skille		2 <b>2</b> 2	88 408 87 12 13			
4. Unskil			3 21	144 MM.		
7. Requirement of	Princip	al mater	ials.			
<b>T</b> 4					alue Rs.	
<u>Iten.</u> 1. Timber					,708	
2. Steel.		427 		1.2 1	,200	
3. Cement 4. G.C.I.					,500 ,800	
	<u>)61-62</u> 1	<u>962-63 1</u>	<u>963-64 19</u>	9 <u>64-65</u> 19	<u>65-66 To</u>	tal.
1. By sale of	Rs 🛛	Rs.	Rs,	Rs .	τωe	1 W 🕈
eggs and		• -		-	000 0-	500
chicken.						<u>,500</u>
Total receipts.	- 2	,600	4,500	7,200 7	,200 21	,500
9. <u>Remarks</u> :						

Scheme No. 25.

LIVE STOCK DEPARTMENT Andaman and Nicobar Islands.

Name of Scheme: TRAINING OF POULTRY KEEPERS

Head	)	0	 Agriculture and Community Development.
			Animal Husbandry.
Sub-head	)	Ι	 Training of Personnel.

#### 1. Object of the Scheme:

Poultry farming in these Islands is practised haphazardly with the result that the average production capacity of a local hen is about 50 eggs per year. It is, therefore, desirable to develop this industry on scientific lines so that it could, among other things, provide lucrative profession to enterprisers in the form of easy and quick cash returns without much investment. The scheme envisages training of 20 private poultry breeders each year in the modern techniques of poultry farming. Training will be imparted by the existing staff of the Live Stock Department. Altogether 100 persons will be trained during the Third Plan period. The duration of the training will be one month. Each of the trainees will be paid a stipend of Rs.30/- per month.

2(i) Estimated expenditure:

	<u>1961-62</u> Rs.	<u>1962–63</u> ^{Rs} .	<u>1963-64</u> Rs.	<u>1964-</u> Rs.	65 <u>1965</u> - Rs	66 <u>Total</u> . Rs.
Non-recurring:			Ni			
Non-recurring Total.			• Nil			
<u>Recurring</u> : <u>Other Charges</u> :						
1.Stipends to 20 trainees every year @ Rs.30/-each	n 600	600	670	500	<b>60</b> 0	3,000
2.Miscellaneous contingencies.	100	100	100	100	100	500
Total Recurring.	700	700	700	700	700	3,500
Non-recurring Total.	al - 700	700	700	700	700	3,500
Grand Total.	700	700	700	700	700	3,500
2(ii) Expenditure	e statem	<u>ent</u> :	<b>(</b> H	s. in l	akhs)	
Non-recurring. Regurring. Loans.	0.007	0.007	0.007	0.00?	0.007	0.035
Other than loans Foreign Exchange expenditure.	0.007	0.007	0.007	0.007	0.007	0.035
3. Principal tar	gets to	<u>be achie</u>	<u>ved</u> :			

To train 20 persons every year in the technique of poultry keeping.

- 4. This is a new Scheme.
- 5. Requirement of man power for the construction phase: Nil.
- 6. Requirement of man power for the continuing phase: Nil
- 7. Requirement of principal materials: Nil

**∵•** .

Nil

- 8. Receipts ) 9. Remarks )
- 9. Remarks

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LIVE STOCK DEPARTMENT Andaman and Nicobar Islands.

<u>Name of Scheme:</u> GOAT BREEDING SCHEME

Head	)	0	-	Agriculture and Community Development.
and	)	03		Aninal Husbandry.
Sub-head	)	З		Livestock improvement and development.

#### 1. Object of the Scheme:

Although the goats thrive well in these Islands, their number is very small to meet the local requirement for meat pyrposes etc. No systematic efforts have been made so far to rear this animal, the poor man's cow on scientific lines. The scheme envisages establishment of a goat breeding farm for upgrading the local stock and to increase their supply.

Jamma Pari and Nellore breeds will be tried and surplus male goats after the age of 12 years will be made available to villagers for upgrading the local stock. She goats will also be sold to the public.

#### 2(i) Estimated expenditure:

	<u>1961-0</u> Rs.	52 <u>1.962-63</u>	<u>1963-6</u> Rs.	<u>54 1964-6</u> Rs.	5 <u>1965-</u> Rs.	<u>66 Total</u> . Rs.
Non-recurring:		Rs .	16.	φ CJ1	10 .	2 G G
1.Cost of five male goats and '45 sne goats @ Rs.1CO/-each (Jamna Pari)	l	-	-	_	_	5,000
2.Cost of five male goats and 45 she goats @ R.1CO/- each (Nellore)		5,000	-	-	-	5,000
3.Cost of shed to accommodate 400-500 goats.	20,000	( <b>m</b>	57	-		20,000
4.Equipment.	2,000	127) 1287 - 1287 - 1287 - 1287 - 1287 - 1297 - 1297 - 1297 - 1297 - 1297 - 1297 - 1297 - 1297 - 1297 - 1297 - 1297 -			na) Sangaragan Sanata S	2,000
Total Non- recurring, _	27,000	5,000	e.		<b>ب</b> ینی میک در این میک در میک در میک در میک	32,000
<u>Recurring</u> : (a) <u>Pay</u> .						
1.Mazdoors(2) in the scale of Rs.30-1-35.	720	732	744	756	768	3,720
2.3weeper (1) in the scale c Rs.30-2-35.	f 360	366	372	378	384	1,860
(b) <u>Allowances</u> and <u>Honoraria</u> . Dearness Allowance.	-	1,620	l,620	1,620	1,620	8,100
(c) <u>Other</u> <u>Charges:</u> 1.Cost of						
feeding goats.	6 <b>,</b> 900	17,200	21,700	21,700	21,700	89,200

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	<u>1961–62</u> Rs.	1962-63 Rs.	<u>1963–64</u> Rs.	1964-65 Rs.	1965-66 Rs.	Total- Rs.
2.Miscellaneous contingencies.	1,000	1,000	1,000	1,000	1,000	5,000
Total Recurring.	10,600	20,918	25,436	25,454	25,4721	p7,880
Non-recurring Total. Recurring Total. Grand Total.	27,000 10,600 37,600	5,000 20,918 25,913	25,436 25,436	25,454 25,454	25,472 25,472 1	
2(11) Expenditure	e Statemo	ent.	(Rs. 141	n lakhs)		
Non no cummana						
Non-recurring. Recurring. Loans. Other than loans Foreign ex- change expendi- ture.	0.270 0.106 0.376	0.050 0.209 0.259	0.254 0.254	0.255	0.255	0.320 1.079 1.399

3. Principal targets to be achieved:

To establish a goat-breeding farm and with the object of upgrading the local inferior stock, and increasing their supply to neet local requirement of mutton.

4. This is a new Scheme.

5. Requirement of man-power for the construction phase:

$\binom{1}{2}$	Administrat Technical	ive	)	1	man	month.
(3)	Skilled Unskilled	* 0 * 9 * e	-			months. months.

#### 6. Requirement of man-power for the continuing phase:

(1)	Administrati	ve	)			
	Technical		)	Γ	Vil	
(3)	Skilled		)			
<b>(</b> 4)	Unskilled	a 3 a		180	man	months.

7. Requirement of principal materials:

<u>Item</u>	<u>Quantity</u> (Tons)		<u>Value</u> Rs.
1. Timber.	19	• • • •	5,225
2. Steel.	1		720
3. Cement.	10	0 0 0	2,100
4. G.C.I. Sheets.	2	8 0 3	1,680

#### 8. <u>Receipts:</u> ... Not yet assessed.

9. <u>Remarks</u>: ... Nil

# LIVE STOCK DEPARTMENT Andaman and Nicobar Islands.

Name of Scheme: SUPPLY OF MILCH CATTLE.

Head	)	0	e ali	Agriculture and Community Development.
		04	<b>6</b> 28	Dairying and Milk Supply.
sub-head	)	9	-	Miscellaneous.

#### 1. Object of the Scheme:

There is an acute shortage of milch cattle in the Andaman Islands, particularly in North and Middle Andamans where large number of settlers have been settled. As per their terms and conditions of settlement, they have been provided with plough cattle only. Their financial resources being slender, they are not in a position to purchase milch cattle without financial assistance from the Government. With a view to providing milch cattle for the purpose of procreation, and meeting the shortage of milk supply, the scheme envisages purchase of milch cattle of good breed from the mainland by the Government and their distribution to the needy and deserving persons by treating the cost of the animals and other incidental charges as medium term loan. Loans in cash will also be granted to persons desirous of purchasing milch cattle locally or from the mainland by making their own arrangements for shipping.

2(i) Estimated expenditure:

	<u>1961-62</u> Rs.	<u>1962-63</u> Rs.	<u>1963-64</u> ^{Rs} .	<u>1964-65</u> Rs.	<u>1965-66</u> Rs.	<u>Total</u> . Rs.
Non-recurring: 1.Cost of 50 milch cows @ Rs.500/- each per year. 2.Cost of 50 milch buffaloe: @ Rs.750/- each		2 <b>5,</b> 000	25,000	25,000	25,000	1,25,000
per year.	37,500	37,500	37,500	37,500	37,500	1,87,500
Total Non- recurring.	62,500	62,500	62,500	62,500	62,500	<b>3,12,5</b> 00
Recurring: Other charges						
Misc. contingencies.	7,500	7,500	7,500	7,500	7,500	37,500
Total Recurrin	g. <u>7,500</u>	7,500	7,500	7,500	7,500	37,500
Non-recurring Total. Recurring Tota		62,500 7,500	62,500 7,500	C2,500 7,500	7,500	3,12,500 37,500
Grand Total.	70,000	70,000	70,000	70,000	70,000	3,50,000
2(ii) <u>Expendit</u>	ure Stat	enent:	(Ps	• in lak	hs)	
Non-recurring. Recurring. Loans. Other than loa Foreign exchan	0.075 0.625 ns0.075	0.625 0.075 0.625 0.075	0.625 0.075 0.625 0.075	0.625 0.075 0.625 0.075	0.625 0.075 0.625 0.075	3.125 0.375 3.125 0.375
expenditure.	50 -	-	ox.		-	-

To supply 500 milch cattle to the people of Andaran Islands with the object of increasing milk production.

- 4. This is a new Scheme.
- 5. Requirement of man-power for the construction phase: Nil
- 6. Requirement of man-power for the continuing phase: Nil
- 7. Requirement of principal materials: ... Nil
- 8. <u>Receipts</u>: ) 9. <u>Remarks</u>: ) Nil

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#### FORESTS

#### Progress during the First Plan: -

The Forest Department continued its normal activities. Second Five Year Plan: -

The forestry schemes included in the Second Five Year Plan were intended to provide for new equipment to replace and strengthen the existing outlived and outmoded equipment for increasing the production of conmercial timber and to carry out programmes for development of forest roads, training of personnel, preservative treatment of wood by installing a Pressure Treatment Plant, revision of the Forest Working Plan, creation of Teak, matchwood, cane and bamboo plantations, establishment of an additional seasoning kiln with a view to upgrading secondary timbers and utilising them fully, organisation of research work on silvicultural problems, establishment of a Portable Sawmill, setting up of a Boat Building Yard for construction of boats, and purchase of new machinery for large scale extraction of mangrove poles. Altogether 12 schemes involving an outlay of Ns.80 lakhs were included in the Plan; of which implementation of 4 schemes costing Ns.25.000 lakhs was held in abeyance on the advice of the Government of India. The table given below indicates the progress of expenditure during 1956-57, 1957-58, 1958-59, 1959-60 and likely expenditure during 1960-61:-

(Rs. in lakhs)

Name of scheme	Plan provi sion.	$\frac{Progroup}{1956-57}$	<u>055 of 0</u>	expenditi	ure	Likely Tota 60expendi fiv
Č Č		1900-07 1	1997-95 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	¥ ¥	ture yea: during 195 1960-61 61
2	x X 3	<u>    4      </u>	¥ 5	6	7	<u>8</u> 8 9
Purchase of equip- ment.	30,500	-	0.404	0.122	0.969	0.700 2.195
Forest Roads.	10.000	-	0.541	0.133	0.070	- 0.744
Training of person nel.	-	_	_	-	-	
Wood Preservation Pressure Treatment		-	-	-	-	
Revision of Forest Wo <b>r</b> king Plan and Forest Inventory.	0.500	_	-	0.039	0.025	- 0.064
Raising of Industr Plantation of Matc wood.		0.124	0.494	0.819	1.574	1,610 4.621
Forest Plantation (Minor Forests)	0.250	0.004	0.024	0.029	0.074	0.140 0.271
Additional Seasoni Kiln.	ng 1.450	-	<b>e</b> *	-	-	
Silvicultural Re- search and Experi- ments.	2.000	_	_		_	0.400 0.400
Portable Saw Mill	3.000	-	0.404	0.758	0.673	0.600 2.435
Boat Building.	3.750	0,003	0 <b>.1</b> 06	0,262	0.145	0.750 1.271
Mangrove Poles Extraction.	3.000					
Total.	80.000	0,136	1.973	2.162	3.530	4.200 12.001

The bulk of machinery and equipment needed for the implementation of forestry schemes required foreign exchange, the value of which can be safely placed at Ns.40.440 lakhs. The expenditure incurred on the purchase of machinery and equipment upto the end of 1959-60 was only Ns.1.495 lakhs. The progress of expenditure during 1960-61 is not expected to improve substantially as shortage of foreign exchange still continues to persist.

A brief review of the progress made/or likely to be made under the various schemes by the end of the Second Plan is given below:-

1. <u>Purchase of equipment</u>: - One Wyssen Skyline Crane and six elephants have been purchased. Purchase of the remaining equipment is not likely to materialise owing to foreign exchange difficulties, and delays in their procurement.

2. <u>Forest Roads</u>: - Two trucks have been purchased. As against the target of 20 miles of forest roads set out for construction, earth work on one mile and survey of another two miles will have been completed.

3. <u>Training of Personnel</u>: - Physical implementation of this scheme has been held in abeyance.

4. <u>Wood Preservation by pressure treatment</u>: - The scheme has been held in abeyance.

5. Revision of Forest Working Plan and Forest Inventory.

The revision of the Forest Working Plan has been completed.

6. Raising of Industrial Plantation of Matchwood: -

As against the target of 1,665 acres of matchwood plantations set out under the scheme, 597 acres of matchwood plantation and 768 acres of teak plantation were raised upto the end of 1959-60. Another 425 acres of matchwood plantation and 510 acres of teak plantation are expected to be raised during 1960-61. The slow progress was due to the fact that sufficient quantities of teak and semal seeds are not available.

7. Forest Plantation (Minor Forests): - It was proposed to raise 100 acres of Malayan cane and 200 acres of bamboo plantation during the Plan period. 75 acres of cane plantation were raised upto the end of 1959-60. In addition, 40 acres of cashewnut plantation have been raised and another 70 acres of cashewnut plantations are likely to be raised during 1960-61. Experimental plantation of cane will also be done during 1960-61. Bamboo plantations could not be raised owing to nonavailability of bamboo seeds.

8. <u>Additional Seasoning Kiln</u>: - The scheme has been held in abeyance.

9. Silvicultural Research and Experiments: -

A Silviculturist has been appointed only with effect from 16.4.60 with the result that not much Leeway is expected.

10. Portable Sawnill: - A small unit with the old available machinery has been installed and put into operation. An indent for the purchase of two numbers industrial type of horizontal diesel engines was placed on the Director General of Supplies and Disposals, but the supply has yet to materialise. 3,484 tons of logs were converted into sawn timber upto the end of 1959-60 since the installation of the Sawmill during 1958-59. Another 1.200 tons of logs will be converted into sawn timber during 1960-61. 11. <u>Boat Building Yard:</u> - Construction of the Boat Building Yard was completed during 1958-59. One hull for towing boat and one timber boat have been constructed. One more hull for towing boat and three dinghies were under construction at the end of 1959-60. In addition, two big and eight small boats are proposed to be constructed during 1960-61.

12. <u>Mangrove Poles Extraction</u>: - The scheme has been held in abeyance,

<u>General</u>:- So far as the production is concerned the outturn of timber increased from 45,825 tons in 1955-56 to 52,930 tons in 1959-60.

Programme for the Third Five Year Plan: -

The outlines of the development programme proposed for the Third Five Year Plan are given below:-

1. <u>Purchase of equipment:</u> This is a continuing scheme. Equipment costing Rs.26.200 lakhs for the exploitation and transportation of timber and one Marine Engine costing Rs.0.800 lakhs for a touring boat will be purchased. In addition a sum of Rs.2.000 lakhs have been provided for recurring expenditure.

2. <u>Raising of Industrial Plantation of Matchwood</u> and Teak: -

2,250 acres of matchwood and 3,750 acres of teak plantations will be raised. A sum of Rs.12.000 lakhs has been provided in the plan for this scheme.

3. Forest Plantation (Minor Forests): - An area of 600 acres will be planted with cane. A sum of Rs.0.720 has been provided in the plan for the scheme.

4. Additional Seasoning Kiln: - An additional seasoning kiln of two chambers (27' x 20' each) with an annual capacity of 2,000 tons for enhancing the utility of many of the largely available secondary timbers such as Badam and White Chuglam which are not being utilised fully, as they are refractory, will be installed. The scheme is estimated to cost Rs.1.326 lakhs.

5. <u>Silvicultural Research and Experiments</u>: - Research work on silvicultural problems will be continued. The scheme will cost Fs.2.475 lakhs,

6. <u>Boat Building</u>: The Boat Building Yard of the Forest Department at Long Island will be further developed to undertake construction of boats of various types. A sum of Rs.4.500 lakhs has been provided for this purpose.

7. <u>Construction of permanent Rest Houses</u>. In the absence of proper Rest Houses in or near about the areas of forestry operations, the touring by officers is rendered extremely difficult and the work suffers. It is proposed to construct 6 Rest Houses at a cost of Rs.1.373 lakhs.

8. <u>Opening of a Training School for Foresters and</u> Forest Guards:-

A Training School will be established for the training of Foresters and Forest Guards to meet the local needs. A provision of R.O.850 lakhs has been made for this purpose.

9. <u>Revision of Forest Working Plan</u>: Detailed stock mapping and enumeration of forests will be undertaken and a Working Plan of each Forest Division will be compiled. The amount required for the scheme is Fs.3.900 lakhs.

