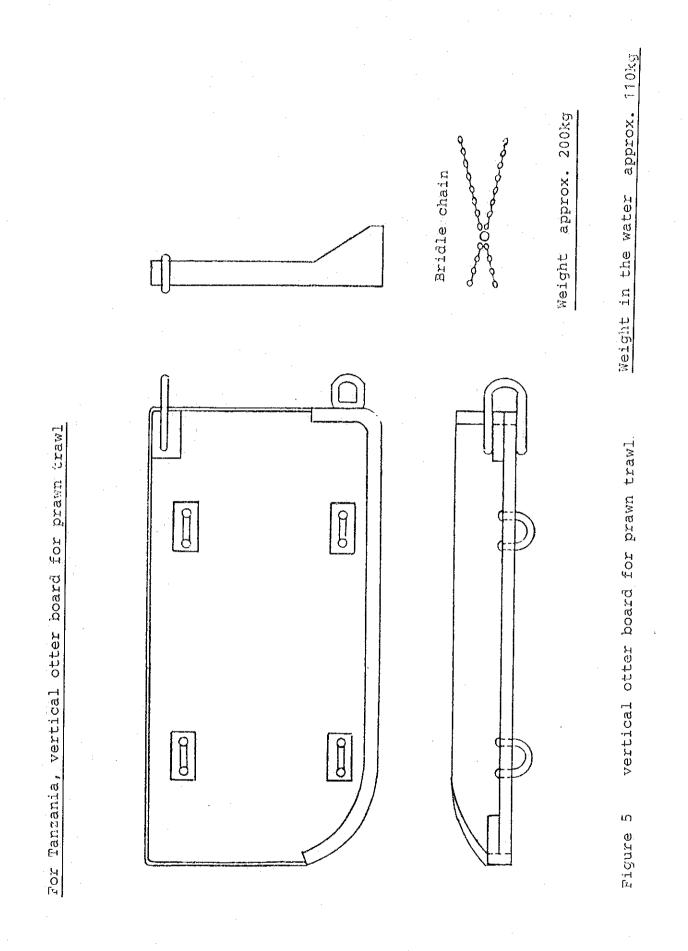
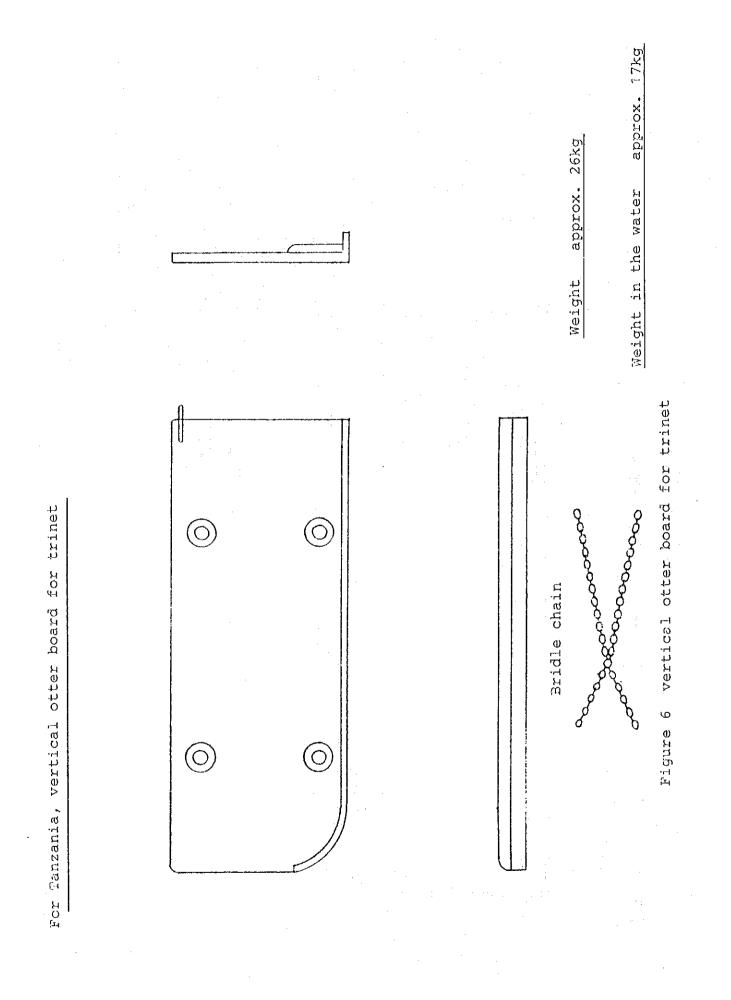


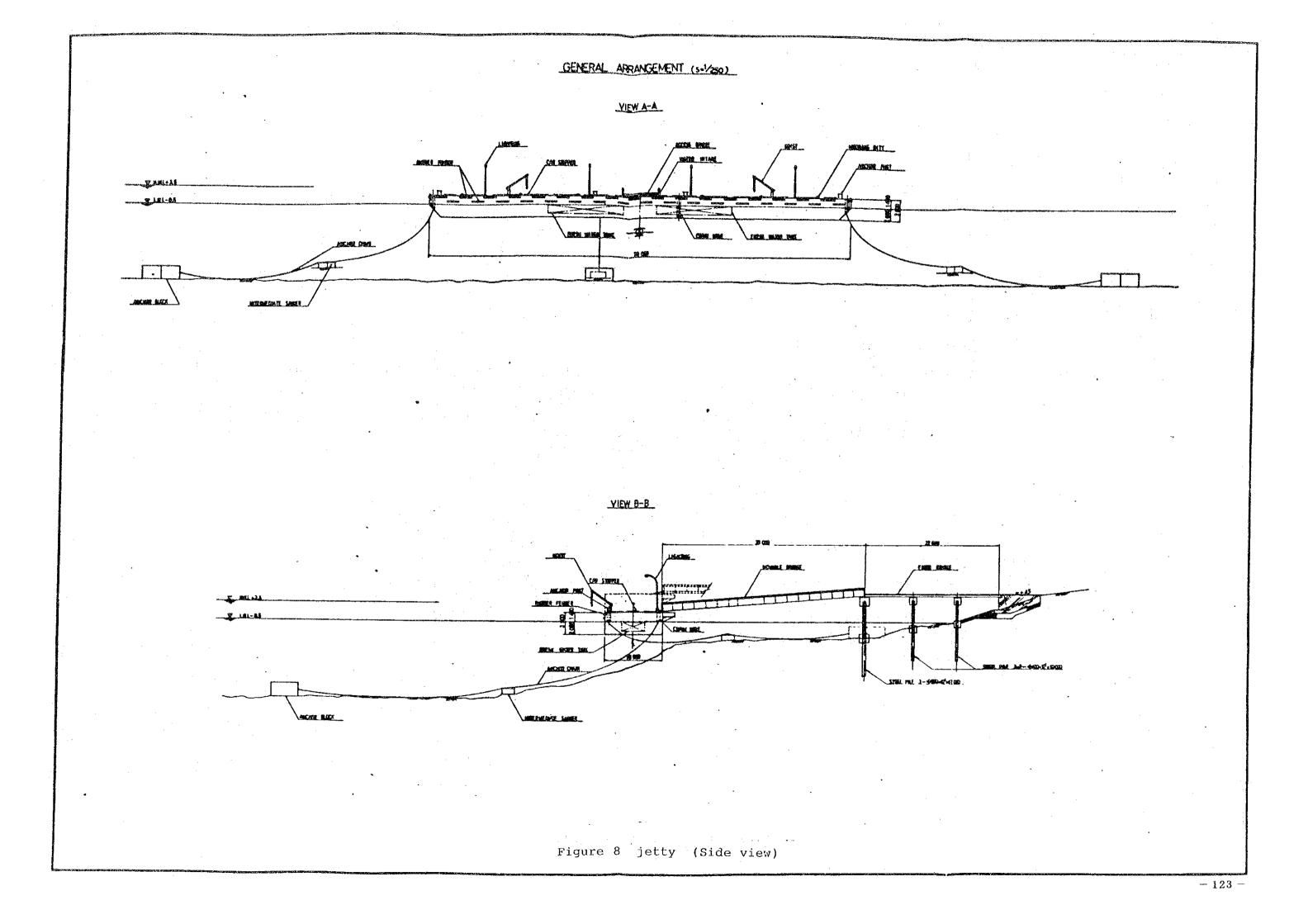
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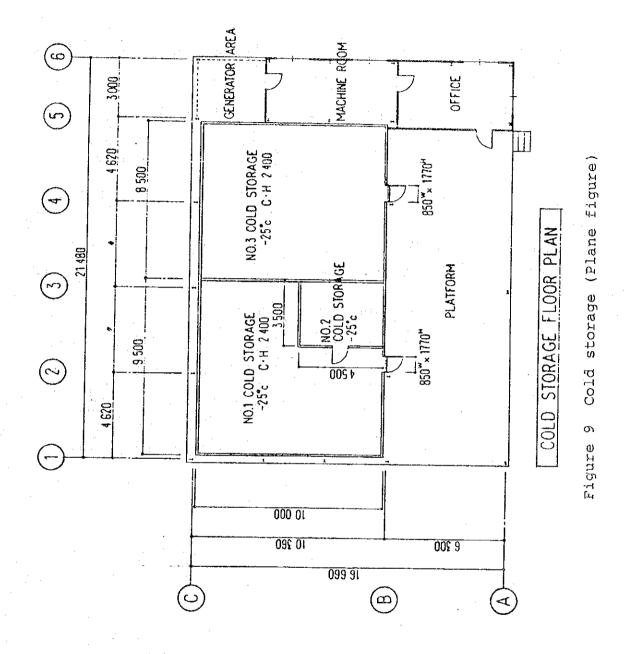


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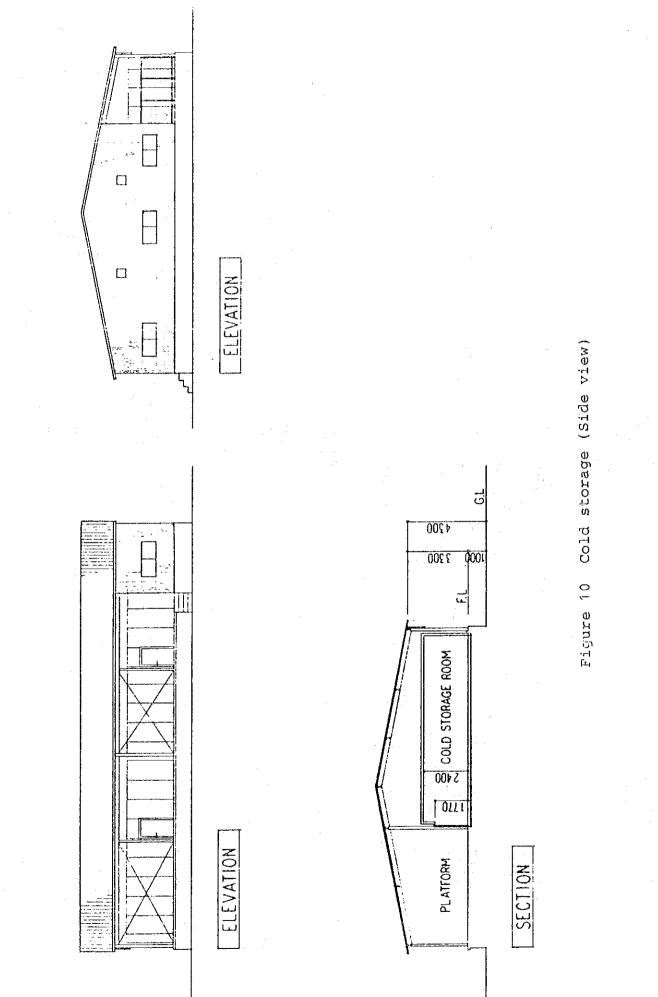


