## APPENDICES

### APPENDICES

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### Basic Design Study

1.

### 1.1 Minutes of Discussion

### MINUTES OF DISCUSSIONS ON THE BASIC DESIGN STUDY ON

### THE PROJECT FOR ESTABLISHMENT OF DRUGS STORAGE AND DISTRIBUTION CENTER IN THE ARAB REPUBLIC OF EGYPT

In response to the request made by the Government of the Arab Republic of Egypt, the Government of Japan decided to conduct a Basic Design Study on the Project for Establishment of the Drugs Storage and Distribution Center (hereinafter referred to as "the Project") and the Japan International Cooperation Agency (JICA) sent the Basic Design Study Team headed by Mr. Akira Kawahara, Deputy Director of the First Evaluation and Registration Division, Pharmaceutical Affairs Bureau, Ministry of Health and Welfare, from March 26, to April 24, 1988.

The team had a series of discussions with the authorities concerned of the Government of the Arab Republic of Egypt, headed by Dr. Medhat El-Kattan, Chairman of the General Organization for Drugs and Dr. Abdel Aziz Ghazal, Chairman of the Egyptian Pharamaceutical Trading Company (EPTC), and conducted a field survey.

As a result of the study, both parties have agreed to recommend to their respective Governments that the major points of understanding reached between them as attached herewith should be examined towards the realization of the Project.

Cairo, August 2, 1988

Abdel Aziz Ghazal Chairman, The Egyptian Pharmaceutical Trading Company

Witnessed by

Keiji Iimura

Study Team

JICA Egypt Office

Resident Representative,

on behalf of Basic Design

Dr. Helmy El-Bardmoui Undersecretary of State Ministry of Health

Saad Bayoumi Undersecretary Ministry of International Cooperation

### 1. Objectives of the Project

The objective of the Project is to improve the efficiency of drug storage and distribution in Egypt with establishment of the Drugs Storage and Distribution Center of the Egyptian Pharmaceutical Trading Company (EPTC).

#### 2. Executing Agency

The responsible Ministry for the Project in the Government of Egypt is the Ministry of Health, and the General Organization for Drugs and the Egyptian Pharmaceutical Trading Company will be responsible for implementation of the Project and operation of the Center after its completion.

#### 3. Project Site

The Project site is shown in Annex I.

### 4. Major Items Requested

atte dage g The major items requested by EPTC are as listed in Annex II.

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### 5. Grant Aid Program

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- The Egyptian side has understood the system and procedures of the Japanese Grant Aid as explained by the study team including a principle of use of a Japanese consulting firm 5-1 and Japanese general contractors for the implementation of the Project.
- The study team will convey to the Government of Japan the 5-2 request of the EPTC that the former takes necessary measures to cooperate in implementing the Project by providing necessary facilities and equipment under Japan's Grant Aid Program.
- The Government of the Arab Republic of Egypt has agreed to 5~3 provide the necessary measures as listed in Annex III on condition that the grant aid by the Government of Japan would be extended to the Project.