#### 10. Cultural Operations in the Nicobar group of Islands:

It is proposed to undertake cultural operations in 1,250 acres at the rate of 250 acres per year with a view to bringing up regeneration of matchwood species mainly.

The scheme is estimated to cost No.2.000 lakhs.

Outlay under the Third Plan: -

Altogether 10 schemes involving an outlay of Rs.58.144 lakhs have been proposed. The phasing of expenditure is as under:-

(Rs. in lakhs)

<u>1961-62</u>	<u> 1962-63</u>	<b>1963-6</b> 4	<u> 1964–65</u>	<u> 1965-66</u>	Total.
26.600	12.669	9.087	4.870	4.918	58.144

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Scheme No. 28.

# FOREST DEPARIMENT Andaman and Nicobar Islands. Name of Scheme: - PURCHASE OF EQUIPMENT. Head: 0 - Agriculture and Community Development. 05 - Forests. Sub-head: 9 - Miscellaneous.

#### 1. Object and brief description of the Scheme:

In the past forest wealth was literally creamed in the accessible areas by lumbering operations. This resulted in the depletion of timber in the accessible areas which has forced the Forest Department to go deep into the interior for systematic exploitation. The extraction pattern in which the department is now involved requires more and more equipment in the shape of Tractors, Towing Boats, Sea-going Launch etc., as the work in the interior progresses. In addition, exploitation of timber from the Nicobar group of Islands and Little Andamans is to be undertaken if feasible. In the Second Five Year Plan, the following equipment was proposed to be purchased for replacement and strengthening the existing out lived and out moded equipment:-

1.	Eight D6 Tractors complete with logging arch and hyster winches @Ps.75,000/- each	^{P5} . 6,00,000/-
2.	Two Bull dozing equipment for the above @ Ps.16,000/- each.	32,000/-
З.	One Wyssen Skyline Crane for timber extraction from areas not easily acce- ssible.	1,00,000/-
4.	One Sea-going Launch of the Type and capacity of S.L.M. Douglas.	13,00,000/-
5. 6. 7. 8.	Six Towing Boats @Ps.50,000/- each. One Touring Boat. Three Brookeville Diesel Locomotives. Extension of Maharaja Jetty to faci-	3,00,000/- 80,000/- 1,40,000/-
	litate berthing of ships of draft upto 26 to 28 feet in lieu of boat- ing out timber on lighters.	2,60,000/-
9.	Purchase of twelve Elephants @ Fs.8,000/- each.	96,000/-
	Total:	29,08,000/-

Only one Wyssen Skyline Crane and six numbers Elephants were purchased up to the end of 1959-60. Purchase of the remaining equipment was not expected to materialise during the Second Plan period owing to snortage of foreign exchange and delays that occur in the procurement. Hence the scheme has to be continued during the Third Five Year Plan, and the following equipment will be purchased:-

1. Six D6 Tractors complete with logging arch and Hyster Winches @Ps.1,25,000/each. 7,50,000/-

2.	One Sea-going Launch of Type and capacity of S.L.M. Douglas,	18,00,000/-
З.	Three Marine Diesel Engines for three Towing Boats. (the hulls will be made locally).	70,000/-
4.	One Marine Engine for a Touring Boat.	80,000/-
	Total:	27,00,000/-

#### 2(i). Estimated expenditure:

	<u>1961-62</u> Ps.	<u>1962-63</u> Fs.	<u>1963-64</u> Es.	<u>1964-65</u> ^{Rs} .	<u>1965-66</u> Ps.	<u>5 Total</u> Fs.
Non-Recurring:	2000000	500000	200000	—	-	2700000
Total Non- Recurring:	2000000	500000	200000			2700000
Recurring:	40000	40000	40000	40000	40000	200000
Total Recurring:	40000	40000	40000	40000	40000	200000
Non-Recurring Total:	2000000	500000	200000	-	-	<b>270</b> 0000
Re <b>curring</b> Total:	40000	40000	40000	40000	4000 <b>0</b>	200000
Grand Total:	2040000	540000	240000	40000	40000	2900000
2(ii). <u>Expendi</u>	ture stat	:ement:	(Rs.	, in lakt	ns)	
Non-Recurring: Recurring: Loans:	20.000 0.400	5.000 0.400	2,000 0,400	0.400	- 0.400	27.000 2.000
Other than Loans:	20.400	5.400	2.400	0.400	0.400	29.000
Foreign ex- change ex- penditure:	19.000	4.000	1.000	-		24.000
3. Principal		o be act	nieved: <u>A</u>	<u>uctus tibe</u>	<u>Frird</u>	
To purchas	e -					
l. Six D6 arch an	Tractors d Hyster	complete Winches	e with lo	ogging		
2. One Sea		unch of		l capaci	ty	
3. Three M	arine Die	esiel Engi	ines for	three Te	owing	
Boats. 4. One Mar	ine Engir	ne for a	Touring	Bcat.		

- 4. One Marine Engine for a Touring Bcat.
- 4. This is a continuing Scheme:
- 5. <u>Requirement of man-power for the</u> --Nilconstruction phase:

# 6. <u>Requirement of man-power for the continuing</u> phase:

1.	Administrative.	-	-Nil-	
2.	Technical.	-	120	m.m.
З.	Skilled.	-	1560	tŝ
4.	Un-skilled.	6739	720	19

7. Requirement of principal materials: - -Nil-

8. <u>Receipts</u>:

	<u>1961-62</u> Fs.	<u>1962-63</u> Fs.	<u>1963-64</u> Ps.		<u>1965-66</u> ^{Rs} .	Total Ps.
By sale of timber.	8000000	8500000	9000000	9500000	10000000	45000000
Total Receipts:	8000000	8500000	9000000	9500000	10000000	45000000

#### 9. Remarks:

Under para 3 item No.l viz. Tractors have been proposed for improving the extraction equipment. Item No.2 viz. Sea-going Launch has been proposed for transportation of logs from South and Middle Andamans for feeding the Chatham Saw Mill. Item No.3 viz. Marine Engines have been proposed for Towing Boats meant to replace the present boats which have outlived their utility. Item No.4 viz. Touring Boat has been proposed for effective supervision of works in view of expanding programme.

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Scheme No.29.

FOREST DEPARTMENT Andaman and Nicobar Islands.

Name of Scheme	• -	RAISING OF INDUSTRIAL PLANTATION OF MATCHWOOD AND TEAK.
Head: V V Sub-head: V	0 - 5 - 3 -	Agriculture & Community Development. Forests. Afforestation and conservation.
		<b>.</b>

1. <u>Object and brief description of the Scheme</u>:

At present the extraction of Match species from the Natural Mixed Forests of Andamans is not at all sufficient to meet the ever increasing demand of Indian Match Industry. Species needed by the Match Industry occur scattered in the forests of Andamans and a vast area has to be covered for their extraction. It is desirable to raise concentrated plantations of these species which would yield more volume per acre and at the same time reduce the extraction cost. Plantations of only such species as are in greater demand by the Match Industry will be raised, instead of depending on the varying proportions that would be available in the naturally re-generated and virgin areas. The Scheme envisages raising of 2250 acres of matchwood, and 3750 acres of teak plantations during the Third Plan period.

2(i). Estimated expenditure:

	<u>1961-62</u> Fs.	<u>1962–63</u> Fs.	<u>1963-64</u> Rs.	<u>1964-65</u> Ps.	<u>1965–66</u> Rs.	Total Fs.
Non-Recurring:	-	-	-	-	-	-
Recurring:						
Cost of survey & formation of 450 acres of match and 750 acres of teak plantations each year in- cluding cost of protection against damages by wild beasts such as pigs and deer.	240000	240000	240000			1200000
Total Recurring	g 240000	240000	240000	240000	240000	1200000
Total Non- Recurring: Total Recur-	- 240000	- 240000	- 240000	- 240000	- 240000	-
ring: Grand Total:	240000	240000	a and the same of the second			1200000

<u>1961-62</u> <u>1962-63</u> <u>1963-64</u> <u>1964-65</u> <u>1965-66</u> <u>Total</u> Fs. Fs. Fs. Fs. Fs. Fs. Fs. Fs.						
2(ii). Expenditure statement: (F. in lakhs.)						
Non-Recurring: Recurring: 2.400 2.400 2.400 2.400 2.400 12.000 Loans: Other than loans: 2.400 2.400 2.400 2.400 12.000 Foreign exchange expenditure:						
3. Principal targets to be achieved: anting the third						
To raise 2250 acres of matchwood and 3750 acres of teak plantations during the plan period, at the rate of 450 acres of matchwood and 750 acres of teak per year.						
4. This is a new Scheme:						
5. <u>Requirement of man-power for the</u> Nil-						
6. <u>Requirement of man-power for the</u> <u>continuing phase</u> :						
<ol> <li>Administrative.) - No separate staff exclusively</li> <li>Technical.</li> <li>Technical.</li> <li>Skilled.</li> <li>Skilled.</li> <li>Un-skilled.</li> <li>Substitution of the scheme will be employed.</li> <li>Staff engaged on normal forestry</li> <li>Work will also implement this scheme.</li> <li>Un-skilled.</li> <li>Substitution of the scheme will be employed.</li> <li>Staff engaged on normal forestry</li> <li>Staff engaged on normal forestry</li> <li>Staff engaged on normal forestry</li> <li>Skilled.</li> <li>Scheme.</li> <li>Staff engaged on normal forestry</li> <li>Scheme.</li> </ol>						
7. Requirement of principal materials:Nil-						
8. <u>Receipts</u> :						
No receipts during the plan period.						

9. <u>Remarks</u>: - -Ni1-

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Scheme No. 30..

FOREST DEPARTMENT Andaman and Nicobar Islands.

Name of Scheme: - FOREST PLANTATION (MINOR FORESTS). Head: 0 - Agriculture & Community Development. 05 - Forests. Sub-head: 3 - Afforestation and Conservation.

1. Object and brief description of the Scheme:

There is at present a large demand for cane. Climatic and soil conditions in Andamans are very suitable for growing Malayan cane which being of a better quality fetches higher price.

The scheme envisages raising of 600 acres of cane plantation at the rate of 120 acres per year.

#### 2(i). Estimated expenditure:

	<u>1961-62</u> Fs.	<u>1962-63</u> Fs.	<u>1963-64</u> Is.	<u>1964-65</u> Fs.	<u>1965-66</u> Ps.	<u>Total</u> Fs.
Non-Recurring:	-	-	-	1000	-	-
Recurring:						
Cost of clear- ance and plant- ations.	14400	14400	14400	14400	14400	72000
Total Recurring	: 14400	14400	14400	14400	14400	72000
Non-Recurring Total:	-	۶» ~			-	-
Recurring Total Grand Total:	: 14400	14400 14400	14400 14400	14400 14400		72000 72000
2(ii). <u>Expendit</u>	ure stat	tenent:	(Rs.	in laking	:)	
Non-Recurring: Recurring: Loans: Other than loan Foreign exchang expenditure:		<b>e</b> .;	0,144 0,144 -	0.144	0.144 0.144 -	0.720 0.720

3. Principal targets to be achieved:

To raise 600 acres of cane plantation at the rate of 120 acres per year.

- 4. This is a new Scheme:

- 6. Requirement of man-power for the continuing phase:
  - 1.
  - 2. Technical.
  - Administrative. 4 No separate staff will be appoint-Technical. 4 ed. Staff engaged on normal forestry Skilled. 4 work will also implement the scheme. Un-skilled. 16 Mazdoors 960 m.m. З. 4.
- Requirement of principal materials: -Nil-7.
- 8. <u>Receipts</u>: an 1 -Wil-
- 9. <u>Remarks</u>: -Nil-4:#

Scheme No. 31.

14

FOREST DEPAR IMENT Andaman and Nicobar Islands.

Name of Scheme: - ADDITIONAL SEASONING KILN. Head: 0 - Agriculture & Community Development. 05 - Forests. Sub-head: 4 - Forest Industries.

A Seasoning Kiln with a capacity of 4000 tons per annum exists at Chatham. The capacity of this Seasoning Kiln will not be adequate once the use of seasoned timber for constructional purposes is popularised. It was proposed to instal an additional Seasoning Kiln of two chambers (27, x 20' each) with a capacity of 2000 tons during the fhird Five Year Plan thus increasing the overall kiln seasoning capacity to 6000 tons per annum. The scheme was not implemented as the demand for seasoned timber did not justify installation of an additional seasoning kiln. The scheme has been switched over to the Third Five Year Plan and subject to the demand, an additional seasoning kiln of the above specifications and capacity will be installed.

2(1). Estimated expenditure:

Ć

		Ēs,	ŀs.	Ps.	<u>Rs</u> ,	<u>1965-66</u> Ps.	<u>F</u> 5.
Non-	Recurring:			·			
	of Kiln bers.		3 <b>0</b> 0000	20000	-		40000
	ot equipres cessories.	int .	5000.0	<b>SCO</b> 00	~	-	40000
S. Cost	of Shed,	<b>N</b> -1	500.0	5000	84.45	-	10000
ticn	of installa and incides charge: .		5000	5000	900° 	.a.	T000C
	l Non- rrinz:	-	50000	50000	-	. –	100000
	<u>rrin</u> a. Leio <u>n of</u> f:						
on R all	rvisor (1) 300/- p.m. inclusive.	-	5 <b>6</b>		3600	3600	7200
b) Operators (3) on B.150/- p.m. bach all inclu- sive.	æ	<b>اھ</b> .	-	5400	5400	10800	
on Pe	cor (6) eac 275/- p.m. inclusive.	h 		-	5400		10800
	es & Sundri	C3 . ==	. Sala Salah Salah Sal	TOD	1900		3800
lota	1 Recurring	0	.د مدين ورجع وليس وردي ويبر 1945 موني وريس	800 273 283 786 46. 880 887 778 874	16300	16300	32600

	<u>1961-62-</u> Ba	1962-63 Ps.	1963 <b>-6</b> 4 Fs.	<u>1964-65</u> Fs.	<u>1965–66</u> <u>T</u> Fs.	<u>otal</u> B.
Non-Recurring Total:	-	50000	50000		- 10	0000
Recurring Tota	11: -	1.4		16300	16300 3	2600
Grand Total:		50000	50000	16300	16300 13	2600
	===========		=======================================			====
2(ii). Expend:	iture state	ement:	15.	in lakhs	)	
Non-Recurring	0 0	0,500	0,500	-	- 1.	000
Recurring: Loans:	-	-		0.163	0.163-0.	326
Other than lo	ans: -	0,500	0.500	0.163	0.163 1.	326
Foreign exchan						
expenditure:						
3. Principal	targets to	<u>be ach</u> :	ieved: d.	The	Tuted	
Tonr.				,		
To put	up an add:	itional	seasonir	e Kiln w	ith a	
capacity of 2				-0		
4. This is a	continuin	g Schene	0			
5. <u>Requiremen</u> phase:	nt of man-	power fo:	r the co	nstructi	on	
atm5.	i a tra a ti ma	7. <b>7</b> .2				
	istrative. ical.					
3. Skill	ed.	. 1.0	- 120 r			
4. Un-sk	illed.	- 20	- 2/10	4		
6. <u>Requireme</u> phase:	nt of man-	power fo	<u>r the c</u> o	ontinuing		
1. Admin	istrative,	Ni	1-			
2. Techn	ical.	- 4	- 96 r	n.m.		
3. Skill 4. Un-sk		Ni 6				
	nt of prin					
Item	<u>9</u>	uantity	(Tons)	Value	e (Fs.)	
1. Timber	•	Ni			-	
2. Steel. 3. Cement		3. 21.	6		10 <b>0/-</b> 536 <b>/-</b>	
J. Cemetro			_	'		
8. <u>Receipts</u> :	<u>1961–62</u> Rs.	<u>1962 -63</u> Rs.	<u>1963-64</u> Rs.	<u>1964-65</u> Rs.	<u>1965-66</u> Rs.	<u>Total</u> Rs.
On account of						
seasonging of 2000 tons of	-	620#	-	20000	20000 4	0000
timber per ye	ar			•		-
@Fs.10/- per t		and the second				0000
Total receipt	5°			20000	20000 4	E0000
		•				
9. <u>Remarks</u> :		<b>5</b> .4	-Nil-			

Scheme No. 32.

# FOREST DEPARIMENT Andaman and Nicobar Islands.

Name of Scher	<u>ne</u> :	-	SILVICULTURAL RESEARCH & EXPERIMENTS.
Q	05	-	Agriculture & Community Development. Forests. Research, Gurvey & Statistics.

Object and brief description of the Scheme: 1.

At present no data regarding the rate of growth of even important species like Padauk and Gurjan is available on which rotation could be based. Research on regeneration, tending etc. is urgently required and is most essential for successful restocking and tending of exploited areas. This can be achieved only by instituting scientific silvicultural research. The scheme aimed at providing an organisation under the charge of a Deputy Conservator of Forests assisted by one Ranger and 3 Deputy Rangers to undertake research on silvicultural problems was included : the Second Five Year Plan but no leeway could be expected due to late appointment of the technical staff. The scheme will be continued during the Third Five Year Plan to carry out research on the following problems:-

i) Regeneration of evergreen and decidious forests.

- ii) Statistics of growth and yield.
  iii) Tending operations.
  iv) Introduction of exotics such as Teak, Mahogany etc.

#### 2(i). Estimated expenditure:

	<u>1961-62</u> Fr.	<u>1962-63</u> Ps.	<u>1963-64</u> Fs.	<u>1964-65</u> Rs.	<u>1965-66</u> Fs.	Total Rs.
Non-Recurring:						
Cost of equip- ment.	10000	5000	5000	-	-	20000
Cost of Office and Laboratory building.	10000	15000	<b>#</b> * ·	-	-	25000
Total Non- Recurring:	20000	20000	5000			45000
Recurring:						
Pay & Allowance of staff.	e ^s 28000	28000	28000	28000	28000	140000
Travelling Allowance.	3000	3000	3000	3000	3000	15000
Labour Charges	. 9000	9000	9000	9000	9000	45000
Miscellaneous contingencies.	500	500	500	500	500	2500
Recurring Tota	1: 40500	40500	40500	40500	40500	202500
		، کی هم که ده دی می هم هم بر		<b>نابو (20 ^{- 2} مو مع مد بار مر</b>		-
Non-Recurring Total:	20000	20000	5000	. =		45000
Recurring Tota	1 <u>: 40500</u>	40500	40500	40500	40500	202500
Grand Total:	60500	60500	45500	40500	40500	247500

	Fs.	P3.	Is.	Es.	Fs.	Ps.
2(ii). <u>Expendit</u>	ure stat	ement:	( Fs.	in lakhs	5)	
Non-Recurring: Recurring: Loans:	0.200 0.405	0.200	0.050 0.405	0.405	0.405	0.450 2.025
Other than loan		0.605	0.455	0.405	0.405	2,475
Foreign exchange expenditure:	e _	-	-	-	-	-

1961-62 1962-63 1963-64 1964-65 1965-66 Total

Principal targets to be achieved starting and Front Year 1 and З.