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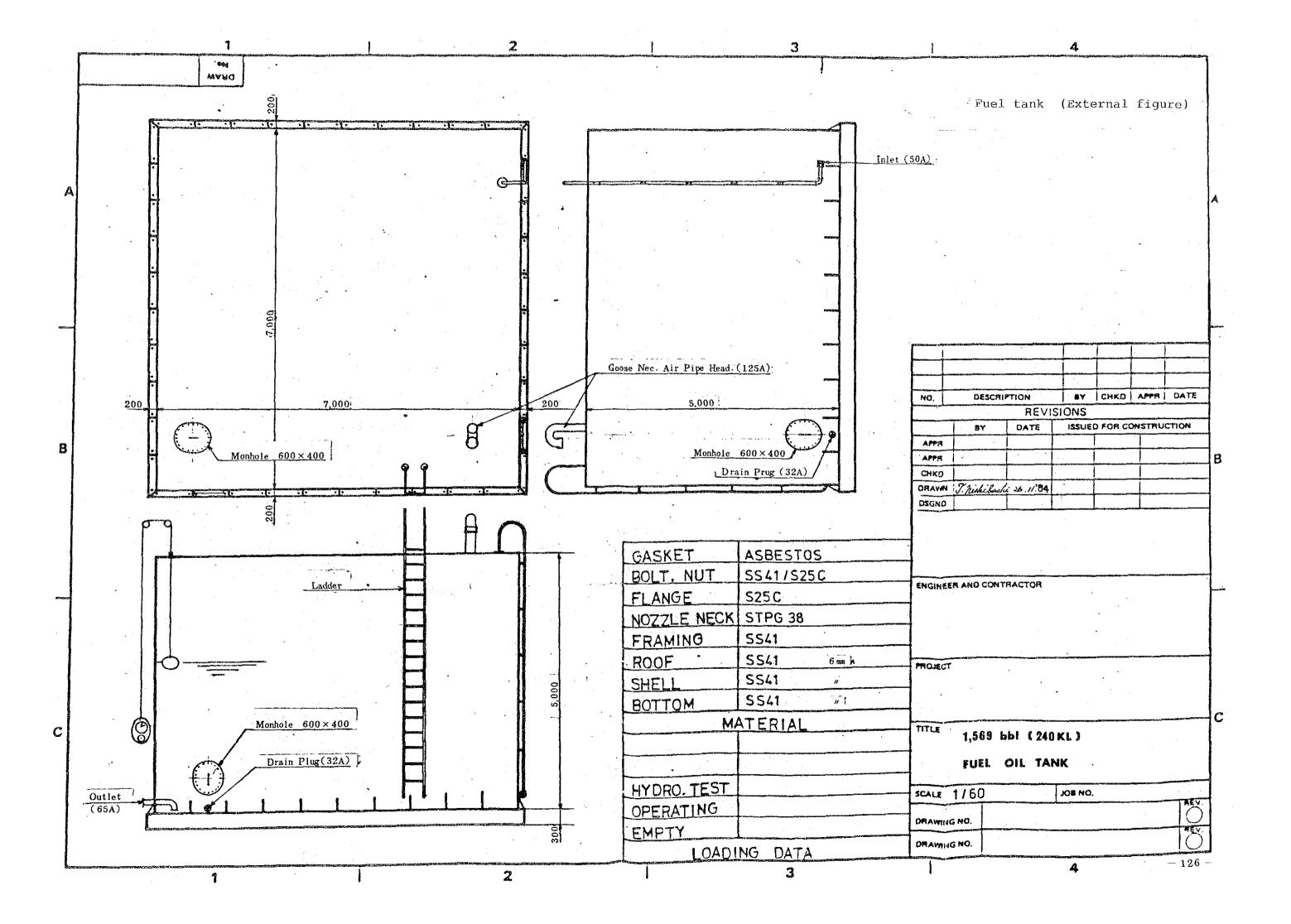




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# CHAPTER 6 PROJECT IMPLEMENTING ORGANIZATION

#### CHAPTER 6 PROJECT IMPLEMENTING ORGANIZATION

#### 6-1 Executor

The negociating body of the Tanzanian side for the Japanese government for this project is the Ministry of Finance. The executing body of the planning and implementation of the development project in the fisheries in Tanzania is the Ministry of Land Natural Resources and Tourism, Fisheries Division. The present project is in charge of the Planning & Marketing Department of the actual TAFICO organization until the completion of furnishing, and it will be transferred to the Fishing Operation Department of the same

The expenses of administration and control of the project will, as a rule, be covered by the income from the sales of prawns and fish effectuated by TAFICO.

The signing body of Tanzania for contracting in relation to the implementation of the project is TAFICO.

#### 6-2 Staff training and assignment

(1) Prawn trawler

At present, TAFICO operates the MAMATAFICO. In this project, the job changing rate of the crew members is quite low. It helped to raise their skill level. As the on-board work is rather the repeating of simple techniques, the skill level of ordinary crew members can be gradually raised when they work continuously. The more important point in training is that for officers; Chief fisherman, navigation officer, and boatswain for the work on the deck; Chief engineer and chief operator for the work of machine.

Since there is no suitable training institution for seamen in Tanzania, there is no way for training but by engaging in the work on-board. As the experts, the captain and the chief engineer, give an on-board training to the Tanzanian counterparts, the training is assured. It is recommendable that the crew members who have the work experience on the MAMATAFICO would embark the new boat.

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Comparative	list of	personnel	assignment	on	prawn	trawlers	

MAMATAFICO	*****	New boat	
Trainer captain (JICA expert)	x1	Trainer captain	x1
Captain	x1	Captain	x1
Trainer chief engineer (JICA expert	) x1	Trainer chief engineer	x1
Chief engineer	x1	Chief engineer	x1
First mate (Japanese)	x1	Boatswain	x1
Other crew members	x15	Chief operator	x1
		Deck hands	x7
		Fireman	<b>x</b> 3
		Steward	x1
Total	20		17

(2) Cold storage

In TAFICO, the cold storages granted from Japan operate. There are Tanzanian freezing mechanicians being engaged in those storages. Since the operation and maintenance techniques of the freezer to be furnished this time are basically the same as those of the above mentioned ones, it is recommended to assign the experienced mechanicians to the new cold storage so that they give an on-the-job training to the newly recruited employees.

These employees shall be assigned exclusively to the operation of the cold storage in three shifts for the continuous operation.

15							Delíverv	run & Deliver		Deliver
14						Gruising		ial	elivery V	Transport
13			,				Site work	Site work	Site work	
12						Delivery	Transport X	Transport	Transport	
11				-		tion	X Tran	1 1		
10						Construction	Construction	Construction	Construction	
6							Const		Cons	Acquisition
. 8						c	×	*	*	Acqu 15
2	zation		act			Design	Design	Design	Design	Design X
9	Author		Contract	bu i	O	8	8	8	8	8
2			val	Tendering	Tendering					
4			Approval	0						
6	•		t t	on design						
2	ization	ization		Executio						
1	Authorization A Q	Authorization O O	Consultant contr	0						
0	EN		ပိ							
Item Month	Japanese Government	Tanzanian Government	TAFICO	Consultant	Contractor	Construction of double rigger	Construction of jetty	Construction of cold storage	Construction of fuel tank	Aqquísition of materials and equipment

6 - 3. GENERAL SCHEDULE

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6-4 Maintenace and administration plan

6-4-1 Double rigger type prawn trawler

(1) Annual operation plan

The annual operation plan of the new boat will be as follows. The maintenance and administration costs are alculated according to this plan.

266
20
79
365
127,170
93,960
221,130

#### Annual operation plan

(2) Maintenance and administration costs

(1) Prawn resource royality

Income from prawn exports 10,809,000T.Shs x 7.5% = 811,000T.Shs

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#### ② Material costs

A. Fuel cost

Item		Standard consumption (K1) per month	Total
Operating days	266	1.6 k1	425.6 kl
Navigating days	20	2.1 kl	42.0 kl
Lay days	54	0.2 kl	10.8 kl
Dock days	25		
Total	365		478.4 kl

Present fuel price 7,500 T.Shs/kl

7,500 T.Shs x 478.4 kl =

Lubricating oil ( 1% of fuel consumption)

478.4 kl x 0.01 = 4,784 l. consumption per year

7.5 T.Shs x 4,784 l x 3.5 = 125,580 T.Shs (L.O. prices are three times of F.O prices)

Fuel cost Total 3,713,580 T.Shs

3,588,000 T.Shs

B. Packing material cost

This material costs are for the prawn production. As the fish is frozen in bulk and sold as it is, no cost is necessary.

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Inner carton 1 Kg 12 US\$

) 30 US\$ = 5.1 T.Shs/kg

Master carton 1 Kg 18 US\$

127.170 kg (Annual prawn production) x 5.1 T.Shs = 648,567 T.Shs

C. Labor cost

(a) Fixed wages Tanzanians 17 2,000 T.Shs/Month x 12 month = 408,000 T.Shs Legislated insurance (11.5%) 46,920 Welfare cost 40,000 Total 494,920

(b) Expenses for food

35,000 T.Shs/ Month x 12 month = 420,000T.Shs

(c) Incentive pay

The present incentive pay system for percentage pay of TAFICO is based on the minimum planned catch per an operation day of fish and prawns, 300kg for each, and for catches exceeding this rate, 15 T.Shs for 1kg prawns and 3 T.Shs for 1kg fish are paid as total incentives, which is distributed on the basis of job category rate.

When that is counted on the basis of the catch plan:

Sum	of	incentive	pay	for	prawns	692,550	T.Shs	
Sum	of	incentive	pay	for	fish	38,880	T.Shs	
		ŗ	latal	L		731,430	) T.Shs	

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D. Costs for repair, insurance and storing

(a) Repairing cost

The repairing cost is calculated according to the table below (Unit: 1,000 T.Shs)

	r	· • · · · · · · · · · · · · · · · · · ·		······································			•	
Aging years	1	2	3	4	5	6	7	8
Repairing fee	350	455	385	700	420	525	455	770
Parts cost		1.		350	210	263	228	385
Total	350	455	385	1,050	630	788	683	1,155
		L	l	1	1			

These figures are obtained by referring to the results of the double rigger type trawler, which is actually engaged in the operation for prawns.

