FINAL REPORT ON THE ACHIEVEMENTS OF JICA-AMTA TECHNICAL CO-OPERATION FOR THE ARAB MARITIME TRANSPORT ACADEMY

MAY 1983

JAPANESE ADVISORY TEAM

JAPAN INTERNATIONAL CO-OPERATION AGENCY





CONTRACTOR SERVICES



JAPANESE ADVISORY TEAM

ARAB MARITIME TRANSPORY ACADEMY

YOUR REF :

OUR HEF, I AMTA 82-30 DATE : May 1st, 1983. TELEX | 54160 ACAD UN TEL 855720 , 865429 CABLE - ARABCADEMY

Dr. Gamal El Din Moukhtar, Director General, Arab Maritime Transport Academy.

Dear Director General Dr. Moukhtar,

We have the pleasure to submit the final report on the achievements of the JICA-AMTA technical co-operation for the Arab Maritime Trasnport Academy, which summarizes the achievements of the JICA-AMTA Project performed from November 1976 to May 1983.

We are very glad to report that the technical co-operation is completed successfully and has obtained excellent results. It has also helped to promote the mutual good understanding and close friendship between our two countries.

We would like to undertake this opportunity to express our deep appreciation for your attentive considerations and co-operation for the technical co-operation activities during the JICA-AMTA project extended over a long period of time. Moreover, we are very grateful to your staff members concerned and all counterparts for their friendly and sincere co-operation with us during our work.

With the best regards, I remain,

Yours truly,

t. Yoshio Chihara,

Chief Advisor,

Japanese Advisory Team.

Japan International Co-operation Agency

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A. HISTORICAL BACKGROUND

In October 1972, the Arab Maritime Transport Academy (AMTA) -as a regional institution of the Arab League- was established in Alexandria for the purpose of training personnel to work in the field of maritime transport, with the technical and financial aid of the UNDP/IMCO.

in July 1974, due to the request of the Government of Egypt concerning technical co-operation for the AMTA, the Government of Japan dispatched the Preparation Survey Team organized by the Japan International Co-operation Agency (JICA) for the purpose of a feasibility study.

In October 1975, for the purpose of planning the technical cooperation, the Preliminary Survey Team of JICA was dispatched.

In November 1976, for the purpose of working out the details of
the co-operation, the Implemention Survey Team of JICA was dispatched, and the Record of Discussion (R/D) between the Japanese Survey Team and the Egyptian Governmental Authorities concerned - concerning the AMTA project in view of the system of
the Japanese Overseas Technical Centre Services being bilateral
co-operation - was signed by the two parties, which defined the
duties and responsibilities of each side and was retained valid
for a period of four years.

In May 1977, on the basis of the afore-mentioned R/D, the van of the Japanese experts was dispatched to the AMTA, and the field activities of the technical co-operation were inaugurated.

In March 1978, the permanent Committee for Transportation and Communications of the Arab League decided to cancel the utilization of the facilities of the AMTA's permanent premises at El-Tarh area on the Abu-Quir bay, of which the construction works had almost been completed, because of the possibility of pollution occurring through the fertilizer factory - constructed afterwards - adjacent to the premises.

In April 1979, the Ministry of Maritime Transport and the AMTA succeeded in securing the land for the new permanent premises at El Montada, Abu-Quir as a substitute for the premises at El-Tarh, and in June of 1980 the construction works at El Montada were commenced.

In October 1980, owing to terminate the period of the JICA-AMTA project on November 5, 1980, the Evaluation Team of JICA was dispatched with the objective of final evaluation of the project, and on the basis of the results of the evaluation, further co-operation between the JICA and the AMTA was proposed in the new R/D in which the Japanese experts and the terms of their dispatch in respective fields were defined to start a new phase of extension; the longest extension period among that of the experts was one year and six months from November of 1980. In September 1981, the construction of the buildings and the installation of the equipment provided by the JICA in the new premises at El Montada were almost completed, and the first session for all courses of the S.S.T.C. was commenced in the new facilities.