To undertake research to find solution to the leading silvicultural problems.

- 4. This is a continuing Scheme:
- Requirement of man-power for the construction phase: 5.
  - Administrative.)_ 1 m.m. Technical. 1.
  - 2. - 50 " 3. Skilled.
  - Un-skilled. **-** 40 " 4.
- 6. Requirement of man-power for the continuing phase:
  - 1. Administrative. 1 60 m.m. 2. Technical. 4 240 " 3. Skilled. -Nil-4. Un-skilled. 10 600 "
- 7. Requirement of principal materials:

	Item	<u>Quantity (Tons)</u>	Value (Ps.)
	1. Timber. 2. Cement. 3. Steel.	3712 811 112	8,880/- 1,890/- 900/-
8.	Receipts:	➡ va [ī́i]] on	
9.	Remarks:	Nil-	

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Scheme No.33.

FOREST DEPARTMENT Andaman and Nicobar Islands.

<u>Name of Scheme</u>: - BOAT BUILDING.

Head: 0 - Agriculture & Community Development. 05 - Forests. Sub-head: 4 - Forest Industries.

1. Object and brief description of the Scheme:

The Boat Building Yard at Long Island constructed during the Second Plan period will be further developed to undertake construction of various boats primarily for use of the Forest Department. In constructing these boats, timber extracted from Andaman Forests will be utilised.

2(i). Estimated expenditure:

 $\frac{1961-62}{P_{5}} \xrightarrow{1962-63} \frac{1963-64}{P_{5}} \xrightarrow{1964-65} \frac{1965-66}{P_{5}} \xrightarrow{Total}{P_{5}}$ 

Non-Recurring:

Cost of slipway, ancillary equip- 19000 ment etc.	50000	15000	-	-	75000
Total Non- Recurring: 10000	50000	15000		-	75000

Recurring:

Expenditure on manufacture of boats including 75000 75000 75000 75000 75000 375000 of staff and cost of raw materials. 75000 Total Recurring: 75000 75000 75000 75000 375000 Non-Recurring 10000 15000 75000 50000 .... Total: Recurring Total: 75000 75000 75000 75000 375000 75000 75000 75000 450000 85000 125000 90000 Grand Total: (Rs. in lakhs) 2(ii). Expenditure statement: 0.500 0.750 Non-Recurring: 0.100 0.150 0.750 0.750 3.750 0.750 0.750 0.750 Recurring: Loans: 0,750 0.750 4.500 0.900 Other than loans:0.850 1.250 Foreign exchange ---expenditure:

- 3. Principal targets to be achieved: during the thank
  - 1)
  - To construct a Slipway. To construct 50 big and small boats at the rate of 10 boats per year. 2)
- 4. This is a new Scheme:
- Requirement of man-power for -Nil-5.
- Requirement of man-power for the continuing phase: 6.

1. Administrativ	e	-Nil-	
2. Technical.	-	12 - 720 m.m.	(including ship
3. Skilled.		-Nil-	wrights boat
4. Un-skilled.		30 -1800 m.m.	

.

7. Requirement of principal materials:

Item	Quantity (Tons)	Value (Fs.)	
l. Timber. 2. Steel.	75 per year 2 <del>1</del> "	18,000/- 1,500/-	
8. <u>Receipts</u> :	<u>1961-62</u> <u>1962-63</u> Rs. Rs.	<u>1963-64</u> <u>1964-65</u> <u>196</u> Rs. Rs.	<u>8. Total</u> Rs. Rs.
Value of boats.	100000 100000 10	00000 100000 100000	500000
Total receipts: =	100000 100000 10 =======================	00000 100000 100000	500000

9. Remarks: - -Nil-

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Scheme No. 34.

## FOREST DEPARTMENT Andaman & Nicobar Islands.

Name of Scheme:	CONSTRUCTION OF PERMANENT REST HOUSES.
1 05 <b>-</b>	Agriculture and Community Development. Forests. Forest Development including roads and buildings.

#### 1. Object of the scheme:

Considerable inconvenience is experienced at present by Forest Officers for temporary halt in or near about the areas of forestry operations due to lack of proper forest rest houses with the result that touring and inspection by them is rendered extremely difficult. In order to improve this position and ensure proper supervision of the several forestry operations under the 3rd Five Year Plan it is proposed to construct 2 permanent Rest Houses in each division during the Plan period.

#### 2(i) Estimated expenditure:

Þ

	<u>1961-62</u> Rs.	<u>1962-63</u>	<u>1963-64</u> Rs.	<u>1964-65</u> Rs.	<u>1965-66</u> Rs.	Total. Rs.
Non-Recurring:						
1. Construction of Regulation houses.	40000	40000	40000	-	-	120000
Total Non- Recurring:	40000	40000	40000	*** ** ** ** ** ** ** ** ** **		120000
Recurring:			·			
1. Chowkidars.	-	1920	3840	5 <b>76</b> 0	5760	<b>1728</b> 0
Total Recurring:		1920	3840	<b>57</b> 60	5760	17280
Mon-Recurring	40000	40000	40000			120000
Recurring Total:	-	1920	3340	5760	5 <b>7</b> 60	17280
Grand Total:	40000	41 <b>92</b> 0	4384 <b>Q</b>	5760	5760	137280
2(i <b>i) <u>Expenditure st</u></b>	atement:		(Rs. 1)	n lakhs)		
Non-recurring:	0.400	0.400	0:400	-	-	1.200
Recurring:	-	0.019	0.038	0.058	0.058	0.173
Loans:	-	-	-		· · · · · · · · · · · · · · · · · · ·	-
Other than loans:	0.400	0.419	0.438	0.058	0.058	1,373
Foreign Exchange Expenditure:			₩0 ₩2,55 642,555 6-10,459 600 600			

3. Principal targets to be achieved:

Construction of 6 permanent Rest Houses.

- 4. This is a new Scheme:
- 5. Requirement of man-power for the construction phase:
  - Administrative
     Technical
     Skilled
     Un-skilled Nil . . . Nil o é o 180 Man-months. . . .
  - 360 -do-• • •

#### 6. Requirement of man-power for the continuing phase:

1. Administrative	• • •	
2. Technical	• • •	
3. Skilled	• • •	
4. Un-skilled	• • •	216 Man-months.

#### 7. Requirement of principal materials:

<u>Item</u> .	Quantity ( <u>tons)</u>	Value (Rs.)
1. Timber. 2. Steel. 3. Cement.	120 16 @ Fs.600 131	28,800 9,600 2,916
8. <u>Receipts</u> :	•••	Nil
9. <u>Remarks:</u>	• • •	

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#### Scheme No. 35.

. . . . . . . . .

# FOREST DEPARTIENT Andamar and Micobar Calande.

- 114 -

Name of the Scheme: OPENING OF A TAAINING SCHOOL FOR FORESTEES AND FORTON WASPS.

Head 1 0 - Agriculture and Community Development. . 1 05 - Forests. Sub-head: 1 - Training of personael

1. Object of the Scheme.

Out of about 100 Deputy Rangers, Foresters and Forest Guards, employed at present in the Department, very few have had the requisite training in forestry. A few were sent in the past to the Forestry Schools in Bengal and Madras for training. The training for the lower ranks of the forest service is more of a practical nature and the conditions prevailing in the Andamans being fotally different from those prevailing on the mainland, the proper course will be to impart this training locally. Training of the nigher rank, namely, Forest Rangers which has quite a good bit of theoretical forestry background will continue to be done in the institutions on the mainland. It is proposed to open a training school for Foresters and for Forest Guard. So impart the institutions of an Assistant Conservator of Forests and will train 10 Officers annually.

2(i) Estimated Expenditure.

	<u>1961-62</u> Rs.	<u>1962-63</u> Rs.	<u>1963-64</u> Es.	<u>1904-00</u> Bio	<u>1965-66</u> Rs.	Total • Fr.
Non-recurring						
1. Construction School build and hostel a purchase of equipment.	ling and	00.000			, -	25,000
· · · · ·	15,000	20,000	<b>الله الله الله الله الله الله الله الله</b>	ا مرید معامد در مرید مرید معامد	الله بيد 100 ملك الله عنه منه منه بيد إليه ع	35,000
Total Non- Recurring	15,000	20,000	rag 1924 -	an		35,000
Recurring:	and the second se			ANNEL - MARY PROPERTIES LT - MARSHA		
Pay of 1 A.C.F. and 2 peons.	10,000	10,000	10,000	2.040	10,000	50,000
Total Recurring	g 10,000	10,000	10,000	10,000	10,000	50,000
Non-Recurring Total. Recurring Total	15,000 10,000	20,000 10,000	10,000	10,000	10,000	35,000 50,000
Grand Total.	25,000	30,000	10,000	76,000	10,000	85,000
2(ii) Expenditu	re State	mert.		(P:, in	lakha)	1
Non-Recurring Recurring Loans.	0.150	0.200 0.100	 C.100	0,100	0.100	0.350 0.500
Other than loar Foreign Exchange	us0.250	0,300	0.100	CLICO	0.100	0.850
expenditure.		-	au, 48		· `	

#### 3. Principal targets to be achieved.

To set up a training school with arrangements to impart training in forestry to 10 Officers each year.

4. This is a new Scheme.

#### 5. Requirement of man-power for the construction phase.

l. Administrative. 2. Technical.	1 1	1	Man-month.
3. Skilled.		66	-do-
4. Un-skilled.		53	-do-

6. Requirement of man-power for continuing phase.

1. Administrative. 1 60 Man-months.
2. Technical. 1
3. Skilled. Nil.
4. Un-skilled. 120 Man-months.

#### 7. Requirement of principal materials.

<u>Item</u> .	Quantity (tons)	Value Rs.
<pre>1. Timber. 2. Steel. 3. Cement. 4. G.C.I. Sheets. 8. Receipts:</pre>	31.6 1.2 16.6 3.3	8,708/- 1,200/- 3,500/- 2,800/-
9. <u>Remarks</u> :		

-900-

SRD

Scheme No. 36.

## FOREST DEPARTMENT Andaman and Nicobar Islands.

Name of Scheme : REVISION OF FOREST WORKING PLAN.

Head I O - Agriculture and Community Development. 105 - Forests. Sub-head I 2 - Research Survey and Statistics.

#### 1. Object of the Scheme:

The scheme envisages undertaking of detailed stock mapping and enumeration of the forests and writing up the working plan. Each Forest division will be dealt with as a separate unit.

#### 2(i) Estimated expenditure.

	<u>1961-62</u> Rs.	<u>1962-63</u> Rs.	<u>1963–64</u> R.	1964-65 ^R .	1965-66 Rs.	Total R.
<u>Non-</u> Recurring:	-		Nil	-10 er 2)		
Total non- recurring:			Nil	977 - 279 Die gen and gen and der and	4	rar writin an sin ha
Recurring: 1. Pay of staf including D A & A.S.P. 2. T.A.	. 51,000	51,000 5,000			90 60 60	1,53,000
3. Labourers 1 for 7 month in a year.	.70 .s	·	·			15,000
Total recurrin	g1,30,000	1,30,000	0 1,30,00	0		3,90,000
Non-Jecurring			<u>Ni</u> ]			
Recurring Total.	1,30,000	1,30,000	1,30,000	- Pier (36) dità di 1 des geno que des geno que		3,90,000
Grand Total	1,30,000	1,30,000	1,30,000			3,90,000
<u>2(ii) Expendit</u>	ure state	ment:	(Re. i	n lakhs)		ي الم
Non-Recurring: Recurring. Loans.	1.300	1.300	1.300	40	 	3.900
Other than I Loans. I	1.300	1.300	1.300	کر ہیں		3.900
Foreign ex- change expen-) diture.		<b>.</b>	<b></b>	g., a (see.	2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010	

3. Principal targets to be achieved.

1. To undertake detailed stock mapping and enumetation of the Forests.

2. To write up the Working Plan of each division.

#### 4. This is a new shome:

5. Requirement of man-power for the construction phase.

1. Administrative	 36	Man-months.
2. Technical	 36	-do-
3. Skilled.	 840	-do-
4. Un-skilled.	 3570	-do-

6. Requirement of man power for the continuing phase.

• • • • •			
1. Administrative.	X		
2. Technical.	Ĭ		
3. Skilled.	X	وليلد حيدها	Nil.
4. Un-skilled.	I		

7. Requirement of principal materials.

	<u>Item</u> .	Quanti (tons	ty )	Value Rs.
<ol> <li>Timber.</li> <li>Steel.</li> <li>Cement.</li> <li>Coal.</li> </ol>	X	 N	il.	

8. <u>Receipts</u>. Nil

9. <u>Remarks</u>: The instructions contained in telegram No.23-10/60-FD dated the 9th June 1960 from Agrindia, New Delhi to Secretary, Forests, Port Blair have been kept in view.

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Scheme No.37.

# FOREST DEPARTMENT Andaman and Nicobar Islands.

Name of Scheme:	CULTURAL GROUP OF	IN THE NICOBAR
Head and ) 0 - 1 Sub-Head ) 05 - 1 9 - 1	Agricultar Forests Miscellane	nity Development

1. Object of the Scheme:

It is proposed to undertake cultural operations in 1,250 acres at the rate of 250 acres per year, in the Nicobar Group of Islands with a view to bringing up regeneration of Matchwood species mainly.

2(i) Estimated expenditure:

	<u>1961-62</u> Rs.	<u>1962-63</u>	<u>1963-64</u>	and the second secon	1965-66	Total.
I.Non-Recurring		Rs.	ns .	l's •	Rs .	Fs.
Total Non- Recurring.			A. 18			<b>893</b>
II. <u>Recurring</u> :						
Cost of cul- tural opera- tions in 250 acres per year with a view to bringing up regeneration of Matchwood species.	<b>2</b> 5 100	25 100	45,000	45,000	10, 000	
-	25,100	35,100	45,000	45,000		2,00,000 -
Total Recurring	25,100	35,100	45,000	45,000	49,800	2,00,000
Non-Recurring Total. Recurring	-	-	-	~	**	-
Total.	25,100	35.100	45,000	45,000	49,800	2,00,000
Grand Total.	25,100	35,100	45.000	45,000	49,800	2,00,000
2(ii) Expenditure Statement: (Rs. in lakas)						
Non-Recurring. Recurring.	0.251	_ 0.351	0.430	- 0.450	- 0.498	2.000
Loans. Other than loar		0.351	- 0.450	0.450	- 0.498	2.000
Foreign Exchang Exponditure.	ze -	<b></b>	a	-		-
3. Principal ta	argets to	be achi	eved:		an a	که دار همی باشنیند استیکی سایت و با باشنانی است.
To undertake cultural operations in an area of 1,250 acres at the rate of 250 acres per year.						
<ul> <li>4. <u>This is a new scheme</u>.</li> <li>5. Requirement of Manpower for the construction phase) Not yet</li> <li>6. Requirement of Manpower for the continuing phase ) as essed.</li> <li>7. Requirement of Principal materials.</li> </ul>						
8, <u>Receipts</u> :		• 4		Nil		
9. <u>Remarks</u> :		¥ o J		-		

## C O O P E R A T I O N

#### First Five Year Plan:

There was no programme of Co-operative Development in the Sxxxxx First Five Year Plan.

#### Second Five Year Plan:

The following schemes were drawn up for implementation during the Second Five Year Plan:-

- (1) Establishment of one large-sized co-operative credit society with a share capital N.40,000/-, of which R.20,000/- were to be contributed by Government towards share capital under the policy of State participation.
  - (2) Establishment of a marketing society for coconut planters and other agriculturists at Port Blair with a share capital of Rs.40,000/- of which a sum of Rs.19,000/- was to be contributed by Government.
- (3) Construction of two godowns for co-operative societies at an estimated cost of 8.30,000/-, the pattern of financial assistance being 75% loan and 25% subsidy.
- (4) To provide subsidy to the societies for maintaining the managerial staff. A sum of Rs.6,000/- was provided for this purpose. credit

A large-sized co-operative society and a marketing **xxxdix** society as envisaged under the plan have been established, and are functioning. These societies are performing a useful function.

The construction work of the two godowns is in progress, and will have been completed by October, 1960.

A sum of Rs.4,000/- had been paid as subsidy to the various societies up to the end of 1959-60 for maintaining experienced and efficient managerial staff and another sum of Rs.2,000/- is to be paid during 1960-61.

An additional scheme for training of non-official personnel in the Nicobar Islands in the principles of Co-operative development and management of co-operative institutions has been approved by the Government of India, Ministry of Community Development and Co-operation (Department of Co-operation) and the Planning Commission for implementation during 1960-61.

### Policy and Programme during the Third Five Year Plan.

The Andaman and Nicobar Islands, as the name suggests, comprise of two groups of Islands viz. the Andaman group and the Nicobar group, where the local conditions and socio-economic pattern of village communities are widely pakkaan xof xwkkage recommunities are widely pakkaan xof xof xof xof

## ANDAMAN GROUP OF ISLANDS

#### North and Middle Andamans.

The Andaman group may be broadly sub-divided into North, Middle and South Andamans. North and Middle Andamans are being populated by settlers who are brought from the mainland for settlement on land under the colonisation scheme. The oldest batch of settlers has not yet been in position for more than 7 years. These areas are sparsely populated and backward in the economic sense. In these areas it may not be possible to organise in the very near future, village societies which can handle credit as well as other service facilities required by the agriculturists for fulfilling the programme of increased production. It is, therefore, proposed to establish a credit union and 8 village co-operatives for the entire area of Middle Andaman and a credit union and 8 village co-operatives to cover North Andaman by grouping villages into convenient viable units. While the credit union will provide financial assis-tance in the form of loans to individuals, the village societies will undertake all the other functions that can be taken up by village multipurpose societies. Individual farmers will have to be members of both the village societies and the credit union, as the latter will not advance any loan unless the application is recommended by the former, nor will any loan be advanced to anyone without his being a member of the main village society. The village societies lying within the area of the credit union will also have to be affiliated to it for maintaining a link between them and the credit union. The State participation towards the share capital of each credit union will be restricted to R.20,000/-.