(b) Insurance

Insurance for boat body (1.5% of value to be insured) 17,346,900 T.Shs x 0.015 = 260,000 T.Shs

Insurance for products (5% of sales of products) = 705,000 T.Shs

> = 965,000 T.Shs Tota1

(c) Storing charges (Products will be stored in the cold storage of TAFICO.)

These are the charges incidental to the products unloading from the boat entrance to the port and the storaging in the cold storage to be furnished in the present project. The charges to be paid were calculated from the actual results of costs of the existing cold storage of TAFICO.

Frozen fish (bulk)

2 T.Shs/kg x 1 month (Storaging period) x 94t = 188,000T.Shs

Prawn (carton)

2 T.Shs/kg x 2 month (Storaging period) x127t = 508,000T.Shs

Tota1 = 696,000T.Shs

E. Section cost

15% of costs of production

F. Administration cost of TAFICO head office

18% of costs of production

G. Depreciation expense

- (a) Boat body (unit price of boat) x 8 years (0.250) =
  17.607,000 T.shs x 0.250 = 4,402,000 T.shs
- (b) Fishing net, fishing gear

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The annual costs of the use of trawling net, other board, wire and rope will be estimated on the basis of the budget of the MAMATAFICO, 150,000 T.Shs. However, in case of a new boat, the operation rate is higher than that of the MAMATAFICO. Taking this into consideration, the costs are estimated as follows:

627.6 T.Shs (Exhaustion per an operation day)x 270 days = 169,200 T.Shs

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## H. Maintenance and administration cost

## (unit 1,000 T.Shs)

İtem	lst ' year	2nd year	3rd year	4th year	5th year	6th year	7th year	8th year
Production	J 0 0.2							
costs							:	
Royality	811	811	811	811	811	811	811	811
					1			
Material costs		· · ·						
Fuel oil	3,714	3,714	3,714	3,714	3,714	3,714	3,714	3,714
Packing ma-								
terial	649	649	649	649	649	649	649	649
Sub total	4,363	4,363	4,363	4,363	4,363	4,363	4,363	4,363
Labor cost								
Fixed wages	495	495	495	495	495	495	495	495
Food	420	420	420	420	420	420	420	420
Incentive	731	731	731	731	731	731	731	731
Sub total	1,646	1,646	1,646	1,646	1,646	1,646	1,646	1,646
Expense								
Repairing	350	455	385	1,050	630	788	683	1,155
Insurance	965	965	965	965	879	879	879	879
Storage	696	696	696	696	696	696	696	696
Sub total	2,011	2,116	2,046	2,711	2,205	2,363	2,258	2,730
				۰.				

Production								
cost total	8,831	8,936	8,866	9,531	9,025	9,183	9,078	9,550
Section	,	ı						
cost	1,325	1,340	1,330	1,330	1,330	1,330	1,330	1,33
Administra- tion expenses	1,590	1,608	1,596	1,596	1,596	1,596	1,596	1,59
Maintenance and administ ration cost	11,746	11,884	11,792	12,457	11,951	12,109	12,004	12,47
Total			- 					

Depreciation		<u> </u>		<u> </u>	<u> </u>			
	:		н. 					
Boat	4,402	3,301	2,476	1,857	1,393	1.045	783	588
Fishing gears	169	169	169	169	169	169	169	169
Sub total	4,571	3,470	2,645	2,026	1,562	1,214	952	757
Total cost	16,317	15,354	14,437	14,483	13,513	13,323	12,956	13,233

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#### 6-4-2 Cold storage

The operation costs of the cold storage are to be, basically, estimated for storaging the frozen products from both MAMATAFICO and the new boat.

If there are some opportunities to store frozen products of other companies after the start of operation, they will form a new source of income.

(1) Maintenance and administration cost

(1) Expenses for emergency electric generator

 Fuel oil.....1,140L/year x
 7.5T.Shs = 8,550 T.Shs

 Lubricating oil....
 .83L/year x
 22.5T.Shs = 1,887 T.Shs

 Total
 10,437 T.Shs

(2) Electric power

Amount of electric power used for freezer

472 KWH/day x 365 days = 172,280 KWH172,280 KWH x 1 T.Shs = 172,280 T.Shs

(3) Labor cost of freezer operation staff

2,000 T.Shs/month x 3 persons = 6,000 T.Shs

x 12 month = 72,000

Welfare cost		•		16,000
	:		Total	88,000 T.Shs

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#### (4) Repairing cost

From the second year, the following maintenance costs and parts costs will be reckoned.

(Unit: 1,000 T.Shs)

······································									
1st year	2nd year	3rd year	4th year	5th year	6th year	7th year	8th year		
0	10	30	50	53	56	59	100		

(5) Insurance premium (1.5% of value to be insured)

11,102,000 T.Shs x 0.015 = 167,000 T.Shs

6 0il for freezer....365 1/year x 26 T.Shs = 9,490

#### (2) Maintenance and administration cost

		Unit 1,000 T.shs						
Item	1stY	2ndY	3rdY	4thY	5thY	6thY	7thY	8thY
Productioncost '.				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		<b>, -9,48,-9</b> , 10,9, 10,9,1,1,1,1	5	
Material cost								
Fuel	10	10	10	10	10	10	10	10
Electricity	172	172	172	172	172	172	172	172
Subtotal	182	182	182	182	182	182	182	182
Labor cost								
Fixed wage	88	88	88	88	88	88	88	88
Expenses			· · ·			· .		
Repairing	-	10	30	50	53	56	59	100
Insurance	167	158	150	143	136	129	122	116
	•							:
Others	10	10	10	10	10	10	10	10
Subtotal	177	178	190	203	199	195	191	226
								<u> </u>
Production cost total	447	448	460	473	469	465	461	496
Section cost	67	67	69	69	69	69	69	69
Administration cost	80	81	83	83	83	83	83	83
						;		
Total maintenance	594	596	612	625	621	617	613	648
and administration								
cost								

Depreciation	1028	916	816	727	648	577	514	458
Total cost	1622	1512	1428	1352	1269	1194	1127	1106

Note 1 Department cost: 15% of the costs of production

2 TAFICO's administration cost : 18% of the costs of production

3 Depreciation expenses are diminishing rate of 20 years.

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#### 6-4-3 Jetty

- (1) Maintenance and administration
  - (1) The jetty requires almost no maintenance on the ordinary use. In the event that the coating of movable bridge is separated by any reason, it is repairable by ordinary work. Also it requires no periodical repair.

② Water supply pump

As there will be installed two pumps, one for spare, when the operating condition is bad, the pump to operate will be changed. An overhaul every year is required, unless there will be no particular trouble.

(3) Water tank in jetty

Water quality shall always be controlled by regular checking. Inner cleaning after water drain is required two time a year.

(4) Illuminating facilities

Lamps shall be replaced when consumed.

(2) Maintenance and administration costs

26,000 T.Shs/year will be needed for repair of the coating of movable bridge and parts change of water supply pump, piping and lamps and for water tank cleaning.

#### 6-4-4 Fuel oil tank

(1) Maintenance personnel

The maintinance and administration is handled by person assigned to the TAFICO's cold storage and ice plant on 24 hours personnel assignment.

(2) Maintenance

Maintenance plan is as follows:

.

<ul> <li>A second sec second second sec</li></ul>	
Daily inspection	1. Measurement of capacity of fuel oil
	2. Checking of fuel oil piping
	3. External checking of fuel oil tank
	4. Amount of fuel oil consumption
Weekly inspection	1. Fuel oil tank draining
Monthly inspection	1. Fuel oil tank draining
	2. Cleaning of fuel oil strainer
Annual inspection	1. Repairing of rusted parts of piping and
	fuel oil tank

### (3) Maintenance and administration costs

Maintenance and administration costs are estimated as follows:

1 Painting

One chipping on rusted part and overall outside painting are required every 4 years.

Painting	47,000 T.SH
Chipping	10,000 T.SH
Scaffolding	14,000 T.SH

Total 71,000 T.SH

2 Pipe repairing

Incidental costs are already calculated in the maintenance and administration costs of jetty

## 6-4-5. Total maintenance and administration cost

Item	Total	New boat	Cold storage	Jetty	Fuel oil tank	Materia for FRP. boa
Production cost Prawn resource royality	811	811		Page.	-	• •
Material cost					1. P.	1
Fuel oil	3,734	3,714	20	-	· · _	
Electricity	172	-	172	-		-
Packing material	649	649		· • •	-	
Subtotal	4,555	4,363	192		_	-
Labor expenses			:			
Fixed wages	583	495	88	-	· -	-
Food	4 2 0	420	-	-	-	
Incentive	731	731		, i <b>-</b>	-	-
Subtotal	1,734	1,646	88			-
Expenses						
Repairing	376	350	-	26	· · · · ·	-
Insurance	1,1 3 2	965	167	. <b>.</b> .	-	-
Storage	696	696		-		-
Subtotal	2.2 0 4	2.011	167	26	-	
Total production cost	9,3.0 4	8,831	447	26	-	-
Section cost	1,3 9 2	1,3 2 5	67	. <b></b>	-	
Administration						[
çost	1,670	1,590	80			
Total administ- ration and main- tenance cost	1 2,3 6 6	1 1,7 4 6	594	26	-	-

Table 10 Total maintenance and administration cost

## CHAPTER

#### EVALUATION OF BUSINESS 7

# CHAPTER 7 EVALUATION OF BUSINESS

This chapter is to evaluate and examine the effects of the present aid to the business of TAFICO and the Tanzanian economy.

### 7-1 Examination on TAFICO's management

First, it is necessary to examine whether or not the present project can be performed without exerting the financial pressure upon TAFICO. The preconditions for the execution of this project are:

The catch planned by this project shall be assured. The quality and maintenance controls shall thoroughly be made. TAFICO will make every effort to improve its management.

The following analysis was made basing on the figures given in the financial statements of TAFICO and by using the accounting method actually used in TAFICO

#### 7-1-1 Prawn trawler

#### (1) Sales

The new boat will operate mainly for prawns. Prawn products are generally valued depending on their kind and size. However, the selling unit price of products of the MAMATAFICO is here used. The same price is used for frozen fish.

