V－2　UNDP とわが国協力の競合性

10月25日および11月３日の２回にわたるUNDPのProject Managerとの会談において，UNDPと日本とのAMTA協力の場面における競合性についても言及した。

Project Managerは具体的に商船専門学校（Cadet College）はUNDPの援助の大部分をすでに投入し，教育機材も相当に整備充実し，専門家も多く派遣され教育活動も軌道に乗っているので，今ここに更に日本から機材，専門家を投入されれば，やはり混乱をまねくであろう。したがってUNDPが殆んど援助出来ないでいる海員学校（School for Specialized Seamen）に日本からの援助を期待する旨の意見をのべた。これはやはり，AMTAの１教育機関に両者が共に協力（援助）を行えば混乱が起ることを示すもので，我々としても充分理解できる事である。この競合による混乱をさける意味からは，商船専門学校（Cadet College）を協力対象とすることを避けることが妥当であると思われ，海運先進国として，海運，造船，船員教育等各分野で世界１，２位を誇るわが国としては残念ではあるがやむを得ないであろう。

航海大学校（College of Navigation Officei's Studies）および機関大学校（College of Marine Engineering Studeis）の各校の１～２課目に対するわが国の協力は，UNDPの援助の現状に勘案したAMTAの要望とわが国の協力態勢により決定されるので直接UNDPと競合することはないと思われるが日本人専門家には，その担当課目以外にも必要があれば航海機関の各分野にもアドバイス，協力をAMTAとして望んでいるので，その場面ではある程度の競合が起ると思われる。このような競合は，日本人専門家リーダー，AMTA総長，UNDPのProject Managerの三者の協議により解決をはかっていく事となるであろう。

V－3　協力プロジェクトの選定に至る経緯

今回の事前調査団の技術面における目的は，わが国のAMTAに対する技術協力の具体的範囲，内容を明確にすることであった。そのため調査の方法を４段階に分けた。

第１段階　調査団，AMTA双方からそれぞれの提案あるいは要望を提示し，そ

れについて討論し，次の段階の調査の目標をある程度に絞る。

第2段階　第1段階の結果による特定の教育機関に重点を置きながら，AMTAの各教育機関の教育実施状況，教育施設機材の整備状況等を視察，調査し，かつ各教育機関の担当者と意見を交換する。

第3段階　第1，2段階の調査の結果により，調査団として技術協力の具体的範囲，内容につき大枠を得て，それにつきAMTA本部の関係者と一段とつっこんだ討議をする。

第4段階　前段までの調査の結果により，調査団としての技術的協力に関する結論を得，それにつきAMTA本部の関係者と討議する。

本事前調査団は，10月20日東京発，21日カイロ着，日本大使館に表敬訪問および今後の日程等につき打合せを行った。そのさい和田大使より本プロジェクトの重要性と早期締結，実施の必要性を説かれ，本調査につき激励をうけた。22日はUNDPカイロ事務所と打合せの予定であったが，同事務所のAMTA担当者はすべてアレキサンドリアに移転しているとの事であったので，この打合せは中止とし，大使館との打合せおよび調査団内の打合せを行った。

10月23日はカイロよりアレキサンドリアに移動し，午前中，エジプト政府海運大臣に表敬訪問，つづいて本プロジェクト担当のM.N.EL-Mamoun次官と窓口の問題につき意見交換，かつ本調査団が用意した質問状を渡した。EL-Mamoun次官は，沖縄海洋博のため日本から招聘され，本調査団滞在中は不在となるので，代ってH.H.EL-Sabbagh海運次官が我々の調査に協力することとなり，同席した。

つぎにAMTA本部を表敬訪問，A.H.Sadek教育部門担当副総長等と調査日程等につき打合せを行った。24日は金曜日で，AMTAは休日であるので，調査団にて調査内容および方針を検討した。

第1段階の調査は，10月25日AMTA本部において行われ，調査団は全員，AMTA側はA.H.Sadek副総長，A.Sharaf海員学校長，およびG.Hursein研修部長が出席した。

調査団は，懸案であった窓口の問題はエジプト政府が日本の技術協力に関する

窓口になることを受入れ解決し，日本のAMTAに対する協力の手続が一応整ったので，次の段階として日本の技術協力の具体的範囲，内容を探究することが本調査団の主目的であると述べた。つづいて昨年の調査団がもち帰った報告をもとにして関係者が協議した結果として日本側から次の提案を行った。

先進海運国たる日本が船員教育の分野で最新かつ重要と考え，AMTAに対する技術協力として適当と考えられるものは，

第１案　商船専門学校（Cadet College）に対し

航海科　電子航法

タンカー荷役を中心とした荷役

機関科　ディーゼルプラントおよび補助ボイラ

自動制御装置および電気機器

第２案　航海大学校（College of Navigation Officer's Studies）

機関大学校（College of Marine Engineering Studies）

における第１案の課目

あるいはこの組合せ。なおAMTA側に対案があれば，それについて喜こんで検討する意を表した。これに対し，AMTA側は，先づ前述のAMTA新組織を説明し，関係書類 The Management Study を提出し，また航海，機関，通信各部門の訓練計画，エジプトの海技免状および海員学校について説明した。

ついでAMTA側は，日本の協力分野として次のものを考慮すべきであると提案した。

第１案　Abu－Kir の新Basic Seamen Trainging Center の設立についての協力（将来計画を含めた訓練計画，派遣専門家，供与機材，カウンターパート）

第２案　AMTAの各部門に対し，日本側より提案のあった分野での協力

日本側より日本の技術協力の方式および1976年に予想される実施調査団，合意議事録およびこれに続く本プロジェクトに関する協定につき言及した。また日本の船員教育制度につき説明した。

質問状も提出し，また技術協力は日本側，AMTA側の両者が共に満足すべきも

のでなければならないという事を確認し合った。

ついでUNDPのProject Managerを訪問，質問状を手渡し，本調査団の目的を説明，AMTAに対する技術協力において，とくに派遣専門家の受持範囲をはじめとしUNDPと日本は互に協議調整が重要であることに意見が一致した。Project ManagerはUNDPからの援助が最も少ない海員学校（School for Specialized Seamen ）に対し日本の援助の必要性を強調し，船舶職員部門（Officer's field ）にはUNDPの大部分の勢力を注ぎこんでいるため日本の援助の必要性は少ない，ただし，日本側の提案した課目に関する援助は歓迎するとの意見をのべた。

調査の第2段階として，同日AMTA本部，UNDP事務所の訪問後，Sharaf海員学校長の案内で海員学校（School for Specialized Seamen）および"Venus""Ebn Maged"の海上施設，10月26日に，商船専門学校（Cadet College），Abu-Kir 新校舎建設現場の施設および教育機材を視察，各関係者と意見を交換した。

海員学校（School for Specialized Seamen）は昨年の調査に比べ教育機材の面で殆んど変らず整備充実が進んでおらず，UNDPの援助が零に近いことが判った。これにひきかえ，Cadet Collegeは，昨年に比し教育機材が格段に整備充実され，AMTAおよびUNDP Project Managerの言がよく裏付けされた。商船専門学校（Cadet College ）の関係者は，日本の援助が受けられるならば，教育機材より事前教育（Pre-sea training ）用の数百トンの小型帆船或は日本船若しくは日本によるチャータ船によるアラブ海等の訓練航海の提供を要望したが，調査団としてはこれらの要望は原則的に不可能であると返答した。

10月27日　航海大学校（College of Navigation Officer's Studies）および機関大学校（College of Marine Engineering Studies）を訪問，教育実施状況施設，教育機材等を視察，関係者と意見交換を行った。両校では，熱心かつ活発な授業を見学することが出来たが教育機材については，航海関係にやゝ整備の進歩が見られたが，機関関係は殆んど進歩がなく極めて貧弱であった。

両校の関係者に，本調査団の目的を説明し，両校の要望につき討議した結果，V－5で述べられるList of Training Aids and Equipment for Nautical Dept.

及び List of Technical Aids for Engineering Department のとおりの具体的要望が提示された。

10月28日　訓練資材部，中央図書館，海運大学校（College of Maritime Transport）を訪問した。訓練資材部では，UNDPからの機材の受入れ，一般機材の購入，教材用プリントの印刷製本，模型の製作等を行っている。中央図書館は昨年に比し整備充実が見られた。

練習船 "Aida Ⅲ" は実習生が下船し，アレキサンドリア港に碇泊中で船長，機関長の案内で船内を視察した。本練習船は客船を改造したもので一応の練習船の形体をととのえているが，教育設備は充分とは言えないと考えられる。

10月29日　AMTA本部にて調査団提出の質問状につき各項目毎の回答担当者と質疑応答を行い，ついで海運省にてH.H.EL-Sabbagh 次官と当方提出の質問状を中心に意見交換を行い，窓口の問題，日本から供与機材の受入れ，派遣専門家の所遇等につき，日本側の要望は当然であるとして，同次官は原則的に同意した。

10月30日　海員学校（School for Specialized Seamen）を再度訪問，意見交換，その後アレキサンドリア造船所を視察した。

10月31日　調査団にて，それまでの調査結果を検討した。

第3段階の調査は11月1日，AMTA本部にて，調査団は全員および小島一等書記官，AMTA側はSadek副総長，Sharaf 海員学校長およびIbrahim教育計画部長が出席し行われた。

調査団よりアレキサンドリアにおける約1週間にわたる調査の結果として次のような粗案を提示した。

1. 海員学校（School for Specialized Seaman）の技術的事項全般に対し協力および同校の整備計画および将来計画の立案の協力指導

2. 航海大学校（College of Navigation Officer's Studies）および機関大学校（College of Marine Engineering Studies）の両校に対し各々1あるいは2課につき技術的協力

1.については，現在のAMTAの同校がアラブ諸国の海員学校のモデルスクールとして計画されている事を評価し，日本の技術協力のアラブ各国への波及効果も

充分期待ができると考えられる。また，現在は海員の基礎的訓練の場としているが，将来は例えば同校卒業後約2年間の海上履歴をもつ者に対し，同校に上級コースを設立し，再教育訓練を行ない初級士官的な乗組員を養成し，かつ船舶職員への道を設定する。さらにこれらを法的に制定するという大きなプランがあり，学校の教育的整備，制度的整備のため可及的すみやかな日本の協力を強く要望している。

調査団は，海員学校（School for Specialized Seamen）につき，AMTAにおける同校の重要性，現状，問題点，将来計画等につき別添資料Ⅶ－7調査団よりのAMTAに対する追加質問状を提出し，これにつき討議した。

アラブ諸国の内，イラクはすでに海員学校を有しており，リビヤ，クェートなどが海員学校の設立を考えている。総じて人口が多く貧しい国が海員養成を，人口が少く富める国が船舶職員の養成を目ざしているようである。

AMTAは海員学校（School for Specialized Seamen）の重要性を充分認識している。現在エジプトでは非常に簡単に船員証明書（Seamen Passport）が発給され，これが海員学校（School for Specialized Seamen）の現在員が定員をわっている一因であるが，近い将来船舶証明書（Seamen Passport）に対する試験規制をきびしくし，当校を卒業しなければこれを取得できないようにし，また部員のレベルを国際的なものにまで引き上げたいと考えている。

2.については，自動制御やタンカシステム等があげられ，日本人専門家は供与機材についての課目の設定に責任を持ち，さらに一般的に航海，機関のカリキュラム等の編成に助力することが要求された。両校の要望する課目については優先順位をつけて後ほど提示されることになった。

日本人専門家の所遇については，同専門家はアラブ側カウンターパートを指導し，同リーダは，AMTA総長および教育担当副総長と協議しながら勤務し，かつ総長に直接意見を言うことができ，日本人専門家はＵＮ専門家と同等に待遇されることが明らかになった。

つぎにAMTA側より練習船の供与の要望が出されたが，これに対し現在のわが国のルールでは不可能と答え，更にAMTA側より一定期間の練習船の貸与の申し

入れがなされた。また日本側より日本の供与機材はアレキサンドリヤにCIFにて送られ，その時点でエジプトの財産となることが説明された。

第4段階の調査は翌11月2日AMTA本部で前日と同じメンバーで行われた。調査団より，今回の調査の結論として次の事項が提示された。

1. 海員学校（School for Specialized Seamen）の技術的事業全般に対し協力及び同校の整備計画ならびに将来計画の立案の協力指導

2. 航海大学校（College of Navigation Officer's Studies）および機関大学校（College of Marine Enginiering Studies）の両校に対し各々1あるいは2課目につき技術的協力

ただし，2.については両校より優先順位をつけたリストが提出されたがAMTA側の要望の課目，たとえばディーゼル推進機関シミュレーター（Diesel Propulsion Plant Simulator）については現在日本でも開発途上で，機種，価格も多種多様で，数億円以上のものから数百万円のものまであり，予算とも関係あること，又シミュレーターによる教育効果も議論の最中で評価が確定されていないことなどの理由で，即時に決定できない旨を申し入れた。AMTA側から提示された優先順位を参考に，日本に持ちかえり検討の上決定する。できればAMTA側より日本へ派遣された関係者が日本の船員教育の現状，教育機材の開発状況を視察調査の上協議して決定したいと考える。

日本側より本調査団の報告は，帰国後JICAに提出され，この報告をもとにして関係当局は最終案を作成し，1976年度の早期に実施調査団がエジプトに派遣され，合意議事録に署名されるという手続きにつき説明を行った。

AMTA側より次の事項につき要望がなされた。

1. AMTA商船専門学校（Cadet College）の海上訓練課程の学生20～40名を12～18ケ月の期間，日本の練習船あるいは商船で訓練させること。

2. 日本の船員養成機関の各学校，大学校の現状視察，船員制度の研修等のため近い将来にAMTAの各学校の責任者4～6名を2グループに分けて日本を訪問させること。

調査団はこれらの要望に対し1については慣習の相違，労働事情などから困難で

ある。2.についてはさほど困難でなく，正式な外交ルートを経て要望すべきであるとし，1，2とも帰国後関係者と協議することとした。

以上をもってAMTAに対する本調査を終了した。ついで，UNDPのProject Managerを訪問し，今回の調査の結論を伝え，かつUNDPのAMTAに対する将来計画を問い，前述のとおりの返答を得た。

締めくくりとして，11月3日AMTA総長および海運省H.H.EL-Sabbah次官を尋ね，今回の調査結果を報告，調査に対する全面的協力に謝意を表した。

V－4　海員学校（SCHOOL FOR SPECIALIZED SEAMEN）についての問題点

V－3協力プロジェクト選定に至る経緯において述べてきたが，海員学校（School for Specialzed Seamen）については，他の教育機関に比較して著しくその整備がおくれている。また生徒数も定員そのものが少なく感じられる上に，IV－6で述べたように実際の入学生の数も少ない。そこで改めて本校について，AMTAの考え方を確認し，問題点を整理して以下に示すことにする。

(1)　本校の重要性に関するAMTAの見解

1）商船専門学校（Cadel College）では毎年約50名のエジプト人学生が授業を受けていることをも考え併せ，エジプト商船においては，毎年200名の部員が必要であると思われる。また，この他に海上経験を有する初等士官（Petty Officer）100名に対する再教育も必要であると考えている。

2）国際的な標準に，そしてかつ新しい船に対応でき，また安全基準を充足させるよう，現在の乗組員を訓練することも重要である。

3）海員学校（School for Specialized Seamen）はIMCOから僅かな援助を受けているにすぎない。Capt M Zakaullahも，日本の調査団に対してもこの点を強調して述べ，また部員の教育訓練に対して援助がなされるよう依頼をしている。

4）如何なる船員証明書（Seamen Passport）も，海員学校（School for Specialized Seamen）における予備（Pre-sea）コースに参加しない限り発給されるべきではないということを趣旨とする提案が海運省に対してなさ

れることになろう。

(2) 生徒数の実態に対するAMTAの見解

現在，在校生の実人員は定員に達していない。この点について，将来の計画等を確認することは重要な事項であるので，次にAMTAの見解を示す。

1) 定員に満たない理由として

i 現行の法律では，船員証明書（Seamen Passport）の発給の際に，AMTAにおける予備訓練が条件とはなっていない。

ii 上級昇進についての再教育制度及び法令等の不備。

iii 学校において，寮設備（全寮制度）が採用されていない。

などが掲げられる。

2) 在学生は，極く僅かな例外を除くと，ほとんどの者がエジプト国籍である。

3) 新規生徒の推定数については，毎年200名と思われ，昇進コースに対しては100名と期待される。また，その国籍は主としてエジプトであると思われるが，相当数の者がリビア，シリアおよびスーダンからも期待されている。

(3) 新校舎の敷地

本校の整備・拡充の基本となる新校舎の敷地については，2ケ所の提案があり，海運省との間で細部について調整がなされている状況にある。

1) 環境として，斯様な学校を設けるには最適である現在の西港に3階建の新しい建物を建造する。

2) Abu-Kirの新校舎に近いEl MontanaのYouth Clubの裏手で，海岸から400mの場所に新しく建設する。

(4) 建造計画と要目

1) 建造計画は海運省と細かく調整し，完全なものが上述の2候補地について作られることになる。

2) 提案されている要目は次のとおりである。

施　設　名	床　面　積（㎡）	個　数
教　室	50	12
電気関係工場	300	1
機械関係工場	300	1
運用実験室	200	1
講　堂		
管理室		
娯楽室		
厨　房		
食堂および生徒寮		
防火訓練所		
荷役装置		
図書館		
倉　庫		