#### SOUTH ANDAMAN

In South Andaman, normal agricultural conditions /Coprevail. There are in all 83 villages in South Andaman with opera a population of about 10,000. The entire area is covered vilves under the community development block. The basic approach in Sou in setting up village/co-operative community development Andama organisation which touches upon all aspects of life. Consider- is ing the general aspect of co-operative development, and particular aspect of credit requirement, the entire populated area of South Andaman has been sub-divided into 11 pilot project units for the organisation of 11 village co-operative societies. The aim is to enroll all families in the area as members of village co-operatives. The main functions of these societies will be -

- (1) to issue short and medium term credit on production plan basis,
- (2) to collect and market the entire surplus produce of agriculturists, and
- (3) to render services like issue of fertilisers, seeds, implements etc.

Each society will have about 200 members, each of whom will be required to hold a minimum paid up share of Rs.30/-. The borrowing limit of a member will be fixed at 8 or 10 times the paid-up share value. The credit of Rs.250/- to Rs.270/- should be sufficient for an average cultivator owning about 5 acres of land to undertake the agricultural production programme successfully. For preparing comprehensive agricultural production plans for all the 11 pilot project units on the basis of which credit facilities would be advanced, the following Committee has been constituted:--

- (1) Agricultural Officer, Port Blair. (2) Coconut Development Officer, Port Blair.
- (3) Horticultural Officer, Port Blair.
  (4) The Block Development Officer, South Andaman.
- (5) The Live Stock Officer, Port Blair.

It is proposed to train sufficient number of nonofficial personnel in the principles of co-operative development and management of co-operative institutions.

### Construction of godowns:

Financial assistance will be made available to co-operative societies for the construction of godowns for providing adequate storage facilities to meet their requirements.

#### Subsidy for managerial staff:

In view of the small area of operation and membership and restricted volume of business, the income of almost all the village societies will be extremely small and they will, therefore, be unable to meet their working expenses. It is, therefore, necessary that small village co-operatives should be given adequate assistance by way of subsidies for meeting a portion of the managerial expenses. The expenditure on subsidy will be Rs.900/- per society spread over a period of 5 years as indicated below:-

First year.	• • •	Rs. 300/-
Second year.		Rs. 150/-
Third year.		Rs. 150/-
Fourth year.	• • •	Rs. 150/-
Fifth year.	• • •	Rs. 150/-
Total:	• • •	<u>Rs. 900/-</u>

#### NICOBAR GROUP OF ISLANDS

The Nicobar group comprises of 19 Islands, of which more than half are at the present moment uninhabited or very sparsely inhabited. The population is mostly concentrated in Car Nicobar and in the Nancowrie group of Nicobar Islands. The Nicobarese are a tribal people and their main vocation is to tend coconuts and betel-nuts, grow yams and rear pigs and poultry. Fish is a supplemen-tary food. Any other type of agriculture is unknown to the Nicobarese. There exists a co-operative society in almost every village in Car Nicobar and Nancowrie group of Islands for collection and marketing of coconuts, copra and betel-nuts. There is no demand for credit facilities in the Nicobar group of Islands. The Nicobarese are, as a matter of fact, averse to taking loans. The immediate need in these Islands is to train as large a number of Nicobarese as possible in the principles of cooperative development and management of cooperative institutions. With this end in view, a scheme was formulated by the Administration for implementation during 1.960-61, and approved by the Government of India, Ministry of Community Development and Cooperation. The scheme is not likely to make any headway during 1960-61 owing to non-availability of staff, and has, therefore, been switched over to the Third Five Year Plan.

#### Strengthening of the Co-operative Department:

The present set up of one Cooperative Inspector, one Supervisor and one Accounts Supervisor under the Revenue Assistant Commissioner who discharges the functions of the Registrar of Cooperative Societies in addition to his own duties is not considered adequate to organise a large scale

programme of cooperative development as effectively and efficiently as is required. A separate post of Registrar, Cooperative Societies on the scale of Rs.275-800 has been created and the officer is expected to be in position soon. The additional Inspectors and clerical staff that would be required to strengthen the department will also be appointed.

# Channelising of taccavi and other agricultural loans to village co-operatives:

The policy of the National Development Council that taccavi loans and other facilities to agriculturists should be channelised through primary village co-operatives will'be implemented. The acceptance of this practice will make the rural population conscious of the importance of village co-operatives and a fillip to the co-operative movement.

Altogether 6 schemes involving a total outlay of Rs.1.474 lakhs have been formulated for implementation during the Third Five Year Plan. The schemewise distribution of the outlay is as under:-

(1)	Scheme to provide subsidy to 27 cooperative societies and 2 credit unions in South, Middle and North Andamans.	) ))))	Rs.26,100/-
(2)	Scheme for training of non-official personnel in cooperation in the Andaman Islands.	) ))	Rs.15,100/-
(3)	Scheme for training of non-official personnel in the Nicobar Islands in cooperation.		Rs.31,205/-
(4)	Construction of godowns.		Rs.30,000/-
<b>(</b> 5 <b>)</b>	Establishment of credit unions in Middle and North Andamans.	) )	₽s•40,000/-
(6)	Scheme for publicity and propa- ganda on co-operation.	)	Rs. 5,000/-
	Total:	کان	1,47,405/-

Scheme No. 38.

#### CO_OPERATIVE DEPARTMENT Andaman and Nicobar Islands. ***

Name of Sc	heme:	SCHEME TO PROVIDE SUBSIDY TO 27 SERVICE CO_OPERATIVE SOCIETIES AND 2 CREDIT UNIONS.
Head Sub-Head	) 0 ) 08 ) 9	- Agriculture and Community Development. - Cooperation - Miscellanecous

### 1. Object of the Scheme:

()

In view of the small area of operation and membership and restricted volume of busimess, the income of the 27 village service cooperatives ((11 in South Andaman 8 in Middle Andaman and 8 in North Andaman), and 2 credit unions (one in Middle Andaman and one in North Andaman) proposed to be established during the Third Five Year Plan, will be extremely small and they will, therefore, be unable to meet their minimum working expenses. It is, therefore, necessary that small village cooperatives and co-operative unions should be given adequate assistance by way of subsidies for meeting a portion of the managerial expenses. The expenditure on the subsidy will be R.900/- per society/union spread over a period of 5 years.

## 2(i) Estimated expenditure;

	<u>1961-62</u> Rs.	<u>19:62-63</u> Rs.	<u>1963-64</u> Rs.	<u>1964–65</u> ^{Rs} •	<u>1965-6</u> Rs.	6 <u>Total</u> Rs.
<u>Non-Recurring</u> : Subsidy to 27 Service Coopera- tives, and 2 Credit Unions @ Rs.900/- per society spread over a period of 5 year.	8,700	4: 350	<b>4</b> ,350	4,350	4,350	26,100
Total Non-)	8,700	4.,350	4,350	4,350	4,350	26,100
Recurring ) Recurring:	past	anat		<b></b>		5
Total Recurring:	<b>A</b>	eni	çaz			, may
Non-Recurring ) Total. )	8,700	·4,350	4,350	4,350	4,350	26,100
Recurring Total.	£241		التنبغ 			
Grand Total:	8,700	4,350	4,350	4,350	4,350	26,100
2(ii) Expenditure	Statement		(Rs. in 1	akhs)	_	
Non-Recurring.	0.087	0.044	0.044	0.043	0.043	0.261
Recurring.	<b>4</b> 45	-		-		
Loans. Other than loans	0.087	0.044	0.044	0.043	- 0.043	0.261
Foreign exchange expenditure.		-		<b>48</b>		-

## 3. Principal targets to be achieved:

To give financial assistance by way of subsidy to 27 village service Co-operatives and 2 Credit Unions for meeting a portion of their managerial expenses.

4. This is a new Scheme.

7.

8.

9.

- 5. Requirement of man power for the construction phase. ... Nil
- 6. Requirement of man power for the continuing phase.

<ol> <li>Administrative</li> <li>Technical</li> <li>Skilled</li> <li>Unskilled</li> </ol>	Nil Nil Nil Nil	
Requirement of principal	materials.	Nil
Receipts	○ ◎ ●	Nil
Remarks:	0 0 <b>b</b>	Nil

Scheme No. 39.

CO-OPERATIVE DEPARTMENT Andaman and Nicobar Islands. ***

<u>Name of Scheme</u>: SCHEME FOR TRAINING OF NON_OFFICIAL PERSONNEL IN COOPERATION IN THE ANDAMAN ISLAND:S.

Head	)	0	years.	Agriculture	and Community	Development.
	)	80	•••	Cooperation	v	*
Sub-Head	)	1	-	Training of	personnel	

### 1. Object of the Scheme:

The Scheme aims at training 60 non-official personnel from the Andaman Islands in the principles of cooperative development and management of cooperative institutions. 15 trainees will be admitted to each course, the duration of which will extend to three months. Each of the trainees will be paid a stipend of Rs.50/- per month.

2(i) Estimated	l expendi <u>1961-62</u> ^{Rs} .	ture: <u>1962-63</u>	1008-01	1964-65	1965-66	Total
<u>Non-Recurring</u> Bocks and journals.	500	-	-	-	-	500
Contingencies prizes, certi- ficates etc.		600	e79	_	-	700
House rent.	300	300	<b>a</b> n			600
Total Non- ) Recurring )	900	900	u <del>n</del>			1,800
Recurring Pay of 1 Inspector in the scale of Rs.150-5-240- 10-300 from 1.10.61 to 30.9.62.	750 1	,050	-	-	81	1,800
Andaman Specis Pay @ 33 <del>1</del> %	al 250	350	27	875	-	600
Pay of one peon from 1.10.61 to 30.9.62 in the scale of $R_{s}.30-\frac{1}{2}-35$ .	150	210	-	271	-	360
Stipends to 60 candidates @ Rs.50/- per candidate each for 3 months only.	4,500 4	.,500	-7	_	_	9,000
Dearness Allo		770	278	-	-	1,320
Travelling "	100	100	900 	400	مته ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰	200
Total Recurri	ng.6,300 (	6,980	**	eutr		13,280

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	<u>1961–62</u> Rs.	<u>1962-63</u> Rs.	<u>1963-64</u> Rs.	<u>1964-65</u> Rs.	<u>1965-66</u> Rs.	<u>5 Total</u> . Rs.
Non-Recurring Total.	900	900	-			1,800
Recurring Tota	al <u>6,300</u>	6,980				13,280
Grand Total:	7,200	7,880				15,080
2(ii) <u>Expendi</u>	ture Stat	ement:	(F	s. in la	khs)	`».
Non-Recurring	0.009	0.009	-	-	<b>-</b> '	0.018
Recurring.	0.063	0.070	-	-	-	0.133
Loans.	-	-	-	-	-	-
Other than loans.	0.072	0.079	-	-	-	0.151
Foreign Exchar Expenditure.	nge -	-	-	-	-	·_

## 3. Principal targets to be achieved:

To train at least 60 non-official personnel in South, North and Middle Andamans in the development and management of co-operative institutions.

## 4. This is a new Scheme.

5. <u>Requirement of man power for</u> the construction phase.	6 8 8	Nil
6. Requirement of man mower for the continuing phase.		
<ol> <li>Administratiwe</li> <li>Technical</li> <li>Skilled</li> <li>Un-skilled</li> </ol>	24 Nil Nil Nil	man months.
7. Requirement of principal mate	erials.	Nil
8. Receipts:		Ni <b>l</b>
9. <u>Remarks</u> :	• • ¢	Nil

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Scheme No. 40.

CO_OPERATIVE DIEPARTMENT Andaman and Nicobtar Islands. ***

Name of Scheme: SCHEME FOR TFRAINING OF NON-OFFICIAL PERSONNEL IN COOPERATION IN THE NICOBAR ISLANDS.

Head

0 - Agriculture and Community Development. ) ) 08 - Co-operation Sub-head ) 1 - Training of peersonnel.

## 1. Object of the Scheme:

The Scheme aims at training 90 non-official personnel (60 in Car Nicobar and 30 in the central group of Nicobar Islands) in the principles of Co-operative development and management of Co-operative institutions.

There exists a Co-operative Society in almost every village in the Nicobar Islands for the marketing of Coconut, Copra and betelnuts. The export and import trade of Car Nicobar Copra and beteinuts. The export and import trade of Car Nicobar is handled by a Trading Company in which Village Co-operatives hold share to the extent of 50%. Similarly the export and import trade in the Nancowrie Group off Islands is handled by a company in which the Village Co-operatives hold share to the extent of 50%. The immediate need is to consolidate and develop the existing village societies so that in course of time they will be in a position to handle the entire import and export trade independ-ently; hence the necessity to ttrain the Nicobarese in the principles of Co-operative development and management of Co-operative instutitions. operative instutitions.

With this end in view, a scheme was formulated by the Administration for implementation during 1960-61, and approved by the Government of India, Mirnistry of Community Development and Co-operation. The scheme iss not likely to make any headway during 1960-61 owing to non-availability of staff, and has, therefore, been switched over the the Third Five Year Plan.

15 trainces will be admitted to each course, the duration of which will extend to 4 months. Each of the trainees will be paid a stipend of  $\mathbb{R}.50$ /- per month.

2(i) Estimated expenditure:

	<u>1961-62</u> Rs.	<u>1962-63</u> Rs.	<u>1963-64</u> Rs.	<u>1964-65</u> Rs.	<u>1965-66</u> Rs.	<u>Total</u> . Rs.
Non-Recurring Books and journals. Contingencies,	750	rau.	<b>2</b> 1	-	-	750
prizes, certi- ficates etc. House rent.	150 <u>600</u>	900 300	437 645	#3	anti anti Suma anti anti anti anti anti anti anti ant	1,050 <u>900</u>
Total Non- Recurring.	1,500	1,200	المیں انچار انچار کر انچار کا انچار		<b></b>	2,700
Recurring: Pay of 2 Inspectors in the scale of Rs.150-5-240- 10-300 (one for 9 months and the other					. •	
for 19 nonths. Nicobar Special		1,085		172		4,235
Pay @ 45%.	1,418	488	653	<b>6</b> 71	-	1,906

	-					
		<u> 1962-63</u>			1965-6	6 <u>Total</u>
	Rs	Rs .	Rs 🖕	Rs •	Rs 🖕	Rs 🖕
Dearness Allowance.	1,470	490	-		-	1,960
Pay of 2 Peons in the scale of Rs.30-1-35(one for 9 months and the other for 19 months.	630	214	- <b>-</b>	- -	•	844
Dearness allowanc	e 945	315	-	æ	-	1,260
Stipends to 90 candidates @ Rs.50 per candidate eac for 4 months only	h	4,500		_	-	18,000
Travelling Allowance.	200	100				300
			828 		ي مين چينيو	
Total Recurring.	<u>41,313</u>	7,192	<b>9</b> 7	r.m.	هي. 	28,505
Non-Recurring Total.	1,500	1,200	<b>t</b> en	-	<b></b>	2,700
Recurring Total.	21,313	7,192	-			28,505
Grand Total.	22,813	8 <u>_</u> 392	••••			31,205
2(ii) Expenditure Statement.			(Rs. in	lakhs)	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Non-Recurring.	0.015	0.012		-		0.027
Recurring.	0.213	0.072	6754	<b></b> .	-	0.285
Loans.		-		-	<b>_</b> '	-
Other than loans	0,228	0.084	<b>P</b>	_	_	0.312
Foreign exchange expenditure.	ura	-	**	-	· •	-
3. Principal targ	<u>ets to be</u>	<u>achieve</u>	<u>ed</u> :			
To train Q				den in (	Tom Mico	ah a m

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To train 90 non-official personnel (60 in Car Nicobar and 30 in the Contral group of Nicobar Islands) in the development and management of co-operative institutions.

4. This is a continuing Scheme.

5. <u>Requirement of man power for</u> the construction phase.	•••	Nil
6. <u>Requirement of man power</u> for the continuing phase.		
<ol> <li>Administrative</li> <li>Technical</li> <li>Skilled</li> <li>Unskilled</li> </ol>	6 6 6 6 6 6	28 m.m. Nil Nil Nil
7. Requirement of Principal mat	<u>erials</u> .	Nil
8. <u>Receipts</u> :	Q G 8	Nil
9. <u>Remarks</u> :	• 4 •	Nil

Scheme No. 41.

#### CO-OPERATIVE DEPARTMENT Andaman and Nicobar Islands. ***

Name of Scheme:	(	CONSTRUCTION OF GODOWNS	
	08 🛥	Agriculture and Community Development. Co-operation Miscellameous	

.

## 1. Object of the Scheme

The scheme envisages financial assistance for the construction of 2 Godowns, one at Mayabunder (Middle Andaman) and the other at Acrial Bay (North Andaman) to provide storage facilities to village Co-operative Societies in those areas. The pattern of financial assistance will be 75% loan freeX and 25% subsidy.

2(i) Estimated expenditure:

	<u>1963-62</u> Rs.	<u>19)62-63</u> IG.	<u>1963-64</u> Ki.	<u>1964-65</u> ^{Rs} .	<u>1965-66</u> Rs.	Total Rs.
<u>Non-Recurring</u> Financial assistar construction of	ice towar	ds: the		t		
2 Godowns.	15,000	15,000				30,000
Total Non- ) Recurring: )	15,000	15,000	ant		<b>رین</b> 	30,000
- <u>Recurring</u>	and a state of the	178 MÅ 6773 (1870) gav met 208 f	Nil ·		<b>_</b>	
Total Recurring.	<b>8</b>		-	e**3	-	-
Non-Recurring) Total )	15,000	1:5,000			-	3 <b>0,</b> 000
Recurring Total	ilia pa pinana pinana pinana di Pinana.		621	الله 		
Grand Total,	15,000	1:5,000	672 4.1 <u>000 - 1000 - 1000 - 1000</u>	andi Andrewski (State of State of St		30,000
2(ii) Expenditure	Statemer	nt:	(Rs. in la	akhs)		
Non-Rocurring.	0.150	(0.150	-		-	0.300
Recurring.	بنده	<b>6</b> .1	-	<b>5</b>		-
Loans. Other than loans.	0.150	0,150			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.300
Foreign exchange expenditure.		<b>2</b> 4	-	sata		
3. Principal targ	ets to b	e achiev	ed:			
Construction 4. This is a new		odlowns.				
5. Requirement of		er				
for the constr	uction p	hase.		11		
6. <u>Requirement of</u> for the contin	<u>man pow</u> uing pha	or Sie.		Nil		
7. Requirement of	Princip	all mater	<u>ials</u> .	Nil		
8. Receipts:	0 0 0	•		Nil		
9. Remarks:	• • •	<b>.</b> .				