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Kind of fish '	Planned catch (kg)	Average prece (T.Shb)	Sales (T.Shs)
Prawn	127,170	85/kg	10,809,450
Fish	93,960	35/kg	3,288,600
Total	221,130		,14,098,050

Table 11 Calculation of sales

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## (2) Prospect of profit and loss

The estimated profit and loss of the new boat is as follows:

						(1	Init:100	0 T. sh
Item	1st Y	2nd Y	3rd Y	4th Y	5th Y	6th Y	7th Y	8th Y
Sales	14,100	14,100	14,100	14,100	14,100	14,100	14.100	14,100
Production cost	8.831	8.936	8,866	9.531	9,025	9,183	9.078	9,550
Section cost	1.325	1,340	1,330	1,330	1,330	1.330	1.330	1,330
Administration cost	1.590	1,608	1,596	1,596	1,596	1,596	1,596	1,596
P/L before depreciation	2,354	2,216	2,308	1.643	2,149	1.991	2.09,6	1.624

Table 12 Estimated transition of profit and loss of new boat

As indicated above, the expense will never exceed the income.

Although the new boat requires no depreciation because it is granted, the following profit and loss after depreciation is given for information.

	1st Y	2nd Y	3rd Y	4th Y	5th Y	6th Y	7th Y	8th Y
Depreciation cost	4571	3470	2645	2026	1562	1214	952	757
Profit and loss						:		
after depreciation	-2217	-1254	-337	-383	587	777	1144	867

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7-1-2 Cold storage

(1) Sales

The sales o'f cold storage consists of a revenue from storing frozen products of MAMATAFICO and the new boat.

(2) The estimated profit and loss of the cold storage is as follows:

Table 13 Transition of profit and loss of cold storage Unit: 1000 T. shs

Item	lst Y	2nd Y	3rd Y	4th Y	5th Y	6th Y	7th Y	8th Y
Sales	1.382	1.382	1,3 8 2	1,3 8 2	1,3 8 2	1,3 8 2	1,3 8 2	1,382
Production	447	448	460	473	469	465	461	496
Section cost	67	67	6 9	69	69	6.9	69	69
Administration cost	80	81	83	83	83	83	83	83
P/L before depreciation	788	786	770	757	761	765	769	734

As indicated above, the expense will never exceed the income. Although the cold storage requires no depreciation because it is granted, the following profit and loss after depreciation may be teckoned only for information.

Item	lst Y	2nd Y	3rd Y	4th Y	5th Y	6th Y	7th Y	8th Y
Depreciation	1,028	916	816	727	648	577	514	458
Profit and loss	-240	-130	-46	30	113	188	255	276
after depreciation								

In this project, the business evaluation is made by considering only the storing of products of TAFICO's boats. If in the future the products of other companies are stored, the business will be improved.

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#### 7-1-3 Jetty, tank, etc.

(1) Jetty, tank

The jetty and the tank are a part of the consolidation project of the TAFICO Kigamboni fishing base. These facilities require almost no maintenance cost. Therfore, these facilities will bring about only the merits to assure a smooth operation of boats through completion of the base.

(2) Materials, equipments and tools

The present supply of materials, equipments and tools is for the rehabilitation of FRP boats, which have been granted from Japan and actually moored due to the lack of parts and tools. The realization of this aid will increase the TAFICO's boats operation and activate the existing projects of Tanzania.

7-1-4 Cash flow

The cash flow table was made from the profit and loss table of business. (Annex 1-7) This table shows the transition of the revenue from sale and the expenditures for the business, such as production costs, section cost and administration cost.

The business is based on two prawn trawlers, small fishing boats, cold storages and purchasing. This table shows that some cash remains at every year end. It means that no loan will be necessary for operation and self-management will be possible.

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			Unit:	1000 T, sha
Item	84/85	85/86	86/87	87/88
(income)	· .			
Sales	30,105	38,496	46,682	4 6,6 8 2
(Expense)				
Production cost	1 8,475	23781	29,168	2 9, 2 6 1
Section cost	4,619	4,526	4,374	4,389
Administration cos	5,542	5,620	5,250	5,267
Total expenses	28,636	3 3,9 2 7	38792	3 8,9 1 7
Net cash	1,469	4,569	7,890	7,765
Accumulated				
cash	1,469	6,038	13,928	2 1,6 9 3

Table 14 Transition of cash flow

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### 7-1-5 TAFICO's foreign currency accounts

The foreign currency that can be obtained by the exportation of prawns produced by the TAFICO and the new prawn trawler was calculated. In addition, the foreign currency to which the TAFICO has access through the special authorization by the Tanzanian government in the fiscal year 1983/84 was counted.

Table 15 TAFICO's total revenue in foreign currency

The total revenue in foreign currency by the exportation of prawns produced by both boats is the following:

(Unit: 1000 T. shs)

Name of boat	84/85	85/86	86/87	87/88
MAMATAFICO	570	600	620	620
New boat		320	635	635
Total	570	920	1,255	1,255

Among the total revenue of TAFICO in foreign currency, that TAFICO has access to is as follows:

Table 16 Foreign currency available for TAFICO

(Unit: 1000 T. shs)

Item	83/84	84/85	85/86	86/87	87/88
Utilization %		105	15%	15\$	15≉
US\$	50,000	57,000	138,000	188,250	188,250
1000 T. shs	850	969	2,346	3,200	3,200
Total 1000 T. shs	850	1,819	4,165	7,365	10,565

(Note) Exchange rate is 17 T.shs to 1 US\$.

#### 7-2 Assessment of Tanzania's economical aspects

In case of the execution of the present grant aid the study of the effect on Tanzania's economy and society is made here.

(1) Acquisition of foreign currency by means of export of prawn products

As described in table 15, participation of the new boat in operation will double the TAFICO's foreign currency revenue, amounting to 1,255,000 US\$ (86/87).

(2) Supply of fish to the people as protein

As described in table 6 and 11, it will be doubled amounting to approx. 181 tons per year.

(3) Fishery promotion

At present, only TAFICO is performing the industriel fishery. The improvement in TAFICO's business record will help promoting the industriel fishery of this country. As a result, if the Tanzania's government, or a corporation, or an individual sets about the industrial fishery, the increase of the employment opportunity looks very promising.

As stated above, the execution of the present grant aid and efforts to activate further the TAFICO's existing fishing boats and other production sections will stabilize the TAFICO's business operation as well as contribute greatly to the development and promotion of Tanzania's marine fishery.

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# CHAPTER 8 CONCLUSION AND SUGGESTION

### (1) Conclusion

TAFICO's prawn trawl fishery project was planned on the basis of the increase of the fish production and the expansion of fish consumption which are the policy of the Tanzanian fishery promotion project, and the increase of foreign currency by means of export promotion. However, due to the insufficient supply of the spare parts caused by the lack of foreign currency in Tanzania, the trawl fishing boats constructed with the country's own capital and the cooperation from foreign countries are not in full operation. Among these boats the MAMATAFICO constructed in 1982 with the grant aid from Japanese government, has shown an exceptionally good record, being the essential support in the TAFICO's business. Under such circumstances in line with the TAFICO's plan, the basic design survey was conducted on a prawn trawl boat as well as a jetty, a cold storage, tanks, and materials and equipments in the Kigamboni base.

In the beggining, Tanzania requested two double rigger prawn trawl fishing boats, As a result of the basic survey, from view point of prawn resource two new boats can operate without damaging M.S.Y. However, there are some problems about servicing, maintenance and personnel in case of two new boats (three boats including the MAMATAFICO). Consequently, one boat was provided this time.

As a result of the field survey, the prawn resource along the Tanzanian coast was estimated at approx. 1,800 tons, and the M.S.Y. approx. 730 tons. Since the annual catch of the MAMATAFICO is 168 tons, there is no problem regarding the resource with the engagementy of a new trawl boat in operation. The crew members of the MAMATAFICO stick to the job and the operation is going smoothly under the guidance of the experts sent from Japan. On the other hand, 10 tons/day ice making machine constructed with the grant aid from Japanese government is operated well

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by the Tanzanian engineers. Taking all these points into consideration there will be seemingly no personnel and technical problems on the TAFICO's operation of the presently requested prawn trawl fishing boat and cold storage. In the present survey the business analysis of TAFICO, the executing department of the project, was performed. With the engagement of the MAMATAFICO in the operation in the fiscal 1983/84, for the first time the profit of 77,000 T.Shs. (the loss of 5,801,000 T.Shs. in the profit and loss after the depreciation) was reckoned up as current profit before reckoning the TAFICO's administration expenses. With the engagement of the new boat in the operation the profit of 7,890,000 T.Shs. will be expected in the profit and loss before the depreciation of the fiscal 1986/87. For this reason, TAFICO will be financially stable.

TAFICO's production means were week compared to the non-production means in the past. TAFICO's business conditons have been improving since the MAMATAFICO started the operation in 1982 and the separation of the boatbuilding section, the most unprofitable, from TAFICO was determined. There will be no problem in a administration and practice providing a prawn trawler is added, the Kigamboni fishing base belonging to TAFICO has increased, and 15% of the total export of prawn produced by TAFICO is transferred to the TAFICO's foreign currency accounts so that the spare parts, etc. are purchased directly.

The prawns are international commodities. This project will increase the foreign currency revenue by doubling the products and exports of prawn and will decrease the number of moored boats due to the insufficient spare parts, which is the biggest problem of TAFICO. More fish caught along with prawns will increase the supply of animal protein to the Tanzanian people. As described above, it is obvious that this project contributes greatly not only to TAFICO but to Tanzania's fishery. The grant aid from the Japanese government is extremely significant. Therefore, it is to be desired that this project should be carried out as early as possible.

#### (2) Suggestion

In order to execute this plan with efficiency, Japan requests the following considerations from the Tanzania government and TAFICO.

1) At present only the MAMATAFICO is operating for prawns.

For this reason, there has been no operation record in the two best prawn fishing grounds on the coast of Tanzania at the same time, nothern fishing ground of Bagamoyo and southern fishing ground of Rufiji.

Since the operation of the two boats in the same period will tell which of these two fishing grounds is better it is easy to heighten the operational efficiency. Therefore, it is advisable that TAFICO should establish the system which heightens the operational efficiency of the two boats by keeping touch with them to control them, grasp the fishing conditions and direct the operation.

- 2) It is necessary to control the fishing boats, a cold storage, an ice machine, a jetty, tanks belonging to TAFICO and to establish the total administration system including repair, parts control, shipment of the products, sales as well as to train the personnel for management in its early stages.
- 3) It is quite understandable that TAFICO wants to have its own slipway and workshop, but there are problems in practice in terms of cost and techniques. It is more practical to request Port Authority in Dar es Salaam or a naval dockyard to make big repairs and to execute small repairs by TAFICO itself.
- 4) It is a big problem that 8 boats out of 16 are now on anchor. In order to stabilize the TAFICO's operation the consolidation of production means is urgently needed. It is necessary to secure the parts and equipments through the repartition of foreign currency and budgetary measure in order to return those ships to the operation.

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- 5) It is desirable that the quick steps should be taken by preparing the inventory of fixed assets and articles in demand as well as by controlling the amount of consumption and the total stock of materials, equipments, spare parts, etc.
- 6) It is essential to study measures and carry them out to conduce water to the Kigamboni fishing base, lay oil pipe lines as well as to transport the products, materials and equipments in case of the suspension of ferryboat services.