3) 諸施設については，AMTAにとってみれば近代的な施設の整備されている13の海員学校を有し，その経験も深い日本が，AMTAに対して専門家の派遣，研修生の受入れ，諸設備，予備（Pre-sea）訓練および昇進課程（up-grade course）についての異なった方式，などを含む完全な将来計画のために最善のアドバイスを行ってくれるものと確信している。

(5) 本校のコース拡張計画について

1) 現在のコース（Pre-sea）に継続されるものとして，先に述べたコース（up grade）を考えているが，さらに新しい拡張計画については，目下検討中である。

2) 法改正については，前に述べた定員の充足・拡充問題とも関連するが，船員証明書（Seamen Passport）の発給と昇進に関する法改正を実施すべく海運省と調整を行ない，近い将来に実現されるものと思われる。

6) 卒業生の就職状況，給料について

1) アラブの商船隻数は，相当増加しつつある。したがって就職の機会も，これから多くなるものと考えられる。

2) 給料については，国により，また会社により異なるものである。Egyption Navigation Company においては，本校の卒業生は約45 L.E. の給料であり，一般の Seamen は15～20L.E. が標準である。

V－5 航海大学校(College of Navigation Officer's Studies)と機関大学校(College of Marine Engineering Studies)からの提案

両校から提案された日本の技術協力の具体的な範囲内容は次のとおりである。

1) 航海大学校(College of Navigation Officer's Studies)

要望課目としては，①タンカーシステム(Tanker System)と，②船体構造と安全性(Ship Construction and Stability)とがある。

①はタンカー運営(Tanker Operation)のみに限定しているが，日本の協力形態としては，一般の雑貨およびバラ積みの分野等を入れて，タンカーを含めた荷役システム全般とし，シミュレーターは，タンカーシステム(Tanker System)に対して，教育機材(Training Aid)はその他のものに対し供与することが考えられる。

タンカーシステム(Tanker System)のシミュレーターは現在種々のものが開発され，多くの教育機関で使用されている。

②については，①の教育・訓練を確実にするために船体構造に関する知識が必要となるので，荷役関連装置にとどまらず，船体の構造，強度，復原力などに関する教育機材の供与を考慮しなければならないであろう。

2) 機関大学校(College of Marine Engineering Studies)

要望課目としては，①ディーゼル推進機関シミュレーター(Diesel Propulsion Plant Simulator)，②自動制御装置(Automatic Control System)③発電機シミュレーター(Electrical Generating Plant Simulator)があげられている。

①は，実機，操作盤およびコンピュータ等よりなるもの，実機はなくコンピュータ，操作盤等よりなるもの等多種多様のものがある。②については，電気式，空気式，油圧式のもの，制御対象として温度，圧力，流量等および遠隔操作等があり，これらは教育機材として単体のものであり，①のシステムの中に組みこむことも可能である。③については，このようなシミュレーターはまだあまり日本においても見られず，発電機2台の実機を備え，操作盤，コンピュータよりなるもの等が考えられる。発電機の運転教育訓練用として，同期投入負荷撰択等の教育訓練があるが費用の割には有意義なものとは思われない。

①，②，③を総合してみると①，②は必要性，費用効果等から見て充分現実性がある。③の教育機器の供与についてはなお検討の余地がある。

List of Technical Aids

for

Engineering Department

I. Training Aids:

1) Diesel Propulsion Plant Simulator.
2) Automatic Control System.
3) Electrical Generating Plant Simulator.
4) Films, slides and models and drawing dealing with various topics in Engineering subjects.

II. Experts:

Experts and instructors for installation and training on the above mentioned equipment.

III. Fellowships:

Automatic Control Systems	2 Junior Lecturers 6 months
Marine Diesel Engine Manufacture	1 Senior Lecturers 3 months
Technology of Shipbuilding	1 Junior Lecturer 6 months
Study of systems of certification and Examinations in Japan	Head of Department 1 month

List of Training Aids and Equipment

for

Nautical Department

I. Tanker Systems:

- Simulator for oil tanker operations, loading discharging and ballasting, gas freeing.

II. Ship Construction and Stability:

- Stability and trim indicator
- Stress finder "for ship's stress"

III. Training Aids:

- Models for tanker pumps, rotary and reciprocating
- Models for different cargo gears aboard ships derricks, swinging cranes, jumps derricks, lash crane, a model for shore container crane, and struddle car.
- Plastic (or any other material) cross section of midship section, longitudinal section for demonstration containing full of different component of structure of following system "Transverse, longitudinal and combined".
- Any available films, slides, sheets, models and drawings which are used in Japanese Maritime Institutes in the following subjects: Physics, Electronics, Magnetism and Electricity, Chartwork and Tides, Astronomical and Electronic Navigation, Stability, Ship Construction, Dry Cargo Handling, and stewage unitisation as pallets containers, lash and Ro/Ro, Liquid cargoes handling, Meteorology, Automation and Control System Aboard Ships.
- Any films, slides, sheets etc.... showing the following subjects: Lowering a life boat in bad weather

Handling a life boat in bad weather for rescue
Approach a wreck at bad weather
Safety, Firefighting, Damage Control
Collision Preventing Rules.

- Films, slides etc. For L.P.G., L.N.G. handling and tanks maintenance and cooling.
- Film, slides etc. on Damage Control on board ship "after collision, strading".
- Gyro compass model cross section or open model

IV. Experts:

Experts in the following subjects are needed:

1. The operation of the liquified Gas Carriers; Carriage, Transportation and handling liquified natural gas and liquified petroleum gan cargoes.
2. To lay down the syllabus, planning of Courses and teaching aids required in the courses. To instruct and train the teaching staff specialized in nautical subjects.

The proposed short courses are:

1. The carriage of liquified gas cargoes
2. The carriage of chemical cargoes in bulk
3. Modernization in shipbuilding and shipyard practice.

V. Visits:

Visits to gain knowledge of methods used for teaching and training in the Japanese Maritime Institutes in Japan and to see the teaching aids employed.

Ⅵ　生　活　環　境

アレキサンドリアは，人口約200万人を有するエジプト第二の都市で，地理的にはカイロの北方約210 km に位置し，地中海に面し又，近くにアラメイン等の第二次世界大戦の戦跡等を有するため夏には（６～８月）にはエジプト国内のみならず，他のアラブ諸国，ヨーロッパからも観光，保養客が訪れ「地中海の真珠」と呼ばれるリゾート都市である。

又地中海に面しているため，商業都市としての性格をも有し，更には造船業，石油化学工業都市の役割をも果している。気候は，夏には非常に暑いものの，地中海より風が吹き，冬は日本の10月位の気候で天気がぐずつくものの非常にしのぎ易い気候である。

1.　交　通

空港はないため，必然的に鉄道及び車に依存せざるを得ない。鉄道は特急でカイロから約210km　約２時間半で毎日数本の列車がカイロより出ており，一等，二等，三等にわかれている。

車はカイロから約３時間で，道路は舗装されており比較的良好とのことでバスも利用できる。

2.　医　療

アレキサンドリアには総合医科大学があり，その他歯科，眼科医等の開業医の医療サービスも容易に受けられる。

3.　学　校

アレキサンドリアには，日本人学校はないものの小学校から英語，仏語で授業をするプライベートスクールが数校ある。

学制は日本と同様６－３－３－４制を採用し，小・中学校は午前，午後の二部制により授業が行なわれており，小学校６年間は義務教育である。ちなみに，英語で授業をするプライベート・スクールの学費を例にとると，小学校は年40～50 L.E.（25,000円前後），中学校は約90L.E.（約４万５千円前後）で，いず

れも教科書代込みで，年三回の分割払いも利用できる。

その他，アレキサンドリアには15の学部及び研究所を有するアレキサンドリア大学がある。

4. 生活費

(1) 住宅費

家具，電話付の住宅で大体60～100L.E.とカイロと比較して非常に安く，通常敷金1カ月，前家賃1～2ケ月払うだけで借りられ，敷金は退居時に返還されるとのことである。

ちなみに，UNDPの専門家の例をとるとプロジェクト・マネージャーは月65L.E.，ILOの専門家はフラットで6部屋（寝室3，バスルーム2）の場合，月75L.E.である。住居の斡旋はAMTAが行なってくれるとのことである。

(2) 傭人費

運転手は月30L.E.女中は月15～20L.E.で，通常住込みはせず通いである。

5. 物　価

物価は，食料，衣類，靴等も安く比較的容易に入手できる。食料に関しては，米，野菜，魚貝類とも新鮮で非常に安く，米は特に臭い等なく，炊き方によってはほぼ日本米と同様であり，特に魚についてはエビ，カニ，鯛，イカ等容易に安く入手できる。

調味料では，醤油は入手困難であるが，塩，砂糖等は比較的入手容易である。大体，生活費は1日7～10L.E.（5,000円前後）もあれば充分な生活ができるとのことである。その他に関しては，革靴が大体5L.E.（2,500円前後），衣類は少数の下着等を除いては充分にあり容易に入手できる。

Ⅷ　別添資料

Ⅶ－1　調査団より海運省に対する質問状

The Japanese Survey Team is interested in the Following points, which will have to be clarified for formulating the Japanese Technical Cooperation

1. Egyptian Authority to take the full responsibility in concluding the Record of Discussions with the Government of Japan.
2. Egyptian Authority to undertake the responsibility for receiving the Machinery and Equipments provided by the Government of Japan.
3. Egyptian Authority to take necessary measures to bear customs duties, internal taxes, domestic transportation fee and other charges for the Machinery and Equipment provided by the Government of Japan.
4. Egyptian Authority to which the Japanese Experts are to be assigned.
5. Qualification and class of certificate of competency in seamanship.
6. Qualification and class of other certificates.
   (ex. license of radar simulater, marine engineer, etc.)
7. Materials and Data
   (1) Organization of the Ministry of Maritime Transport.
   (2) Organization of Administrative Office.
   (3) Relationship between Egiptian seamen training programme and AMTA.
   (4) Seamen training programme of Arabian countries.
   (5) Current Marine transportation system and its improvement programme of Arabian countries.

Remarks

a) Privileges, exemptions and benefits.
   Privileges, exemptions and benefits should be no less favourable than those granted to Experts of third countries or of International Organizations such as the United Nations.

b) Status and Position of the Japanese Experts.
   Status and Position held by the Japanese Experts should not be lower than those held by experts of third countries or of International Organizations such as the United Nations.

Ⅶ－２　海運省からの回答

E. A. R.

MINISTRY OF MARITIME TRANSPORT
4, PTOLEMY STREET,
ALEXANDRIA

Answers of the questions given by the Japanese Survey Team for technical cooperation:

1. Ministry of Maritime Transport (M.M.T.) will take full responsibility in concluding the Record of Discussion with the Government of Japan.

2. Egyptian (M.M.T.) will undertake the responsibility for receiving the Machinery and Equipments provided by the Government of Japan.

   Nevertheless (M.M.T.) may delegate A.M.T.A. as their technical agent in receiving the mentioned Machinery and Equipment.

3. Egyptian (M.M.T.) will take necessary measures to bear customs duties, internal taxes, domestic transportation fee and other charges for the Machinery and Equipment provided by the Government of Japan.

4. Egyptian (M.M.T.) will be the authority to which the Japanese Experts are to be assigned. Those experts may be subject to the supervision of Director General A.M.T.A. as the technical agency for training in M.M.T.

   They may have their offices in A.M.T.A. buildings and will accept running regulations and conditions applied there in connection with UN Experts.

5. Qualification of Deck Officers is carried out by A.M.T.A. in 4 standards, namely:

Cadet College	2 years course
Second Mate Course	6 months
First Mate Course	6 months
Master	6 months

Hamdy El Salhagh

U.A.R.
MINISTRY OF MARITIME TRANSPORT
4, PTOLEMY STREET,
ALEXANDRIA

Certeficates are issued by Egyptian authorities after examinations carried out in close co- operation with A.M.T.A. provided condidates satisfy regulations concerning medical examinations and Seaservice.

6- Licence of radar simulator course, is given by A.M.T.A. and accepted by Egyptian Maritime authorities.

Marine Engineering qualification is carried out by A/M.T.A. in two standards, namely, second engineer and first engineer, to the standard common in U.K.

Certeficates are issued by Egyptian Maritime authorities after examinations carried in close co-operation with A.M.T.A.

7- (I) Organisation of the Minstry of Maritime Transport enclosed.

(2) Organization of adrministrative office enclosed.

(3) A.M.T.A. is supposed to carry out all seamen training for Egyptian fleet and ports.

M.M.T. will stop all other activities concerning training of seamen as soon as the planned school starts giving courses.

(4) Seamen training programme in arabian countries is carried out by A/M.T.A., information is available there.