### 6. Tentative Implementation Schedule and Procedures in Egypt

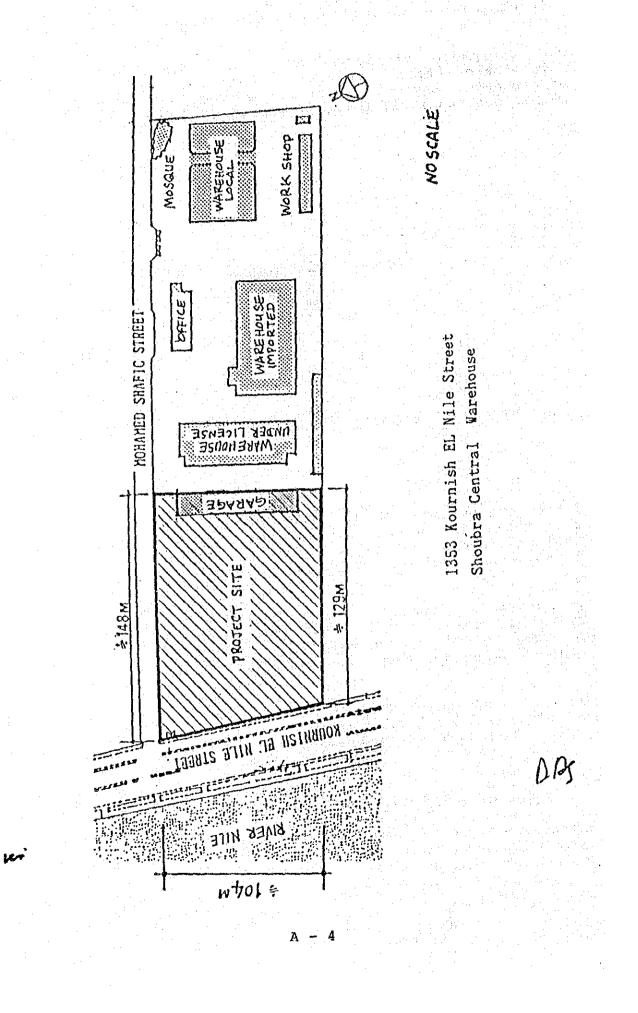
The tentative implementation schedule, to be realized on 6-1 condition that the Grant Aid by the Government of Japan should be extended to the Project, is shown in Annex IV.

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6-2 The Egyptian side will take necessary actions to expedite the approval for executions of this project by the Government of the Arab Republic of Egypt.

7. The equipment provided under the grant shall have a maintenance office in Egypt which is capable of its maintenance. Any exception for above should be agreed by both sides considering the nature of the equipment.

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### Annex II

### Major Items Requested

### Construction of a Building with :

- storage rooms for :
   i) ordinary drugs
  - ii) restricted substances
  - iii) inflammable substances
- 2) walk-in refrigerator for vaccine and sera
- 3) truck berth

- 4) elevators
   5) offices
   6) fire alarm and fighting system (hydaurant and
- extinguishers)
- 7) ventilation system 8) public address system
- 9) electricity, water supply and drainage system within the Project site
- 10) workshop

### . Equipment

- 1) racks and pallets
- 2) computers
- 3) trucks (ordinary and airconditioned for such items as

A – 5

- insulin and serum preparation)
- 4) other equipment necessary for transportation in the storage rooms

- Annex III Recommendations for Undertakings by The Governments of the Arab Repblic of Egypt, in accordance with Egyptian Regulations and Relevant Laws
- 1. To secure the land for the Project and to clear, level and reclaim the site, and to remove the exisiting garage before construction starts, if it is necessary.
- 2. To provide facilities for the distribution of electricity, water supply, drainage, telephone, gas, and other incidental facilities.
- 3. To ensure the necessary budget (from fiscal year 1989/1990) and personnel for the proper and effective operation and maintenance of facilities and equipment provided under the grant.
- 4. To ensure prompt unloading, tax exemption, customs clearance at the port of disembarkation in Egypt and prompt internal transportation of materials and equipment provided under the grant in accordance with the law and regulations concerned in Egypt.
- 5. To accord Japanese nationals whose services may be required in connection with the supply of the products and the services under the verified contracts such facilities as may be necessary for their entry into Egypt and stay therein for the execution of the Project.
- 6. Japanese nationals involved in the Project will not be subject to any customs duties, internal taxes, and other fiscal levies which may be imposed in Egypt with respect to the supply of the products and services under the verified contract.
- 7. To bear all expenses, other than those to be borne by the grant, necessary for contruction of the facilities as well as for the transportation and installation of the equipment.