DOCUMENTS ANNEXES

# Attached list 1-1

In response to the request made by the Government of the United Republic of Tanzania for the fishery development project (hereinafter referred to as "the Project"), the Government of Japan has sent through the Japan International Cooperation Agency (hereinafter referred to as "JICA"), a Team headed by Mr. Noriharu Nakamura to conduct a basic design study for 21 days from August 15, 1984. The team carried out a field survey, had a series of discussions and exchanged views with the authorities concerned.

As the result of the study and discussions, both parties have agreed to recommend to their Governments to examine the results of the survey attached hereto towards the realisation of the Project.

MORIHARU NAKAMURA TEAM LEADER THE JAPANESE SURVEY TEAM

R. A. MROPE GENERAL MANAGER TANZANIA FISHERIES CORPORATION

#### MINUTES

- 1. The Objectives of the Project are to supply animal protein for people, to obtain foreign currencies and to increase opportunities of employment through the exploitation of shrimp and fish:
- 2. The Project site is RAS MKWAVI which is allocated to the Tanzania Fisheries Corporation (hereinafter referred to as "TAFICC") for the fishing base by the Government of the United Republic of Tanzania, as shown in Annex I.
- 3. The Ministry of Lands, Natural Resources and Tourism is responsible for the administration of the Project, and the TAPICO is the executing agency of the Project.
- 4. The Japanese Survey Team will convey to the Government of Japan the desire of the Government of The United Republic of Tanzania that the former takes necessary measures to cooperate in implementing the Project and the latter with the items listed in Annex II within the scope of Japanese economic cooperation in grant aid assistance.
- 5. The Government of the United Republic of Tanzania will take the necessary measures listed in Annex III on condition that the grant aid assistance by the Government of Japan is extended to the Project.
- 6. Both sides confirmed that the Japanese Survey Team explained the Japanese Grant Aid Programme and Tanzanian side understood it.

NA

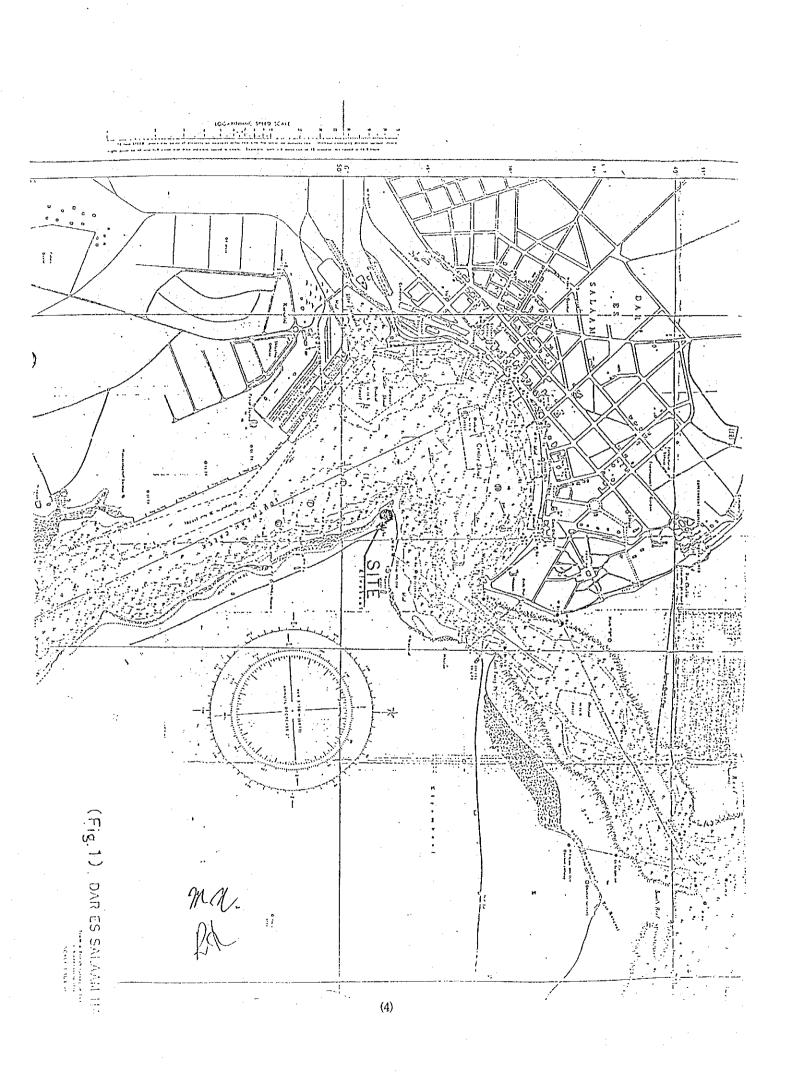
# ANNEX I

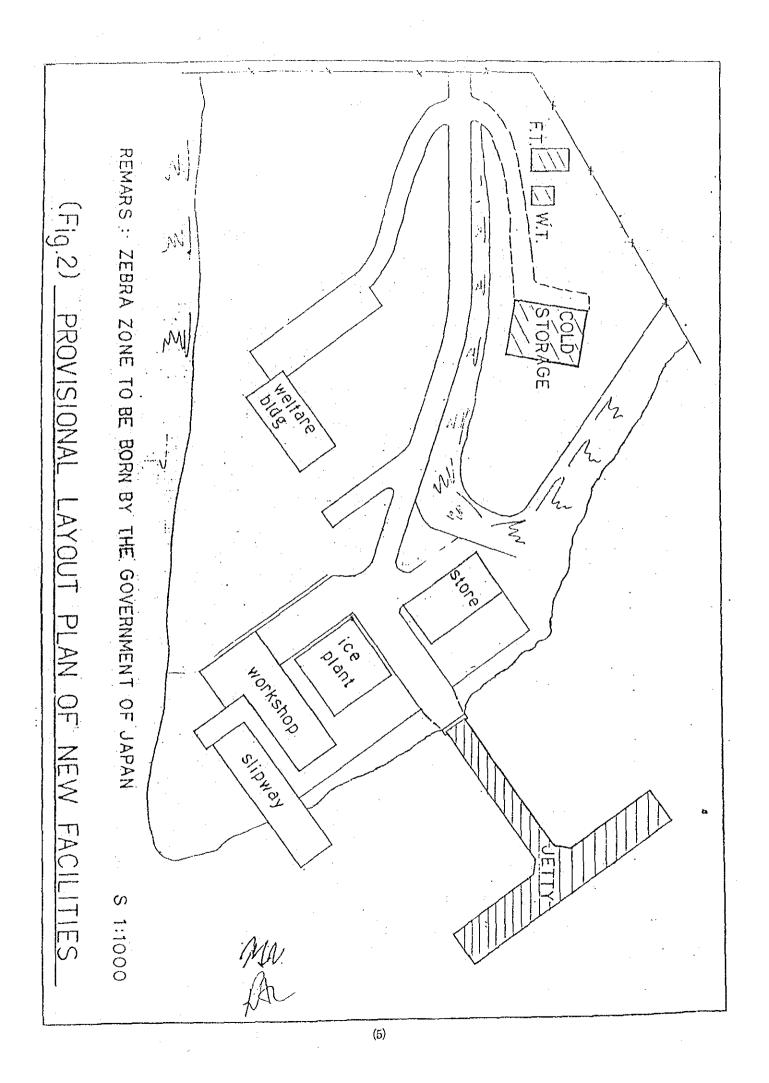
# Location of the Site (Fig 1.)

Provisional Layout Plan of New Facilities (Fig 2.)

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(3)





## ANNEX II

Items are requested in order of priority by the Gavernment of the United Republic of Tanzania and the cost of which will be borne by the Government of Japan within the limitation of the budget of the Government of Japan and the scheme of Japanese Grant Aid Assistance.

1. Double rigged trawler,

2. Jetty with fuel and freshwater storage tanks,

3. Cold storage with emergency generator,

4. Spare parts for urgent repairs for existing boats granted by the Government of Japan,

5. Materials for Payaos.

NM

Items to be undertaken by the Government of the United Republic of Tanzania are as follows:

- 1. To provide data and information necessary for the design and survey of the Project,
- 2. To secure a suitable land for the construction of a Jetty and a cold storage,
- 3. To clear and level the Project site prior to construction,
- 4. To provide the necessary paved roads to access the cold storage and the abutment of the Jetty,
- 5. To ensure prompt unloading and customs clearance for the Project in the United Republic of Tanzania,
- 6. To exempt the Japanese Nationals concerned from custom duties, internal taxes and the supply of the products and services for the Project from fiscal levies in the United Republic of Tanzania,
- 7. To provide the necessary permissions, licences and other authorizations necessary for carrying out the Project,
- 8. To bear all expenses necessary for the execution of the Project other than those to be borne by the Japanese Grant Aid Assistance,
- 9. To provide necessary street lights and wiring to lead to the cold storage and Jetty,
- 10. To provide city water supply pipings to connect the fresh water storage tank,
- 11. To maintain and use the facilities, equipment and materials (755) properly with due diligence.

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/SH.

# Attached list 1-2 Member list

Responsible for	Name	Position
General direction	Noriharu NAKAMURA	Chief Fisherboat
		Inspector, Fisherboat
		Section, Oceanic
		Fisheries Department,
		Fisheries Agency,
		Ministry of Agriculture,
		Forestry and Fisheries
Project, control	Hiroaki OKUBO	Japan International
		Cooperation Agency
		( JICA )
Fishery development	Kazuo NAKATA	Nichiro Gyogyo
project ( general )		Kaisha, Ltd.
Hull design,	Tsuyoshi KANNO	Nichiro Gyogyo
freezing and		Kaisha, Ltd.
cold storaging		
installations		
Jetty	Tokio YAKUWA	Nichiro Gyogyo
		Kaisha, Ltd.
Management analysis	Mamoru TANAKA	Nichiro Gyogyo
	an a	Kaisha, Ltd.