In May 1982, the JICA-AMTA technical co-operation in the system of the Japanese Overseas Technical Co-operation Centre in accordance with the R/D signed on October 15,1980 was terminated, but on the basis of the request of the AMTA through the Egyptian Government, the Japanese Government decided to extend the period of assignment of two experts from along the existing, to continue following up the co-operation for the AMTA till May 8, 1983.

In May 1983, the JICA-AMTA project was completely terminated.

D. ACHIEVEMENTS

1. Dispatch of Japaose Experts:

The JICA dispatched long-term experts to the AMTA during the period of the JICA-AMTA Project (hereinafter referred to as the Project) as shown in Table 1.

The number of man/month of every calendar year of the dispat-

The number of man/month of every calendar year of the dispatched experts including short-term experts is indicated in Table 2.

2. Disposition of counterparts and their technical training in Japan:

(1) Disposition of counterparts

The AMTA arranged the counterpart personnel such as administration staff, instructors and trainers in the respective fields during the period of the Project as shown in Table 3.

(2) Technical Training in Japan

The JICA accepted the counterparts to visit Japan for observation tours or technical training courses as shown in Table). The number of the accepted counterparts of every calendar year is indicated in Table 4.

3. Provision of equipment:

The JICA provided training aids basically for the Specialized Seamen Training Centre (S.S.T.C.), along with the Department of Nautical Studies and the Department of Marine Engineering Studies.

The following are the main training aids: -

For the Specialized Seamen Training Centre

- * A 30 ton training launch (MARS).
- * A life boat, lifesaving apparatus and fire fighting appliances.
- * Nautical and signalling instruments.
- * A maring radar.
- * A steering system simulator.
- * Meteorological observation equipment

- * Seamenship equipment.
- * Cargo winches and cargo handling instruments.
- * Ship models.
- * Diesel driven A.C. generator plant (2 sets of generator)
- * A complete oil purifier set.
- * A complete set of cold storage unit.
- * Automatic control panels.
- * Electric circuit training apparatus and exportment equipment.

For the Department of Nautical Studies

- * A tanker operation simulator.
- * A cargo oil control simulator.
- * A cargo oil pump simulator.
- * Ship condition calculators.
- * Measurement instruments.
- * Audio-visual teaching aids.

For the Department of Marine Engineering Studies

* A 2-cycle marine diesel engine plant including a remote control system, a dynamometer, a complete set of auxiliary machinery, a cooling tower and heat exchangers, and other accessories and materials.

The value of training alds provided amounts to approximately one and a half million U.S. Dollars (U.S.\$1.5 Million).

4. Duildings and facilities:

The construction of the buildings and installation of the equipment for the implementation of the Project were completed in the progress as shown in Table. 5.

The location of the educational building of the S.S.T.C., the workshops and others at El Montada premises is shown in Fig. 1 and the arrangement of the equipment in their buildings as shown in Fig. 2, 3 and 4.

The arrangement of the equipment in the Tanker Operation Simulator (TOS) Laboratory of the main building in Miami area, Sldi Bishr is shown in Fig. 5.

5. Development of training programmes; For the Specialized Seamen Training Centre

- (1) Preparation and application of the training progarithmes: In order to set up a 20 week course of studies for each of the Deck Basic Course, Mechanical and Electrical Basic courses, of which the objective is to train and qualify the students to develop their practical knowledge and skills necessary for working on board ships as ordinary seamen of sailors, mechanics or electricians, based upon improving the existing course at 14-week -, the following training programme for each course was prepared in due consideration of the TMO "Convention on BTCW 1978" and the ILO-IMO "Document for Guidance" from September 1977 to August 1978 jointly by the Japanese experts and the instructors of the S.S.T.C., and was put into practice from the second session of the end of February 1978.
 - * Curriculum
 - Syllabus
 - Training scheme for course of studies
 - * Schedule of lessons based on the weekly lesson timetable
 - * Plan for executing practical training (the Dock baste course only).
 - * System of evaluation on the training.

The training programme for each course was sfollowed up and revised, and finally compiled in a manual.

(2) Preparation of teaching materials:

The text books for the various subjects were compiled in English by the Japanese experts and were translated into Arabic by the counterpart instructors.

Other teaching materials for the various subjects such as diagrams of wall charts and original drawings for a slide projector and overhead projector were also prepared in Arabic.