(

Hamdy El Sallab

E. A. R.

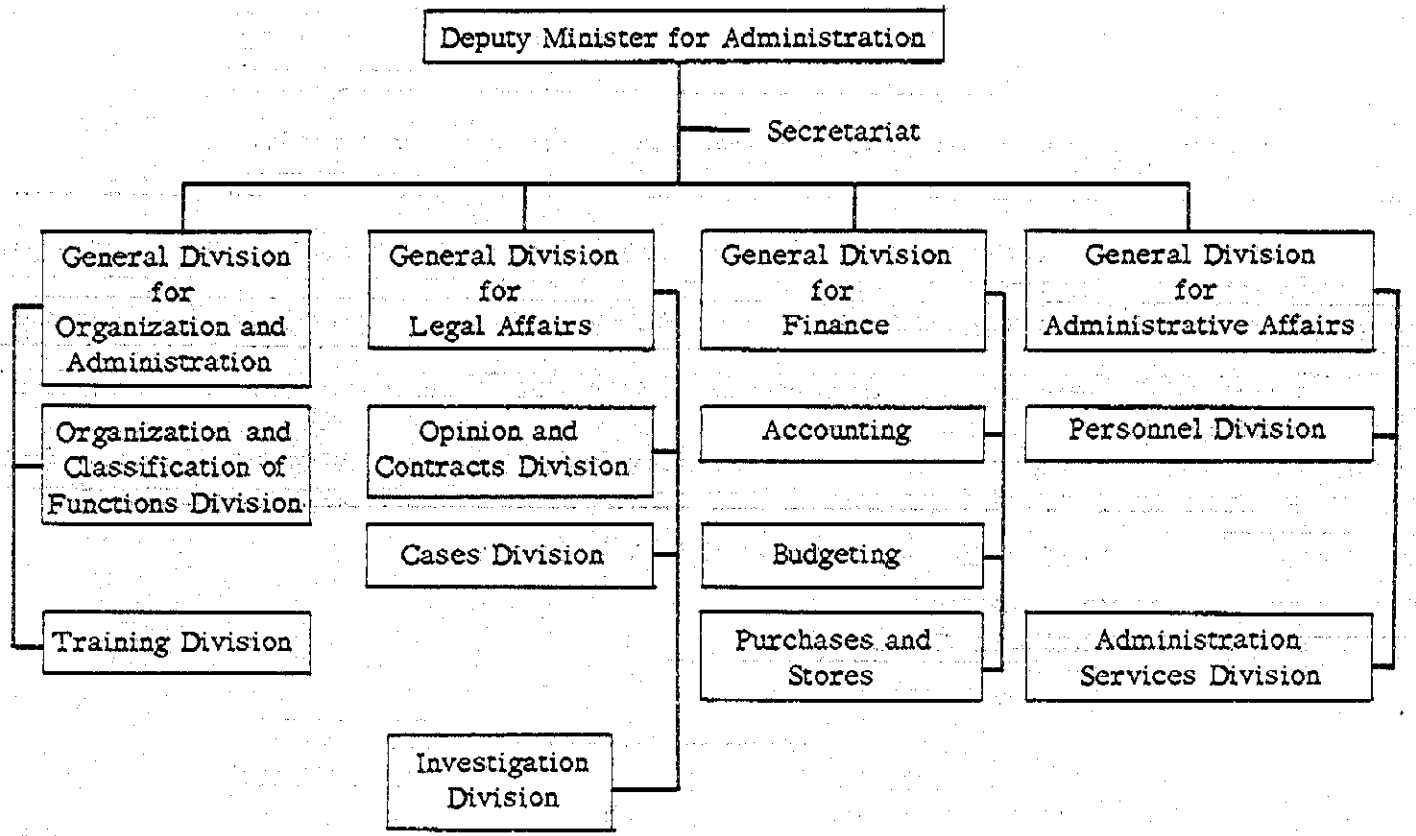
MINISTRY OF MARITIME TRANSPORT
4, PTOLEMY STREET,
ALEXANDRIA

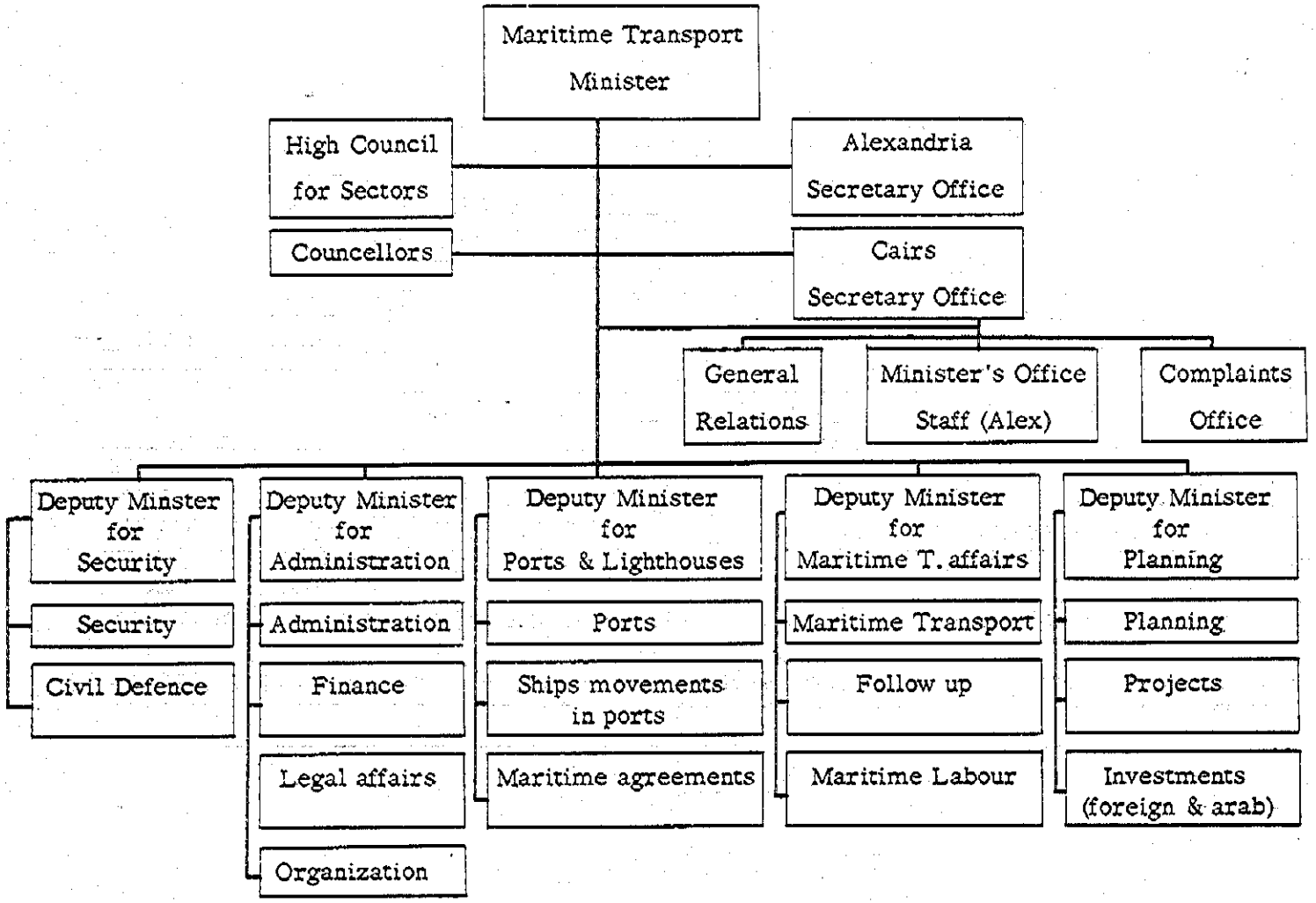
(5) Information is not at hand, M.M.T. may discuss the matter with A.M.T.A. and inform when available.

REMARKS

a) Privilieges, exemptions and benefits will be no less favourable than those granted to Experts of third countries or of International Organizations such as United Nations.

b) Status and position held by the Japanese Experts will not be lower than those held by experts of third countries or of International Organizations as the United Nations.


Deputy Minister for Administration
Secretariat
General Division for Organization and Administration
Organization and Classification of Functions Division
Training Division
General Division for Legal Affairs
Opinion and Contracts Division
Cases Division
Investigation Division
General Division for Finance
Accounting
Budgeting
Purchases and Stores
General Division for Administrative Affairs
Personnel Division
Administration Services Division


Maritime Transport Minister
High Council for Sectors
Councellors
Alexandria Secretary Office
Cairs Secretary Office
General Relations
Minister's Office Staff (Alex)
Complaints Office
Deputy Minster for Security
Security
Civil Defence
Deputy Minister for Administration
Administration
Finance
Legal affairs
Organization
Deputy Minister for Ports & Lighthouses
Ports
Ships movements in ports
Maritime agreements
Deputy Minister for Maritime T. affairs
Maritime Transport
Follow up
Maritime Labour
Deputy Minister for Planning
Planning
Projects
Investments (foreign & arab)

Ⅶ－3　調査団よりのAMTAに対する質問状

The Japanese Survey Team is interested in the folloving points concerning the AMTA.

1. Information on existing colleges
   1. Location
   2. Date of inauguration
   3. Objective & Character of establishment
   4. Curriculum of each course (Present curriculum and future programme)
   5. Teaching staff. (by country and course)
      (1) Local staff,
         (a) Qualification and number of Lecturers
            (present and future programme)
         (b) Qualification and number of Instructors
            (present and future programme)
      (2) UNDP experts,
         (a) number of Lecturers and Instructors
            (present and future programme)
      (3) Training programme under the UNDP and other country's fellowship.
         (including achievement)
   6. Student　(by course, academic year and country)
      (1) Qualification and number of Students,
         (number of graduates by year, Present and future programme)
   7. Lecture hours of each course (by subject)
      (1) Lecture hours per week and year
      (2) Practical -- Theoretical ratio
   8. Syllabus and time toble of each course
   9. Text book and teaching materials
      (ex. audio-visual facilities, etc.)
   10. Machinery and equipments
      (please indicate donors such as UNDP)
      (1) List of machinery and equipments installed
      (2) Installation and purchasing programme
      (3) Voltage and type of plug

11. Privileges of graduates
    (1) Certificate
    (2) Employment opportunities
    (3) Graduation examination
12. Budget
    (please describe as fully as possible)

II. Construction of new building at ABU-KIR

1. Location
2. Date of inauguration
3. Progress of construction
4. Construction plan
5. Integration plan of each college into Abu-Kir
6. Construction budget
7. Installation plan of Machinery and Equipments
8. Layout
9. Facilities

(1) site area m2	(2) floor area m2
(3) lecture room	(4) staff room
(5) library	(6) laboratory
(7) dormitory	(8) work shop
(9) ware house	
(10) structure of main building	
(11) structure of work shop	
(12) other facilities	

III. Project Budget covering the AMTA.(1972 - 1977, 1977-)
(please indicate the name of donors)

1. Personnel component (man-month, US$ or local currency)
   (1) lecturers
   (2) instructors
   (3) administrative support personnel
   (4) other personnel

2. Machinery and EquipmentS
   (1) expendable
   (2) non-expendable
   (3) Installation and purchasing programme
3. Training component of Lecturers and Instructors
4. Construction component
5. Miscellaneous component
   (1) maintenance of facilities
   (2) removal and transfer cost of facilities
   (3) maintenance, repair and operation of Machinery & Equipments
   (4) textbook and teaching materials
   (5) others

IV. Materials and Data
1. Organization of AMTA (including number of staff)
2. Organization of each college (including number of staff)

Ⅶ－4　AMTAからの回答

I- INFORMATION ON EXISTING COLLEGES

1. Location
2. Date of inauguration
3. Objective and character of establishment
4. Curriculum of each course (Present curriculum and future programme)
6. Student (by course, academic year and country)
11. Privileges of graduates:(1) Certificate
(2) Employment opportunities
(3) Graduation examination

ANSWERS:

(A) Cadet College

Date of inauguration: October 1974

Location: Temporary premises, Miami, Sidi Bishr

Objectives: To train Cadets for a career at sea as sea-going Navigating and Engineering Officers, and also as Radio and Radar communications officers.

The College comprises three sections:

i- Nautical Section.

ii- Marine Engineering Section.

iii-Marine Radio, Radar and Marine Electronics.

Curriculum of courses:

- Nautical Section program of training covers a period of 4 years as a sandwich pattern and is divided into 3 phases. Each year consists of 2 terms. Phase 1 lasts for 2 years and is devoted to class room instruction in basic and applied Nautical subjects and to practical training in the College Boatwork and sailing workshops and laboratories and short trips at sea. Phase 2 of the course consists of sea-service as Cadet on merchant ships for a period of 18 months. Phase 3 of the course covers a period of 6 months devoted to advanced studies in Nautical subjects.

- Marine Engineering Section program of training covers a period of 4 years of a sandwich pattern and is divided into 3 phases. Each year consists of 2 terms. Phase 1 lasts for 2 years and is devoted to class room instruction in basic and supplied Engineering subjects and to practical training in the College Workshops and Laboratories. The second phase consistsof sea-service as Apprentice Eng. on Merchant Ships covering a period of one year. The third phase is of one year's duration devoted to advanced studies in basic engineering and marine engineering and practical training in the operation and testing of marine machinery and equipment.
- Marine Radio, Radar and Marine Electronics Section programme covers a period of 3 years and is divided into two phases. Phase 1 lasts for 2 years at the end of which Cadets sit for International Maritime Radio Communication general Certificate examinations. Phase 2 lasts for one more year at the end of which Cadets sit for the Radar Maintenance Certificate and the Marine Electronic Officer Certificate examinations.

No. of Students:

1) By course

	Nautical Section	M. Eng. Section	Radio Section
Phase 1			
First year	95	117	12
Second year	61	58	--
Phase 2	38	44	--
Phase 3	53	34	--
TOTAL	247	253	12

2) By country

Jordan	41	Cadets
Emirates	3	"
Bahrain	21	"
Algeria	9	"
Saudi Arabia	31	"

Sudan	41	Cadets
Syria	10	"
Iraq	82	"
Qatar	5	"
Kuwait	39	"
Lebanon	2	"
Libya	33	"
Egypt	183	"
Yemen	2	"
South Yemen	24	"
Palestine	25	"
Somalia	1	"

Qualifications: Candidate should have obtained the General Secondary Certificate (Science Section) and should be medically fit according to the decided level.

(B) College of Navigating Officers Studies

Date of inauguration: September 1972

Location: Temporary premises

2 El Borsa Street, Manshia, Alexandria.

Objectives: To organize courses for shipmasters and Navigating Officers and to monitor scientific developments in nautical studies and keep syllabuses up to date.

Curriculum of courses:

. Preparatory courses for merchant service certificate of competency:

1- Master (Foreign going)

2- 1st Mate (Foreign going)

3- 2nd Mate (Foreign going)

These courses are held twice a year, each course lasts for 5 months

4- Short courses:

- Radar observer
- Radar Simulator
- Tanker Safety
- Medical and first aid

No. of Students:

1) By courses

Master	1st Mate	2nd Mate
26	34	55

2) By countries

Egypt	101	Candidates
Syria	9	"
Saudi Arabia	2	"
Qatar	2	"
Kuwait	1	Candidate

Qualifications:

For Masters Course: 1st Mate (F.G.) Certificate and have served at sea for a period of 2 years on a foreign going merchant ships.

For 1st Mate course: 2nd Mate (F.G.) Certificate and have served at sea for a period of one year on foreign going merchant ships.

For 2nd Mate Course: Completing theoretical study in an approved Nautical College and have served at sea for a period of 18 months; or Secondary General School and have served for a period of 4 years on foreign going merchant ships.

(C) College for Marine Engineering Studies

Date of inauguration: August 1973

Location: Temporary premises

2, Borsa Street, El Manshia, Alexandria.

Objectives: To organize courses for Marine Engineers and to maintain a high level consistent with modern developments in the field of Marine Engineering.

Curriculum of courses:

. Preparatory courses for Marine Engineering Certificates of Competency:

i) 1st class part B.

ii) 1st class part A.

iii) 2nd class part B.

iv) 2nd class part A.

These courses are held twice a year, each course lasts for 5 months.

v) Short courses:

- Fire fighting
- Tanker safety
- Automation and control Eng.

No. of students:

1) By courses

1st B	1st A	2nd B	2nd A
16	5	57	53

2) By countries

Egypt	125	Candidates
Iraq	5	"
Lebanon	1	"

Qualifications:

For 1st class Eng. part B: 1st class certificate part A; or an exemption qualification from part A with 2nd class Engineer certificate part B and have served at sea for a period of 18 months.

For 1st class Eng. part A: 2nd class certificate part B those who are not in possession of B.Sc.

For 2nd class Eng. part B: B.Sc. or equivalent Degree in Marine, Mechanical or Electrical Eng. and have served for a period of 12 months at sea.

For 2nd class Eng. part A: Secondary Technical School Certificate and have performed 48 months of sea-service or have served for 42 months in shipbuilding or ship repair yards or on power plant similar to marine power plant.

(D) College of Maritime Transport

Date of inauguration

Location: Temporary premises
21, Talaat Harb Street, Alexandria.

Objectives:To qualify specialized seamen as well as all categories of shore-based personnel for service in the maritime transport field.

Curriculum of courses:

- Diploma course in maritime studies (shipping)
- Diploma course in maritime studies (ports)
- Diploma course in maritime law
- Short courses in
  - Shipping
  - Ports
  - Personnel Management

No. of students

1) By course

Diploma course (Shipping, Ports)	33
Diploma course Maritime Law	10
Personnel Management course	30

2) By countries

Egypt	62
Iraq	4
Algeria	3
South Yemen	2
Saudi Arabia	1
Bahrain	1

(E) School of Specialized Seamen

Date in inauguration: May 1974

Location: West Harbour, Alexandria.

Objectives: The School is concerned with providing initial basic training for Deck Ratings, Mechanics and Electrical Ratings necessary for technical service in maritime transport sector.

Curriculum of courses:

- Basic course to prospective Deck Ratings with no experience to prepare them to service on board ships.
- Basic training course for prospective mechanics
- Basic training course for prospective electrical ratings

Course of Deck Ratings lasts for 14 weeks, mechanics 20 weeks and Electrical 20 weeks. The courses are held twice a year.

No. of students:

1) By course

Deck Ratings	10	Candidates
Electricians	13	"
Mechanicians	12	"

2) By country

Egypt	33
Jordan	1
Sudan	1

Qualifications:

i- Secondary School General Certificate (Scientific Section)

ii- Secondary Fakmi Technical School Certificate.

11. Privileges of graduates

(1) Certificate

(A) Cadet College

a- Certificate of completing the study in Nautical Section which awards graduates Competency Certificate as Second Mate (F.G.) by Ports and Lights Authorities.

b- Certificate of completing the study in Marine Eng. Section which awards graduates Competency Certificate as 2nd class Engineer by Ports and Lights Authorities.

c- Certificate of completing the study in Radiocommunication Section which awards graduates Radio communication Certificate by Telecommunication Organization Authorities.

(B) College for Navigating Officers Studies

Certificate of passing the examination for Master, 1st Mate, 2nd Mate, (F.G.) Certificates which awards graduates their Certificates of Competency by Ports and Lights Authorities.

(C) College of Marine Engineering Studies

Certificate of passing theexamination for 1st class Engineer Part B, Part A, and 2nd class Engineer part B, and part A, which awards graduates their Certificates of Competency by Ports and Lights Authorities.

(D) College of Maritime Transport

- Diploma Certificate in Maritime Transport (Shipping - Ports).
- Certificate of passing a training course in shipping, ports, management.

(E) School of Specialized Seamen

- Certificate of completing the course for Deck, Ratings, Mechanicians, Electricians.

(2) Employment Opportunities

(A) Cadet College

(B) College of Navigating Officers Studies

(C) College of Marine Engineering Studies

Graduates for these Colleges have their opportunity of employment and jobs equivalent to their competency certificates on merchant vessels. Graduates have no problem to take their opportunity of employment because most of them are sponsored on behalf of Marine Authorities and Companies.

(D) College of Maritime Transport

Participants for the training courses of the College are all sponsored on behalf of Marine companies.

(E) School of Specialized Seamen

Trainees have their opportunity for employment in shipping companies

(3) Graduation Examination

(A) Cadet College

(B) College of Navigating Officers Studies

(C) College of Marine Engineering Studies

Graduation exam, for these Colleges are held by the Academy with the participant of:

a- UNDP Experts

b- Part-time lecturers from Arab Universities

c- Representative of Ports and Lights Authorities

(D) College of Maritime Transport

Graduation exam for Diploma Course is held by the College staff with the participant of UNCTAD Experts and part-time from Arab Universities.