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# Appendix 1-3 SCHEDULE OF BASIC STUDY

ω

Date				Work			
Aug.	15	1984		Departure from Japan to Tanzania			
	18			Arrival at Dar es Salaam, Tanzania			
	19			Study team meeting			
	20	•		Meeting with JICA Das es Salaam office			
				Courtesy call to Ministry of Finance, Ministry of			
			1	Lands, Natural Resources and Tourism,			
				Fisheries Direction, and Japanese Embassy			
	21			O Meeting with TAFICO people on the present			
				condition of TAFICO and the contents of the			
				request of this time			
				O Field survey of the objectives of the aids in			
				in 1980 and 1982			
				O Field survey on Kigamboni fishing base (afternoon)			
				It is constructed by TAFICO and is the planned			
				site of the present project			
	22			O Survey on Kigamboni fishing base (topographycal			
p e t				survey, soil survey and water depth survey)			
	-23			O Survey on Kigamboni fishing base			
	- 5		[	O Field survey of the MAMATAFICO			
				O Business analysis of TAFICO			
	24			0 Discussion on the contents of the request in			
				TAFICO office			
			}	O Field survey on Kigamboni fishing base			
·				O Business analysis of TAFICO			
	25			O Field survey on Kigamboni fishing base			
	2)			0 Business analysis of TAFICO			
	26			0 Meeting in study team			
	27			O Discussion with TAFICO people			
	۲ ک			O Business analysis of TAFICO			
				Wi shart fishing hogo			
	60						
	28		}	O Signature of MINUTES			
				O Field survey on Kigamboni fishing base			

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O Visit to concerned offices and people 59 for reporting the results of study and for , courtesy call 30 O Government officials among team members left Das es Salaam to Japan 31 O Members from Consultant continued the survey Sep. 1 0 4 members from Consultant completed the survey and departed from Dar es Salaam 4 0 Arrival to Japan

Appendix 1-4 TANZANIAN CONCERNED PEOPLE

Office or company	Position	Name
Minsitry of Lands,	Minister	Mr. PAUL BOMANI
Natural Resources and		
Turism	Assistant to	Mr. MATERN Y. C. LUMBANG
	Vice-Minister	
Ministry of Finance	Councilor	Mr. KLBUNA
	In charge of	Mr. MBUENA
	affairs with	
	JAPAN	
· . · ·	4	
Fisheries Direction	Director	Mr. LIBABA
TAFICO	General	Mr. R. A. MROPE
	Director	
Ħ		Mr. T. MHANGA
11		Mr. ANDREW B.C. KILLANGO
н -		Mr. NOE KIMARO
и		Mr. S. PIMA
11		Mrs. SHIJA
		Mr. PONDE
•		
Port Authority		CAPTAIN J.F.C. LINDSAY
Local Consultant		Mr. MOHAMED RAFIK MECHJI

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## Appendix 1-5 BALANCE SHEET OF TAFICO (1983/1984)

The balance shect of TAFICO excluding the boatyard section as of June 30, 1984 is as follows:

·		•	Unit: 1000 T.Shs
Item	Total	Fishery section	Administration section
Kind of assets Fixed assets	85,538	65,930	19,608
Net current assets	5,734	-40,806	46,540
Total	91,272	25,124	66,148
Fixed capital Loans from			
government	161,931	73,077	88,854
Long term loans	4,500	4,500	-
Capital reserve	394	394	~
Cumulative loss	-75,553	-52,847	-22,706
Total	91,272	25,124	66,148

(Items of fixed assets)

	Total	65,930
	Investment for fishery company	8,761
	fishing base construction	14,188
	Provisional accounts of Kigamboni	
	Vehicles accounts	16,317
Fishery section	Vessels accounts	26,664

Administration	Provisional accounts of Pasiani	
section	boatyard construction	11,092
	Vehicle accounts and others	8,516
	Total	19,608
(Items of loans fr	om government)	
Fishing section	Aid from Finland	28,465
	Aid from U.K.	3,200
	Ist Aid from Japan	16,200
	IInd Aid from Japan	24,045
	Pangani fish purchasing section	1,167
	Total	73,077
		· .
Administration	Balance at end of June,1981	42,938
	Kigamboni fishing base	15,000
	Pasiani boatyard	5,000
· · ·	Fishery company	9,000
	Rehabilitation of fishing boats	6,000
1.	Ohter	10,916
-	Total	88,854

In the fiscal years 1983/1984, TAFICO promotes strongly the Pasiani boatyard construction project which for working with steel boats as well as engages in the fishery project and boat construction job. In other way, it continued the first term construction work of the Kigamboni base which lacks jetty, slipway, fishing net house, workshop, etc.

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# Appendix 1-6 TRANSITION OF TAPICO'S BALANCE SHEET (1980 - 1984)

The transition of the balance sheet of the fishery section is as follows:

Unit: 1000 T.Shs

Item	1980	1981	1982	1983	1984
Kind of fund					
Fixed assets	25,737	33,412	29,516	44,035	65,930
Net current assets	-22,905	-24,312	-29,635	-23,173	-40,806
Total	2,832	9,100	-119	20,862	25,124
		1	5		
Fixed capital					
Loans from	28,631	44,847	44,847	68,892	73,077
government			1	τ	
Long term loan	1,166	1,166	1,166	4,500	4,500
Capital reserve	394	394	394	394	394
Cumulative loss	-27,359	-37,307	-46,526	-52,924	,  -52,847
			:		
Total	2,832	9.100	-119	20,862	25,124

Ataached list 1-7 Summary of TAFICO's profit and loss by department (fiscal 1984/85-87/88)

en	84/85	85/86	86/87	87/88	
MAMATAFICO	12,770	13,420	13,865	13,865	Sales
Small boats	12.750	12,750	12,750	12,750	
Other business	4,585	4,585	4,585	4,585	
New boat		7,050	14,100	14,100	
Cold storage		691	1,382	1,382	
Total	30,105	38,496	46,682	46,682	
HAMATAFICO	7,373	7,945	8,503	8,572	Production
Small boats	7,712	7,806	7.891	7,973	cost
Other business	3,390	3,390	3,390	3,390	
New boat		4,416	8,936	8,866	
Cold storage	· · · ·	224	448	460	
Total	18,475	23,781	29,168	29,261	
MAMATAF ICO	1,843	1,589	1.275	1,286	Departmental
Small boats	1,928	1,561	1,184	1,196	cost
Other business	848	679	508	508	
New boat		663.	1,340	1,330	
Cold storage		34	67	69	
Total	4,619	4,526	4,374	4,389	
MAHATAFICO	2,212	1,986	1.531	1,543	Administratio
Small boats	2.313	1,952	1,420	1, 345	cost
Other business	1,017	847	610	610	CUSC
New boat		795	1,608	1,596	
Cold storage		40	81	83	
Total	5,542	5,620	5.250	5,267	
			0.770		
MAHATAFICO	1,342	1,900	2,556	2,464	Profit and lo
Small boats	797	1,431	2,255	2,146	before Dep.
Other business	<b>▲</b> 670	▲ <u>331</u>	77	77	
New boat		1,176	2,216	2,308	
Cold storage		393	786	770	
Total	1,469	4,569	7,890	7,765	
MAMATAFICO	1,184	1,055	942	843	Depreciation
Small boats	1,045	955	878	808	cost
Other business	2,365	1,996	1,676	1,399	
New boat	-	2,286	3,470	2,645	
Cold storage		514	918	816	•
Total	4,594	6,806	7,882	6,511	
MAHATAFICO	158	845	1.614	1,621	Profit and lo
Small boats	▲ 248	476	1,377	1,338	after Dep.
Other business	<b>A</b> 3,035	▲ 2,327	▲ 1,599	<b>▲</b> 1,322	-
New boat		<b>▲</b> 1,110	▲ 1,254	<b>A</b> 337	
Cold storage	_	▲ 121	<b>A</b> 130	<b>▲</b> 46	
	▲ 3,125	▲ 2,237	▲ 18	1,254	1

(note 1) Taking it for granted that the present new boat and cold storage will start operating in the latter half of 1985/86, their profit and loss are added up including the existent boats and other business.

(note 2) The annual repairing cost for the jetty 26,000T.shs.was not included in the above mentioned profit and loss.

	•																															
		Others .																		\								-	2.016	2,016	A2.016	
1,000T.Shs		Ice Ot		2,197		2,197					612	8	212	447			447	275			275	1.434	753	359	430	₽ 20			349	349	▲375	
Unit : 1.0	ess	Shell I		1 188		1,188	620		620	61		80	147	254			254					1.021	167	255	306	▲394					<b>▲</b> 394	
'n	er business	Fish S	60t.@20	1,200		1,200	600		8	119	ਲ	-	151	11		17	94	30	60		8	935	265	234	281	<b>A</b> 250					<b>A</b> 250	
	0ther	TUTAL F	60	4,585		4,585	1.220		1.220	186	644	180	1,010	778		17	795	305	60		365	3, 390	1,195	848	1,017	▲670	:		2,365	2.365	<b>A</b> 3 035	
		PANGAN I T	t 925	1,250		1,250				332	120		452	114	38	65	217	47	63		110	779	471	194	233	44	8 <u>2</u>	25		103	▲59	
			t 825 50t	1,250		1.250	-			332	120		452	80	8	70	188	47	29		110	750	500	188	225	87	78	25		103	▲16	
		SHANGARMHUCHUNGU	t 025 50t	1.250		1.250				332	120		452	88	8	67	203	47	63		110	765	485	191	229	65	78	25		103	▲38	
		TASI BILA	t @25 50t	1 000		1,000				189	96		285	63	38	64	195	5 <del>7</del>	50		62	572	428	143	172	113	40	25		65	48	
1984/85)	fishing boats	X.KUCHI T	L 825 40t	1.000		1.000				189	ଞ	. <u></u>	285	83	88	29	187	42	50		92	564	436	141	169	126	40	25		65	61	
(fiscal 19		18	t a25 401	3.500		3,500				894	337		1.231	201	67	158	426	371	175		540	2,203	1.297	551	199	85	301	100		401	<b>▲</b> 316	s/ ton
loss (f	Smal	THAIRL M.	825 140t	3.500		3,500				882	337		1.219	190	29	215	478	207	175	   	382	2,079	1.421	520	624	277	105	100		205	72	85.000T.Shs/ton
t and k			140t	12, 750		8				3, 150	1, 220		4.376	865	324	705	1,894	803	639		442	7,712	5,038	1, 928	2.313	797	720	325		1 045	▲248	6
List of TAFICU's profit and		ICO TUTAL				12,770 12.75	. 	727	727	3,467 3,	8	581	1	437	420	686			1		1,055 1				2,212 2	1.342	1.034	150		1.184 1	158	unit p
r TAFICO		H.TAFICO						F	-11		10			0		æ			0									e.	12		E	14 tons
List o		Total		20.415	0,69(4)11	30.105	1,220	727	1.947	6, 803	1.870	192	9.434	2.080	744	1.408	4.232	1.456	1.400		2,862	18.475	11.630	4,619	5.542	1,469	1, 754	475		4,594	▲ 3.12F	=Prawn
Attached list 1-8		l tem	Fish		Pravn	Total	Purchasing	Royalty	Total	Fuel	Ice water	Hatorial	Total	Fixed wage	Food	Incentive	Total	Reparing	Insurance	Storaging	Total	cost	profit	cost	cost	before Dcp.	Fishing boat	Fishing net and gear	Others	Total	after Dep.	(note 1)=Prawn 114 tons. unit pric
Y(			Sales		· <u> </u> ·		Proportional	cost	<u> </u>	Haterial cost	<u> </u>	_ <b>_</b>		Labor cost		<u> </u>		Fynansas			. <b>I</b>	T.production			5	P/L be				<b>.</b>	P/L af	