The manual for the sea oriented training of a 10-day cruise on board the training ship AIDA WI was compiled in English by the Japanese experts.

(3) Questionnairing for following-up of the graduatent In order to obtain information to improve the education and training at the SSTC, a questionnaire on the circumstances after graduation from the SSTC was distributed among graduation at the end of every session from the first session of the academic year 1981 to the first session of the academic year 1980. The number of answers from the graduates to the questionnaire were any statistics, but the results of the questionnaire were valuable for bringing out some problems on the education and training at the SSTC.

For the Tanker Operation Course (TOC) of the Department of Nautical Studies

- (1) Preparation & application of the training programme!

 In order to establish a new short course of a four-week for the TOC, of which the objective is to train and qualify experienced captains and deck officers to develop their practical knowledge and skills necessary for working on board tankers, the training programme was prepared in consideration of the IMO "Convention on STCW 1978" from October 1978 to February 1979 jointly by the Japanese expert and the counterpart, and the first TOC was inaugurated in May 1979.
 - * Curriculum
 - * Syllabus
 - * Training scheme for course of studies
 - * Lesson schedule for the course
- * Operation scheme of the TOC for the academic year And after following up and revising the programme, a flag training programme and operation scheme for the TOC were soll up at the 6th TOC in May 1980, in which the TOC was scheduled to hold Three to five times a year a-four-week course for less than nine participants.
- (2) Preparation of toaching materials:
 The text book was compiled in English by the Japanese expert in co-operation with the counterpart, and also films and video tapes of teaching materials for the various subjects were prepared as audio-visual teaching aids. Various diagrams of original drawings of a slide projector and an overhead projector were prepared.

For the Practical Training on the Two-Cycle Diesel Englie (2CDE) of the Department of Marine Engineering Studies:

In order to provide the students in the classroom studies of the Phase I of the Academy with sufficient and offective practical training on the 2CDE, the following training programms was proppared from August to November 1981 by the Japanese expect in co-operation with the counterpart.

- * Programme of practice and experiement for the cadets of each grade.
- ! The training subjects and training hours. Also a text book consisting of two volumes and a guide book on experiement were prepared.

6. Technical transfer:

In addition to the technical training in Japan, the Japan-ese experts gave technical advices and guidance concerning the operation and maintenance of the training aids and the Leaching techniques in using the aids to the counterparts at the SBTC, the TOC of the Nautical Department and the Practical Training on 2CDE of the Marine Engineering Department.

The technical transfer was completed successfully at each field.

7. Study on the sea training system for the AMTA:

On the basis of the request of the AMTA, the Japanese experts studied the sea training system of the AMTA from October 1982 to March 1983 for the purpose of setting up a skeleton of sea training system to execute the new project for the reformation of the sea training programmes in the AMTA, which is scheduled to be carried out into effect as from the academic year 1983/1984.

The following reports were submitted to the ANTAI"

- Report No. 1: Recommendation for Development of Organization for Sea training.
- Report No. 2: Study's Schome of Guided Sen Training in the Phase II of the Academy.

C. CONCLUSION

- (1) At the termination of the Project, the JICA-AMTA technical co-operation is observed to have successfully necomplished the purpose of the R/D signed on November 6th, 1976.

 Moreover, in view of the results so far achieved, the AMTA is viewed to have obtained almost all the basic shorebased aids of education and training necessary for a sea training institution based on the technical co-operation of the UNDP/IMCO, JICA, etc., and also to have almost settled the educational system and its basis, except the sea training system, after ten years of the Academy's establishment.

 From now on, the AMTA is expected to concentrate its effort on strengthening the educational system and its basis as well as the sea training system.
- (2) In spite of having met some unexpected obstacles, the cooperation activities of the Project including visits of the 28 counterparts to Japan as shown in Table 4, extended over just six years since starting its field activities at the AMTA is observed to promote remarkably the mutual good understanding and close friendship between the two countries.