Scheme No. 42.

CO-OPERATIVE; DEPARTMENT Andaman and Ni(cobar Islands. ***

Name of Scheme:	ESTABLISHMEINT OF CREDIT UNIONS IN MIDDLE ANND NORTH ANDAMANS
Sub Hood ( 08.	Agriculture and Community Development. Cooperation Co-operative Societies - Credit.

#### 1. Object of the Scheme:

North and Middle Andamans are being populated by settlers who are brought from the mainland for settlement on land under the colonisation scheme. The oldest batch of settlers has not been in position for more than 7 years. These areas are sparsely populated and backward in the economic sense. In these areas, it may not be possible to organise village societies which can handle credit as well as other service facilities required by the agriculturists for fulfilling the programme of increased production. It is, therefore, proposed to establish a credit unibn and 8 village co-operatives for the entire populated area of Middle Andaman and a credit union and 8 village cooperatives to cover North Andaman by groouping villages into viable units. While the credit union will provide financial assistance in the form of leans to individuals, the village societies will undertake all other functions: that can be taken up by the village multipurpose societies. Individual farmers will have to be members of both the village societies and the credit union, as the latter will not advance any lean unless the application is recommended by the former, nor will any lean be advanced to anyone withcutt his being a member of the main village society. The State participation towards the share capital of the two credit unions will be restricted to Fs.40,000/-. Each credit unions will have a working capital of Rs.40,000/-.

2(i) Estimated expenditure.

	<u>1961-62</u> ^{Rs} .	<u>19622-63</u> RP:	<u>196<b>3-6</b>4</u> Rs.	<u>1964-65</u> ^{Rs} .	<u>1965-66</u> Rs.	Total Rs.
Non-Recurring: State's partici- pation in the form of share capital of 2 Credit Unions at North and Middle Andamans @ Rs.20,000/-per						
Credit Union.	20,000	5,(000	5,000	5 <b>,0</b> 00	5,000	40,000
Total Non-) Recurring )	20,000	5,(000	5,000	5,000	5,000	40,000
Recurring.		र रख	100 100	<b>64</b>	فسو	-
Total Recurring.		المیں اور			gat	
Non-Recurring) Total )	20,000	5,,000	5,000	5,000	5,000	40,000
Recurring Total.		c)	ین میں میں میں میں میں میں میں میں میں میں			
Grand Total.	20,000	5,,000	5,000	5,000	5,000	40,000

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	<u> 1961–62</u>	<u> 1962–63</u>	<u>1963-64</u>	<u> 1964-65</u>	5 <u>1965-66</u>	Total.
2(ii) <u>Expendit</u>	ure Stat	ement:		(Rs.	in lakhs)	
Non-Recurring.	0.200	0.050	♡.050	0.050	0.050	0.400
Recurring.	-	·	-	-	-	-
Loans. Other than lo. Foreign Exchange Expenditure.	0.200 an <b>s -</b>	0.050	().050 -	0.050	0.050	0.400

## 3. Principal targets to be achieved:

To establish 2 Credit Unions, one each at Middle Andaman and North Andaman.

4. This is a new Scheme:

5.	Requirement of man power for the construction phase.	• • •	Nil
6.	Requirement of man power for the continuing phase.	• • •	Nil
7.	Requirement of principal materials	•••	Nil
8.	Receipts:	• • •	Nil
9.	Remarks:	7 • •	Nil

Scheme No. 43

CO-OPERATIVE DEPARTMENT Andaman and Nicobar Islands. ***

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Name of Scheme:	SCHEME FOR PUBLICITY AND PROPAGANDA ON COOPERATION.
Sub-Hond ( 08.	- Agriculture and Community Development. - Cooperation - Miscellancous

## 1. Object of the Scheme:

Co-operative principles require country wide publicity and propaganda for its popularisation among the masses. With this end in view wide publicity will be organised through the media of (a) lectures, (b) circulation of pamphlets, (c) publication of co-operative literature in various languages, (d) songs and dramas, (e) exhibitions, and (f) seminars.

## 2(i) Estimated expenditure.

	<u>1961-62</u> Ps	<u>1962-63</u> Rs.	<u>1963-64</u> Rs.	<u>1964-65</u> Rs.	<u>1965–66</u> Rs.	<u>Total</u> . Rs.
Non-Recurring.	•	-	-	_	_	
Total Non-) Recurring.		ana 				
<u>Recurring</u> For (1) Publi cation.	- 400	400	400	400	400	2,000
(2) Advertise- ment and pro- paganda.	200	200	200	200	200	1,000
(3) Co-operati week,exhibitic and seminars.		200	200	200	200	1,000
(4) Composition of songs and cooperative literature and Music etc.		200	200	200	200	1,000
Total Recurring.	1,000	1,000	1,000	1,000	1,000	5,000
Non-Recurring) Total )		gra.	-		-	-
	1,000	1,000	1,000	1,000	1,000	5,000
Grand Total.	1,000	1,000	1,000	1,000	1,000	5,000
2(ii) Expendit	ture Sta	tement:	(Rs.	in lakhs	)	
Non-Recurring Recurring	0.010	0.010	0.010	0.010	0.010	0.050
Loans. Other than )	-	-	-	-	-	-
Loans. )	0.010	0.010	0.010	0.010	0.010	0.050
Forekgn exchange expenditure.	-	-	-	-	-	-

## .3. Principal targets to be achieved:

To carry out Publicity and propaganda on co-operation.

4. This is a new Scheme.

5.	Requirement of man power for the construction phase.	•••	Nil
6.	Requirement of man power for the continuing phase.		Nil
7.	Requirement of principal material	<u>S</u> • • •	Nil
8.	Receipts:	• • •	Nil
9.	Remarks:	• • •	

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#### FISHERIES

First Plan:

There was no programme for the development of fisheries in the First Five Year Plan. <u>Programme and progress in the Second Plan:</u> <u>Progress of Expenditure:</u>

#### A sum of Rs.1.750 lakhs was provided for the development of fisheries during the Second Plan period. The table given below indicates the expenditure incurred under the various schemes during 1956-57, 1957-58, 1958-59, 1959-60 Likely expenditure Land during 1960-61. (Rs. in lakhs) Likely Total Expenditure incurred Sl.I Name of the I Plan during expen-for Five No.1 Ĭ. scheme. 160-61.1 1____1 5. 1 6. 1 7. 1 8. 1 9. <u> 3.</u> <u>4.]</u> <u>2.</u> 1. Mechanisation of fishing boats. 0.650 0.046 0.092 0.224 0.319 0.681 2. Introduction of improved types of 0.370 nets and gear. 0.008 0.059 0.058 0.091 0.129 0.345 3. Experimental Brackish water fish farm. 0.340 0.020 0.094 0.145 0.235 0.425 0.919 4. Expansion of Office and laboratory. 0.049 0.023 0.024 0.039 0.135 0.140 5. Loans to fishermen and fishermen cooperative Societies.0.250 0.015 0.045 0.049 0.120 0.229 6. Establishment of 0.183 a Fish Curing Yard. 0.001 0.142 0.040 7. Preliminary scheme for the training of personnel for the Third Plan. 0.205 0.205 1.750 0.028 0.264 0.363 0 765 1.277 2.697 Total Fisheries:

### Physical achievements:

### 1. Mechanisation of fishing bcatts.

For the development of improved fishing methods, the scheme aimed at demonstrating the utility of mechanised boats to fishermen by the Fisheries Department. As against the target of mechanising 3 boats, two boats have already been mechanised, and a marine diesel engine for mechanising the third boat has been procurred. The third boat is expected to be mechanised and put into commission during 1960-61. Demonstrations on improved methods of fishing with the boats already mechanised are in progress.

#### 2. Introduction of improved types of nets and gear:

The scheme aimed at inducing local fisherment to

adopt improved types of nets and gear for increasing their output. 4 boats, 4 improved type of nets and one shore seine net have already been purchased. An extension unit consisting of 6 flishermen headed by a master fisherman has been set up and demonstrations are carried out with improved types of nets and gear. Some more nets and gear, and improved long lines are also likely to be purchased and demonstration work will be continued. 345.30 mds. of fish were netted upto the end of/during /1959-60 the course of demonstration trials.

#### 3. Experimental Brackish Water Fish Farm.

In order to study the various fishery problems an experimental-cum-demonstration fish farmwas proposed to be established. The construction of the nursery pond of the fish farm has already been completed and rearing of fry and fingerlings is in progress. The construction work of the main bund of the fish ffarm is progressing satisfactorily and a regular fish farm will be established during 1960-61. The construction of the fish farm is estimated to cost Rs. 47,000/- The expenditure in excess of the Plan allocation will be met out of the overall savings under the agricultural sector.

### 4. Expansion of office and laboratory.

A regular office for the Fisheries Department has been established. Reference books, laboratory equipment, and furniture for the Fisheries Department have been purchased. Some more reference books and laboratory equipment will have been purchased, during 1960-61.

#### 5. Loans to fishermen and fishermen cooperative Societies.

Nincteen boats and essential fisnery requisites such as yarn, coaltar, fishing books, salt etc. worth R.O.109 lakhs had been supplied to fishermen on loan-cumsubsidy basis under the G.M.F. Rules upto the end of March, 1960.

## 6. Establishment of a Fish Cullar Lard

A Fish Curing Yand with a expacity of curing 500-600 lbs of fish per day has been established. A rent of Rs.2/- per md of fish lare' is charged from fishermen using the yard. Common salt is made available to fishermen by allowing a subsidy of 50 per cent on cost price.

#### Approach to the Third Five Year Plan:

The main tasks to be undertaken during the Third Five Year Plan fall under these categories:-

- 1. Increase in the population of fishermen for expansion of fishery development programmes.
- 2. Training of fishermen.
- 3. Mechanisation of fishing crafts.
- 4. The provision of credit facilities for purchase of fishery requisites such as boats, fishing Hooks, nets, yarn, etc.
- 5. The provision of fishing harbour facilities.
- 6. The organisation of figh transport, storage,

marketing and utilisation of fish.

- 7. Establishment of a pilot plant for extraction of shark liver oil.
- 8. Development of fisheries byproducts.
- 9. Research on problems of marine fisheries.

In order to achieve the above objectives the following schemes are proposed to be implemented under the Third Five Year Plan under the Fisheries Sector:-

### 1. <u>Settlement of Fishermen Families:</u>

With a view to increasing the population of fishermen it is proposed to recruit 100 fishermen families from the Maritime states on the mainland and settle them at various places in the Andamans. Each of the families will be given a recoverable loan of Rs.1,900/- and an exgratia grant of Rs.410/-. The scheme is estimated to cost Rs.2.310 lakhs.

## 2. <u>Training of Fishermen</u>.

It is proposed to train 25 local fishermen at the rate of 5 per year in the use of marine diesel engines, and fishing from small power craft with modern gear, at a suitable centre on the mainland. The fishermen will be paid stipends at  $\mathbb{R}.75/-p.m.$  each during the period of training. They will also be paid actual travelling expenses to and from the training centre. A sum of  $\mathbb{R}.0.259$  lakhs is required for this purpose.

#### 3. <u>Mechanisation of Fishins Crafts</u>.

With a view to popularising the use of mechanised fishing craft, it is proposed to supply 5 mechanised boats at the rate of one per year to fishermen cooperative societies on loan-cum-subsidy basis - 50 per cent of the cost of marine engine and 25 percent of the cost of boat will be treated as subsidy and the balance as lost in accordance with the G.M.F. Rules. The scheme is estimated to cost Rs.0.600 lakhs.

## 4. Supply of Essectial Fishery requisites.

The scheme envisages supply of essential fishery requisites such as yarn, coaltar, beatc. fishing hooks, salt and other miscellaneous stores to fishermen and fishermen cooperative societies on a loan-cumsubsidy basis in accordance with the rules governing grant of financial assistance for G.M.F. schemes. The schemes is estimated to cost Es.0.500 Jakh.

#### 5. <u>Anchorage for Fishing Crafts</u>.

It is proposed to provide proper anchorage facilities to fishermen. A sum of  $R_{5,0,30}$  lakes has been proposed for this purpose.

#### 6. <u>Cold storage and Marketing</u>.

In order to preserve the surplus catches it is proposed to install a  $1\frac{1}{2}$  ton ide and cold storage plant at Port Blair and to purchase a fish van. The scheme is estimated to cost  $h_{2}.266$  lakhs.

### 7. Shark Liver Oil and Fish Meal Factory.

Considering the easy availability of sharks in these Ish nds and also the demand for vitamin rich oil in the mainland it is proposed to establish a pilot plant for the extraction of shark liver oil. A small fish meal plant will also be established for utilising the waste products resulting after the extraction of shark liver oil. A provision of Rs.2.000 lakhs has been made for this purpose.

#### 8. <u>Establishment of a Dehydration Unit</u>.

It is proposed to establish a dehydration chamber of 1 ton capacity at Port Blair. A sum of Rs.1.266 lakhs has been provided for this purpose.

#### 9. <u>Research Activities:</u>

It is proposed to establish a well equipped laboratory, a museum, an aquarium and a library, appoint necessary staff, and to undertake research work. A provision of Rs.3.697 lakhs will be required.

#### 10. <u>Building for the Fisheries Headquarters</u>.

It is proposed to construct the following buildings for the Fisheries Department.

- (a) in office,
- (b) a laboratory,
- (c) a museum,
- (d) an aquarium.
- (e) a store, and
- (f) a building for cold storage plant.

The expenditure involved is R.O.834 lakh.

R. 14.032 Lakhs have been prop hed. The yearwise phasing of expenditure is indicated belows-

(R. in lakhs) 1961-62 1962-63 1963-64 1964-65 1965-66 **Tot**l

1.670 4.629 4.214 1.843 1.671 14.032

## FISHERIES DEPARTMENT Andaran and Nicobar Islands.

Name of the Scheme: SETTLEMENT OF FISHERMEN FAMILIES

Head	)	0	 Agriculture an	d Community	Development
and	)	06	Fisheries		
Sub-head	)	9	 Miscellaneous.		

#### 1. Object of the Scheme.

At present there are about 200 professional fishermen in the Andaman and Nicobar Group of Islands, and they are responsible for an average annual catch of 2½ lakhs pounds of fish." As a primary step in stepping up fish production, the numercial strength of the local fishermen personnel has to be increased. It is, therefore, proposed to recruit 100 families of fishermen (20 families every year) from the Maritime States on the mainland for settlement at various places in the Andamans where easy marketing facilities are available for their catches. Each of the fishermen families will be given a recoverable loan of Rs.1,900/-, and an ex-gratia grant of Rs.410/- for the following purposes:-

1. <u>Loan</u> .			
(i) Fishing equipment		Rs.	1,000/- 800/-
(ii) House building (iii) Cost of household	• • •	Fs,	800/-
utensils.	<b></b> (	Rs,	100/-
Total.	3 o •	Es.	1,900/-
2 Ry-gratia			

<b>د</b> ا	TTV-ETROTO	

(i)	Subsistence allowa.	nce		
	for three months	a <b>e e</b>		200/-
(ii)	Passage		<u>Fs</u>	
			Rs .	410/-

Each of the fishermen families to be settled outside Port Blair will also be allowed two acres of land for homestead cultivation. The terms and conditions proposed above appear reasonable in the light of local conditions.

#### 2(i) Estimated expenditure.

	<u>1961-62</u> Rs.	2 <u>1962–63</u> Rs.	<u>11.963-64</u> Ps.	<u>1954-65</u> Fs.	<u>1965-66</u> Rs.	<u>Total</u> . Rs.
Non-Recurring. Loan:						
1.Fishing ) equipment)	20,000	20,000	20,000	20,000	20,000	1,00,000
2.House ) building )	16,000	16,000	116,000	16,000	16,000	80,000
3.Cost of ) household) utensils )	2,000	2,000	2,000	2,000	2,000	10,000
Total Non- ) recurring ) -	38,000	38,000	38,000	<b>38</b> ,000	38,000	1,90,000

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	<u>1961-62</u> Rs.	<u>196263</u> Rs.	<u>1963-64</u> Rs.	<u>1964–65</u> Rs.	<u>1965-6</u> Rs.	6 <u>Total</u> . Rs.
Recurring:						
<u>Ex-gratia</u> . 1.Passage	4,200	4,200	4,200	4,200	4,200	21,000
2.Subsistence allowance.	4,000	4,000	<u>4,000</u>	4.000	4,000	20,000
Total Recurring.	<b>8,2</b> 00	8,200	3,200	8,200	8,200	41,100
Non-recurring Total.	38,000	38,000	38,000	38,000	38,000	1,90,000
Recurring Total.	8,200	8,200	8,200	8,200	8,200	41,100
Grand Total.	46,200	46,200	46,200	46,200	46,200	2 <b>,21,</b> 000
2(ii) <u>Expendit</u>	ure State	n <u>ent</u> .	(Rs	, in lak	hs)	
Non-recurring Recurring. Loans. Other than loa Foreign exchan expenditure.		0,380 0,082 0,380 0,032	0.080 0.082 0.380 0.082	0.380 0.082 0.380 0,082	0.380 0.082 0.380 0.082	1.900 0.411 1.900 0.411

3. Principal targets to be achieved:

To settle 100 fishermen families in the Andaman Islands with a view of increasing fish production by 1,20,000 lbs. annually.

- 4. This is a new Scheme.
- 5. Requirement of man-power for the construction phase. Nil.
- 6. Requirement of man-power for the continuing phase.

(2) (3)	Administrative Technical Skilica Unskilled	Nil Nil 12 <b>11</b> Nol
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7. Requirement of principal sates ia.c: Nil.

8. Receipts:

		<u>1961-62</u> Fs.	<u>1962-63</u> 35,	<u>1963-64</u> Re.	<u>1964.65</u> Rs.	<u>1965-66</u> Rs.	<u>Total</u> . Rs.
1.	By recovery of loans in easy instal- ments.	-				16,000	40,000
2.	By issuing licences.	80	160	240	320	400	1,200
	Total Roceipts.	30	4,160		12,320	16.400	41,200

1. -----

9. Remarks

Scheme No.45.