1Ce 00,00 (note I) = rawn 114 tons, unit pr

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Item         Total         M.T.MF.IC0         TUTML         TUTML         Table Month         Same Lish         Sum Contribution           Sales         Fish         20.555         3.201         12.750         3.500         1.000         1.000         1.200 <td< th=""><th></th><th>TO T DETE DIVIDUAL</th><th>CEI 1 1 57</th><th>CALIFICATION OF THE WAY S PROLIC AND LOSS</th><th>U-S PLO</th><th>IIC and  </th><th></th><th>(fiscal 1985/86)</th><th>35/86)</th><th></th><th></th><th>•</th><th>Unit</th><th>••</th><th>1.000T.Shs</th><th></th><th></th></td<>		TO T DETE DIVIDUAL	CEI 1 1 57	CALIFICATION OF THE WAY S PROLIC AND LOSS	U-S PLO	IIC and		(fiscal 1985/86)	35/86)			•	Unit	••	1.000T.Shs		
Item         Total         M.Th/EIO         TOTAL         M.Th/EIO         TOTAL         M.Th/EIO         TOTAL         TAN         Standard         Standard         Standard         Standard         Standard         Standard         Standard         Standard         Standard         TAS         Standard	. ,						Sma	-					6 G	L	iness		
Fish         924 825         1404 825         404 825         404 825         604 1,000 1,200         1,200 1,200         1,200 1,200         1,200 1,200         1,200 1,000 1,200         1,200 1,000 1,200         1,201 1,0126         1           Purchashink         1,220         3,533         3,150         382         894         188         332           Purchashink         1,220         3,503         3,150         382         894         188         332           Purchashink         1,220         3,500         3,500         1,000         1,000         1,200         126           Purchashink         1,220         3,500         3,500         3,500         3,500         3,50         1,000         1,250         126         126           Purchi         7,303         3,71         1,219         1,231         256         256         452         455           Total		ltem	Total	M.TAFICO	TOTAL	TUHA IN I	N. DELEO	K.KUCHI		SHANGARA	a	PANGANT	TUTAL	-40-5-11	Shall F	-	1.0
Prawn         20.555         3.220         12.750         3.500         1.000         1.000         1.250         1.           Total         30.755         13.420         12.750         3.500         1.000         1.000         1.250         1.           Furchastink         1.220         3.500         3.500         1.000         1.250         1.           Purchastink         1.220         3.150         882         891         188         332           Ice water         1.970         0         1.220         3.337         337         365         452           Waterial         5.725         3.558         3.150         882         891         188         332           Waterial         0         1.270         0         1.221         337	Sales	Fish					140t @25	40t 825	625	50t @25		50t 925	-	601 820	11210	a).1	UCHERS
Prawn         10.200%1         0.200         1.020         1.200         1.200         1.200         1.250			20.555	-	12,	3,500	3,500	1,000	्रेन्न	250	1.250		4 585		1.122	501 ¢	
Total $30.755$ $13.420$ $12.750$ $3.500$ $3.500$ $1.000$ $1.250$ Purchasine $1.220$ $765$ $765$ $765$ $765$ $3.530$ $3.500$ $3.500$ $1.000$ $1.250$ Total $1.855$ $765$ $3.535$ $3.150$ $882$ $894$ $189$ $332$ Total $0.572$ $3.535$ $3.150$ $882$ $894$ $189$ $332$ Haterial $1.870$ $0$ $1.220$ $337$ $337$ $357$ $352$ $450$ $120$ Haterial $9.534$ $4.148$ $4.377$ $1.219$ $1.231$ $285$ $585$ $456$ $66$		Prawn	10,200	<b>%1 10,200</b>													
Purchasing         1.220         765         765         765         765         765         765         765         765         765         765         765         765         765         3.150         882         894         183         332         337         367         96         96         120           Iotal $0.872$ $3.533$ $3.150$ $882$ $894$ $183$ $332$ $337$ $367$ $96$ $96$ $120$ Haterial $7.92$ $612$ $3.53$ $3.37$ $337$ $367$ $96$ $96$ $120$ Fixed wase $2.005$ $4.37$ $4.376$ $1.216$ $1.231$ $285$ $452$ $457$ $55$		Total	30, 755				3.500	1,000	1,000	1.250	1.250	1 250	4 5.85	1 200	1 200	201 6	
R0yaity         765         765         765         765         765         765         765         765         765         765         765         765         765         765         765         3.150         882         894         189         332           I tee         0.872         3.553         3.150         882         894         189         332           I tee         0.6872         3.553         3.150         882         894         120           I tee         0.533         4.148         4.376         1.210         1.231         285         452           I tee         9.533         4.148         4.376         1.210         1.231         285         56         52           Fixed ware         2.095         4.376         1.276         337         380         200         90         90         100           Flood         744         4.23         733         738         733         38         3	Proportional	Purchasing	1.220					-					000	• •	00111		
Total         1.085         765         9         832         894         189         332           Ice water $6.872$ $3.533$ $3.150$ $882$ $894$ $189$ $332$ Ice water $1.870$ $0$ $1.226$ $337$ $337$ $96$ $96$ $120$ Haterial $792$ $012$ $2.533$ $3.150$ $882$ $894$ $189$ $332$ Total $9.534$ $4.148$ $3.77$ $317$ $325$ $355$ $352$ $452$ $552$ $452$ $552$ $452$ $552$ $100$ $1$	cost	ROyalty	76.5										N77 I	80	070		
Fuel         6.672         3.539         3.150         882         894         189         189         332           Ice water         1.870         0         1.226         337         337         96         96         120           Material         792         612         337         337         357         96         96         120           Total         9.534         4.148         4.376         1.219         1.231         285         285         452           Fixed ware         2.095         437         880         200         200         90         90         100           Fixed ware         2.095         437         733         213         1558         64         68         53         33           Total         4.277         1.575         1.907         480         425         192         192         56         55		Total	1,985					•					- 200				
Ice water         1,870         0         1,220         337         337         96         96         120           Hatcrial         792         612         1         1210         1,231         285         285         452           Total         9.534         4.148         4.376         1,210         1,231         285         285         452           Fixed ware         2.005         437         880         200         200         90         90         100           Fixed ware         2.005         437         880         200         200         90         96         68         38           Total         4.277         1.575         1.907         480         425         192         192         205         55         55         55         55         55         55         55         55         55         55         55         116         116         116         5.475         77.4<	Material cos		6.872		3, 150	882	894	189	189	332	33	332	1.620	001	<u>s</u> [		
Hatcrial         792         612         612         1.210         1.231         285         285         452         452           Total         9.534         4.148         4.376         1.210         1.231         285         385         456         456         456         456         456         456         456         456         456         456         456         456		Ice water	1,870	0	1.226	337	337	96	96	120	120	120	EA A		5	:	
Total9.5344.1484.3761.2191.231285285452Fixed ware2.005437880200200909090100Food744420324676738		Matcrial	262	612										8		770	
Fixed wake         2.005         437         880         200         200         90         100           Food         744         420         324         67         38		Total	9.534	4.148	4.376	1.219		285	280	AE2	1027				8	00 I	
Food         744         420         324         67         58         56         50         50         50         50         50         53         58         53         58         53         58         53         58         53         58         53         56         50         50         50         53 <t< td=""><td>abor cost</td><td>Fixed wage</td><td>2,005</td><td>437</td><td>880</td><td>200</td><td>- 1</td><td>- C</td><td>38</td><td>1001</td><td>7C+</td><td>404</td><td>010.1</td><td></td><td>14/</td><td>21</td><td></td></t<>	abor cost	Fixed wage	2,005	437	880	200	- 1	- C	38	1001	7C+	404	010.1		14/	21	
Incentive         1.438         718         703         213         158         64         68         90         116		Food	VV2	420	324	EU.	5	8	2	200			<u></u>	5	<b>442</b>	44(	
Total $4.277$ $1.575$ $1.907$ $426$ $192$ $192$ $206$ $206$ $206$ $206$ $206$ $206$ $206$ $206$ $206$ $206$ $206$ $206$ $206$ $206$ $206$ $206$ $506$	-	Incentive	1.438	718	20.4	010	- 02 	S S	8	s S	S S	S S					
Reparing         1.607         418         884         224         407         47         47         53           Insurance         1.406         707         639         175         50         50         50         63           Stornaking         3.345         1.457         1.523         399         582         97         97         116           Total         3.345         1.457         1.523         399         582         97         97         774           Total         3.345         1.457         1.523         399         582         97         97         774           profit         11.614         5.475         4.944         1,402         1.262         426         476         -           cost         3.828         1.561         4.94         1,402         1.562         476         -         774           cost         3.828         1.561         4.19         1.15         155         1         156         157         1           cost         3.828         1.563         1.952         523         556         144         194         194           cost         3.000         1.952         5		Total	4.277	1.575	1 007	N81		5 6		Š	3	ŝ	1	5			
Insurance     1.406     707     639     175     50     53       Storaking     3.345     1.406     707     639     175     50     50     63       Storaking     3.345     1.406     707     639     175     50     50     63       Total     3.345     1.405     1.523     399     582     97     97     77       Profit     11.614     5.475     4.944     1.402     1.262     426     476     7       Profit     11.614     5.475     4.944     1.402     1.262     426     476     7       Profit     11.614     5.475     4.944     1.402     1.262     426     476     7       Profit     11.614     5.475     4.944     1.402     1.262     426     476     7       Cost     3.826     1.986     1.967     1.95     1.15     1.5     1.5     1.5       Cost     3.8200     1.952     5.23     556     167     167     127     1.5       Cost     3.000     1.905     1.952     523     556     167     157     12       Fishing hoat     1.535     905     532     525     255     25	xpenses	Reparing	1 601		00		2		2	8	907	206	795	<del>4</del> 6	254	447	
Storaging     17.00     0.50     17.5     5.0     5.0     6.3       Storaging     3.345     1.457     1.523     3.99     582     97     97     11.6       Total     3.345     1.457     1.523     3.99     582     97     97     11.6       cost     9.141     7.945     7.806     2.098     2.2338     574     774     7       profit     11.614     5.475     4.944     1.402     1.262     426     476     4       cost     3.826     1.561     419     1.402     1.262     426     476     4       cost     3.826     1.986     1.952     523     556     167     167     127     11       cost     3.000     1.900     1.431     460     256     167     157     127     11       fishing hoat     1.535     905     630     92     264     35     35     68     6       fishing net and gear     477     150     325     100     100     25     25     25     25       0thers     1.905     955     190     264     60     60     60     93     5       fishing net and gear     1.905 <td></td> <td>Íneurance</td> <td></td> <td></td> <td>8</td> <td>777</td> <td>401</td> <td>4/</td> <td>47</td> <td>53</td> <td>23</td> <td>53</td> <td>305</td> <td>30</td> <td></td> <td>275</td> <td></td>		Íneurance			8	777	401	4/	47	53	23	53	305	30		275	
Journaking         332         332         332         332         332         332         332         332         332         332         332         332         332         333		Change and	1,100	101	0.35 0	175	175	8	20	63	63	63	60	09			
iotal         3.345         1.457         1.523         393         582         97         97         116           cost         9.141         7.945         7.806         2.098         2.238         574         577         774           profit         11.614         5.475         4.944         1.402         1.262         426         476           cost         3.829         1.561         419         1.47         115         115         155           cost         3.829         1.561         419         1.47         115         115         155           cost         4.785         1.986         1.952         523         558         144         194         194           cost         3.800         1.995         533         925         523         556         167         167         127         1           fishing boat         1.535         905         630         92         264         35         35         58           fishing net and gcar         475         150         100         100         25         25         25           0thers         1.996         1.055         152         100         100 <td>:</td> <td>Stor ak Ing</td> <td>252</td> <td>332</td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>:</td> <td></td> <td><u> </u></td> <td></td> <td></td> <td></td>	:	Stor ak Ing	252	332	•							:		<u> </u>			
cost         9.141         7.945         7.806         2.098         2.238         574         774           profit         11.614         5.475         4.944         1.402         1.262         426         476           cost         11.614         5.475         4.944         1.402         1.262         426         476           cost         3.829         1.583         1.561         419         447         115         115         155           before         3.829         1.9361         1.912         553         156         144         144         194           before         3.000         1.9361         1.913         460         256         167         157         127           Fishing boat         1.535         905         630         92         264         35         35         68           fishing net and gear         475         150         325         100         100         25         25         25           Others         1.936         325         1902         355         1902         26         35         25         25           fishing net and gear         476         255         1902         10		lotal	3.345	1.457	1,523	399	- 582	87	67	116	116	116	365	8		275	
profit         11.614         5.475         4.944         1.402         1.262         426         476           cost         3.829         1.583         1.561         419         447         115         115         155           cost         3.829         1.561         419         447         115         115         155           cost         4.785         1.936         1.952         523         556         144         194         194           before Dep.         3.000         1.900         1.431         460         256         167         157         127           Fishing bost         1.535         905         630         92         264         35         35         68           Fishing net and gear         475         150         325         100         100         25         25         25           Others         1.995         325         1905         355         160         93           Fishing net and gear         476         258         100         100         255         255         25           Others         1.996         1.005         955         192         364         60         60	1 Pr 04404100	cost	- 9, 14]	7,945	7,806	2,098	2.238	574	574	774	127	774	3.390	935	1.021	424	
cost     3.820     1.533     1.561     419     447     115     115     155       cost     4.785     1.936     1.952     523     558     144     194     194       before Dep.     3.000     1.900     1.431     460     256     167     157     127       Fishing boat     1.535     905     630     92     264     35     35     68       Fishing net and gear     475     150     325     100     100     25     25     25       Others     1.996     325     1907     630     92     264     35     35     68       Fishing net and gear     475     150     325     100     100     25     25     25       Others     1.996     1.005     955     192     364     60     60     93       Iotal     4.006     1.055     955     192     364     60     60     93	uross	profit	11.614	5,475	4.944		1,262	420	426	476	476	476	1.195	265	167	76.3	
cost     4.785     1.986     1.952     523     559     144     194       before Dep.     3.000     1.900     1.431     460     256     167     167     127       Fishing boat     1.535     905     630     92     264     35     35     68       Fishing boat     1.535     905     630     92     264     35     35     68       Fishing net and gear     475     150     325     100     100     25     25     25       Uthers     1.096     1.055     955     192     364     60     60     93       Iotal     4.006     1.055     955     192     364     60     60     93	epartmental	1	3,829	1,589	1,561	419	7447	115	115	155	155	155	670	187	L L C	287	
P/L         before Dep.         3.000         1.900         1.431         460         256         167         127         1           sciation         Fishing boat         1.535         905         630         92         264         35         35         68           Fishing net and gcar         475         150         325         100         100         25         25         25           Others         1.906         1.506         355         100         100         25         25         25           Total         4.006         1.055         955         192         364         60         60         93           P/L after Dep.         A.006         1.055         955         354         107         107         707         707         707         707         707         707	BIDISTRATION	cost	4.785	1,980	1,952	523	559	144	144	1991	194	194	EAS	224			
Sciation     Fishing host     1.535     905     630     92     264     35     35     68       Fishing net and gear     475     150     325     100     100     25     25     25       Others     1.906     1.055     955     192     364     60     60     93       P/L after Dep.     A.1.007     845     476     268     107     107     24	ЪЛ	before Dep.	3.000	1,900	1,43]	460	256	167	167	127	127	107	A 221	A 150	000 V	000	
Fishing net and gear         475         150         325         100         100         25         25         25           0thers         1,990         1,095         325         125         25         25         25           Total         4,006         1,055         955         192         364         60         60         93           P/L after Dep.         A.1005         845         476         268         107         107         24	epreciation	Fishing boat	1,535	905	630	26	264	Ŗ	E.	68	3						
Others         1,996         1         60         60         93           Total         4,006         1,055         955         192         364         60         63           after Dep.         A1,005         845         476         258         107         107         24	ost	and	475	150	325	100	8	52	5	5	S E	३ ऱ्	+	+			
Total         4.006         1.055         955         192         364         60         60         93           after Dep.         A1.005         845         476         268         107         107         74	<b>-</b>	Others	1,996						:			5	1 006				
after bep. A1.006 845 476 268 A108 107 107 24		Total	4,006	1,055	955	261	364	Ba	9	6	03	ő	000				1, 589
			▲1.00G	845	476	268	A 1 08	101		3 2	3 7	•	1, 230			š	I.689
		(-+-+)	100	, ,				141	I AI	ð	<del>م</del> ک	34 ₩2.	2,327	<b>A</b> 150	<b>A</b> 293	<b>A</b> 189	▲1.689