|   |            | · .                       | · · · ·           |                     | •                             |                     |                   |                        |                     |                          |                         |          |           |  |
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|   | 19         |                           |                   |                     |                               |                     |                   |                        | r-                  |                          |                         | 4        |           | . :                                      |
|   | 18         |                           |                   |                     |                               |                     |                   |                        |                     |                          |                         |          |           |  |
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|   | 16         |                           |                   | in the second       |                               |                     |                   |                        |                     |                          |                         |          |           | Kgr                                      |
|   | 15         |                           |                   |                     |                               |                     |                   |                        |                     | *****                    |                         |          |           |  |
|   | 14         |                           |                   |                     |                               |                     |                   |                        |                     |                          | ·                       |          |           |  |
|   | 13         |                           |                   |                     |                               |                     |                   |                        |                     |                          |                         |          |           |  |
|   | 12         |                           |                   |                     |                               |                     |                   | <b></b>                |                     |                          |                         |          |           |  |
|   |            |                           |                   |                     |                               |                     |                   |                        | -                   |                          |                         |          |           |  |
|   | 10         |                           |                   | <b> </b>            |                               |                     |                   |                        |                     |                          |                         |          |           |  |
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|   | <b>6</b>   |                           |                   |                     |                               |                     |                   |                        |                     |                          | <u></u>                 |          |           |  |
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| to the second second<br>second second second<br>second second |            | Exchange of Notes         | Approval by N.P.A | Consulting Contract | D/D & Tender Doc.             | Tender Announcement | Tender Opening    | Construction Contract. | Construction Period | Transportation (arrival) | Trial (run & operation) | Delivery |           |  |
|   | V          | [ CL]                     | -                 | 1.0                 |                               | 1                   | <br>A             | 7                      |                     | 1                        | •                       | •        | •         |  |
| an an an Anna Anna<br>Anna Anna<br>Anna Anna  |            |                           |                   |                     |                               |                     |                   |                        |                     |                          |                         |          |           |  |
|   |            |                           |                   |                     |                               |                     |                   |                        |                     |                          |                         |          |           |  |

Annex XV Tentative Implementation Schedule

### 1.2 Members of Basic Design Study Team

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|---------------------------------------|--|--|
| Assignment                            | Name   | Position   |
| Team Leader                           | Akira KAWAHARA   | Deputy Director, First Evalua-<br>tion and Registration Division,<br>Pharmaceutical Affairs Bureau,<br>Ministry of Health and Welfare  |
| Project<br>Coordinator                | Harumi KITABAYASHI   | Grant Aid Planning and Survey<br>Department, Japan International<br>Cooperation Agency (JICA)  |
| Pharmaceutical<br>Supply Specialist   | Kuniyasu FUJISHITA   | Ohtsuka Pharmaceutical Co., Ltd.   |
| Architectual<br>Planner               | Shinichi INOUE   | Azusa Sekkei Co., Ltd.   |
| Architectual<br>Designer              | Hiroyasu TOYOKAWA  | Azusa Sekkei Co., Ltd.   |
| Utility Planner                       | Tsuneo SAFU  | Azusa Sekkei Co., Ltd.   |
| Distribution and<br>Equipment Planner | Hideo KAWAHARA   | Azusa Sekkei Co., Ltd.   |

## (1) Basic Design Study

# (2) Explanation of Basic Design Draft Report

| Assignment                            | Name               | Position   |
|---------------------------------------|--------------------|--|
| Team Leader                           | Kazushi ENDOH      | Expert of Pharmaceutical Affairs,<br>Inspection and Guidance Division,<br>Pharmaceutical Affairs Bureau,<br>Ministry of Health and Welfare |
| Project<br>Coordinator                | Harumi KITABAYASHI | Grant Aid Planning and Survey<br>Department, Japan International<br>Cooperation Agency (JICA)  |
| Architectual<br>Planner               | Shinichi INOUE     | Azusa Sekkei Co., Ltd.   |
| Utility Planner                       | Tsuneo SAFU        | Azusa Sekkei Co., Ltd.   |
| Distribution and<br>Equipment Planner | Hideo KAWAHARA     | Azusa Sekkei Co., Ltd.   |

|   | 1.3 | Itinerary c | of Study   |         |
|---|-----|-------------|------------|---------|
| : |     | (1) Basic   | Decian Stu | a. Door |