* * * * * *

List of the Long-term Experts Table 1

Category	Name	Sponsoring Employer	Period of Assignment
	Noubaki KOJIMA	The Institute for Sea Training	6 May, '77 - 5 May, '79
Chief Advisor	Kelji KISHIMOTO		16 Apr. 179 - 10 May, 181
	Yoshio CHIHARA		15 Apr. '81 - 10 May, '83
Deck	Takashi SUZUKI	NIPPON YUSEN KAISHA CO., LTD.	6 May, 77 - 5 May, 79
Uepartment	Kyoichi NASUNO		16 Apr. 79 - 9 Nov. 81
C Mechanical	Katsuji ISHI	Mitsui O.S.K. Line Co., Ltd.	16 Jun. 777 - 30 Sep. 78
P. Department	Kiyoshi MISAWA	Institue for Sea Trai- ning	22 Sep. 78 - 25 Mar. 81
	Takero SUNAGAWA	Op	11 Mar. 81 - 10 May, 83
Electrical	Seiichi KIKUSHIMA	Mitsui 0.5.K. Line	29 Aug.'77 - 28 Aug.'79
Department	Toshibiko MUKAI	- OP	13 Aug. 79 - 9 Nov. 81
Nautical Dept. Tanker Operation Course	Tsuguo ARIMA	Japan Line Co., Lid.	12 May, 178 - 14 Mar. 181
M. Engineering Dept. (2 CDE)	ACTIVE TOWARDS	INSTERS CO., INC.	1 7 Way, 75 - 9 May, 82
	Tochilise ECYDO		ا بنا يوم بالايا ، ومن الم
Co-ortinator	Kazwo SaSaNo		\$ 0ct.:79 - 9 May, 182

Tere 2 Number of Man/American Superior dispetitioned from Lapper.

	, ,		Cale	Calendar year						Total
17 Per Vinishatun	parcii	9261	1977	1978	1979	1980	1981	1982	1983	
Long-term (Experts (m	/ Man / x (month	•	34	88 9	82	84	52	29	Ó	380
Short-term (Experts	(ditto)	ı		Ħ	6	\$	(1)			63
Total	ditto	1	34	69	ት8	28	88	29	æ	39\$

• As of May 8th, 1983.

Cate- gory	Rank	Name of Counterpart	Duration enrolled as a Counterpart	Period of Training Visit to Japan	Type of Training
	Director General	Gamal El Din Moukhtar	May, '77- May, '83	17 Sep3 Oct. 79	Individual
notta	D.D.G. for Educa- tion & Training	Alphonse H. Sadek	May,'77- Mar.'80	1 Jun22 Jun. 76	Individual
ajei	- ро	Sameeh Ahmed Ibrahim	May, '77- May, '83	5 Apr25 Apr. 77	Individual
ntmbA	Ex-Head of Cood.	Moustafa Abdel Aziz	May, '77- May, '83	23 Sep15 Oct. 78 25 Nov 8 Dec. 81	Individual AMTA's Expense
	Head of Coodina- tion of Education	Ibrahim Hussein Ibrahim	May. 77- May, 83		
	Principal	Yousri Abu El Nasr	May,'77- May,'83	5 Apr25 Apr.,77	Individual
	Lecturer (Nav.)	Hussein Khalil Hassanein	May,'77- Feb.'79	22 Apr22 Dec.'77	Group & Individual
• • • • • • • • • • • • • • • • • • • •	- Do -	Amin Arif Mohamed	Mar.'79- May,'85	21 Oct19 Nov.'80	Grup & Individual
T. 2.	- Do -	Mohamed Hafiz El Kahky	Feb. 181- May, 183	14 Oct19 Nov. 82	Group
S	Lect er (Mech.)	Ashraf Anwar Thabet	May, 77- May, 83	15 May,-22 Jul. 80	Individual
	1 0Q 1	Osama Mohamed Motaweh	May,'77- Jun.'79 Jun.'81- Feb.'83	17 Oct19 Dec. 78	Group & Individual