FISHERIES DEPAR'TMENT Andaman and Nicobar Islands.

<u>Name of</u>	the Sch	leme:	TRAINING OF	FISHERMEN.	
Head	) X	0 - 06 -	Agriculture Fisheries.	and Community	Development.
Sub-head	Ŷ	00	Training of	personnel.	

#### 1. Object of the Scheme:

A present fishing crafts used by local fishermen are small dinghies which operate only within small distance from the coast and are not fit for longer voyages or staying out in rough weather. Experience gained in other maritime States on the mainland has shown that dinghies and other small crafts, if equipped with small power engines, can go long distances, fish for longer hours and bring better catches even in rough weather.

¹t is proposed to train 25 local fishermen at the rate of 5 per year in the use of marine diesel engines, and fishing from small power craft with modern gear. If the training facilities are created locally, it will entail a huge expenditure on the purchase of marine crafts and maintenance of separate establishment for organising the training programme. Apart from the question of expenditure, it is doubtful if the marine craft and the requisite qualified personnel would be easily available for this purpose. It is considered economical and more advantageous from the technical and operational aspects of the scheme to train these fishermen at the Indo-Norwegian Community Project, Quilon, Kerala State or at any other suitable centre on the mainland. The scheme envisages training of five local fishermen each year in the handling of marine engines and fishing with modern gear from small power craft at a suitable centre on the mainland. The fishermen will be paid stipends at Rs.75/- p.m. each during the period of training. They will also be paid actual travelling expenses to and from the training centre.

### Estimated expenditure:

	<u>1961-62</u> Rs,	<u>1902-03</u> Rs,	<u>1963-64</u> Rs,		<u>1965-66</u> Rs.	Total. Rs.
Non-Recurring:	-	ec.a	-		~ <b>=</b>	
Total Non-recurring:						-
<u>Recurring:</u>						
Stipend for 25 fishermen (5 per yea @ Rs.75/- p.m. per head.	ar <b>)</b> 4500	4500	4500	4500	4500	22,500
Travelling expenses. ( <u>One way for one per</u> Steamer fare = Rs.35 Railway fare = Rs.15 Incidental = Rs.15	$\frac{1}{2}$	670	670	670	670	3350
Total: $= Rs.67$	7/-)ŷ		1.000 ett ent en en en en en			
Total Recurring	5170 =======	5170	5170	5170	5170	258 <b>50</b>

	<u>1961-62</u> Rs.	<u>1962-63</u> Rs.	<u>1963-64</u> Rs.	<u>1964-65</u> Rs.	<u>1965-66</u> Rs.	<u>Total</u> . Rs.
Non-Recurring Total:		-	-	-	-	-
Recurring total:	5170	5170	5170	5170	5170	25850
Grand Total:	5170	5170	5170	5170	5170	25850
2(ii) <u>Expenditure st</u>	atement	• •	( <b>Ps</b> .	in lakh:	s)	
Non-Recurring:	-	· •	-	-	-	-
Recurring:	0.052	0.052	0.052	0.052	0.051	0.25 <b>9</b>
Loans:	-	-	***	-	-	-
Other than loans: Eonoign.exchange	0.052	0.052	0.052	0.052	0.051	0.259
expenditure:		than 1966 Mile Anno II dan Anno Sairtyn a	<u>800</u> 100 (2010) - 10 (2010) - 10 (2010) - 10 (2010) - 10 (2010) - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 201	یکی سید میں ورو دار ا	ه مع مد ند مد جز مده ۱ مد	
3. Principal target	s to be	achieved	1:			
To train 25 local fishermen (5 each year) in mechanised fishing at a suitable centre on the mainland.						
4. This is a new so	This is a new scheme:					
5. Requirement of m	an power	r for the	<u>e constr</u>	uction p	hase:	- nil -

6. <u>Requirement of man power for the continuing phase</u>: - nil -

- 7. <u>Requirement of principal materials</u>: nil -
- 8. <u>Receipts</u>. Nil -
- 9. <u>Remarks.</u>

Scheme No. 46.

FISHERIES DEPARTMENT Andaman and Nicobar Islands.

<u>Name of th</u>	ne scheme:	MECHANISATION OF FISHING CRAFTS.
Head 🕻		Agriculture and Community Development. Fisheries.
Sub-head.		Miscellaneous.

#### 1. Object of the scheme:

With a view to popularising the use of mechanised fishing craft, the scheme envisages giving of mechanised boats to fishermen cooperative societies on subsidy-cum-loan basis -50 per cent of the cost of marine engine and 25 per cent of the cost of boat will be treated as subsidy and the balance as loan in accordance with the G.M.F. Rules. Altogether 5 mechanised boats will be supplied at the rate of 1 per year. The cost of each mechanised boat is estimated at Rs.12,000/- (marine engine Rs.11,000/- and boat Rs.1,000/-).

2(:	i) <u>Estimated expend</u>	<u>iture:</u> 961-62	1962-63	1963-64	1964-65	1965-66	Total:
	<u>Non-recurring:</u>	Rs.	<u></u>	Rs.	Rs.	Rs.	<u>+0004+0</u> Rs.
٦.	Provision for loan						
	@ 50 % of the cost of engines.		5 <b>5</b> 00	5500	5500	5500	27500
2.	Provision for loan @ 75% of the cost of boats.	750	750	50	750	750	3750
	Total Non-						
	Recurring: -	6250	6250	6250	6250	6250	31250
•	Recurring:						
1.	Provision for sub- sidy @ 50% of the cost of engines.		5500	5 <b>5</b> 00	5500	5500	27500
	Provision for sub-						
<u>7</u> 01	sidy @ 25%/the cos of boats.	250	250	250	250	250	1250
	Total Recurring:	5750	5750	5750	5750	5750	28750
No	- n-Recurring Total:	6250	6250	6250	6250	6250	31250
	Recurring Total:	5750	5750	5750	5750	5750	28750
	Grand Total:	12000	12000	1.2000	12000	12000	60000
2.	(ii) <u>Expenditure st</u>	atemen	t. e	(kc.	na lakhs	)	
			0.062	•	0.063		0.313
NO.	C						
	Recurring:	0.058	0.058	0.057	0.057	0.057	0.287
	Loans:	0 <b>.06</b> 2	0.062	0.063	0.063	0.063	0.313
	her than loans. reign exchange	0,058	0.058	0.057	0.057	0.057	0.287
	penditure:	-					-

3. Principal targets to be achieved:

To supply five mechanised boats at the rate of one per year to fishermen cooperative societies in accordance with the G.M.F. Rules.

- 4. This is a new scheme:
- 5. <u>Requirement of man power for the</u> <u>construction phase</u>. -- Nil --
- 6. <u>Requirement of man power ffor</u> <u>the continuing phase</u>. -- Nil --
- 7. Requirement of principal materials .- Nil --
- 8. <u>Receipts</u>. Not yet assessed.
- 9. <u>Remarks</u>.

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AT/15.9.

Scheme No. 47.

Rs.

## FISHERIES DEPARTMENT Andaman and Nicobar Islands.

Name of the Scheme: SUPPLY OF ESSENTIAL FISHERY REQUISITES.

Heau .	)	U	-	Agriculture and community Development.
and	)	06	-	Fisheries.
Sub-head	)	9	-	Miscellaneous.

#### 1. Object of the Scheme:

The scheme envisages supply of essential fishery requisites such as yarn, coal tar, boats, fishing hooks, salt and other miscellaneous stores to fishermen and fishermen co-operative societies on a loan-cum-subsidy basis in accordance with the rules governing financial assistance for G.M.F. schemes. It is also proposed to grant loans for the repairs of boats to fishermen, and fishermen cooperative societies. The expenditure on supply of fishery requisites is estimated at Rs.10,000/- per annum as per details furnished below:-

			and the second secon
1.	Fishing hooks	ø a .	200
2.	Coal Tar		400
з.	Yarn and twine		800
4.	Salt		200
5.	Boats	• • •	5,000
6.	Miscellaneous fis	shery	ŕ
	requisites.		2,400
7.	Loans for the rep	pairs	1
• -	of boats.	• • •	1,000
	Total.	• • •	10,000

2(i) Estimated expenditure:

	<u>1961-62</u> Rs.	<u>1962-63</u> Rs.	<u>11963-64</u> Rs.	<u>1964-65</u> Rs•	<u>1965–66</u> Is.	<u>Total</u> . ^{Ps} .
Non-Recurring:			100	100	100	
Provision of lo for the supply						
1.Fishing hooks 2.Coal Tar 3.Yarn & Twine 4.Boats 5.Salt 6.Miscellaneous	300 530 3,750 100	150 300 530 3,750 100	150 300 530 33,750 100	150 300 530 3,750 100	150 300 530 3,750 100	750 1,500 2,650 18,750 500
fishery requisites.	1,800	1,800	1.,800	1,800	1,800	9,000
7.Provision of loan for the repairs of boats.	1,000	1,000	1.,000	1,000	1,000	_5,000
Non-Recurring Total.	7,630		7,630	7,630	7,630	38,150
Recurring: Provision of subsidy for the supply of- l.Fishing hooks 2.Coal Tar 3.Yarn	5 50 100 270	50 3.00 270	50 100 270	50 100 270	50 100 270	<b>2</b> 50 <b>5</b> 00 1,350

<u> 1961–62</u>	<u> 1962–(63</u>	<u> 1963–64</u>	<u> 1964–65</u>	<u> 1965-66</u>	Total.
Rs.	Rs.	Fs.	Fs •	Rs.	Rs .
1,250 100	1,2500 1000	1,250 100	1,250 100	1,250 100	6,250 500
600	6010	600	600	600	3,000
1_2,370_	2,37(0	2,370	2,370	2,370	11,850
7,630	7,6310	7,630	7,630	7,630	38,150
2,370	2,37'0	2,370	2,370	2,370	11,850
10,000	10,0000	10,000	10,000	10,000	50,000
statener	nt:	( <u>Rs. in</u>	lakhs)		
0.076 0.024 0.076 0.0 <b>2</b> 4	0.07'6 0.02:4 0.07'6 0.02:4	0.076 0.024 0.076 0.024	0.07C 0.024 0.076 0.024	0.077 0.023 0.077 0.023	0.381 0.119 0.381 0.119
	Rs. 1,250 100 <u>600</u> 1 <u>2,370</u> 7,630 <u>2,370</u> <u>10,000</u> <u>statemen</u> 0.076 0.024 0.076	Rs.       Rs. $1,250$ $1,2500$ $100$ $1000$ $600$ $6000$ $2,370$ $2,370$ $7,630$ $7,630$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $10,000$ $10,0000$ statement: $0.076$ $0.024$ $0.0234$ $0.076$ $0.076$	Rs.       Rs.       Rs.       Rs. $1,250$ $1,250$ $1,250$ $100$ $100$ $100$ 600       600       600 $2,370$ $2,370$ $2,370$ $7,630$ $7,630$ $7,630$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $10,000$ $10,000$ $10,000$ $5tatement:$ (Rs. in $0.076$ $0.07'6$ $0.076$ $0.076$ $0.07'6$ $0.024$ $0.076$ $0.07'6$ $0.076$	Rs.       I.250       1,250       1,250       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       10000       10000       10000       10000       10000       10000       10000       10000       10000       10000       10000       100000       100000       100000       100000       100000       100000       100000       100000       100000       100000       100000       100000       100000       100000       100000       <	Rs.       Rs.       Rs.       Rs.       Rs.       Rs.       Rs.       Rs. $1,250$ $1,250$ $1,250$ $1,250$ $1,250$ $1,250$ $1,250$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $600$ $600$ $600$ $600$ $600$ $100$ $600$ $600$ $600$ $600$ $600$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $7,630$ $7,630$ $7,630$ $7,630$ $7,630$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,370$ $2,000$ $10,000$ $10,000$ $10,000$ $10,000$ $0.076$

#### 3. Principal targets to be achieved:

To supply essential fishery requisites (including loan for purchase of/repairs of boats) worth Rs.50,000/- to fishermen and fishermen co-operative societies in accordance with/the ultimate object of inc:reasing fish production./the G.M.F.

rules with

- 4. This is a new scheme.
- 5. Requirement of man-power for the construction phase:
- ))) 6. Requirement of nan-power for the Nil continuing phase:
- 7. Requirement of principal matterials: )
- 8. Receipts:

		<u>1961.–62</u> Ks.	<u>1962–63</u> Ic	<u>1963-64</u> Rs.	<u>1964–65</u> Rs.	<u>1965-66</u> Rs.	<u>Total</u> . Rs.
a)	By recovery of loans in easy instalments.	7,000	5,000	<b>5,</b> 000	5,000	5,000	27,000
b)	Sale proceeds of essential fr requisites.	ishery 2,500	2,500	2,500	2,500	2,500	12,500
	Total Receipts	9,500	7,500	7,500	7,500	7,500	39,500

9. Remarks:

. . .

## FISHERIES DEPARTMENT Andaman and Nicobar Islands.

Name of the Scheme: ANCHORAGE FOR FISHING CRAFTS.

Head	)	0	-	Agriculture and	Community	Development.
and	)	06	-	Fisheries.		
Sub-head	)	9	-	Miscellaneous.		•

## 1. Object of the Scheme:

In countries where fishing has advanced to large scale industrial proportions, separate fishing harbours exists. The present fishing crafts of these Islands consist of small boats which have to be anchored in suitable place, not far away from the landing side or the dwelling places of fishermen. The condition of the present anchorage near the Aherdeen Jetty is not satisfactory due to accumulation of sand thereon and damage effected to the sea wall. Necessary repairs will be undertaken to make the place a suitable anchorage for all kinds of fishing crafts.

## 2(i) Estimated expenditure.

2(1) <u>Estimated expenditure</u> .										
	<u>1961-62</u> Rs.	<u>1962-63</u> Rs.	<u>1963-64</u> Rs.	<u>1964-65</u> Rs.	<u>1965-66</u> Rs.	<u>Total</u> . Rs•				
Non-Recurring.										
Equipments for an chorage.	1- 	5,000				5,000				
Total Non- recurring.		5,000		(###		5,000				
Recurring:										
Repairs to anchorage	5,000	10,000	10,000			25,000				
Total Recurring	5,000	10,000	10,000			25,000				
Non-recurring Total. Recurring Total	5,000	5,000 <u>10,000</u>	10.000	era 	-	5,000 25,000				
Grand Total.	5,000	15,000	10,000			30,000				
Grand Total. 2(ii) <u>Expenditur</u>	والاعلى باعدر يخاصوا فمركا الشوائل والمراجع	in - man a saintai naintan ta sainta		in lakh	<u>-</u>	30,000				
2(ii) <u>Expenditur</u> Non-recurring. Recurring. Loans. Other than loans	<u>e Staton</u> 0.050 0.050	in - man a saintai naintan ta sainta		<u>in lakh</u>	<u>s</u> ) -	0.050 0.250 0.300				
2(ii) <u>Expenditur</u> Non-recurring. Recurring. Loans. Other than loans Foreign exchange	e <u>Stater</u> 0.050 0.050	<u>ont</u> , 0.050 0.100 0.150	( <u>Rs.</u> 0.100 0.100	in lakh	<u>s</u> ) - - -	0.050 0.250				
2(ii) <u>Expenditur</u> Non-recurring. Recurring. Loans. Other than loans Foreign exchange 3. <u>Principal tar</u> To provi 4. <u>This is a new</u>	e Statem 0.050 0.050 gets to de ancho: Scheme.	<u>ent</u> . 0.050 0.100 0.150 <u>be achie</u> rage fac	(Bs. 0.100 0.100 ved: ilities	to fishe:	rmen.	0.050 0.250				
2(ii) <u>Expenditur</u> Non-recurring. Recurring. Loans. Other than loans Foreign exchange 3. <u>Principal tar</u> To provi 4. <u>This is a new</u> 5. <u>Requirement of</u> (1) Admin (2) Tech (3) Skil	e Statem 0.050 0.050 gets to de ancho: <u>Scheme</u> . f man-pom nistrati nical	ont. 0.050 0.100 0.150 be achie rage fac	(Bs. 0.100 0.100 ved: ilities	to fishes truction Nil Nil 50	rmen.	0.050 0.250 0.300				

## 7. Requirement of principal materials:

Item		<u>Quantity</u> (Tons)	<u>Value</u> Rs.
1. Timber 2. Steel 3. Cement		- 12	- 2,5 <i>2</i> 0
4. Coal 8. <u>Receipts:</u>	•••	- N11]	
9. <u>Remarks</u> :	• • •	-	

Scheme No.49.

#### FISTERIES DEPARTMENT Andaman & Micobar Islands. ***

Name of Scheme: COLD STORAGE AND MARKETING.

Head	)	O - Agriculture and Community Development.
	Į.	06 - Fisheries.
Sub-head	₹¥	7 - Preservation and Marketing of fish.

## 1. Object of the Scheme:

In order to preserve the surplus catches and to effect a steady supply of fresh fish, it is proposed to establish a  $l_2^{\frac{1}{2}}$  ton ice and cold storage plant at Port Blair. Cold storage fac**ilities** will be made available to fishermen on reasonable hire.

For the transport of large quantities of fresh fish from the landing places to the cold storage and the proposed Dehydration Unit, a fish van is also provided under this scheme.