| Date                    | Member  | Activity   | Locatio  |
|-------------------------|---|--|----------|
| 26 March<br>(Satuaday)  | Kawahara, Kitabayashi,<br>Fujishita, Inoue,<br>Kawahara, Toyokawa, Safu | Leave Narita 21:10 by BA-006   |          |
| 27 March<br>(Sunday)    | Kawahara, Kitabayashi,<br>Fujishita, Inoue,<br>Kawahara, Toyokawa, Safu | Arrive Cairo 22:30 by BA-157   | Cairo    |
| 28 Màrch<br>(Monday)    | Kawahara, Kitabayashi,<br>Fujishita, Inoue,<br>Kawahara, Toyokawa, Safu | (1) Social visit to JICA Office,<br>Japanese Embassy, General<br>Organization for Pharmaceuticals,<br>Chemicals and Medical Appliances,<br>EPTC, Ministry of Planning and<br>International Cooperation |          |
|                         |   | (2) Submit Inception Report and<br>Questionnaire   |          |
| 29 March<br>(Tuesday)   | Kawahara, Kitabayashi,<br>Fujishita, Inoue,<br>Kawahara, Toyokawa, Safu | <ol> <li>Explain Inception Report and<br/>Grant Aid System to EPTC</li> <li>Inspect Shoubra main warehouse</li> </ol>  |          |
| 30 March<br>(Nednesday) | Kawahara, Kitabayashi,<br>Fujishita, Inoue,<br>Kawahara, Toyokawa, Safu | <ul><li>(1) Inspect drug supply center</li><li>(2) Meeting at Shoubra main warehouse</li></ul>   |          |
| 31 March<br>(Thursday)  | Kawahara, Kitabayashi,<br>Fujishita, Inoue,<br>Kawahara, Safu           | (1) Inspect Mahara and Babshak<br>Intermediate warehouses  | Alexandr |
|                         | Toyokawa  | <ol> <li>Prepare conceptual drawing and<br/>sketch</li> </ol>  | Cairo    |
| 1 April<br>(Holiday)    | Kawahara, Kitabayashi,<br>Fujishita, Inoue,<br>Kawahara, Safu           | (1) Inspect pharmacies and warehouses<br>in Alexandria and return to Cairo   | Cairo    |
|                         | Toyokawa  | (1) Prepare conceptual drawing and sketch  |          |
| 2 April<br>(Saturday)   | Kawahara, Kitabayashi,<br>Fujishita, Inoue,<br>Kawahara, Toyokawa, Safu | (1) Survey construction condition in<br>Cairo  |          |
| 3 April<br>(Sunday)     | Kawahara, Kitabayashi,<br>Fujishita, Inoue,<br>Kawahara, Toyokawa, Safu | (1) Discuss organization of EPTC<br>at EPTC  | -        |
|                         | Kawahara, Kitabayashi,<br>Fujishita, Inoue                              | (2) Hear drug distribution at Cairo<br>University Pediatric Hospital   |          |
|                         | Kawahara, Toyokawa, Safu  | (1) Inspect Shoubra main warehouse   |          |