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Group & Individual	Individual				Individual	Individual	Individue1 Individue1		Individual		Individual		(cont.)
16 Oct18 Dec.'81	27 Jul27 Sep. 81			が () () () () () () () () () (15 May, -22 Jul. 80	5 Aug27 Sep. 181	1 Feb31 Mar.'78 6 Mar28 Mar.'79		12 Jul27 Sep. '81		23 Sep15 Oct.,78		
Jul. '79- May, '83	May, 77- May, 183	May, 177- Nov. 177	Dec.'77- Mar.'78	Mar. 178- Aug. 178	Sep. 78- May, 183	May, '77- May, '83	May,'77- May,'83	Feb. 79- Sep. 80	Sep. '80- May, '83	Feb. 180- May, 183	May,'77-Sep.'80	Sep. 180-0ct. 182	
Mohamed Nabil El Sobki	El Sayed El Sayed EL Bawab	Mohamed Aly Nowar	Hosam El Din El Mahdi	El Faruk Moustafa	Mohamed Ragab Amin	El Hussein Hamza El Said	Mohamed Fouad Farid	Mohamed K. Ragab	Mohamed Mamdouh Hamalawy	Saled Gouda	Abmed Hasan Maanoun	Mohamed Ali Lotfi	
Lecturer (Wech.)	Trainer (Mech.)	Lecturer (Blect.)	- Do -	- Do -	- Do -	Trainer (Elect.)	Ex-Head of Dept.	Lecturer (TOC)	- Do -	Trainer (TOC)	Ex-Head of Dept.	Head of Dept.	
			.o.	l	s		pept.	teal .0.0.	(C)		E) bf.	M.F Per (2Cp	

		Individual	Individual	Individual	Individual	Individual G-C base	Individual	
		6 Feb13 Mar. '80	4 Jul21 Sep. 180	4 Aug17 Sep. 182	30 Jan 8 Mar. 183	25 Nov 8 Dec. 81	expected in the middle of Oct. 183	
Mar. 79- Nov. 79	Nov.'79- Aug. 80	Jan. *80- May, *83	Jul. '79- May, '81	Nov. 180- May, 183	Nov. *80- May, *83	May, '82- May, '83	May,'82- May,'83	
Rabbi A. El Malt	Sami Mina Botros	Mohamed El Saied Morsi	Ibrahim Mohamed El Mohr	Nabil Hafez Agamy	Ragab Mohamed Hamedo	Abdel Wahab Fahmy	Adel Ali Soliman	
Lecturer (2CDE)	- Do -	•	1 OO 1	- Do -	Trainer (2CDE)	Head of Dept.	Senior Eng. Adv'r	
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Table 4. Number of the Counterparts accepted in Technical Training in Japan

Rank of			ຶ່ວ	Calendar year	/ear				
Counterpart	9261	1977	1978	1979	1980	1981	1982	1983	
Directors (2 - 3 weeks)	2	8	2	2		2.			
Lecturers (2 - 3 months)	t	; 4	a	4- 4	'n	2	÷ 0	• • • • • • • • • • • • • • • • • • • •	14(25)
Trainers (2 - 3 months)		,	1			3			3
Total	61	6	- 3'	m	V	9	্র	9	28(29)

Observation tour of Japan at the AMTA's expense ditto for two weeks

The number scheduled to be accepted.

Building (Randingnat)	Construction building	on of ing	Tust	Installation of equipment	Date of Operation
	started	finished	started	finished	
SSTC Educational building (for Deck Studies)	June 1980	Sept. 1981	Apr. 1981	Sept. 1981	Sept. 1981
No. 4 Workshop of SSTC for Mechanical & Ele- ctrical studies)	June 1980	0ct. 1980	7. 980 080 1 f.	May 1981	2 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Cargo Handling Section of SSTC (for Deck Studies)	June 1980	Apr. 1982	Apr. 1981	Apr.	May 1982
No. 1 Workshop of M. Engineering Dept. (2CDE* Plant)	June 1980	Apr. 1981	Apr. 1981	. S. 6000	Mar. 1982
Tanker Operation Simulator Laboratory of Nautical Dept. (COC**, TOS***, etc.)	July 1978 (Extension Aug. 1979	Dec. 1978 1978 1979	(coc) 0ct. 1978 - 1978 - TOS) 1979	(COC) Mar. 1979 (TOS) Nov.	(COC) May 1979 (TOS) 1980