## 2(i) Estimated expenditure:

	<u>1961-62</u> Rs.	<u>196<b>2-</b>63</u> R.	<u>1963-64</u> ^{Rs} .	<u>1964–65</u> Rs.	<u>1965-66</u> Rs.	<u>Total</u> . Rs.
Non-recurring: (a) One Cold Storage Plant - 14 ton	)					
capacity.	-	50000	100000		-	150000
(b)One Fish Van.	***	<b>1</b> 22.41	20000	-	· •	20000
Total Mon-recurring:		50000	120000			170000
<u>Recurring:</u> 1.Provision of staff	• •					
(a)Chargeman(1)		est	1440	1560	1680	4680
<pre>in the scale   of Rs.120-10-300 (b)Mechanics(2)   in the scale</pre>		-	1920	2040	<b>2</b> 160	6120
of Rs.80-220 (c)Salesmen (2) in the scale of Rs.60-130.	-	-	1440	1512	1584	4536
(d)Driver (1) in the scale of Rs.40-2-60.	-	-	-	480	504	984
(e)Weighmen (4) in the scale of Rs.30-2-35.	· _	-	1440	1464	1438	4392
Dearness allowance.	-	-	5520	6060	6060	17640
2. <u>Contingencies</u> . (a)Running expenses of cold storage						
and fish van.	123	<b>4</b> 72	4400	5400	5400	15200
(b)Miscellaneous contingencies.		-	1000	1000	1000	3000
Total Recurring:			17160	19516	19876	56552

	-	: 149 :-				
Non-require	<u>1961<b>-82</b></u> Rs.	<u>1962-63</u> Rs.	<u>1963-64</u> Rs.	<u>1964-65</u> Rs.	<u>1965-66</u> Rs.	<u>Total</u> . Rs.
Non-recurring Total.	-	50000	120000	-	-	170000
Recurring Total:	-	-	171 <b>6</b> 0	19516	19876	<b>56</b> 55 <b>2</b>
Grand Total:		50000	137160	19516	19876	226552
2(ii) <u>Expenditure</u> s	tatement	<u>.</u>	(Rs	. in lakh	ıs)	
Non-recurring. Recurring. Loans.		0.500	1.200 0.172	0.195	0.199	1.700 0.566
Other than loans. Foreign exchange.	-	0.500 0.500	1.372 1.000	0.195 -	0.199	2.266 1.500
<ol> <li><u>Principal targe</u></li> <li>(1) One l¹/₂ ton shed at Po</li> <li>(2) One fish v</li> </ol>	capacit rt Tlair	y cold s •	torage p	lant wil]	L be esta	b <b>li</b> •
4. This is a new s		be purch	aseu.			
5. <u>Requirement of</u> the constructio	man powe:	<u>r during</u>		I	Vil	
6. Requirement of	man powe:	r for the	<u>e contin</u>	uing phas	5e:	
<ul> <li>(1) Administra</li> <li>(2) Technical.</li> <li>(3) Skilled.</li> <li>(4) Un-skilled</li> </ul>		• • • • • • • • • • • • • • •	96 :	l. man monti man monti man monti	1 <b>S</b> • (	
7. Requirement of	principa	<u>l materi</u>	als:	]	Nil	
8. <u>Receipts</u> :	1 <b>961-</b> 62		1963-64	1964-65	1965-66	Total.
Hire charges. for cold	10018.	P3.	Rs .	Fs.	Rs .	Ts.
storage.	**	~	2000	2000	2000	6000
'Total Receipts.	-		2000	2000	2000	6000
9. <u>Remarks</u> :						

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AT/23.9.

Scheme No. 50.

## FISHERIES DEPARTMENT Andaman and Nicobar Islands.

Name of the Scheme: SHARK LIVER OIL AND FISH MEAL FACTORY

Head ) 0 - Agriculture and Community Development. and ) 06 - Fisheries. Sub-head ) 9 - Miscellaneous.

#### 1. Object of the Scheme:

Extraction of crude shark liver oil has already been taken up on an experimental basis. Considering the easy availability of sharks in these Islands and also the demand for vitamin rich oil in the mainland, it is proposed to establish a pilot plant for the purpose. A small fish Meal plant will also be established for utilizing the waste products resulting after the extraction of shark liver oil.

2. Estimated expenditure.

Rs. 2,00,000/-

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## 3. Principal targets to be achieved:

One pilot plant for the extraction of shark liver oil and a small fish meal plant will be established.

### 4. Remarks:

Details of the scheme are yet to be worked out. Foreign exchange to the tune of R.1.50 lakhs may be required for purchase of equipment.

Scheme No.51.

#### FISHERIES DEPARTMENT Andaman and Nicobar Islands. ***

Name of the Scheme: ESTABLISHMENT OF A DEHYDRATION UNIT.

Head	)	0	_	Agriculture and Community Development.
and	)			Fisheries
Sub-head	)	7	-	Preservation and Marketing of fish.

## 1. Object of the Scheme:

The Andanan and Nicobar Islands get rain for nearly 8 months in a year when drying of fish by sunlight is not possible. Much of the catches made by the fishermen during this period go waste as alternative provisions for drying do not exist. It is, therefore, proposed to establish a dehydration chamber of 1 ton capacity in Port Blair. With the help of this plant drying of fish will be possible throughout the year.

2(i) Estimated expenditure.

	<u>1961-62</u> Rs.	<u>1962–63</u> Rs.	<u>1963-64</u> Rs.	<u>1964–65</u> Rs.	<u>1965-66</u> Rs.	<u>Totel</u> . R.
<u>Non-recurring</u> : Dehydration Plant	. <del>.</del>	85,000	_	-	_	85,000
Total Non-recurri		85,000				85,000
Recurring: 1.Provision of st	taff:					
(a)Mechanic (1) in the scale of Rs.80-220		960	1,020	1,080	1 <b>,1</b> 40	4,200
(b)Assistant Mechanics (2) in the scale of Rs.60-130.	_	1,440	1,512	1,584	1,656	6,192
(c)Weighman (1) in the scale of Rs.30-2-35.	of _	<b>_</b>	360	366	372	1,098
Dearness Allowance.	-	1,980	2,520	2,520	2,520	<b>9,</b> 540
2. <u>Contingencies</u> (a)Fishermon (4) in the scale of S.30-2-35 plus D.A.@ R.45/-p	of S	3 <b>,6</b> 00	3,624	<b>3,</b> 648	3,672	14 <b>,</b> 544
(b)Running expension of the Plant.	ses	500	1,000	1,000	1,000	3, <i>5</i> 00
(c)Misc.contingen	ci <u>es</u>	1,000	500	500	500	2,500
Total Recurrin	ng	9,480	10,536	10,698	10,860	41,574
Non-recurring Total. Recurring Tota			10,536	10,698	10,860	85,000 41,574
Grand Total.		94,480	10,536	10,698	10,860	1,26,574

2(ii) Expenditure statement:

## (<u>Rs. in lakhs</u>)

	<u>1961-62</u> Ps.	<u>1962-63</u> Rs.	<u>1963-64</u> Rs.	<u>1964-65</u> Rs.	<u>1965-66</u> Rs.	<u>Total</u> . Rs.
Non-recurring. Recurring. Loans. Other than loans.		0.850 0.095 - 0.945	0.105 0.105	0.107	0.109	0.850 0.416 - 1.266 0.850
Foreign Exchange.	. –	0.850		-	-	0.000

3. Principal targets to be achieved:

A Dehydration Chamber of about one ton capacity will be established in Port Blair.

4. This is a new scheme.

5. Requirement of man power for the construction phase: Nil

## 6. Requirement of man power for the continuing phase:

<ul> <li>(1) Administrative</li> <li>(2) Technical</li> <li>(3) Skilled</li> <li>(4) Unskilled</li> </ul>	0 0 0 0 0 0 0 0 0	Nil 144 man months. 192 man months. 48 man months.
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## 7. Requirement of principal materials: ... Nil

## 8. Receipts:

	<u>1961-62</u> Fs.	<u>1962-63</u> Rs.	<u>1963-64</u> _{Fs} ,	<u>1964-65</u> Rs.	<u>1965-66</u> Rs•	
Charges for curing fish for private parties.	-	-	5,000	5,000	5,000	15,000
Total Receipts.			5,000	5,000	5,000	15,000
9. Remarks:	•					

## FISHERIES DEPARTMENT Andaman and Nicobar Islands.

<u>Name of the Scheme</u>: RESEARCH ACTIVITIES.

Head ) 0 - Agriculture and Community Development. and ) 06 - Fisheries Sub-head ) 2 - Research, Survey and Statistics.

#### 1. Object of the Scheme:

No industry can progress if it is not backed up by scientific research. The various problems that may arise during the course of execution of any industrial enterprise have to be properly assessed, analysed and suitable solutions arrived at. Fishing, being an industry largely dependant on uncertain climatic fluctuations and habits of the fishes, the importance of scientific research in the judicious exploitation of the available resources, is all the more pronounced.

The problems confronting a research worker in these islands are many. In the absence of proper equipment and suitable large library facilities, the quality and the quantity of the research work carried out cannot be upto expectation. Being isolated from the rest of the workers in the field, the scientific personnel in these Islands are much handicapped in acquiring knowledge of the progress made in the mainland and in the outside laboratories. It is, therefore, proposed to equip departmental research station with modern equipments, and to appoint the necessary staff.

Considering the scope for the development of the Mackerel, Sardine, Shark, Seer Fish, Tuna and Perch Fisheries in these waters, it is proposed that detailed investigations should be carried out on the biology of these groups. Apart from these, adequate attention will be paid to the Chemical and Botanical problems associated with fisheries. Research will also be undertaken on the Molluscan shells - <u>Trochus</u> and <u>Turbo</u>, which if properly exploited will be/regular source /a of revenue to the Administration.

The present system of the research staff being guided by the Fisheries Development Officer who remains busy with developmental work, is not condusive to the effective conduct of research activities. Research is a concentrated effort to probe into the hitherto unknown and it requires a separate entity. Side by side with all developmental enterprises separate research departments also do exist. It is, therefore, felt that a full time research officer with suitable staff may be appointed to handle exclusively research problems. If the activities of both the fields - development and researchare harmoniously synchronised, it will give a real fillip to the fishing industry of these Islands.

In addition to a well equipped laboratory, it is proposed to maintain a full fledged museum, aquarium and library attached to the research section of this department. The departmental library will be enlarged by adding more scientific books and journals.

#### 2(i) Estimated expenditure:

	<u>1961-62</u> Rs.	<u>1962-63</u> Rs.	<u>1963-64</u> Rs.	<u>1964-65</u> Bs.	<u>1965-66</u> Rs.	<u>Total</u> . Rs.
Non-Recurring: 1.Furnishing						
of laboratory.	-	3,000	-	-	-	3,000

		<u>1961-62</u> Rs.	<u>1962-63</u> Rs.	<u>1963-64</u> Rs.	<u>1964-65</u> Rs•	1965-66 Rs.	Total Rs.
2.	Furnishing of Museum.	ہ دیانہ		9,000	3,000	-	12,000
З.	Scientific equipments for the laboratory	-	10,000	10,000	5,000	-	25,000
4.	Reference books and journals for the Library.		5,000	5,000	5 <b>,</b> 000	-	20,000
5.	Museun Jars, Glasswares, Preservatives etc.	3,000	5,000	2,000	2,000	_	12,000
6.	Glass Aquaria, Air Compressor Glass Plates etc.	s,	20,000	10,000	10.000	5,000	45,000
	Total Non- Recurring.	8,000	43,000	36,000		5.000	1,17,000
	Recurring: Provision of s	taff:					
r	Research Labor						
	)Assistant Fisheries Research Officer in the scale of Rs.275 800 plus Anda- man Special Pa @ 33 $\frac{1}{3}\%$ .	, <b></b>	<b>4,</b> 400	4,800	5,200	5,600	20,000
(Ъ	)Research Assistant (Shar and Rays) (1) in the scale of Rs.160-10-330, plus Andanan Special Pay @ 33 3%.		2,720	2,880	3 <b>,</b> 040	3,200	14,400.
	Assistant (Cybium and Tunny)(1)in the scale of Rs.160-10-330 plus Andaran Special Pay @ 33 ¹ / ₃ %	2,560	2,720	2,880	3 <b>,0</b> 40	3,200	14,400
(c	Assistant (Off/shore Fishing)(1) in the scale of R.160-10- 330 plus Andaran Spl. Pav @ 33 ¹ / ₃ %	2,560	2 <b>,720</b>	2,880	3,040	3,200	<b>1</b> 4,400

	<u>1961-62</u> Rs.	<u>1962–63</u> ^{Rs} .	<u>1963-64</u> Rs.	<u>1964–65</u> Rs.	<u>1965-66</u> Rs•	<u>Total</u> . Rs.
(e)Research Assistant (Algology)(1) in the scale of Rs.160-10- 330 plus Andaman Spl. Pay @ 33 ¹ / ₃ %	2,560	2,720	2,880	3,040	3,200	14,400
(f)Rescarch Assistant (Chemical)(1) in the scale of Rs.160-10- 330 plus Andaran Spl. Pay @ 33 $\frac{1}{3}\%$	2,560	2,720	2,880	3,040	3,200	14,400
(g)Laboratory Attendants(6) in the scale of Rs.40-1-50-	0.000	0.052	2 09/	2 096	3,168	15,120
2-60. Dearness	2,880	2,952	3,024	3,096	-	
Allowance. Travelling	<b>7,</b> 440	8,280	8,280	8,280	8,280	40,560
Allowance. 2. <u>Museum</u>	1,000	1,000	1,000	1,000	1,000	5,000
(a)Curator (1) in the scale of Rs.160-10- 330 plus Andanan Special Pay						
@ ⁻ 33 <del>3</del> % (b)Taxidernist(1	-	2,560	2,720	2,880	3,040	11,200
in the scale of Rs.80-220.	960	1,020	1,080	1,140	1,200	5 <b>,</b> 400
<pre>(c)Technicians(2</pre>	-	1,440	1,512	1,584	1,656	6,192
of Rs.40-1-50- 2-60. (e)Watchran(1)	960	984	1,008	1,032	1,056	5,040
in the scale Rs. $30-\frac{1}{2}-35$ .	of -	360	366	372	378	1,476
Dearness Allowance.	1 <b>,</b> 740	<b>4,</b> 440	4,440	4,440	4,440	19,500
Travelling Allowance.	<b>5</b> 00	<b>5</b> 00	<b>5</b> 00	500	<b>5</b> 00	2,500
3. <u>Aquarium</u> . (a)Aquariun Assistant (1) in the scale of Rs.160-10- 330 plus Anda nan Spl.Pay						: · ·
$@ 33\frac{1}{3}\%$ .	-	2,560	2,720	2,880	3,040	11,200

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	<u>1961-62</u> Rs.	<u>1962-63</u> Rs.	<u>1963-64</u> Rs.	<u>1964-65</u> Rs.	<u>1965-66</u> Rs•	Total Rs.
(b)Pump Driver(1) in the scale of Rs.75-3-105	)	900	936	972	1,008	3,816
(c)Aquarium Attendants(2) in the scale of Rs.40-1-50-						
2-60.	960	984	1,008	1,032	1,056	5,040
Dearness Allowance.	1,080	2,580	2,580	2,580	2,580	11,400
Travelling Allowance.	-	500	500	500	500	2,000
4. Library:						
(a)Library Clerk (1) in the scale of Rs.60-130.	720	<b>7</b> 56	792	8 <b>2</b> 8	864	3,960
Dearness Allowance.	660	660	660	660	660	3,300
<u>Contingencies</u>	•					
Miscellaneous laboratory, Museum and Aquarium contingencies		2,000	2,000	2,000	2,000	8,000
Total	Z-g-,		<u></u>			
_	31,700	52,476	•54 <b>,</b> 326	56,176	58,026	252,704
Non-recurring Total.	8,000	43,000	36,000	<b>25,0</b> 00	5 <b>,</b> 000	1,17,000
Recurring ) Total. )	31,700	52,476	54,326	56,175	58,026	252,704
Grand Total.	<u>39,700</u>	95,476	90,326	81,176	63,026	369704
2(ii) Expenditur	e staten	ent:	(Rs	. in lak	hs)	• • • •
Non-Recurring.	0,080	0.430	0.360	0.250	0.050	1,170
Recurring.	0.317	0.525	0.543	0.562	0,580	2.527
Loans. Other than loans Foreign Exchange		0.955	0.903	0.812	0.630	3.697
3 Dringingl tar	mote to	ho schio	vođ •			

## 3. Principal targets to be achieved:

A woll equipped laboratory, a museum, an aquarium and a library will be established, and research work will be undertaken. ``\

4. This is a new scheme.

5. Requirement of man-power for the construction phase: N	Nil
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6.	Requirement of	man-power	for the	continuing	phase:	. <del>.</del> '
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	(2) (3)	Administrative Technical Skilled Unskilled	• • • • • • • • • • • •	552 648	man man	months months months months
7.	Requiremen	t of principal	materials:		Nil	
8.	Receipts:				Nil	
9.	Remarks:	* **	t	* • •	÷	

Scheme No.53.

# FISHERIES DEPARTMENT Andaman and Nicobar Islands.

Name of the Scheme: BUILDING FOR THE FISHERIES HEADQUARTERS.

Head	)	0	-	Agriculture and Community Development.
and	)	06		Fisheries.
Sub-head	)	9		Miscellaneous.

### 1. Object of the Scheme:

Based on the recommendations of Dr.H.S.Rao, Marine Fisheries Research Station, Mandapan Camp, the Fisheries Department commenced functioning in these Islands from 1949, as a small station exclusively confined to research studies on fisheries problems. As no proper buildings were available, the station had to be temporarily accommodated in a reconditioned Japanese-Gun-emplacement at South Point. This structure being constructed altogether for a different purpose, has no ventilation facilities, the temperature inside often reaching to intollerable limits during summer. With the inception of the Second Plan schemes, the staff and the equipments of this department have increased considerably, and the existing space is neither sufficient nor suitable for the proper functioning of the various sections of this department. It is, therefore, proposed to construct a suitable building for the Fisheries Department. The space required for the various sections are as under:-

<ol> <li>Fisheries Development Officer's Office and Laboratory.</li> </ol>	100' x 20' = 2000 sq.ft.
2. Museum.	100' x 20' = 2000 sq.ft.
3. Aquarium	50' x 20' = 1000 sq.ft.
4. Stores and i Cold Storage.	75' x 30' = 2250 sq.ft.