## (1) Basic Design Study Team

| DECOMPOSITE CONTRACTOR  | ۲۶۵۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰        |  |          |
|-------------------------|---|--|----------|
| Date                    | Member  | Activity   | Location |
| 4 April<br>(Monday)     | Kawahara, Kitabayashi,<br>Fujishita, Inoue,   | (1) Explain the draft of minutes to EPTC   |          |
|                         | Kawahara, Toyokawa, Safu                      | (2) Inspect Arab Ctsuka pharma-<br>ceutical plant  |          |
| 5 April<br>(Tuesday)    | Kawahara, Kitabayashi,<br>Fujishita, Inoue    | (1) Discuss Minutes at EPTC  |          |
|                         | Kawahara, Toyokawa, Safu                      | <ol> <li>Inspect Shoubra main warehouse,<br/>submit supplementary<br/>questionnaire</li> </ol> |          |
|                         |   | (2) Prepare site layout plan and construction schedule   |          |
| 6 April<br>(Wednesday)  | Kawahara, Kitabayashi,<br>Fujishita, Inoue    | <ol> <li>Discussed minutes, but no<br/>agreement was reached.</li> </ol>                       |          |
|                         | Kawahara, Toyokawa, Safu                      | (1) Inspect Shoubra main warehouse   |          |
| 7 April                 | Kawahara Kitabayashi,                         | (1) Report to JICA Office  |          |
| (Thursday)              | Fujishita, Inoue,<br>Kawahara, Toyokawa, Safu | (2) Visit EPTC and Ministry of<br>Planning & International<br>Cooperation to report departure  |          |
|                         |   | of Kawahara, Kitabayashi and<br>Fujishita (leave by JL-474)                                    |          |
| 8 April<br>(Holiday)    | Inoue, Kawahara,<br>Toyokawa, Safu            | (1) Meeting within team and<br>arrangement of collected<br>information                         |          |
| 9 April<br>(Saturday)   | Inoue, Kawahara,<br>Toyokawa, Safu            | (1) Inspect Shoubra main warehouse<br>and verify received data                                 |          |
| 10 April<br>(Sunday)    | Inoue, Kawahara,<br>Toyokawa, Safu            | (1) Inspect equipment used at<br>Shoubra main warehouse  |          |
|                         |   | (2) Interim report to JICA Office  |          |
| 11 April<br>(National   | Inoue, Kawahara,<br>Toyokawa, Safu            | (1) Meeting within team, arrange collected information   |          |
| holiday)                |   | (2) Prepare basic design sketch  |          |
| 12 April<br>(Tuesday)   | Inoue, Kawahara,<br>Toyokawa, Safu            | (1) Inspect Shoubra main warehouse   |          |
|                         |   | (2) Prepare basic design sketch  |          |
| 13 April<br>(Wednesday) | Inoue, Kawahara,<br>Toyokawa, Safu            | (1) Inspect Shoubra main warehouse   |          |
|                         |   | (2) Study economic condition in<br>Egypt   |          |
|                         |   | (3) Survey price of equipment and<br>material  |          |
|                         |   |  |          |
|                         |   |  |          |
|                         |   | A - 10   |          |

|   |   |   | ,<br>,  |
|---|---|---|---|
| Date  | Member                                    | Activity  | Location  |
| 14 April<br>(Thursday)                          | Inoue, Kawahara,<br>Toyokawa, Safu        | <ol> <li>Inspect Shoubra main warehouse</li> <li>Confirmed survey and boring<br/>position</li> </ol>                              | ann an Santa Anna an Santa Anna Anna Anna Anna Anna Anna Anna |
| 15 April<br>(Holiday)                           | Inoue, Kawahara,<br>Toyokawa, Safu        | (1) Meeting within team.<br>Arrange collected information   |   |
| 16 April<br>(Saturday)                          | Inoue, Kawahara, Safu<br>Toyokawa         | <ol> <li>Inspect Shoubra main warehouse</li> <li>Survey price of equipment and<br/>material</li> </ol>                            |   |
| 17 April<br>(Sunday)<br>Beginning<br>of Ramadan | Inoue, Kawahara, Safu                     | <ol> <li>Investigate Nile Company<br/>pharmaceutical company</li> <li>Investigate Shoubra main<br/>warehouse</li> </ol>           |   |
|   | Toyokawa                                  | <ol> <li>Visit Bank of Tokyo Cairo Office<br/>Hear Egypt economic condition<br/>from Manager Sato and receive<br/>data</li> </ol> |   |
| 18 April<br>(Monday)                            | Inoue, Kawahara,<br>Toyokawa, Safu        | (1) Prepare report to JICA Office<br>and EPTC   |   |
|   | <sup>12</sup> Second Second States (1996) | (2) Prepare basic design drawing,<br>plane, vertical, cross section<br>and arrangement drawings                                   |   |
|   | Toyokawa                                  | (1) Investigate similar project<br>"Construction equipment training<br>center"  |   |
|   |   | (2) Receive sample of price list  |   |
| 19 April<br>(Tuesday)                           | Inoue, Kawahara,<br>Toyokawa, Safu        | <ol> <li>Report outline of survey to EPTC</li> <li>Inspect infrastructure and<br/>construction condition</li> </ol>               | a<br>San San San<br>San San San                               |
| 20 April<br>(Wednesday)                         | Inoue, Kawahara,<br>Toyokawa, Safu        | <ol> <li>Submit survey data at final<br/>report meeting at Shoubra main<br/>warehouse</li> </ol>                                  |   |
| 21 April<br>(Thursday)                          | Inoue, Kawahara,<br>Toyokawa, Safu        | (1) Report survey result for leaving<br>Egypt to JICA Office  |   |
|   |   | (2) Invest similar project<br>"Educational culture center"  |   |
| 22 April<br>(Holiday)                           | Inoue, Kawahara,<br>Toyokawa, Safu        | Leave by TG-927   |   |
| 23 April<br>(Saturday)                          | Inoue, Kawahara,<br>Toyokawa, Safu        | Arrive Bangkok  | Bangkok   |
| 24 April<br>(Sunday)                            | Inoue, Kawahara<br>Toyokawa, Safu         | Arrive Narita TG-740  |   |
|   |   | A - 11  |   |