Two cycle diesel engine Cargo oil control simulator Tanker operation simulator

00'00T 32,00 5. Main Educational Building 6. Fire Fighting Building 00'0 · Pre-existing buildings 32,00 Cargo Handling Section 25.00 Department Area M. Engineering 45.00 25.00 32.8 192.00 Mechanical & Electrical Workshop (No.4) 1. Diesel Workshop (No.1)
2. Metal cuttting Workshop (No.2)
3. Repair and Maintenance Workshop (No.3)
4. Mechanical & Electrical Workshop 10.00 10.00 building S.S.T.C. Area Practical 52.8 72.00 Fire vall 20-03 рвон તા દેશન

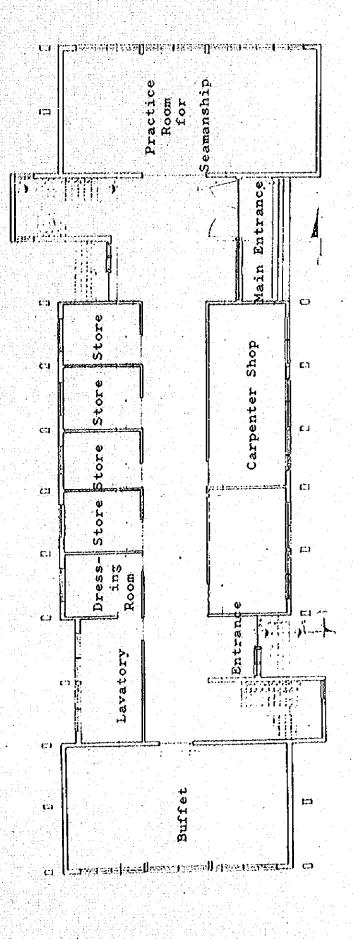
35,00

00.91

32.00

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ig. 1 . Location of the Burlding at El Montada premises



(Ground Floor) Plan of SSTC Educational Building Fig. 2-1.

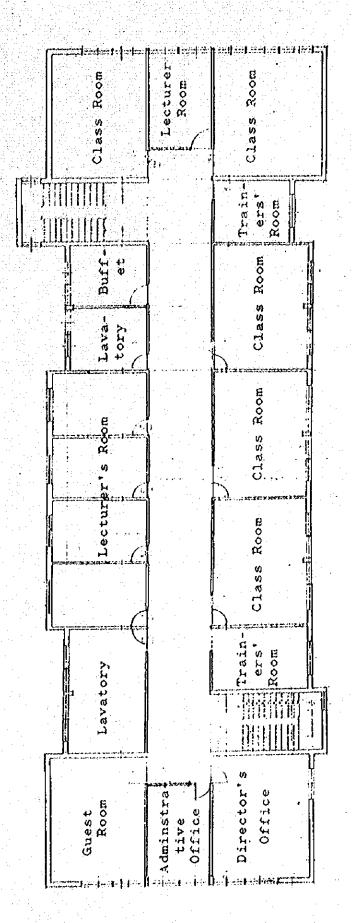


Fig. 2-2. Flam of Elic Schoational Building (fat Floor)