Exam for other programmes is held internally

(E) School of Specialized Seamen

Graduation exam is held internally by the School staff

DISTRIBUTION OF STUDENTS ON FIELDS
OF STUDY, 72/73 -
74/75

Field of study / Year	Cadet College	College of Navigating Officers St.	College of Marine Eng. Studies	College of Maritime Transport	School of Specialized Seamen	Total
72 - 73	153	132	16	365	67	733
73 - 74	211	159	31	328	114	843
74 - 75	352	204	113	291	67	1027

NUMBER OF GRADUATES

Field of Study / Year	Cadet College	College of Navigating Officers St.	College of Marine Eng. Studies	College of Maritime Transport	School of Specialized Seamen	Total
72 - 73	---	86	8	365	---	495
73 - 74	72	97	23	328	114	649
74 - 75	85	93	50	288	61	577

NO. OF STUDENTS ENROLLED AND THEIR

COUNTRIES, 72/73-
74/75

YEAR / COUNTRY	Jordan	Emirates	Bahrain	Algeria	Saudi Arabia	Sudan	Syria	Iraq	Qatar	Kuwait	Lebanon	Libya	Egypt	SouthYemen	Palestine	TOTAL
72 - 73	-	-	-	-	5	8	-	30	-	27	-	97	548	8	10	733
73 - 74	-	-	2	1	17	1	11	48	-	29	1	128	579	6	20	843
74 - 75	35	4	24	9	39	5	25	70	11	55	3	31	640	43	23	1027

1. Information on existing colleges
   5. Teaching staff -by country and course)
      (1) Local Staff
         (a) Qualification and number of Lecturers (present & future programme)
         (b) Qualifications and number of Instructors (present & future programme)

ANSWERS

The Staff of the Academy according to Departments& Nationalities

S.N.	Department	No. of Lecturers according to Nationalities				Total	Remarks
		Egyptian	Syrian	Jordanian	Sudanese		
1	Dept. of Nautical Stuiies	19	-	-	-	19	
2	Dept. of Engineering St.	33	-	-	2	35	
3	Dept. of Scientific subjects	16	1	-	-	17	
4	Dept. of Radio & Electronics	5	-	2	-	7	
5	College of Maritime Transport	10	-	-	-	10	
	Practical Training	2	-	-	-	2	
7	Students' Affairs Dept.	4	-	-	-	4	
Tot		89	1	2	2	94	

The staff according to qualifications:

1- B.Sc. Nautical Studies	4
2- Masters	21
3- Bachelor of Engineering	34
4- Bachelor of Science	4
5- Master	4
6- Doctorate	6
7- Others	13
	94

Members of Teaching Staff: (1978)

	No. required	Existing	Vacancies
Lecturers	162	94	68
Trainers	41	16	25

I. Information on existing colleges

5. Teaching staff

(2) UN experts

(a) Number of Lecturers and Instructors

ANSWER:

Refer to U.N. contributions

I. Information on existing colleges

5. Teaching staff

(3) Training programme unler the UNDP and other country's fellowships (including achievement)

ANSWER

Fellowships who are abroad

Name	Date of arrival	Certificate	Institute	At the expenses of
O.A. Gelil	July 76	B.S.c. in Maritime Studies	UWIST - Cardiff	Academy
R.M. Rashad	July 76	B.Sc. in Maritime Studies	UWIST - Cardiff	Academy
H.M. El Nadoury	June 77	B.Sc. in Maritime Studies	Plymouth Polytechnic	Academy
R.M. Rashad	June 77	B.Sc. in Maritime Studies	Plymouth Polytechnic	Academy
M.K. Ragab	June 77	B.Sc. in Maritime Studies	London Polytechnic	IMCO
A. El Bendary	Aug. 77	M.Sc. in Nautical Sciences	SUNY - New York	Academy
A.M. Salama	Aug. 76	Ph.D. in Marine Engineer.	Southampton University	Academy
W.A. Habeeb	Feb. 76	1st Class Engineer	Hackney College - U.K.	Academy
F.M. Arafa	Feb. 76	1st Class Engineer	Hackney College - U.K.	Academy
F.H. Assal	July 76	1st Class Engineer	South Shields Marine & Technical College	Academy
M.E. Morsy	July 76	1st Class Engineer	" " " "	Academy
M.H. Khanki	July 76	1st Class Engineer	Hackney College - U.K.	IMCO
S. Odeh	Sept. 76	M.Sc. in Electronics	UWIST - Cardiff	Academy
O. El Hassan	April 76	Diploma in Management Studies (shipping)	Plymouth Polytechnic	Academy
S.S. Mira	Sept. 76	M.Sc. in Shipping Economics and Management	SUNY - New York	UNCTAD
M.I. Farid	Sept. 76	" " " "	SUNY - New York	UNCTAD
A.M. Nahas	Sept. 76	M.S.c. in Management & Economics of Ports	UWIST - Cardiff	UNCTAD
M. Bakr	Dec. 77	Ph.D. in English Language	UWIST - Cardiff	Academy
A. El Ghanem	Aug. 77	Eng. Language & Diploma in Maritime Transport	UWIST - Cardiff	Academy
A. Azab	Sept. 77	M.Sc. in Maritime Trans.	UWIST - Cardiff	own exp.
O.M. Gaafar	Oct. 76	M.Sc. in Marine Eng.	Glasgow	" "

Fellowships who have returned

Name	Date of arrival	Certificate	Institute	At the expenses of
I. Mansour	13/8/75	Extra Master	London Polytechnic	Academy
A. Saleh	March 75	Diploma in Marine Electronics	Plymouth Polytechnic	Academy
A.A. Kadery	3/9/75	Extra Master	London Polytechnic	IMCO
M.F. Farid	28/7/75	Extra Master	London Polytechnic	IMCO
A. Tawfick	27/6/75	Diploma in Administration of Shipping & Ports	UWIST - Cardiff	UNCTAD
A.R.I. Rashad	27/6/75	" " " " "	UWIST - Cardiff	UNCTAD
H.R. Sayegh	9/7/75	Diploma in Maritime Tran-	Norway	NORAD

Fellowships who are imminent to arrive

Name	Expected date of arrival	Certificate	Institute	At the expenses of
M.R. El Malt	November	M.Sc. Ship Production Technology	University of Strathclyde - Glasgow	Academy
A.M. Danish	November	M.Sc. in Ports	UWIST - Cardiff	own exp.

One last fellowship is Mr. H. Osman who is preparing for his M.Sc. in Maritime Transport at UWIST - Cardiff, at the expnses of UNCTAD is actually here in Egypt for a few months to collect data concerning his thesis.

1. Information on existing colleges

2. Text book and teaching materials

- Accounting,
  See also :
  Cost accounting
- Adventure and adventures.
  See also :
  Shipwrecks,
- Aeronautics.
- Air Conditioning,
  See also :
  Refrigeration and refrigera - ting machinery.
  Ventilation.
- Air pilots Legal status, Law, Etc,
- Algebra.
  See also:
  Logarithms,
  Mathematics,
  Numbers.
  Probabilities.
  Theory of.
- Aluminium structural.
- Arab language-Dictionaries-English.
- Arithmetic.
  See also:
  Algebra.
  Calculus.
  Mathematics.
- Assembly-Line methods.
- Astronautics.
- Astronautics-Dictionaries.
- Astronomy.
  See also:
  Nautical almanacs.
  Nautical astronomy.
  Planets.
- Atlases.
- Atmosphere.
- Atomic ships.
- Audio visual education.
- Automatic control.
- Average (Maritime law).
- Banks and banking.
- Bills of Lading.
- Boat building.
  See also:
  Ship building.
  Yachts and yachting.
- Boats and boating.
  See also:
  Boatbuilding.
  Sailing.
  Ships.
  Yachts and yachting.
- Boilers.
  See also:
  Steam engines.
- Boilers, Marine.
  See also:
  Marine engines.
  Steam navigation.
- Business.
  See also:
  Accounting.
  Banks and banking.
  Commercial law.
  Marketing.
- Business cycles.
  See also:
  Depressions.
  Economic conditions.

- Business enterprise.
- Business Letters.

↔ Calculus.
See also:
Mathematics.

↔ Capitalism.
See also:
Economics.
Labor and laboring classes.

- Carbon.

- Cargo handling.

- Charter-Parties.

- Chartering.

- charts.
See also:
Maps.
↔ Chartwork.
↔ Chemistry.
↔ Chemistry, Analytic.
↔ Chemistry, Inorganic.

- Clauds.
↔ Coding digital computers -programming.
- Combustion.
See also:
Heat.
Thermodynamics.

- Commerce.
See also:
Banks and banking.
Business.
Free trade and Protection.
Insurance, marine.
Transportation.

↔ Commerce-dictionaries.

↔ Commerce - Terminology.

- Commercial correspondance.
- Commercial Law.
See also:
Maritime law.

- Commercial Policy.
See also:
Free trade and protection.
International economic relations.

- Commercial Products.
See also:
Geography, Commercial.

- Communication.
See also:
Shipping.
Telecommunication.
Trade routes.
Transportation.

↔ Compass.
See also:
Navigation.
↔ Computer, Fortran IV .

- Computer science.
- Containerisation.
↔ Contracts, Maritime.

- Control system.
- Cost accounting.
See also:
Accounting.

- Crystallography.

- Depressions.
See also:
Business cycles.
Economics.

- Diesel engines.
See also:
Engines.
Gas and oil engines.

- Docks. See also: Harbors.

- Drawing-engineering.

- [illegible]
  See also:
  Mechanics.
  [illegible].
  Statics.
  Thermodynamics.

- Dynamics, Mechanics

- Economic conditions.
  See also:
  Business cycles.
  Economic policy.
  Geography, commercial.
  Geography, economic.
  Natural resources.
  Statistics.
  Underdeveloped areas.
- Economic development.
- Economic geography.

- Economic policy.
  See also:
  Commercial policy.
  Free trade and protection.
  International economic relations.

- Ecocomics.
  See also:
  Business.
  Commerce.
  Depressions.
  Economic conditions.
  Economic policy.
  Free trade and protection.
  Labor and laboring classes.

- Economics-Dictionaries.
- Education.
- Elasticity.

- Electric apparatus and appliances.

- Electric circuits.

- Electric engineering.
  See also:
  Electric apparatus and appliances.
  Engineering.
  Mechanical engineering.

- Electric industries.

- Electric machinery.
  See also:
  Electric apparatus and appliances.
  Electric engineering.

- Electric waves.

- Electrical measurement.

- Electricity.

- Electricity on ships.
- Electromagnetic theory.
- Electronic circuits.
  See also:
  Electric circuits.
  Electronics.

- Electronic computers.
  See also:
  Information storage and retrieval systems.

- Electronic data processing system.

- Electronic engineering.

- Electronic measurements.

- Electronics.
  See also:
  Electronic ciruits.
  Electronic computers.
- Electronics-Dictionaries.
- Electrons.
  See also:
  Electronics.
  Nuclears physics.

- Electrostatics.
- Engineering.
  See also:
  Aeronautics.
  Electric engineering.
  Marine engineering.
  Mechanical engineering.
  Mechanics.
  Steam engineering.

- Engineering - civil.
- Engineering, Structural.
- Engines.
  See also:
  Diesel engines.
  Gas and oil engines.
  Marine engines.
  Steam engengines.

- Finance.
  See also:
  Banks and banking.
  Commerce.
  Insurance.
  Investment.
- Fluid dynamics.

- Fluid mechanics.

- Forecasting.
- Foreign exchange.
  See also:
  Banks and banking.
- Free ports and zones.

- Free trade and protection.
  See also:
  Commerce.
  Commercial policy.
  Economic policy.
  Economics.
- Freight and freightage.
  See also:
  Aeronautics.
  Commercial.
  Maritime law.

- Gas and oil engines.
- Gas and oil engines -testing.

- Gearing.
  See also:
  Mechanical movements.

- Geography, Commercial.
  See also:
  Economic conditions.
  Trade routes.
- Geography, Economic.
- Geometry.

- Geometry, Solid.

- Government ownership.

- Harbors.
  See also;
  Docks.
  Navigation.
  pilots and pilotage.
  Shipping.
  Transportion.
- Heat.
  See also;
  Combustion.
  Thermodynamics.

- Heat-Engineering.

- Heat engines.
  See also:
  Steam engines.
  Thermodynamics.
- Hear-transmission.

- Hydraulics.

-Hygrometers-Tables.
- Industrial development.

- Industrial management.
  See also:
  Business.
  Industrial relations.

- Industrial management-Dictionaries.
- Industrial management-Mathematical models.

- Industrial relations.
  See also:
  Labor and laboring classes.

- Industrial safety.

- Industrialization.
  See also:
  Economic policy.

- Industry.
  See also:
  Industrial management.
- Information storage and retrieval systems.
  See also:
  Electronic computers.

- Insurance.
- Insurance, Law.

- Insurance, Marine.
  See also:
  Commerce.
  Maritime law.
  Merchant marine.
  Shipping.
- Insurance, Marine- Dictionaries.

- International economic relations.
  See also:
  Commercial policy.
- International law.
  See also:
  Maritime law.
- International trade.
- Investments.
  See also:
  Banks and banking.
- Knots and splices.
  See also:
  Navigation.

- Labor and laboring.
- Labor and laboring classes.
  See also:
  Industrial relations.

- Labor policy.

- Labor unions.
  See also:
  Industrial relations.
  Labor and laboring classes.

- Laws.
- Letter-Writting.

  See also:
  Business letters.
- Logrithms.
  See also:
  Algebra.
  Mathematics.
  Mathematics-Tables, etc.
  Trigorometry-Tables,etc.
- Lubrication and lubricants.
  See also:
  Oils and fats.
- Machine.

- Machinery.
  See also:
  Electric machinery.
  Engines.
  Gearing.
  Lubrication and lubricants.

Machinery - Devices.
Machinery - Design.

- Machinery, kinematics of
- Machinery - Models.
- Machinery - models.
- Management.
  See also:
  Industrial management.
- Management - Dictionaries.

- Manpower policy.

- Manufactures.
  See also:
  Machinery.
  Workshops.
- Marine biology.

- Marine diesel motors.
- Marine engineering.
  See also:
  Electricity on ships
  Mechanical engineering.
  Naval architecture.
  Naval art and sciences.
- Marine engines.
  See also:
  Boilers, marine.
  Engines.
  Shipbuilding.
  Steam engines.

- Marine science.

- Maritime - Dictionaries.

- Maritime law.
  See also:
  Commercial law.
  Freight and freightage.
  Insurance, marine.
  Salvage.

- Maritime law - Dictionaries.

- Maritime law - History.

- Maritime studies.
- Marketing.
  See also:
  Business.
  Industrial management.
- Mathematics.
  See also:
  Algebra.
  Arithmetic.
  Calculus.
  Probabilities.
  Statics.
  Trigonometry.

- Mathematic - Tables, etc.

- Mechanical engineering.
- See also:
  Electric engineering.
  Marine engineering.
  Steam engineering.
- Mechanical movement.
  See also:
  Gearing.

- Mechanics.
  See also:
  Dynamics.
  Physics.
  Statics.
  Thermodynamics.

- Mechanics, Applied.

- Merchant marine.
  See also:
  Harbors.
  Insurance, Marine.
  Maritime law.
  Shipping.
  Transportation.

- Merchant ships.

- Metals.

- Meteorology.

- Metrorology - Dictionaries.

- Mining engineering.
- Natural resources.
  See also:
  Economic conditions.

- Nautical almanac.
- Nautical astronomy.

- Nautical instruments.

- Naval art and science-Dictionary.

- Naval architecture.
  See also:
  Boat building
  Electricity on ships.
  Marine engineering.
  Shipbuilding.
  Steamboats.

- Naval art and science.
  See also:
  Marine engineering.
  Navigation.
  Shipbuilding.
  Signals and signaling.

- Navigation.
  See also:
  Compass.
  Harbors.
  knots and splices.
  Nautical almanac.
  Nautical astastronomy.
  Naval art and science.
  Radar.
  Sailing.
  Shipwrecks.
  Signals and signaling.

- Navigation, Radio.
  See also:
  Radar.

- Nuclear physics.
  See also:
  Electrons.

- Nuclear reactors.
  See also:
  Nuclear physics.

- Numbers, Theory of.
  See also:
  Algebra.
  Mathematics.

- Ocean.
  See also:
  Marine biology.
  Navigation.

- Ocean Studies.

- Office practice.

- Oil burners.

- Oil pollution of rivers, harbors, ect.
  Law and legislation.

- Oils and fats.
  See also:
  Lubrication and lubricants.

- Optics.

- Oxyacetylene welding and cutting.

- Personnel management.
  See also:
  Industrial management.
  Industrial relations.
  Management.

- petroleum industry and trade.

- physical instruments.

- physics.
  see also:
  Dynamics.
  Electricity.
  Electronics.
  Mechanics.
  Nuclear physics.
  Optics.
  Statics.
  Thermodynamics.

- Pilot guides.
  See also:
  Navigation.
  Pilots and pilotage.

- Pilots and pilotage.
  See also:
  Harbors.
  Navigation.
  Pilot guides.

- Pipe lines.

- planets.
  See also:
  Astronomy.

- Plumbing.

- Pollution.
  See:
  Water-Pollution.
- Ports.
  See:
  Harbors.
- Power (Mechanics).
  See also:
  Mechanical engineering.
  Mechanics.
  Steam engineering.

- Probabilities.
  See also:
  Algebra.

  Mathematics.
  Sampling.
  Statistics.
- Productivity.

- Protection.
  See:
  Free trade and protection.

- Public administration.

- Public finance.
- Public relations.
- Pumping machinery.
  See also:
  Engines.

- Rader.
  See also:
  Navigation, Radio.

- Radar in navigation.

- Radio.
  See also:
  Radar .
  Electric engineering.
  Signals and signaling.
  Telecommunication.
- Radio-Apparatus and Supplies.