price 85,000T.Shs/ton anıc

(17)

					EN	Small fishing	ing boats	, v,		·. :			ũ N	Uther pusines	less	
	Item	Total	N. TAFICU	TOTAL	TUMAINI	DELE	K. KOCHI	TASI	SHANGAR	SHANGARMHUCHUNGU	PANGANI	TOTAL	Fish	She 1]	Ice	Others
Sales	Fish		95t e35		140t 025 1	140t @25	@25 40t @25	40t 825	50t @25	50t 825	50t @25		60t 820			
		20,660	3, 325	12,750	3,500	3.500	1,000	1,000	1.250	1.250	1,250	4.585	1,200	1,188	2,197	
	Prawn	10,540 %1	1 10,540									 				
	Total	31,200	13,865	12,750	3,500	3,500	1,000	1,000	1,250	1.250	1.250	4,585	1,200	1,188	2,197	
Proportional	Purchasing	1.220										1,220	800 800	620		
cost	Royalty	162	162													
<b></b>	Total	2,011	162					_				1.220	009	620	 :	
Material cost		6, 905	3,569	3, 150	882	894	189	189	332	332	332	186	- 119	67		
		1.870	0	1,226	337	337	9 <u>6</u>	96	120	120	120	644	32		612	
_	Material	812	632									180		80	100	
	Total	9.587	: 4,201	4.376	1,219	1.231	285	285	452	452	452	1,010	151	147	712	
Labor cost	Fixed wage	2, 125	467	880	200	200	8	8	100	100	- 100	778	44	254	447	-
	Food	744	420	324	67	29	38	38	38	38	38		-0			
	Incentive	1.466	140		213	158	64	64	68	68	68	17	17			
	Total	4,335	1,633	1.907	480	425	192	192	206	200	206	795	94	254	144	
Expenses	Reparing	1.759	485	606	241	444	52	52	60	60	60	305	30	:	275	
	Insurance	1.400	207	639	175	175	50	50	63	63	63	09	20			
	Storaging	080	686												·	
	Total	3, 851	1.878	1, 608	416	619	102	102	123	123	123	365	8		275	
.production	cost	19,784	8,503	7,891	2,115	2,275	579	579	781	781	781	3,390	935	1,021	1.434	
Gross	profit	11.416	5,362	4,859	1,385	1 225	421	421	469	469	469	1,195	265	167	763	
Departmental	cost	2,967	1,275	1,184	318		28	87	117	117	117	508	140	153	215	
Administration	1	3, 561	1.531	1,420	380	409	104	104	141	141	141	610	168	184	258	
NA	P/L before Dep.	4,888	2,556	2,255	687	475	230	230	211	211	211	4	<b>A</b> 43	▲170	290	
Depreciation	Fishing boat	1 345	262		81	230	31	31	60		60			-		
cost	Fishing net and gear	475	150	32F	100	100	25	25	25	25	25					
	Others	1.676										1.676			270	1.406
	Total	3, 496	276	878	181	330	56	56	85	85	85	1,676			270	1.406
1/d	after Dec.	1.392	1.614	1.377	506	145	174	174	120	126	126	A1,599	▲43	A170	8	A1,406

(18)

Unit : 1.000T.Shs	Other business	Fish Shall Teal	SOF BOD	1 200 1 1 200	-		1.200 1,	0 600 620	600	3 119 67	612	80 100	151 147 712 (	77 254			DA DEA	+C7 +.5		20		8	935 1,021 1,434	265 167 763		168 184 258	A43 A170 290			232 1 161		•
		U PANGANI TOTAL	50t @25	,			1.250 4.585	1.220			120 644	180	452 1,010	100 778		68				200			_	462 1,195		142 610	202	52	25	1.399	77 1.399	∣∢
		SHANGARMHUCHUNG	50t @25 50t @25	250 1			1.230 1.230				120 120		452 452	100 100	38 38		206 206										202 202	52 52	25 25		77 77	125 125
(fiscal 1987/88)	ing boats	K.KOCHI TASI	40t @25 40t @25 5			000			 100	-	26 35		285 285	06 06	38 38	64 64											223 223	27 27			52 52	
	เอ็	TUMAINI M. DELED I	025 140t 025	3.500 3.500		500 3 500	2		882 804		33/ 33/				67 67	211 157					128 650	ſ		-					100 100		171 302	497 124
TAFICO's profit and loss		TUTAL	140t	12.750		35 12. 750 3.				N 1 996	7		4	7 880			-	1.054	639		1.692	7 979 0		1100	1 435	001.11	<ul><li>2, 140</li></ul>	483	325		808	80
Estimate of TAFI		IOLAI M. TAFICO	6	20,660 3,325	10.540 1 10.540	31,200 13,865		162 1162	~		812 622					1.46.3 740	4.332 1.633	1,913 554	1.406 707	686 680	4.005 1.947						5		4/5 150	1, 399	3,050 843	1.637 1.621 1.33
Attached list 1-11 E	1 + <del></del>	l cea	Fish		Prawn	Total	Purchasing	Royalty	Fuel	Ice water				u wage		tive			Insurance	Storaging		cost 19	profit 11		cost	before Den	4	-	and gear	<i>w</i>		P/L after Dep.
			Sales				Proportional	cost	 Material cost				abor cost					Expenses			<b></b>	T.production	Gross	Departmental	Administration	q T/d	Donrociation	_	<u> </u>	<b>L</b>		P/L a

(19)