## 2(i) Estimated expenditure:

		<u>1961-62</u> Rs.	<u>1962-63</u> Rs.	<u>1963-64</u> Rs.	<u>1964-65</u> Rs.	<u>1965-66</u> Rs.	<u>Total</u> . Rs.
Non	-recurring:						
(a)	Fishery Development Officer's Office and laboratory builling.	23,000	_	_	_	_	23,000
(b)	Museum						
	building.	-	23,000	-	-	-	23,000
(c)	Aquariun building.	_	11 <b>,5</b> 00	_	-	-	11,500
(d)	Building for stores,						
	and cold						
	storage.	25,875		<b>ette</b>	eter		25,875
	Non-recurrin Total.	ng 48,875	34,500				83,375
	Recurring:		يونو عاف اندر هو 199 ريچ	I	Nil		

	<u>1961-62</u> Rs.	<u>1962-63</u> Rs.	<u>1963–64</u> ß.	<u>1964-65</u> Rs.	5 <u>1965–66</u> Rs.	<u>Total</u> . Rs.
Recurring Total.	<b></b>	•	Ni	1	ne 1000	
Non-Re <b>curri</b> ng Total.	48,875	34,500	-	-	-	83,375
Recurring Total.		1894 				
Grand Total.	48,875	34,500		<b>199</b>		83,375
2(ii) Exponditur	e statem	ent:	(Rs. :	in lakh	s)	`
Non-recurring.	0.489	0.345	-	-	-	0.834
·Recurring.	-	-	-	-	-	-
Loans. Other than loans	0.489	- 0.345	-	-	-	0.834
Foreign Exchange						
3. Principal tar	gets to	be achie	ved:			

3. Principal targets to be achieved:

To construct following buildings for the Fisheries Department: -

> (1) An office, (1) An office,
> (2) A laboratory,
> (3) A Museum,
> (4) An Aquarium,
> (5) A store, and
> (6) A building for cold storage plant.

4. This is a new scheme.

5. Requirement of man-power for the construction phase:

(1)	Administrativ	е	)			
(2)	Technical		)	1	man	month.
	Skilled	0 • e	1	60	man	months.
(4)	Unskilled		1	28	man	months.

- 6. Requirement of man-power for the continuing phase: Nil
- 7. Requirement of principal raterials:

<u>Item</u>		<u>Quantity</u> (Tons)	<u>Value</u> Rs.
1. Timber	0 0 0	776	20,900
2. Steel	8 0	2.8	2,880
3. Cement	6 0 6	.40	8,400
4. G.C.I.sheets	6 8	8	6,720

8. Receipts:

Nil -

9. Remarks:

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# COMMUNITY DEVELOPMENT PROGRAMME

DRAFT PROGRAMME FOR COMMUNITY DEVELOPMENT DURING THE THIRD PLAN PERIOD.

#### First Plan:

There was no programme during the First Plan period. Second Plan:

Two National Extension Service Blocks - one for South Andaman and the other for Car Nicobar - were allotted to this territory (now converted into Stage I Blocks). The South Andaman Block was inaugurated on the 14th November 1957 while the Car Nicobar Block was inaugurated on the 2nd October 1958. The stage I operational period of the South Andaman Block during the Second Plan is  $3\frac{1}{2}$  years and of the Car Nicobar Block is  $2\frac{1}{2}$  years.

The expenditure likely to be incurred by both the Blocks during the II Plan period works out to Rs.14.028 lakhs.

### Approach to the Third Plan:

The South Andaman Block will have an operational period of 14 years in respect of Stage I and 34 years in respect of Stage II during the Third Plan period. Similarly Car Nicobar Block will have an operational period of  $2\frac{1}{2}$  years in respect of Stage I and  $2\frac{1}{2}$  years in respect of Stage II during the III Plan period.

The anticipated expenditure during the III Plan period in respect of both the Blocks will be as follows:-

		South Andaman Block.	Car Nicobar <u>Block</u>
	Period of operation (Stage I) falling during the Third Plan: Pro-rata target expenditure during the III Plan period on	1 <u>:</u> yrs.	2½ yrs.
	the basis of R.12 lakhs for a five year period of operation applicable to Stage I Block .	<u>12 X 1<del>1</del></u>	<u>12 X 24</u>
	=	<u>12 X 1<del>1</del></u> 5 B.3.6 1akhs.	Rs, 6.0 lakhs.
3.	Estimated percentage of pro- rata target expenditure expected to be incurred;	55%	65%
	Estimated expenditure during III Plan on the basis of item 3 above.	k.1.98 lakhs.	Rs.3.90 lakhs.
5. 6.	Efficiency cut @ 10% Net estimated expenditure (Stage I) Street	Rs.1.79 lakhs.	Rs.0.39 lakhs. Rs.3.51 lakhs.
7. 8.	Period of operation of Stage II during the III Plan period, Pro-rata target expenditure dur the III Plan on the basis of Rs.	3½ yrs. ing 5	2 <del>1</del> yrs.
	lakhs for a five year period of op cration applicable to Stage Block. Total for the Two Blocks.	II	Rs.2.5 lakhs. Rs.6.01 lakhs.

In addition it is proposed to establish three community development blocks (Stage I) at Pangat for Middle Andaman, Diglipur for North Andaman and Nancowrie for the Central Group of Nicobar Islands.

The allocation of the Blocks will be as follows: -Middle Andaman October, 1962. April, 1963. North Andaman Central Group of Nicobar Islands. October, 1963. The anticipated expenditure on these three blocks, according to the Schematic Budget of a Stage I Block will work out as follows: -Rangat Block, Diglipur Nan-Block. cowry Block. 1.Period of operation during 3 yrs. 2 yrs. Third Plan. 3ayrs. 2.Pro-rata target expenditure B.8.4 lakhs. B.7.2 lakhs. B.6 during Third Plan. lakhs. 3.Estimated percentage of ) 65% e de la la expenditure.) 75% 70% 4.Estimated expenditure during the 3rd Plan period. Rs.6.3 lakhs Rs.5.04 Rs. 3.90 lakhs. lakhs. 5.Efficiency cut @ 10% Rs. 0.63 " Rs. 0. 50 Rs. 0.39 lakhs. lakhs. Rs. 3.51 6.Net estimated expenditure Rs.5.67 " Rs. 4. 54 lakhs. lakhs. Total for the above 3 Blocks. Rs. 13.72 lakhs. Grand Total for the 5 Blocks. Rs. 25.02 lakhs.

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The financial outlay on community development programme during the Third Plan period in this Territory will work out to Rs.25.02 lakhs.

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Statement showing phasing of proposed outlay on Schemes included in the Draft Third Five Year Plan - Andaman and Nicobar Islands.

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# (Rs. in lakhs)

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Sl. Ø Ø No. Ø Head Ø	Scheme 🏼 🌢		Spill	Proposed	outla 1-66	ay (	) Phasi	ing of pi	oposed (	outlay		≬Balance ≬after		
No.§ Head §			from Second Plan.	§Total§Ca	oital(	Foreign exchange	1961-62	1962 -63	01963 <b>-</b> 64( ≬ ≬	) 1964-65 ) ) )	01965-66 0 0 0	<u>Thirc</u> Total	i Plan OFore Ign (Ex- Ichang	
10 2 0	3 1	4	5	0 0 6 0	7	8	<u>§</u> 9	10	<u> </u>	<u>( 15</u>	<u> </u>	<u> </u>	<u>§ 15</u>	
Agriculture and Commu- nity Develop 1. ment.	<u>Agricultural</u> Production.			•		5			1 150		1.055			
2.	ment. Training of personnel for staffing the Agricultural Department.	13.304 1,396	-	13,304 7 1.396		5.000	8.097 0.294	1.594 0.208		1.186 0.316		-	-	
3.	Multiplication and Distribut- ion of improved seeds.	2.211	-	2.211 0	<b>.80</b> 0	_	0.679	0.477	0.481	<b>0.</b> 285	0.289	-	-	
4.	Supply of Imple- ments, Seeds and Manures to Culti vators.		_	2,315 1	<b>.</b> 915	-	0.463	0.463	0.463	0.463	0.463	-	-	
5.	Schene for Demon stration of Inte sive Cultivation of Agricultural Crops.	n-	-	1.204 (	.030	-	0.243	0.246	0.236	0.238	0.241	-	-	

1. (	2.	<u>(</u> 3, )	4.	<b>∮</b> 5.	<b>∮</b> 6.	1 7. J	8.	<u>j 9.</u>	1 10.	<u>11. (12. (</u>	13. }	14. (
6.		Scheme for Plant Protection in the Andaman and Nicobar Islands.	1.250	_	1.250	0.150	-	0.370	0.220	0.220 0.220	0.220	_
7.		Rehabilitation of Coconut Plantations in Andamans.	13.211		13.211	11,725		2.464	3.009	2.664 2.738	2.286	-
8.		Development of Coconut Planta- tions in Nicobars.	5.080	_	5,020	3.520	-	1,426	0.906	0.910 0.917	0,921	-
9.		Scheme for the Establishment of Coconut Nurseries for the Andaman and Nicobar Islands.	2.802	_	2.802	0.260	-	0.760	0.505	0.509 0.512	0.516	-
10:		Deputing selected Nicobarese to the mainland for a study tour of the Coconut Stations and Plantations on the West Coast.	0.525	_	0.525	-	_	0.105	0.105	0.105 0.105	0.105	_
.1.		Scheme for the establishment of Progeny Orchard- cum-Nurseries.	3,292	_	3,292	0.604	_	1.223	0.510	0.515 0.520	0.524	_
12.		Scheme for Demon- stration of Inten- sive Cultivation of Horticultural crops		_	2.470	0.020	_	0.495	0.498	0.490 0.492	0.495	_
.3.		Levelopment of Cashewnut Planta- tions in Andaman and Nicobar Islands.	0.325	_	0.325	<del>.</del> .	_	0.065	0.065	0.065 0.065	0.065	

1 2:	<u>3</u> :	<b>4</b> :	<b>1</b> 5:	Į 6:	1 7:	<u> 8</u> :	· - 9:	<b>į</b> 19:	<u>} 11:</u>	) <u>1</u> 2: )	<u>13.</u> X	14:	<u> </u>
4.	Arecanut Developmen Scheme.	nt 0.938	)	0.938	0.080	-	0.249	0.170	0.172	0.173	0.174	-	-
15.	Development of Pin- apple cultivation and establishment of a Canning Unit.	e- 2.468	**	2.468	1.175	-	1,429	0,253	0.258	C <b>.,</b> 263	0,266		
16.	lac Cultivation in Indamans.	1.251	-	1.251	0.527		0.338	0,360	0.248	0.151	0_154	_	. <b>-</b>
17.	Exploratory Trials in Coffee Sultiva- tion in Andamans.	2.813	• <b>2</b>	2,813	C.840	-	0.314	0.629	0.459	0.398	0.413		_
18.	Fubber Flantation in the Andaran and Nicopar Islands.	5.000		<b>5.</b> 000		<b></b>	0.250	<u> </u>	1.250	1,250	1.250		-
	Total Agricultural Production. Land Development.	61.855	500 	61.855	29.336	5,000	19,864	11.218	10.479	10,341	9,953		
19.	Soil Erosion and Research Station at Rangat.	0.536	■,	0.536	_	-	0.107	0.107	0.107	0.107	0.108	-	-
20.	Soil Conservation in Agricultural Lands.	6.245	_	6.245	4 <b>.97</b> 5	-	1.885	1.224	1.046	1.045	1.045	-	_
21.	Roclamation of Saline affected Land for culti-	4.000		4 000	4.983		0.391	070	1.386	1.130	1.198	_	_
	va <b>t</b> ion. Total Land Development.	<u>4.983</u> 11.764	-	<u>4.983</u> 11.764	<b>9.95</b> 8		2.383	بيشير ويتعينون الشي مشتويد وبسا تشريها الو	2.539	2.282	2.351	-	
	Land Resettlement and Colonisation.										. •		
22.	Colonisation	483.050	28.338	110.350	88.870					22.001			
	Scheme. Total Land Re- settlement and Colonisation.	483.050 2	28.338	110.350	83.870		21.693	21.648	21.822	22.001	23.186	<b>-</b>	-

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1. 2	<u> </u>	4,	\$ 5.	06.	2 7.	8,	<u>(9.</u> )	10 <b>.</b> X	11. (	12.	() T	14.	1 75
1. <u> </u>	Animal Husbandry.	<u> </u>	<u> </u>	<u>v 0.</u>	<u>×</u>		<u>x 3, x</u>	<u> </u>	<u>, , , , , , , , , , , , , , , , , , , </u>	<u> </u>	<u> </u>	<u>X 14</u>	<u>1 15.</u>
3.	Expansion and Improv ment of Veterinary Services.	e- 2.056	-	2.056	1.180	_	0.846	0.374	0.423	0.206	0.207	-	_
4.		a)0.500 b) <u>0.621</u> <u>1.191</u>	0.241	0.932	0.357	<b></b>	0.180	0.221	0.261	0.132	0.138	-	-
5.	Training of Poultry Keepers.	0.035	-	0.035		_	0.007	0,007	0.007	01007	0.007	Hap	-
ô.	Goat Breeding Scheme.	1,399	-	1,399	0.220	-	J. 376	0.259	0,254	0.255	0.255	-	-
27.	Supply of Milch Cattle.	3.500	-	3.500	3,125		0.700	0.700	0.700	0.700	0.700	128 	
	Total Animal Husbandry. Forests	8.181	0.241	7.922	4,882		2,109	1,561	1.645	1.300	1.307	-	
3 <b>.</b>	Purchase of Equip- Ments: (a) (b)		28.305	29.000	27,000	24,0	00 20.40	0 5,400	2.400	0.400	0.400	هم	
9.	Raising of Indus- trial Plantation of Matchwood and Teak,	12.000	-	12.000	-	-	2.400	2.400	2.400	2.400	2.400	_	
0.	Forest Plantation (Minor Forests).	0.720	_	0.720	_	-	0.144	0.144	0.144	0.144	0.144	-	
1.	Additional Seasoning Kiln.	1.450	1.450	1.326	1.000	-		0.500	0,500	0.163	0.163	-	-
2.	Silvicultural Re- (a search and Experi-(h		1.600	2.475	0.450	-	0.605	0.605	0.455	0.405	0.405	-	-
3.	ments. Boat Building.	4.500	<b>-</b>	4.500	0.750	-	0.850	1.250	0.900	0.750	0.750	-	
34.	Construction of Permanent Rest Houses.	1.373	-	1,373	1.200		0.400	0.419	0 ₂ 438		0,058	<b>## 6</b> `	<u></u>

5.	Opening of a Training School for Foresters and	· · ·						· ·	•				
	Forest Guards.	0.850	-	0,850	0.350	-	0.250	0.300	0.100	0.100	0.100	-	-
6.	Revision of Forest Working Plan.	3 <b>.</b> 900	-	3.900	-	-	1.300	1.300	1.300	_	-	_	-
7.	Cultural Operation in the Nicobar						0.251	0.351	0.450	0 150	0,498	_	_
	Group of Islands. Total Forests.	2.000	- 31,355	2.000	30,750 2	24.000	26.600	12.669	9,087		4.918	ран 1993 — Мариян Салан 1993 — Мариян Салан 1993 — Мариян Салан (1994 — 1994 — 1994 — 1994 — 1994 — 1994 — 1994 — 1994 — 1994 — 1994 — 1	
	<u>Co-operation</u> .			Name and the second			₩₩₩₩, [₩] ₩ [₩] ₩, [₩] ₩₩ [₩] ₩, [₩] ₩₩, [₩] ₩, [₩] , [₩]		کریم است کر منطق پر وست کرو			,	
8,	Scheme to provide subsidy to 27 Service Co-opera- tive Societies and 2 Gredit Unions.	0.261	_	0.261	en	-	0,087	0.044	0.044	0.043	0.043	~24	e**
9.	Scheme for Trainin of Non-Official personnel in the Andaman Islands.	ng 0.151	-	0.151	-	-	0.072	0.079	_	-	-	-	_
D•	Scheme for Trainin of non-official (a personnel in Co-(1 operative in the Nicobar Islands.	ng a)0.059 a) <u>0.282</u>	0.030	0.312	-	-	0.228	0.084		-	-	-	-
L.	Construction of Godowns.	0 <b>.3</b> 00	-	0.300	0.300	-	0.150	0.150	-	-	-	-	
•	Establishment of Credit Unions in Middle and North	0 400		0 400	0.400	_	0.200	0.050	0.050	0.050	0.050		-
<b>\</b>	Andamans.	0.400	-	0.400	0.400		0.200	0.000		••••			
3.	Scheme for Publici and Propaganda on Co-operation.	_ty 0.050		0.050				0.010		,	0.010		
			0,030		0.700		0.747			0.103	0.103		-

1. 1	2. 3.	4.	<u> </u>	<b>1</b> 6.	17.	<u>і</u> 8.	19,	10.	(11.	12.	<u>13.</u>	14.	15.
	Tisheries.					·							
4.	Settlement of Fishermen families	. 2.310	-	2.310	1.900	_	0,462	0.462	0.462	0.462	0.462	_	-
5.	Training of Fishermen.	0.259	-	0.259	_	-	0.052	0.052	0.052	0.052	0.051	-	-
6.	Mechanisation of Fishing Crafts.	0.600	-	0.600	0.313	-	0.120	0.120	0.120	0,120	0.120	_	-
7.	Supply of essentia Fishery requisites	1 . 0.500	-	G <b>.5</b> 00	0 <b>,3</b> 81	<u>م</u>	0.100	0.100	0,100	0.100	0,100		-
B.	Anchorage for Fishing Crafts.	0.300	<b>6</b> M	0.300	0.050	۰.4	0.050	0.150	0.100		-	-	-
9.	Cold Storage and Merketing.	2,266	æ	2,266	1.700	1,500	-	0.500	1.372	0.195	0.199		
0.	Shark Liver Oil and Fish Meal							·	- · ·				
	Factory.	2,000	<b>R-</b> 1	2.000	2,000	<b>1,</b> 500	•	1.000	1.000	-	<b>63</b> 11		-
1.	Establishment of a Dehyaration Unit.	1.266	_	1.266	0.850	0.850	-	0.945	0.105	U.107	0.109	.=	•*
2.	Research Activitie	s 3.697	-	3.697	0,820	~	0.,397	0.955	0.903	0,812	0,630	-	•
3.	Building for the Fisher <b>ic</b> s Head Quarters.	0.834	<u></u>	0.834	0.834	_	0.489	0.345	_			_	
	•	14.032		14.032	8,848	3.850	<u> </u>	4.629	4.214	1,848	1,671		
4.	<u>Community Develop-</u> ment <u>Alegrarme</u> . Establishment of Community Develop-									<b></b>			
	ment Blocks.	36.904		25.020			2.597	3.311	6.037	6.537	6.538	11.8	<u>84 -</u>
	Total Agriculture Production and Community Develop- ment.	678.152	59.964	290.561	173 <b>.3</b> 44	32.850	77.663	57.662	55,927	49.282	50.027	11.	884
ΛM. 3/9.	men 0.			st of <b>Sc</b> he itional i				ird Pl	n				

b) Cost of additional items included in the Third Plan.