- Radio Waves.
  See:
  Electric waves.
- Refrigeration and refrigerating machinery.

- Rules of the road at sea.
- Sailing.
  See also:
  Boats and boating.
  Navigation.
  Yachts and yachting.

- Salesmen and salesmanship.
  See also:
  Business.

- Salvage.
- Sampling (Statistics).
  See also:
  Probabilites.
  Statistics.

- Saving and investment.

- Sea.
  See:
  Ocean.
- Seamanship.
  See also:
  Navigation.

- Semiconductors.
- Shipbuilding.

  See also:
  Boatbuilding.
  Marine engines.
  Naval architecture.
  Ships, Ships-Models.
  Steam boats.

- Shipbuilding, Accounting.

- Shipbuilding - Cost.
- Shipcargo.

- Ship-equipment and supplies.
- Ship-maintenace & repair.

- Shipmasters.

- Shipping.

- Shipping - accounting.
- Shipping conferences.
- Shipping - Dictionaries.

- Shipping - Maps.

- Shipping - Rares.

- Ships.
- Ships-fires and fire prevention.

- Ships, Iron and steel.

- Ships in art.
- Ships-Models.
  See also:
  Machinery-Models.
  Shipbuilding.

- Ships-Safety appliances.

- Shipwrecks.
  See also:
  Navigation.
  Salvage.

- Signals and signaling.
  See also:
  Radio.

- Social sciences-Encyclopedia.

- Sound.

- Sound Waves.

- Space flight.

- Stability of ships.

- Statics.
  See also:
  Dynamics.
  Physics.
  Thermodynamics.
- Statistics.
  See also:
  Probabilities.
  Sampling (Statistics).
- Steam engines.
  See also:
  Boilers.
  Marine engines.
  Mechanics.
- Steam navigation.
  See also:
  Boilers.
  Marine.
  Marine engineering.
  Navigation.
  Steam turbines.
- Steam power plants.
  See also:
  Steam engineering.

- Steam-turbines.
  See also:
  Steam engines.
  Steam navigation.
  Turbines.
- Steamboats.
  See also:
  Boats and boating.
  Naval architecture.
  Shipbuilding.
  Steam navigation.
  Transportation.

- Steamboilers-maintenance and repair.

- Steel-Handbooks, Manuals, etc.

- Storage.

- Stowage of cargoes.

- Strength of materials.

- Surveying instruments.

- Switches, electric.

- Symbols and abbreviations.

- Tank-Vessels.

- Tankers.

- Tariff.
  See also:
  Commerce.
  Free trade and protection.

- Technology.

- Technology-Dictionaries.

- Telecommunication.
  See also:
  Radio.

- Thermodynamics.
  See also:
  Heat.
  Heat engines.

- Topology.
  See:
  Mathematics.

- Trade routes.
  See also:
  Commerce.
  Communication.
  Transportation.

- Trade unions.
  See also:
  Labor unions.

- Trading.
  See:
  Commerce.

- Transistors.
  See also:
  Electronics.

- Transportation.
  See also:
  Aeronautics.
  Commerce.
  Freight and freightage.
  Harbors.
  Merchant marine.
  Shipping.
  Trade routes.

- Trigonometry.
  See also:
  Geometry.
  Mathematics.

- Trigonometry-Tables, etc.
  See also:
  Mathematics-Tables, etc.

- Turbines.
  See also:
  Engines.

- Underdeveloped Areas.
  See also:
  Economic conditions.

- Unemployed.

- Unified field theories.

- United Nations.

- Universe.
  See also:
  Astronomy.

- Ventilation.

- Vibration.
  See also:
  Waves.
  Mechanics.

- Warships.
  See also:
  Naval architecture.
  Naval art and science.

- Water.

- Water-Pollution.

- Waves.
  See also:
    Electric waves.
- Weather.
  See also:
    Meteorology.
- Weather-Climatology.
- Weather-Tables, etc.
- Welding.
- Welfare economics.
- Wire.
- Workshop.
  see:
    Mechanical engineering.
- Workshops.
- World War, 1939-1945.
- World War, 1939-1945. naval operations.
- Yachts and yachting.
  see also:
    Sailing.
- Yacht flags.

ANNEX(I)

List of Equipment provided
by AMTA (1972 - 1975)

Ser.no	Description	Qty	Price E.P.	Distribution
A- Floating unites				
I	Radar training launche	I	22,I29	
2	Training yacht	I	I5,I43	
3	Life Boats (used)	3	I,000	
4	30' Rowin cutter (used)	2	I60	
5	30', " " (new)	4	10,000	under construc-
6	Training Launche(used)	I	600	tion
7	" " (new)	2	23,000	" "
8	cat Dinghies	20	6,000	
B- Workshops Equipment and tools				
I	Lathe	I	4,000	School of Seamen
2	Diesel and Petrol Engines(used)		I,500	" " "
3	Equipment for seamen training		600	" " "
4	Hand tools for workshop training		442	" " "
5	Vices, Benches for workshops		4,200	" " "
6	Measuring tools		I,700	" " "
7	Fire extinguishers		2,640	" " "
C- Equipment for Training Aids Depart.				& other colleges
I	Pattern shop Equipment (sewing machine thicknessing machine ,lathe,welding transformer, grinding machine)		3,43I	
2	Printing & Photocoping machines (2 offset machines - 2 stencil machines - I electrostatic photocoping machine - Plastic binding Machine- and other small tools)		8,500	
3	electric typing machines (4) and materials		I,500	
4	Drawing office Equipment		I,000	

5	Audiovisual Aids (1-overhead Projector, I slide Projector - I tape recorder) Cadet College / Engineering Studies Cadet College	I,000
6	Slides (3000)- Transparencies(400)for Nautical- Engineering- Academic subjects	I,000
7	Films, Filmstrips, wall charts,...	9,000 (not yet received)
D-	Item Manufactured by training Aids Departement	
I	Models for different types of ships and cross sections at different parts	I,600 (Cadet College - Engineering & Nautical Studies- Seamenship)
2	Typing-Printing of different lectures	24,500
3	Wall charts	I,200 All Colleges & Seamen
4	Transparencies	300 " "
5	photocopying	500 " "

ANNEX(2)

List of Equipment to be provided
by AMFA (1975 -1976) 'Not yet received'

ser.no	Description	Price E.P.
I	Audiovisual Aids	23,250
2	Printing & Photocopying	20,000
3	Physics Lab.	20,000
4	Radio & electronics	8,580
5	Control Engineering	30,762
6	Hydraulics & heat engines	10,650
7	Testing of Materials	15,000
8	Workshop Equipment	20,500
9	Nautical Equipment	10,000
10	Other Equipment	16,258
	Total	175,000

Details Attached

I- Audio Visual Aids (one set for each college)	Qty,
- 16mm Projectors	3
- Trollys	6
- 8mm Projector (caosette)	6
- " " (loop)	6
- Overhead Projector	25
- Filmstrip "	6
- 35mm slide Projector	8
- Episcope	4
- Tape Recorders	6
- Microphones	18
- Loudspealers	12
- Amplifiers	6
- Reprographic Equipment	6
- Sony rover kit	I
- screens	25

2- Printing & Photocopying Equipment Training Aids Department	
- Printing Machine with adjustable table camera	I
- copying machine from original to stencil papers	I

3- Physics Lab. (Cadet College)

- Applied Mechanics Equipment
- Acoustics
- optics
- Heat
- Electricity and Electromagnetism
- meteorology
- Materials.Lab.

4- Radio and Electronics (Cadet College)

5- Control Engineering (Cadet College)	
- D.C. servo system	I
- Logic teaching units & Accessories	I
- wave from synthesizer	2
- Educational oscilloscope	3

- Dual beam oscilloscope 2
- Pen Recorder two channel I
- x-y Recorder I
- frequancy sweeper I
- Equip. for operation Amplifier I
- Universal Measuring inst. 2
- Connecting leads(set) 2
- Sets of connecting cables 12
- Fluidic and Pneumatic tutor I
- Laboratory Computer I
- set of tools for Lab. Technician

6- Hydraulics & heat engines (Cadet College)

- Bilge Ejector
- Self priming pump.
- Heleshow pump.
- Cavitation demonstration model

7- testing of materials (Cadet College)

- Universal testing M/C-30 tons with mech recorder
- Impact testing machine
- metallurgical Microscope.

8- Workshops Equipment (Cadet College)

- Lathes with accessories 10
- Machine cutting tools
- hand tools
- welding sets
- compressors
- Consumable Materials
- Air compresser test set
- fuel consumption meter
- exhaust cal.
- Nozzel flow Apparatus
- Mitchell tilting pad.
- Orsat Apparatus
- Exhaust Thermocouple
- Pensk Martin F.P. tester
- Sharples Centrifuge.

9- Nautical Equipment (Nautical Studies - Cadet College)

2 stevenson's screen for wet and dry bulb thermometers.
I Marine Mercurial Barometer fitted with gold slide.
I Compass Binnacle complete with fittings and correcting magnets on rotating stand.
2 Lifeboat compass.
6 Hydrometers.
6 Hydrometers Jars
3 station Pointers
50 Parallel Rulers
6 Sextants for the examiners.
50 Plastic training sextants.
1 heeling Error Instrument.
2 Azimuth circle.
50 Dividers
I2 Morse Key set
I Portable Lifeboat Transmitter
6 Block treble sheaves
6 Blocks double sheaves
6 Gintackles
6 handybillies, luffing tackles
One set of Marlin spikes
one set of Rope Fids
6 Magnetic Board and Magnet for collision Regulation exercices
Bosian chair local
Platform
Model for hatch with grainshifting board and feeder

IO- Other Equipment

According to requirrents.

ANNEX (3)

A- Equipment Received through UNDP
B- Equipment under storage in U.K.
C- Equipment under shipment or ready for shipment
D- Equipment for which orders have been made
N.B. For Item (A) - Enclosed A list of Equipment and Material received by
- Cadet Collge
- College of Nautical studies
- College of Engineering studies

ANNEX 3

EQUIPMENT RECEIVED THROUGH UNDP SOURCES SINCE LAST REPORT

A - Equipment received

1. Seamanship Equipment	$ 9,895
2. Navigation Equipment	1,940
3. Electronic Laboratory Equipment	18,735
4. General Engineering	35,557
5. Projection Equipment	4,870
6. Science Laboratory Equipment	4,760
7. Radiocommunication Equipment	40,200
8. Meteorology	2,245
9. Radar Equipment	12,010
10. Radar Simulator	160,185
11. Thermodynamics Equipment	5,980
12. Planetarium	17,006
13. Workshop Machinery Tools	10,330
14. Books charts, Films etc.	1,217
	324,930

B - Equipment under storage in U. K. (1976)

Thermodynamics Laboratory (Steam Plant)	75,000

C - Equipment under shipment or ready for shipment will be delivered in 1976

1. Engineering	5,670
2. Workshop Tools	5,835
3. Navigation Equipment	10,605
4. Projection Equipment	2,775
5. Miscellaneous	1,545
	26,430

D - Equipment for which orders have been made (1976 - 1977)

1.	Engineering	$ 21,220
2.	Workshop Tools	106,480
3.	Electrical Machine Laboratory Equipment	47,000
4.	Control Engineering and Thermodynamics	29,000
5.	Ships Diesel Generator Plant	77,500
6.	Ships Steering Control System	15,800
7.	Navigation Equipment	1,222
8.	Radiocommunication	12,820
		311,042

	Total Budget	$1,200,000	
1.	Total Equipment Orders equivalent to	$737,402	
	Other Orders equivalent to	$132,598	
	Total	$870,000	
2.	Equipment Received		$560,000
3.	Rest of Orders	$330,000	

A - LIST OF EQUIPMENT AND MATERIAL RECEIVED BY CADET COLLEGE

DESCRIPTION	QUANTITY	SIGNATURE
Model 24D Manual Typewriter s/n 357804	1	
Mortorized Orbiter Planetarium	1	
Solar Systems Simulator	1	
Trans Celestial Globe	1	
Star Chart	1	
Star Chart Project Series	19	
Star Chart Test Series	19	
Luminous Star Finder	10	
Student Astronomy Explorer	1	
Solar Systems Dials	10	
TD 20 Wankel Engine Model	1	
TD 21 Four Stroke Diesel Engine Model	1	
TD 22 Four Stroke Petrol Engine	1	
TD 23 Two Stroke Petrol Engine Model	1	
TD 26 Diesel Injector Model	1	
TD 28 Ignition System Model	1	
H2 Stability of a Floating Body	1	
Carl Zeiss Sextante	10	
Smoke Apparatus Assembly	2	
Airmaster Marine	1	
Compressed Air Breathing Apparatus	1	
Electric Safety Hand Inspector Lamp	2	
Fireman's Axe	2	
Marine Barographs	1	
Masthead Signalling Lamps with Bulls and Waterlight Tapperkeys	3	
BFD Liferaft with Desk Cradle and Hydrostatic Release	1	
H1 Hydraulics Bench	1	
H4 Discharge through an Orifice	1	

DESCRIPTION	QUANTITY	SIGNATURE
H5 Flow through a Venturi Meter	1	
H6 Discharge over a Notch	1	
H7/7A Friction Loss Along a pipe complete with header tank and column	1	
H8 Impact of a Jet	1	
6 Pencil Compasses JAKAR T. 117	60	
MASON'S HYGROMETERS	3	
WHIRLING PSYCHROMETERS	1	
MARINE BAROGRAPHS	1	
SONY LANGUAGE LABORATORY system for 30 students complete with spares and installation materials	1	
Set Reply Mechanical Engine Telegraphs	1	
Set CHADBURN Electrically operated Bridge to Engine Room Telegraphs	1	
Set Spares	1	
CHERUB III LOG AND ONE IRON WHEEL GOVERNOR	1	
COMMODORE ELECTRIC LOG WITH CHART-HOUSE RECEIVER AND TRANSFORMER	1	
PHOENIX No. 8 LOG LINE 60 FM	1	
" " 50 FM	1	
Baufer "R" Liferaft with Deck Chocks	1	
Portascribe 700 Overhead Projector complete with Pennant Animation System	1	
D.C. Supply S1520	1	
Signal Generator SG3	1	
Variable Resistor R200-100	1	
Stabilized Power Supply A2	1	
Chopper A7	1	
R-C Coupled Transistor Amp. F2	1	
HF Amp. F9	1	
Audio Amp F6	1	
Pre-Amp F15	1	

DESCRIPTION	QUANTITY	SIGNATURE
LC-Oscillator 07	1	
Crystal Oscillator 06	1	
Blocking Oscillator P9	1	
Bi-Stable Flip Flop P6	1	
Miller Sweep P11	1	
Set Building Blocks for Logic Cricuits P12	1	
Ring Modulator T1	1	
Amplitude Modulator T2s	1	
Modulator 2FM T5	1	
Demodulator 2FM T7	1	
Demodulator 1FM T6	1	
Radio Transmitter AM/FM S1	1	
Line Fault Simulator N9	1	
Dummy Antenna MT3	1	
Transductor 303 with accessories	1	
Analogue Process Simulator 89	1	
DC Servo-System S20	1	
Thyristor Control S11	1	
Opto-Electronic Apps. Optonics 1 S16	1	
Combustion Bench MT520	1	
Refrigerating Bench MT 290	1	
Function Generator Type 7030	6	
Electric Multimeters PM 2403	12	
Flat Red Recorder PM 8120	1	
Model 280Z Film Loop Projectors s/n 27336		
BLE Bulbs		
Transistor & Diode Tester Type TT 537 each with Transistor Data Manual	3	
Valve Characteristic Meter Type VCM 163 and Instruction Manual	1	
Complete ships radio station as detailed in the firm's invoice. (see list attached)	1	
Set Science Laboratory Equipment		

DESCRIPTION	QUANTITY	SIGNATURE
Electrical Stopclock, Cat. 4182	1	
Atwood's Machine, Cat. 4299		
Galileo's Falling Grrove, Cat. 4391	1	
Universal Stand for Mechanics, Cat. 4308	2	
Whirling Table, Cat. 4355	1	
Gyroscope, Cat. 4389	1	
Hydraulic Press, Cat. 4418	1	
Turbine, Cat. 4461	1	
Water Waves & Air Streams Apparatus, Cat. 4575	1	
Sonometer, Cat. 4603	2	
Set 8 Tuning Forks, Cat. 4615a	1	
Optical Bench & Extension Rail, Cats. 4701 & 4701a	1	
Hartl's Optical Disc, Cat. 4707	1	
Spectral Lamp Apparatus, Cats. 4735a to 4735n	1	
Polarizer, Cat. 4737	1	
Spectroscope, Cat. 4741	1	
Astronomical Lens-Telescope, Cat. 4771	1	
Thermograph, Cat. 4795	1	
Papin's Steam Pot, Cat. 4900	1	
Nickel-Cadmium Storage Battery, Cat. 5200	2	
Universal Moving Coil Instrument, Cat. 5489b	1	
Braun's CRT Cat. 5536d	1	
Experimenting Lamp Apparatus, Cats. 4710, 4710a, 4711 & 4712. (see list attached)	2	
Model 4440 Digital Multimeter each with recharge-able cells and battery charger	10	
Windspeed & Direction Indicators	1	
K. H. Hand Sounding Machine Deviascope, Beall's Patent	2	
Max-Min Thermometers	5	
Cumberland Rain Gauges	1	
Automatic Slide Projectors Liesegang A30	6	
LH24-15 Halogen Lamps	14	