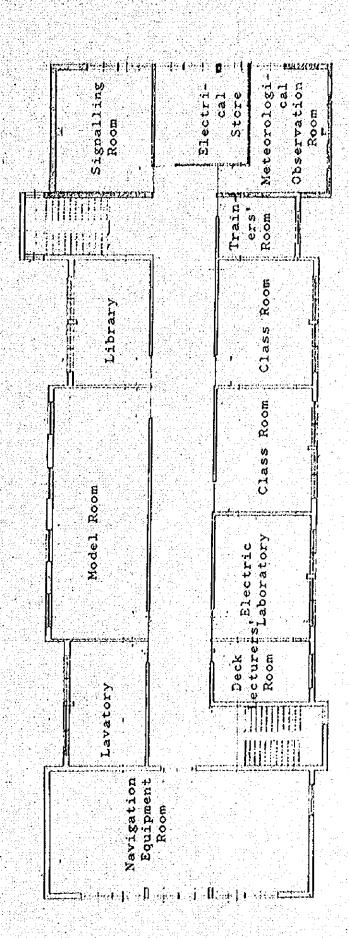
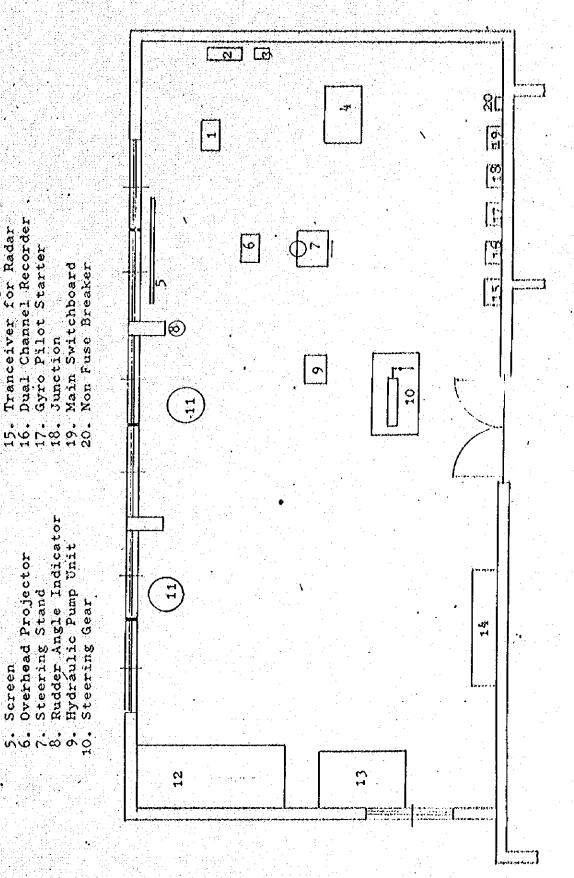


Fig. 2-3. Plan of SSTC Educational Building (2nd Floor)



Exhibits of Nautical Instruments

11. Magnetic Compass

13. Chart Table 14. Models of Light House

Chart Table

Motor Generator for Radar Power Transformer

Simulator

Dual Channel Recorder Tranceiver for Radar

Gyro Pilot Starter

Junction

Rudder Angle Indicator

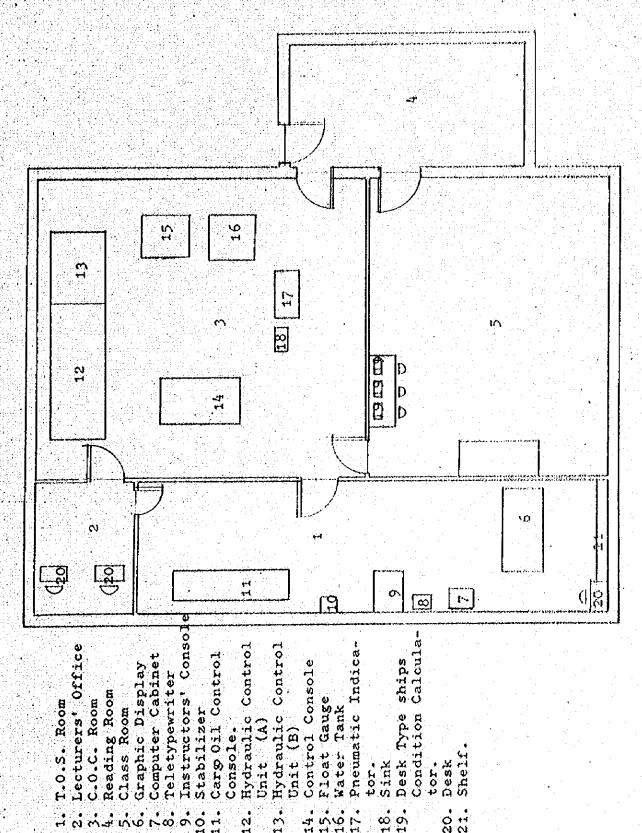
Overhead Projector Steering Stand

Screen Radar

Room in SSTC General Arrangement of Navigation Equipment Schons Educational Building 7-5 to ort

General arrangement in No.4 Workshop of the S.S.T.C.

Fig. 4. General Arrangement of No. 1 Workshop in Montada



165 17

10.

. 48 5 22.

General Arrangement in the Tanker Operation Simulator Laboratory of the main Building in Miami Area ιζ