DESCRIPTION	QUANTITY	SIGNATURE
Episcope Model E8	1	
Magnastat Ministure-Soldering Station WMCP-340 with transformer No. 22021 & Mini Soldering Iron No. 17002	20	
MT200 Tensile & Brinell Testing Machine	1	
MT210 Twist & Bend Testing Machine	1	
MT220 Impact Tester	1	
Electric Navigation Lamps	5	
Oil Navigation Lamps	5	
9" 360 Degree Protractors S237a	36	
10" Set Squares	48	
12" 60" Set Squares	48	
Complete Sets of 40 International Code of Signal Flags	2	
Copies International Code of Signals	3	
18" Parallel Rules	60	
Ebbco Training Sextants	6	
Set of 26 Transparencies - Machine and Engineering Drafting	1	
Set of 77 Transperencies - Precision Measurement	1	
Super 8mm Filmloops	25	
Sets of Wooden Model Buoys for teaching the Uniform System of Buoyage	2	
Study Prints and Transparency Sets	28	
RR 4500 Copy Machine not yet received	1	

A - LIST OF EQUIPMENT AND MATERIAL

RECEIVED BY COLLEGE OF NAUTICAL STUDIES

DESCRIPTION	QUANTITY	
HTM Cyroscope Apparatus	1	
H2 Stability of floating body	1	
Plath Simulator type WL3 for the plath Visual D. F. type sep 705 ING	1	
6 Kva, skw, 0.8 P. F. Diesel Generator Model 6 MDL-57R 3-PH	1	
Radio Locator 12 with fittings, Pedistals, displays, true motion unit, plotters, spares and tripod scnner mast	1	(Radar Launch observer)
Marine Barographs	1	
Arma Brown MK. 10 gyro compass with 1 lead, 1 switch/Junction, 2 Distribution Boxes, Manual	1	(Radar Launch observer)
- Copies of International Code of Signals	2	
- Sets of Wooden Model Buoys	1	
- Masons Hygrometers	3	
- Psychmeter	1	
Automatic Slide Projector Liesegang A30	1	
LH 24-15 Halogen Lamps		
Episcope Model E8	1	
Overhead Projector (Fortascribe 700)	1	
Furuno A/C Automatic Tracking Loran Receiver	1	
Furnuno Loran A/C Simulator	1	
Anschutz standard 6 gyro compass Equipment complete.	1	
MK21 Simulator Type 901		
Plath Visual Direction finder Type sep 705 LNG		

A - LIST OF EQUIPMENT AND MATERIAL

RECEIVED BY COLLEGE OF ENGINEERING STUDIES

DESCRIPTION	QUANTITY	
Automatic Slide Projector	1	
(Liesegang A30)		
- LH 24-15 Halogen Lamps		
Episcope Model E8	1	
Overhead Projector (Portascribe 700)	1	

II. Construction of new building at Abu-Kir

1. Location

Rashid Road - 22km from Sidi Gaber Railway Station; Alexandria.

2. Date of inauguration

Fourth quarter in 1976

3. Progress of construction

According to enclosed plan of work ± 3 months

4 & 5. Construction and integration plan of each college

According to enclosed plan of work

6. Construction budget

7 million pounds ± 20%

7. Installation plan of Machinery and Equipments

- Kitchen 1st quarter in 1976
- Laundry and boilers 2nd quarter in 1976
- Sewage pumping stations 2nd quarter in 1976
- Emergency power station 2nd quarter in 1976
- Workshop and laboratories 3rd quarter in 1976

8. Layout

Drawing enclosed.

9. Facilities

(1) Site area m2

- 3000,000 m2 + 260,000 m2 facing the sea

(2) Floor area

- 100,000 m2

(3) Lecture room

- 6.50 x 7.78 - 7 x 9.78 - Drawing room 7 x 15.78

(4) Staff room

- 7 x 3.78 m2

(5) Library

- 60 x 30 m2

(6) Laboratory

- 6.60 x 15.78 - 6.70 x 19.78

(7) Dormitory

- 3.88 x 7 for 6 cadets - 4.66 x 3.83 for 4 cadets
  27.78 x 7 for 24 cadets

(8) Workshops
58.87 x 30.78 m2

(9) Ware house

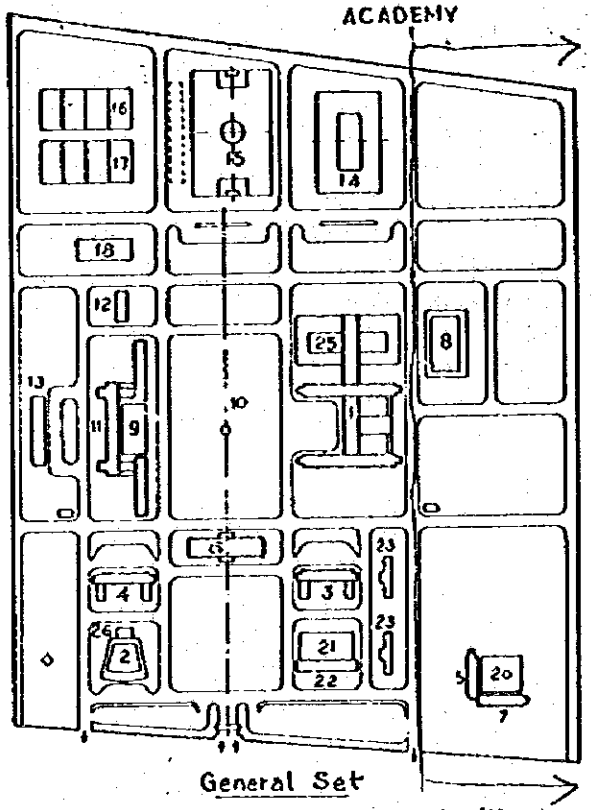
(10) Structure of main building
Re-enforced concrete on mechanical pites foundation

(11) Structure of workshops
Re-enforced concrete frames with saw tooth roof

(12) Other facilities
- Sports area 80,000 m2
- Sick bay 400 m2
- Power house + laundry 900 m2

ARAB LEAGUE

ARAB MARITIME TRANSPORT ACADEMY



General Set

1. 25. Cadet Coolege
2. 26. Auditorium
3. College of Maritime Transport
4. College of Nautical Studies
5. 7. 20. School of specialised Seamen
6. Administration Buil.
8. Work shop
9. 11. Cadet Hostel & dinning room
12. Sick bay
14. 15. 16. 17. 18. Play grounds
1. Parade grounds
13. Laundry
21. 22. Library & Resear. ch Center
23. Staff accomodation

Disign of the building

Contribution of Participating Countries

		1972	1973	1974	1975	1976	1977
Jordan	$	10000	10000	10000			
Emirates		60000	60000	60000	60000	60000	60000
Bahrain		10000	10000	10000			
Saudi Arabia		100000	100000	100000	100000		
Sudan		38000	38000				
Syria		25000	25000				
Iraq		100000	100000	100000	100000	100000	100000
Oman		10000	10000	10000			
Kuwait		120000	120000	120000	120000	120000	
Qatar		40000	40000	40000	40000	40000	
Lybia		100000	100000	100000	100000		
Egypt		130000	130000	130000	130000		
Yemen		400	400	400	400	400/	

The yearly contribution equals 1/5 of the total contribution as provided for in the Project Document by all countries.

I. Information on existing colleges

7. Lecture hours of each course (by subject)

(1) Lecture hours per week and year

(2) Practical - Theoretical ratio

8. Syllabus and time table of each course

(A) College of Navigating Officers Studies

Syllabuses:

(a) Second Mate (F.G.)

Subject	Hours Allocation		Total
	1st period	2nd period	
1. Mathematics	4 x 10 = 40	5 x 9 = 45	85
2. Physics	4 x 10 = 40	3 x 9 = 27	67
3. Magnetism & Electricity	2 x 10 = 20	2 x 9 = 18	38
4. Principles of navigation & Practical navigation	6 x 10 = 60	5 x 9 = 45	105
5. Chart Work	3 x 10 = 30	4 x 9 = 36	66
6. Meteorology	2 x 10 = 20	3 x 9 = 27	47
7. General ship knowledge	4 x 10 = 40	3 x 9 = 27	67
8. Seamanship	3 x 10 = 30	3 x 9 = 27	57
9. Radar Theory	2 x 10 = 20	2 x 9 = 18	38
10. Radar Plotting	1 x 10 = 10	1 x 9 = 9	19
11. Signals	3 x 10 = 30	3 x 9 = 27	57
12. English Language	2 x 10 = 20	2 x 9 = 18	38
13. Medical	1 x 10 = 10	----------	10
	36 x 10 = 360	36 x 9 =324	684

(b) First Mate (F.G.)

Subject	Hours Allocation		Total
	1st period	2nd period	
1. Ship construction	3 x 10 = 30	3 x 9 = 27	57
2. Ship stability	3 x 10 = 30	3 x 9 = 27	57
3. Practical navigation and chart-work	5 x 10 = 50	6 x 9 = 54	104
4. Meteorology	4 x 10 = 40	4 x 9 = 36	76
5. Electricity	3 x 10 = 30	4 x 9 = 36	66
6. Radio and Electronics	3 x 10 = 30	4 x 9 = 36	66
7. Cargo work	4 x 10 = 40	4 x 9 = 36	76
8. Seamanship	3 x 10 = 30	3 x 9 = 27	57
9. Signals	3 x 10 = 30	2 x 9 = 18	48
10. Medical	2 x 10 = 20	----------	20
11. English Language	3 x 10 = 30	3 x 9 = 27	57
TOTAL	36 x 10 =360	36 x 9 =324	684

(c) Master (F.G.)

Subject	Hours Allocation		Total
	1st period	2nd period	
1. Ship construction	3 x 10 = 30	3 x 9 = 27	57
2. Ship stability	3 x 10 = 30	4 x 9 = 36	66
3. Electronic aids to navigation	6 x 10 = 60	6 x 9 = 54	114
4. Magnetism and magnetic compass	4 x 10 = 40	4 x 9 = 36	76
. Gyro compass	2 x 10 = 20	2 x 9 = 18	38
6. Engineering knowledge and control systems	6 x 10 = 60	5 x 9 = 45	105
7. Commercial knowledge and ship master's business	4 x 10 = 40	4 x 9 = 36	76
8. Seamanship	3 x 10 = 30	4 x 9 = 36	66
9. English Language	3 x 10 = 30	3 x 9 = 27	57
10. Medical	2 x 10 = 20	----------	20
----	36 x 10 = 360	35 x 9 = 315	675

(8) College of Marine Engineering Studies

Syllabuses:

(a) Second Class Engineers Part A

Subjects of Study for Second Class Part A	No. of Hours per Course
Mathematics	108
Applied Mechanics	108
Heat and Heat Engines	108
Engineering Drawing	108
English Language	72
Science	72
	576

The duration of each course is 18 weeks
The number of hours of Instruction is 32 hours/week.

Subjects of Study for Second Class Part B	No. of Hours per Course
Electro-Technology	108
Naval Architecture & Ship Construction	108
Engineering Knowledge	108
I.C.E. Steam Engines	108
English Language	72
Total	504

The duration of the course is 18 weeks at 28 hours per week.

(b) First Class Engineers Part A

Subjects of Study for First Class Part A	No. of Hours per Course
Applied Mechanics	108
Heat and Heat Engines	108
English Language	72
Total	288

The duration of the course is 18 weeks at 16 hours per week.

Subjects of Study for First Class Part B	No. of Hours per Course
Electro-Technology	108
Naval Architecture & Ship Construction	108
Engineering Knowledge	108
I.C.E. Steam Engineering	108
English Language	72
Total	504

The duration of the Course is 18 weeks at 28 hours per week.

(C) School of Specialized Seamen

Electrical Department

1 -	Electrical Engineering and Electrical Material	200 hrs.
2 -	Electrical Machines and Electrical Equipments	360 hrs.
3 -	Radio Engineering, Radio Equipments and Radar	70 hrs.
4 -	Mathematics	70 hrs.
5 -	Marine Engineering	45 hrs.
6 -	Ships - building	40 hrs.
7 -	Seaman - Ship	60 hrs.
8 -	Fire - fighting	35 hrs.
9 -	Swimming	20 hrs.
		900 hrs.

Deck SYLLABUS New entrants

Duration of course

I4 weeks

Ser.	S u b j e c t s	Hrs.
1	Anchor work and ship handling	30
2	Cargo work	24
3	Electrical knowledge	I8
4	Fire fighting	30
5	General ship knowledge	24
6	First aid and Seaman hygiene	6
7	Life boat and life saving appliances	72
8	Masts and rigging	30
9	Navigation	22
I0	Ship maintenance	46
II	Safety aboard	II
I2	Rope work	2 4
I3	Swimming and life rescue	48
I4	Engineering knowledge	I8
I5	Visits	25
I6	International Signals	28
I7	Rules of the road	8
I8	Examination	I5
		479
	36 Hrs. Per week .	

Mechanical Department

I -	internal combustion engine	I70 hr.
2 -	auxillary machinery	I40 hr.
3 -	ship construction	40 hr.
4 -	instruments, gauge and material	40 hr.
5 -	technical drawing	60 hr.
6 -	work shop technology	I20 hr.
7 -	Basis of electricity	60 hr.
8 -	fire fighting	35 hr.
9 -	Seaman ships and swimming	40 hr.
	+ examinations	63 hr.
	+ visits	50 hr.
		828 hr.
	about 22 weeks .	

Ⅶ－5　調査団よりのUNDPに対する質問状

The Japanese Survey team is interested in the following points

1. Project Budget (1972-1977, 1977-)
   (personnel, equipment, training and miscellaneous component etc.)
2. Status and position of Project Manager and other experts.
3. Training of counterparts.
   (1) definition of counterparts under the UNDP fellowships.
   (2) receiving procedure of counterparts.
4. Machinery and Equipments
   (1) delivery procedure to each college of the Machinery and Equipments donated by the UNDP.
   (2) procedure to decide the kinds and specification of Machinery and Equipments.
   (3) UNDP coverage of the miscellaneous expenses related with the donation of machinery and equipment (ex. customs duties, internal taxes, domestic transportation fee and other charges).
5. Breakdown of Miscellaneous costs
   (1) maintenance, repair and operation cost of the Machinery and Equipments.
   (2) cost of teaching material and textbook.
   (3) Stationery cost.
   (4) Others.

Ⅶ－6 UNDPよりの回答

1. Project Budget

1972-77 US $ 2,604,900

Personnel	Experts	351 man-months
	Consultants	129 man-months
	Administrative Support Personnel	180 man-months
Training	Individual Fellowships	258 man-months
Equipment	US $ 1,210,000	
Miscellaneous	US $ 60,500	

2. Status and position of Project Manager and other experts

The Project Manager is the local representative in the Projedt of all the concerned UN Agencies. He is responsible for co-ordinating the activities of UNDP, the Executing Agency (IMCO), the Associated Agency (UNCTAD) and the Counterpart Agency in so far as the Project is concerned. All the UN Experts work under the control and authority of the Project Manager. It has also been agreed in the Project Document that the Project Manager will coordinate the functions of the experts provided under bilateral technical assistance and the International Staff.

For brief functions of the Project Manager and other experts please see attached paper.

3. Training of Counterparts

(1) Definition of counterparts under the UNDP fellowships.

In so far as UNDP fellowships in this Project are concefned a counterpart is defined as a national of one of the participating countries who has been assigned for instructional duties in the Academy.

(2) Receiving procedure of counterparts.

Nominations for the award of fellowships are initially made by the counterpart authorities. These nominations are then vetted by the

Expert concerned and the Project Manager. The vetting is made on the basis of educational and professional background, experience, aptitude and suitability. The final choice is made by mutual consultation between the Project Manager and the Director General. The recommendation is then sent by the Project Manager to the UN Agency concerned for processing and implementation. Placements in the recommended places of training is arranged by the UN Agency concerned.

It may be noted that by the terms of the Project Document, the participating countries have undertaken not torecall the recipients of fellowships for national duties on the conclusion of their training, and to assign them for instructional duties at the Academy for the duration of the Project and two years thereafter.

4. Machinery and Equipment

(1) Delivery procedure to each college of the Machinery and Equipments donated by UNDP.

(in the following paragraphs equipment includes machinery and all forms of training aids)

All equipment supplied by UNDP remains their property until the conclusion of UNDP assistance to the Project, and thereafter disposed of by mutual consultation between UNDP/Executing Agency (IMCO)/ Counterpart Agency.

All equipment is initially delivered to the Project Manager. The distribution of the equipment between the various colleges is made on the basis of training requirement and in full consultation with the counterparts. Receipt of equipment is acknowledged by both the Expert concerned and his immediate counterpart who are responsible for safe custody and proper use.

(2) Procedure to decide the kinds and specifications of Machinery and Equipment.

Selection of equipment -type, specifications etc.) is done mutually by the Experts and their immediate Counterparts for final approval by the Project Manager. This consultation is necessary since the Couterpart Agency is required to suppliment the UNCP equipment to fulfil all the training needs. Actual procurement is done by U' Agency Headquarters.

(3) UNDP coverage of the miscellaneous expenses related with the donation of machinery and equipment.

All UNDP equipment, including vehicles, supplied to the project is exempt from customs duties and internal texation under a general agreement between UNDP and the Government.

Expenses incurred in clearing the quipment, domestic transportation and other miscellaneous charges related thereto are met by the Academy from the counterpart funds.

5. Breakdown of Miscellaneous costs

(1) Maintenance, repair and operation costs of the Machinery and Equippent.

This is the responsibility of the Academy.

(2), (3) and (4)

Details of these costs are recorded at IMCO and UNDP Headquarters and such information is not available locally.

ASSIGNMENT OF INTERNATIONAL STAFF AND ADMINISTRATIVE SUPPORT PERSONNEL

In addition to the brief functions indicated in the following table, the Experts will, as and when their instructional duties permit and at the discretion of the Project Manager, be available to the participating countries, as a team of individually, for consultation and advice on specific problems in their respective fields.

Title and brief functions	Starting Date (mo/yr)	Duration m/m
(i) EXPERTS		
(a) Project Manager (IMCO) Will be responsible for the general management and administration of the project including planning and coordinating the work of the experts. He will act as the senior adviser to the Director General of the Academy. He will also coordinate the functions of the experts provided under bilateral technical assistance and the International staff.	2.72	60
(b) Chief of Marine Engineering Studies (IMCO) Will be responsible to the Project Manager for Marine engineering training and installation of training equipment. He will prepare the syllabus and the upgrading courses for marine engineers as well as the training programme for engineer cadets. He will also be responsible for maintenance of equipment and for introducing safety measures in the workshop. He will oversee the implementation of the programmes and will provide appropriate guidance to locally	2.74	37

Title and brief functions	Starting Date (mo/yr)	Duration m/m
recruited instructors.		
(c) Chief Lecturer (Nautical) (IMCO): Will be responsible to the Project Manager for nautical training and installation of equipment. He will prepare the syllabus and upgrading courses for Masters and Mates as well as the training of nautical cadets. He will also be responsible for maintenance of the equipment and for introducing safety measures when trainers are under boat training. He will oversee the implementation of the programmes and will provide appropriate guidance to locally recruited instructors.	7.73	36
(d) Lecturer (Nautical) (IMCO): Will, under the supervision of the Chief Lecturer (Nautical), be responsible for nautical cadet training. He will assist in the implementation or the training programme and will provide guidance to the local instructors.	1.74	36
(e) Lecturer (Marine Engineering) (IMCO): Will, under the supervision of the Chief of Marine Eng. Studies, be responsible for cadet training. He will assist in the implementation of the training programme and	7.74	32

Title and brief functions	Starting Date (mo/yr)	Duration m/m
provide guidance to the locally recruited instructors.		
(f) Radiocommunication Instructor (IMCO): Will be responsible to the Project Manager for preparing the syllabus and courses in his speciality and for training of radio officers. He will undertake instructional duties as well as provide guidance to local instructors. He will also be responsible for maintenance of training equipment.	9.75	18
(g) Radar and Radar Simulator Instructor (IMCO): Will be responsible to the Project Manager for radar training programme. He will conduct Radar Observer courses for junior Officers and Radar Simulator courses for Masters. He will train the local instructor in the use of Radar Simulator and provide guidance to such instructors. He will be expected to maintain the equipment in efficient condition.	7.74	18
(h) Tanker Safety, Damage Control and Fire Fighting Instructor (IMCO): Will be responsible to the Project Manager for establishing the required courses and training programme pertaining to these subjects. He will undertake instructional duties and provide guidance to the local instructors.	3.76	12

Title and brief functions	Starting Date (mo/yr)	Duration m/m
(i) Specialised Seamen Instructor (ILO under sub-contract): Will be responsible to the Project Manager to formulate training programmes and make necessary arrangements for conducting the related courses. He will also train the local instructors.	6.75	18
(j) Lecturer (Shipping) (UNCTAD): Will act as Senior Lecturer in the College of Maritime Studies and will be responsible to the Project Manager for its activities and for arrangements for holding seminars. He will prepare courses in his own speciality, and be responsible for implementation of training programmes. He will also provide appropriate guidance to the locally recruited instructors.	11.73	36
(k) Lecturer (Ports) (UNCTAD): Will, under the supervision of the Senior Lecturer, be responsible for preparation and implementation of training programmes in his speciality and provide appropriate guidance to locally recruited instructors.	2.74	36
(l) Electronic Engineer (IMCO): Will be responsible to the Project Manager for the installation and maintenance of e electronic equipment. He will train the national staff in maint- iance of this equipment.	2.75	12

別－7　調査団よりの海員学校に対する追加質問状

The Japanese Survey Team would like to get further following information.

I. School of Specialized Seamen

1. Position of School of Specialized Seamen in the Academy.

2. Students

   (1) Reason of shortage of actual student's number compare with the full number (please describe in order priority)

   (2) Nationality of existing students

   (3) Estimated number of new students and their nationality

3. Project Sites

   Priority of existing proposed three sites

4. Facilities

   (1) Construction plan

   (2) Proposed facilities (ex. laboratory, warehouse, workshop etc.)

   (3) Installation workshop and warehouse of providing equipment by the Government of Japan.

5. Expansion Programme of School of Specialized Seamen

   (1) Course

   (2) Full number of students

   (3) Regulation revision

6. Graduates

   (1) Employment opportunity for graduates

   (2) Salary and wage of graduates
   (Cadets College, School of Specialized Seamen)

II. Other Information

1. Status and Position of IMCO's Team Leader under the New Organization.

2. Prospected Status and Position of Japanese Team Leader of the Academy.

3. Necessary procedure and method to rent a house.

4. Scope, field and contents of UN expert's duty.
   (including project manager)

II－8　海員学校からの回答

ARAB LEAGUE
ARAB MARITIME TRANSPORT ACADEMY
VICTOR BASILY ST., ALEXANDRIA
CABLE - ARABCADEMY
ALEXANDRIA
A. R. E.
P. O. B. 1029
TEL.: 27102 , 31150

Your Ref. :
Our Ref. :
Date : 1/11/1975

I. School of Specialized Seamen:

1) Position of the School:

The Academy would like to assure the great importance of the School:

a- Since the number of Egyptians trained in the Cadet College each year is about 50, we estimate that 200 ratings should be needed each year for the Egyptian Fleet. This is beside retraining of 100 petty officers who have already some experience at sea.

b- Training of the present crews to the international standard, as to be able to cope with newly built ships, and to satisfy safety standards.

c- The School of Specialized Seamen was the area least assisted by IMCO. Capt. M. Zakaullah in his meeting with the Japanese Delegation emphasized this fact, and invited them to concentrate their assistance on the training of seamen.

d- A proposal will be submitted to the Ministry of Maritime Transport to the effect that no seamen passport should be issued to any seamen unless he attends a pre-sea course in the School of Specialized Seamen.

ARAB LEAGUE
ARAB MARITIME TRANSPORT ACADEMY
VICTOR BASILY ST., ALEXANDRIA
A. R. E.

CABLE-ARABCADEMY
ALEXANDRIA

P. O. B. 1029
TEL.: 25162 / 31450

Your Ref.:
Our Ref.:
Date:

2) Students:

1- Reason of shortage of actual student's number compared with the number:

i- The present regulations do not state the necessity of pre-sea training in the Academy for issuance of seamen passports.

ii- The non-residential type of study in the School.

iii- Impropoer implementation of the regulations of upgrading promotion.

2- Nationality of existing students:

With few exceptions all the trainees are Egyptians.

3- Estimated number of new students proposed three sites:

The number of new students as expected every year is 200 and 100 for up grading courses. The majority of them is expected to be Egyptian. Considerable number of students are expected from Lybia, Syria and Sudan.

3) Project Sites:

There are two proposals in close coordination with the Ministry of Maritime Transport:

i- Construct a new building (three stories) on the whole site of the present school in the western harbour, where the environment is quite suitable for establishing such a school.

ii- Construct a new building near Abu-Kir village, 400 meters from the water front behind the Youth Club (El Mountada).

ARAB LEAGUE
ARAB MARITIME TRANSPORT ACADEMY
VICTOR BASILY ST., ALEXANDRIA
A. R. E.
CABLE-ARABCADEMY ALEXANDRIA
P. O. B. 1029
TEL: 25162 / 31450

Your Ref.:
Our Ref.:
Date:

4) Facilities:

1- Construction plan:

With close coordination with the Ministry of Maritime Transport, a full construction plan will be made according to the previous two proposals of the project sites.

2- Proposed facilities:

They comprise:

Classrooms: 12 x 50 m^2

Elec. Workshops: 1 x 300 m^2

Mech. Workshops: 1 x 300 m^2

Seamanship Lab: 1 x 200 m^2

Auditorium

Administration rooms

Hobbies room

Kitchen

Mess room and dormitories

Fire Fighting Section

Cargo Work Equipment

Library

Warehouses

3- Installation workshop and warehouse of providing equipment by the Government of Japan:

From our point of view the Japanese side with more experience in

ARAB LEAGUE
ARAB MARITIME TRANSPORT ACADEMY
VICTOR BASILY ST., ALEXANDRIA
A. R. E.
CABLE - ARABCADEMY
ALEXANDRIA
P. O. B. 1029
TEL.: 25462 / 31150

Your Ref.:
Our Ref.:
Date:

seamen training having nearly 30 schools equipped with modern aids can be in a position to offer the Academy best advice about the full construction plan including all needs "Experts, fellowships, equipment, different system of pre-sea training and upgrading studies".

5) Expansion programme of School of Specialized Seamen

1- Course:

The course followed at present is enclosed with previous answers. New expansion courses are still under study.

2- Full number of students:

Refer to previous answer.

3- Regulation Revision:

Revision of regulations dealing with issuance of seamen passports and upgrading will be carried out in the near future in coordination with the Ministry of Maritime Trasnport. The Academy has already drafted the preliminary proposed regulations.

6) Graduates:

1- Employment opportunity for graduates:

The Arab Merchant Fleet is increasing considerably. It is expected that more job opportunities will be available for graduates.

2- Salary and Wage of graduates:

The salary varies from country to country and from shipping com-

ARAB LEAGUE
ARAB MARITIME TRANSPORT ACADEMY
VICTOR BASILY ST., ALEXANDRIA
CABLE-ARABCADEMY ALEXANDRIA
A. R. E.
P. O. B. 1029
TEL: 25402 / 31450

Your Ref.:
Our Ref.:
Date:

pany to shipping company. In the Egyptian Navigation Company the graduate gets about 45 L.E. meanwhile the ordinary seaman gets about 15-20 L.E.

II. Other Information:

1) Status and position of IMCO's team leader under the New Organization:
No change because the New Organization deals only with the internal organization structure of the Academy.

IMCO Team Leader still supervises the activities of the experts and implements the the UN contribution constructing the Academy.

2) Prospected Status and Position of Japanese Team Leader at the Academy:
Will deal directly with the Director General and the Deputy Director G General for Education.

3) Necessary procedure and method to rent a house:
The Public Relations Department in the Academy helps in providing the reasonable flat for every expert leaving the final choice to him. The reasonable rent varies from 100-200 L.E. per month. One month deposit is normally paid in advance.

4) Scope field and contents of UN expert's duty:
Refer to UN answers in the previous questionnaire.

Ⅶ－９　海員学校の協力要望分野

ARAB LEAGUE
ARAB MARITIME TRANSPORT ACADEMY
VICTOR BASILY ST., ALEXANDRIA
A. R. E.

CABLE-ARABCADEMY
ALEXANDRIA

P. O. B. 1029
TEL.: 25962 - 31450

Your Ref.:
Our Ref.:
Date:

School of Specialized Seamen

I. Equipments:

Deck Department

1) One steering simulator
2) Four fibre glass life boats and equipment
3) Inflatable life rafts
4) Davits:
   - Gravity type
   - Auadrantal
5) Training films

Mechnical Department

1) Ventillation system
2) Lubrication oil system with pumps and motors
3) Steering gear system
4) Fuel system
5) Main Diesel engine
6) Shaft line bearing (thrust, gear, sterntube gland etc...)
7) Different types of pumps:
   - gear pump
   - cintrfugal pump

Electrical Department

1) Set of generators connected to a switchboard provided with electrical protection devices and electrical alarming system.

ARAB LEAGUE
ARAB MARITIME TRANSPORT ACADEMY
VICTOR BASILY ST., ALEXANDRIA
CABLE - ARABCADEMY
ALEXANDRIA
A. R. E.
P. O. B. 1029
TEL.: 2[illegible] 31[illegible]

Your Ref. :
Our Ref. :
Date :

2) Electrical Winch (model)
3) Main engine alarm system for oil, temperature, cooling water
4) Telephone, telegraph system from bridge to Main Engine or (Central Room).

II. Experts:

One senior expert to come as soon as possible for 2 years;he would be responsible to put the work plan for the operation of the School and then to help in implementing the plan.

He would also be responsible for drafting the regulations concerning rating, certification, examination and service. He will help in determining the size of the school and the number of trainees that should be recruited each year.

Four experts in various specializations (deck - engine - electricity) and catering to help senior expert.

III. Fellowships:

Visits to school of Specialized Seamen in Japan for the following
- Director and the School
- 3 heads of Departments (Deck - mechanical and elect.)

Our Ref. : 2/33-1
Date: 25/10/1975

Minutes of Meeting No 1.
between the Japanese Delegation
and the
Arab Maritime Transport Academy

Place of meeting : Deputy Director General of Education's office in the Arab Maritime Transport Academy.

Time of meeting : 0900 a.m.

Date of meeting : 25 October, 1975

Attendants :

Arab Maritime Transport Academy

1) Commodore Alphonse Sadek : Deputy Director General of Education.
2) Commodore Ahmed Sharaf : Director of School of Specialized Seamen
3) Commodore Gamal Hussein : Head of Fellowships Department.

The Japanese Delegation

1) Keiji, Kishimoto : Head of Second Research Section
   Institute for Sea Training, Ministry of Transport.
2) Hiroshi Mizuno : Chief Engineer
   Marine Engineering, Mitsui O.S.K. Lines Ltd.
3) Yumio Yonezawa : Assistant Professor
   Marine Navigation, Marine Technical College, Ministry of Transport.

ARAB LEAGUE
ARAB MARITIME TRANSPORT ACADEMY
VICTOR BASILY ST. ALEXANDRIA
CABLE-ARABCADEMY ALEXANDRIA
A. R. E.
P. O. B. 1029
TEL: 25162 / 31450

Your Ref. :
Our Ref. :
Date :

4) Yukihisa Sakurada : Coordinator

Overseas Centres Division, Social Development Cooperation Department, Japan International Cooperation Agency.

Procedures :

1) The program of the visit was reviewed and amended to give more time for the visits to the College of Navigating Officers and the College of Marine Engineers.

2) The Head of the Japanese Delegation clarified the purpose of their visit. He referred to the previous visit of the first Japanese Delegation last year. He stated that it is clear now that the Egyptian Government is ready to accept to be the recepient country to the Japanese Technical Cooperation and Japan will extend this cooperation to the Arab Maritime Transport Academy through the Egyptian Government.

3) The main objective of the Japanese visit is to carry out a feasibility study on the technical aid required for the Academy. It is required to find out the fields and areas where the cooperation could be extended to.

ARAB LEAGUE
ARAB MARITIME TRANSPORT ACADEMY
VICTOR BASILY ST., ALEXANDRIA
CABLE-ARABCADEMY ALEXANDRIA
A. R. E.
P. O. B. 1029
TEL: 25962 - 31450

Your Ref.:
Our Ref.:
Date:

It was made clear that the Japanese Delegation is interested in the various Institutes of the Academy especially in the Cadet College, Nautical Studies and Marine Engineering Studies.

The Head of the Japanese Delegation explained that Japan is considered now the most advanced maritime country in the world and therefore the aim of the Japanese Authorities should be compatible with the Japanese advanced technology. He mentioned the following areas where assistance could be of great value:

Electronics Navigation Aids
Cargo work (including tanker systems)
Diesel plant and auxiliary boiler plants
Automatic Control
Electrical Machinery.

4) Commodore Sadek explained the present organization of the Academy and the new organization which was adopted by the Board of Directors in their last meeting. He gave a copy of the Management Study carrie out by CMP for the new organization to the Delegation.

Commodore Sadek also explained the various schemes of trainin followed in the Academy for Navigating, Engineering and Radio Office

ARAB LEAGUE
ARAB MARITIME TRANSPORT ACADEMY
VICTOR BASILY ST., ALEXANDRIA
A. R. E.
CABLE-ARABCADEMY ALEXANDRIA
P. O. B. 1029
TEL: 25152 - 31450

Your Ref.:
Our Ref.:
Date:

He also explained the system of certification in Egypt. The objectives of the College of Maritime Transport and the School of Specialized Seamen were clarified briefly.

Commodore Sadek expressed that this meeting is a preliminary one but he proposed the idea of extending the Japanese Assistance in two main fields should be considered.

These two fields are:

i - Assistance in the construction of the new basic Seamen Training Centre in Abu-Kir (Schemes of training - Experts - Equipment - Fellowships).

ii - Assistance in providing more training aids to the various departments of the Academy with special emphasis on the fields mentioned by the Japanese Delegation.

5) Mr. Sakurada, the coordinator of Overseas Centers Division in the Japan International Cooperation Agency; explained the system followed in Japan for technical cooperation with other countries. He emphasized on the fact that this cooperation should be extended to a specific government and not to regional organizations. He also explained that the objective of the present phase is carrying out the feasibility study and preparing a report containing the proposals of the Delegation.

ARAB LEAGUE
ARAB MARITIME TRANSPORT ACADEMY
VICTOR BASILY ST., ALEXANDRIA
A. R. E.
CABLE-ARABCADEMY ALEXANDRIA
P. O. B. 1029
TEL: 25162 / 31459

Your Ref.:
Our Ref.:
Date:

He expects another delegation to come in 1976 for the implementation study and to sign the record of discussions between the Head of the Implementation Delegation and the responsible person of the Ministry of Maritime Transport. The agreement might be signed by the Embassador and the Ministry of Foreign Affairs.

6) Mr. Yonezawa, Assistant Professor of Marine Technical College in the Ministry of Transport; explained the system of training and certification in Japan. He distributed a catalogue about the Marine Technical College. Mr. Kishimoto, Head of Second Research Section of Institute for Sea Training in the Ministry of Transport; expressed his will to help any visitors sent by the Academy to visit Japanese maritime Colleges and Universities in Japan.

7) The visitors attended a meeting with the Project Manager where the programme of IMCO - UNDP assistance was studied. Both parties expressed their wish concerning the importance of coordination between Japanese assistance and IMCO assistance especially in the field of experts. The Project Manager emphasized on the fact that the School of Specialized Seamen was the area least assisted by IMCO and he invited the Japanese Delegation to concentrate on that area and giving less attention to the officers' field. He welcome any addition in the training aids component especially in the subjects previously mentioned by the Japanese Delegation.

ARAB LEAGUE
ARAB MARITIME TRANSPORT ACADEMY
VICTOR BASILY ST., ALEXANDRIA
A. R. E.
CABLE-ARABCADEMY
ALEXANDRIA
P. O. B. 1029
TEL: 27362 - 31450

Your Ref. :
Our Ref. :
Date :

Commodore Sadek stated that it was too early to arrive to final decision regarding the area at the Japanese assistance and that the ideas suggested in the meeting need deeper study to arrive to specific conclusions.

8) The Japanese Delegation handed a five page questionnaire to be answered by the Academy, The Ministry and the Project Manager. The answers are required as soon as possible.

9) The following procedure was agreed upon for the visit:

i - Preliminary meeting and general discussion with the Director General, the Project Manager and the Deputy Director General.

ii - Detailed visits and survey to Institutes and Colleges and more discussions with the Directors of these Institutes.

iii - Further discussions and exchanging ideas with the Deputy Director General.

iv - Determination of some details of cooperation field and final discussion with the Director General.

It was made clear that the cooperation should be planned to the satisfaction of both parties.

ARAB LEAGUE
ARAB MARITIME TRANSPORT ACADEMY
VICTOR BASILY ST., ALEXANDRIA
A. R. E.

CABLE - ARABCADEMY
ALEXANDRIA

P. O. B. 1029
TEL: 25182 / 31450

Your Ref. :
Our Ref. :
Date :

The meeting ended at 1130 a.m. and the delegation moved to visit the School of Specialized Seamen and the Flosting Units "Venus" and "Ebn Maged".

Arab Maritime Transport Academy	For the Japanese Delegation
Commodore A. Sadek	Mr. K. Kishimoto
Deputy Director General	Head of the Japanese Delegation

ARAB LEAGUE
ARAB MARITIME TRANSPORT ACADEMY
VICTOR BASILY ST., ALEXANDRIA
A. R. E.

CABLE-ARABCADEMY
ALEXANDRIA

P. O. B. 1029
TEL: 25402 / 31430

Your Ref.:
Our Ref.: 2/33-1
Date: 1/11/1975

Minutes of Meeting No.2
between the Japanese Delegation
and the
Arab Maritime Transport Academy

Place of meeting: Deputy Director General of Education's office is the Arab Maritime Transport Academy.
Time of meeting: 0830 a.m.
Date of meeting: I/II/1975

Attendants:

Arab Maritime Transport Academy

1) Commodore Alphonse Sadek: Deputy Director General of Education.
2) Commodore Ahmed Sharaf: Director of School of Specialized Seamen.
3) Admiral Sameeh Ibrahim: Head of Educational planning Department.

The Japanese Delegation

1) Keiji, Kishimoto: Head of Second Research Section
institute for Sea Training, Ministry of Transport.
2) Hiroshi Mizonu: Chief Engineer
Marine Engineering, Mitsui O.S.K. Lines Ltd.
3) Yumio Yonezawa: Assistant Professor
Marine Navigation, Marine Technical College, Ministry of Transport.

ARAB LEAGUE
ARAB MARITIME TRANSPORT ACADEMY
VICTOR BASILY ST., ALEXANDRIA
A. R. E.
CABLE-ARABCADEMY
ALEXANDRIA
P. O. B. 1029
TEL: 2592 - 3130

Your Ref.:
Our Ref.:
Date:

4) Yukihisa Sakurada: Coordinator
Overseas Centres Division, Social Development Cooperation Department Japan International Cooperation Agency.

5) Mikio Kojima: First Secretary
Embassy of Japan, Cairo.

Procedures:

1) The meeting started by reviewing what has been accomplished during the first week of the delegation's visit. This week has been utilized in preliminary talks and meetings with the responsible people in the Academy and in visiting the various schools and the departments according to the programme previously agreed upon.

2) Mr. Kishimoto stated that the present meeting should be devoted to deeper discussions about the areas where Japanese assistance could be given to build concrete ideas, and he submitted the Japanese Delegation's idea as attached herewith.

3) Mr. Kishimoto stated that there is some contradiction between what was written about the Seamen's School in the organization book and what was found out during the visit to the School and meetings with the responsible people. This was answered by Commodore Sadek who corrected the data given in the organization book regarding the num-

ARAB LEAGUE
ARAB MARITIME TRANSPORT ACADEMY
VICTOR BASILY ST., ALEXANDRIA
A. R. E.
CABLE-ARABCADEMY
ALEXANDRIA
P. O. B. 1029
TEL : 25162 / 31450

Your Ref. :
Our Ref. :
Date :

ber of seamen expected to be trained in the School. The correct number is about 200 every year and not 100 as stated in the book.

4) Admiral Sameeh explained the answers prepared to the questions which were previously given by the Japanese Delegation. The answers will be handed to the Delegation in the evening of the same day. These answers explain also the details which were raised about the UN Experts.

5) The Japanese Delegation handed a questionnaire about the Seamen's School. The answers were discussed and will be given after typing them in the evening of the same day.

6) In addition to the above mentioned questions the following points were raised concerning the Seamen's School:
   a- Some other Arab countries are thinking of constructing National Training Schools for seamen. Iraq has already an operational school. Lybia and Kuwait are planning to contruct new ones.
   b- The Academy gave great attention to the Seamen's School investing about 70-80 thousand pounds in its classes and equipment. This was more than the money invested in any other School except the Cadet College. This proves the great concern in this School.

ARAB LEAGUE
ARAB MARITIME TRANSPORT ACADEMY
VICTOR BASILY ST., ALEXANDRIA
A. R. E.
CABLE - ARABCADEMY
ALEXANDRIA
P. O. B. 1029
TEL.: 25462 / 31470

Your Ref. :
Our Ref. :
Date :

c- The reasons of the small numbers of trainees in this School were:
- the great numbers of Egyptian seamen holding seamen passports at present
- the lack of seriousness in implementing the regulations of examinations of seamen

d- It would be very beneficial if a Japanese expert would start as soon as possible helping in drafting regulations for exeminations and certifications of seamen with both the Ministry of Maritime Transport and with the Academy. He would then help in the future in the implementation of the regulations.

7) The treatment of the Japanese experts was discussed. It was stated that every expert will have an Arab counterpart and the team leader will be working in coordination with the Director General or with the Deputy Director General of Education and with easy access to the Director General. The Experts will be treated in the same way as the UN Experts.

8) The priority of fields of cooperations were mentioned; emongst them were the fields of automatic control and tanker systems. It was stated that the experts would be responsible for setting the courses in the specialities determined by the equipment provided. If the expert was of high

ARAB LEAGUE
ARAB MARITIME TRANSPORT ACADEMY
VICTOR BASILY ST., ALEXANDRIA
A. R. E.
CABLE-ARABCADEMY
ALEXANDRIA
P. O. B. 1029
TEL: 2552 - 3150

Your Ref.:
Our Ref.:
Date:

academic standard and wide experience he could also help in laying the syllabuses and curriculum.

9) The Japanese Delegation made clear that their equipment and the training aids will be sent CIF to Alexandria.

The Japanese Delegation asked for the Academy's proposals for equipment and the priority suggested. They were promised that they will have the priority list in the evening and they were handed photocopies of the list of the proposed equipment.

10) The problem of providing a training vessel was raised. The Japanese Delegation showed that Japan does not provide normally such equipment. Commodore Sadek suggested that the vessel could be given as a loan for a limited number of years.

11) The meeting was terminated at 11 a.m. and it was agreed that a final meeting would be held in the following day to discuss final recommendations.

for A.M.T.A.
Deputy Director General
Asadek
2-11-1975

Head of Japanese mission
K. Kishimoto

ARAB LEAGUE
ARAB MARITIME TRANSPORT ACADEMY
VICTOR BASILY ST., ALEXANDRIA
A. R. E.

CABLE-ARABCADEMY
ALEXANDRIA

P. O. B. 1029
TEL: 25162 / 3110

Your Ref.:
Our Ref.: 2/33-1
Date: 2/11/1975

Minutes of Meeting No. 3
between the Japanese Delegation
and the
Arab Maritime Transport Academy

Place of meeting: Deputy Director General of Education's office in the Arab Maritime Transport Academy.

Time of meeting: 0930 a.m.

Date of meeting: 2/11/1975

Attendants:

Arab Maritime Transport Academy

1) Commodore Alphonse Sadek: Deputy Director General of Education.
2) Commodore Ahmed Sharaf: Director of School of Specialized Seamen.
3) Admiral Sameeh Ibrahim: Head of Educational planning Department.

The Japanese Delegation

1) Keiji Kishimoto: Head of Second Research Section
   Institute for Sea Training, Ministry of Transport.
2) Hiroshi Mizonu: Chief Engineer
   Marine Engineering, Mitsui O.S.K. Lines Ltd.
3) Yumio Yonezawa: Assistant Professor
   Marine Navigation, Marine Technical College, Ministry of Transport.

ARAB LEAGUE
ARAB MARITIME TRANSPORT ACADEMY
VICTOR BASILY ST., ALEXANDRIA
A. R. E.

CABLE-ARABCADEMY
ALEXANDRIA

P. O. B. 1029
TEL: 25192 / 31150

Your Ref.:
Our Ref.:
Date:

4) Yukihisa Sakurada: Coordinator
Overseas Centres Division, Social Development Cooperation Department
Japan International Cooperation Agency.
5) Mikio Kojima: First Secretary
Embassy of Japan, Cairo.

Procedures:

1) The Head of the Japanese Delegation stated that that meeting represents the fourth stage of the feasibility survey. He said that he can give a general idea about the conclusions of the mission. It is as follows:
   a- Cooperation in all technical matters in the School of Specialized Seamen (including planning).
   b- Cooperation in one or two subject in college of Navigating Officers' Studies.
   c- Cooperation in one or two subjects in the College of Marine Engineering Studies.

2) The Head of the Japanese Delegation stated that hé is unable to declare at the present stage the kinds of equipment and the subjects in the Colleges which the Delegation will recommend. The report including this information will be submitted to the Japanese Authorities (J.I.C.A.) upon the return of the mission to Japan. According to this report Japan will put the draft of the final project and send another implementation mission to sign the record of discussions in the near future

ARAB LEAGUE
ARAB MARITIME TRANSPORT ACADEMY
VICTOR BASILY ST., ALEXANDRIA
A. R. E.
CABLE-ARABCADEMY
ALEXANDRIA
P. O. B. 1029
TEL: 2542 ; 3450

Your Ref.:
Our Ref.:
Date:

(probably in 1976).

3) Commodore Sadek proposed including the possibility of training some cadets on board Japanese ships for 18 months in the agreement.

4) Admiral Sameeh clarified that the lists given for the equipment needed for the School of Specialized Seamen are tentative lists based upon the present requirements of the School in its present buildings. The lists needed for the new expanded School should be drawn by the expert who is required to come as soon as possible.

5) The Academy's Delegation stated the importance of arranging visits to the Japanese maritime Schools and institutes for the Heads of Departments and Directors of Schools in the Academy. Two groups are supposed to visit Japan, every group consisting of two to three persons. The Japanese delegation promised to study this proposition and asked the Academy to write to this effect to the Japanese Embassy through the normal channels.

In general it was expressed that such visits are welcome.

7) The types of simulators and equipments were discussed in general and it was stated that this should be finalized according to the budget approved by the Japanese Government and according to the latest inventions in the training aids.

ARAB LEAGUE
ARAB MARITIME TRANSPORT ACADEMY
VICTOR BASILY ST., ALEXANDRIA
A. R. E.

CABLE - ARABCADEMY
ALEXANDRIA

P. O. B. 1029
TEL: 2582 - 3149

Your Ref. :
Our Ref. :
Date :

8) The Delegation paid a visit to the Project Manager and briefed him about their findings and future steps as mentioned above.

9) The meeting terminated at 10.30 a.m.

For A.R.M.T.A. .....
Deputy Director General
Abdelaziz
3/11/1975

For Japanese survey mission
Head of Japanese mission
K. Kishimoto

Ⅶ－11　面会者リスト

1. 在エジプト日本大使館

和田　力　　特命全権大使

中村泰三　　参事官

小島幹史　　一等書記官

石川　　三等書記官

2. 海 運 省 (MINISTRY OF MARITIME TRANSPORT)

海運大臣 (Minister)

Rear-Admiral. MAHMOUD ABDEL RAHMAN FAHMY

海運次官 (Under Secretary of State)

Mr. M. N. EL-MAMOUN

海運次官 (Under Secretary of State)

Mr. HAMDY HASSAN EL-SABBAGH

3. ARAB MARITIME TRANSPORT ACADEMY

総 長 (Director General)

Commodore. GAMAL MOUKHTAR

教育部門担当副総長 (Deputy Director General for Education)

Commodore. ALPHONSE H. SADEK

教育計画部長 (Head of Educational Planning Department)

Admiral. SAMEEH IBRAHIM

研修部長 (Head of Fellowships Department)

Commodore. SEMAL HUSSEIN

Cadet College 校長 (Principal)

Commodore. MOHAMMED A. EL-AMIR

College of Navigation Officers' Studies 校長 (Principal)

Capt. A. FOUAD ASSAD

College of Marine Engineering Studies 校長 (Principal)

Commodore Eng. M. F. NASSERDEIN

College of Maritime Transport 校長 (Principal)

Dr. A. M. MAMOUD

School for Specialized Seamen 校長(Principal)

Commodore. AHMED A. SHARAF

訓練資材部長 (Chief of Training Aid Department)

Mr. A. A. ELMAGHRABI

図書館長 (Head Librarian)

Mr. AHMED MANSOUR

上級指導員 (Senior Instructor, Cadet College)

Capt. S. KHORSHED

上級指導員 (Senior Instructor, College of Maritime Transport)

Capt. ALI RASHAD

上級指導員 (Senior Instructor, College of Maritime Transport)

Mr. HAZEM EL-SAYEG

4. 国連関係

Project Manager (IMCO)

Capt. M. ZAKAULLAH

Lecture, College of Navigating Officers' Studies (IMCO)

Capt. R. STICKLAND

Instructor, School for Specialized Seamen (ILO)

Mr. SVEN HAGWALL

Ⅶ－12　収集資料リスト

1. THE ARAB MARITIME TRANSPORT ACADEMY
   MANAGEMENT STUDY

2. ARAB MARITIME TRANSPORT ACADEMY 1974

3. JOURNAL OF ARAB MARITIME TRANSPORT ACADEMY
   SEMI-ANNUAL JULY 1975 VOL. 1 No. 1

4. ARAB LEAGUE
   ARAB MARITIME TRANSPORT
   ACADEMY
   COLLEGE FOR NAVIGATION OFFICERS
   GUIDE TO COURSES May 1975.

5. ARAB MARITIME TRANSPORT ACADEMY
   SYLLABUS FOR BASIC COURSE - ELECTRICIANS.
   SPECIALIZED SEAMEN SCHOOL

6. ARAB MARITIME TRANSPORT ACADEMY
   SPECIALIZED SEAMEN SCHOOL
   SYLLABUS FOR BASIC TRAINING.
   ENGINE ROOM RATINGS.

7. ARAB MARITIME TRANSPORT ACADEMY
   SPECIALIZED SEAMEN SCHOOL
   SYLLABUS FOR BASIC SEAMEN TRAINING DECK.