|     | an a |                |           |
|-----|--|----------------|-----------|
| (2) | Draft Final                              | Report Explana | tion Team |
|     | •  |                |           |

| · · · · ·                          |   |   |  |
|------------------------------------|---|---|--|
| Date                               | Member                                      | Activity  | Location   |
| l August<br>(Monday)               | Endo, Kitabayashi, Inoue<br>Kawahara, Safu  | Leave Narita by JL-471 (14:15)  |  |
| 2 August<br>(Tuesday)              | Endo, Kitabayashi, Inoue<br>Kawahara, Safu  | <ul> <li>Arrive Cairo by JL-471 (06:35)</li> <li>(1) Social visit JICA Office, Japan<br/>Embassy, Ministry of Planning<br/>and International Cooperation</li> </ul> | Cairo  |
|                                    |   | <ul><li>(2) Submit draft report and<br/>supplementary questionnaire</li></ul>   |  |
| 3 August<br>(Wednesday)            | Endo, Kitabayashi                           | (1) Social visit to Ministry of<br>Health   |  |
|                                    | Incue, Kawahara, Safu                       | (1) Meeting at Shoubra main warehouse   |  |
| 4 August<br>(Thursday)             | Endo, Kitabayashi, Inoue,<br>Kawahara, Safu | (1) Draft report explanation meeting  |  |
| 5 August                           | Endo, Kitabayashi                           | (1) Summarize result of meeting   |  |
| (Friday)                           | Inoue, Kawahara, Safu                       | (1) Meeting within team   |  |
| 6 August<br>(Saturday)             | Endo, Inoue                                 | (1) Inspect Mohandesine intermediate<br>warehouse   |  |
|                                    | Kawahara, Safu                              | (1) Heliopolis intermediater<br>warehouse   | an an the second se<br>Second second second<br>Second second |
|                                    | Kitabayashi                                 | (1) Confirm and discuss EPTC minutes content  |  |
| 7 August<br>(Sunday)               | Endo, Inoue                                 | (1) Supplementary investigation of<br>Shoubra main warehouse  |  |
|                                    | Kawahara, Safu                              | (1) Confirm answers of supplemetary questionnaire   |  |
| 8 August<br>(Monday)               | Endo, Kitabayashi, Inoue,<br>Kawahara, Safu | (1) Exchange signature on Basic<br>design minutes   |  |
| 9 August<br>(Tuesday)              | Endo, Inoue, Kawahara,<br>Safu              | Leave Cairo BA-152 (9:00)<br>Arrive London (12:05)<br>Leave London JL-402 (19:30)   |  |
| 10 August<br>(Wednesday)           | Endo, Inoue, Kawahara,<br>Safu              | Arrive Narita JL-402 (15:15)  |  |
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| ·                                  |   |   |  |

## 1.4 List of Persons Visited in the Arab Republic of Egypt

| Ministry of Nealth                                    | Underscretary                             | Dr. Helmy El-Baramouy          |
|---|---|--------------------------------|
| Ministry of Planning<br>and International             | Undersecretary                            | Mr. Saad Mohamed Bayoumi       |
| Cooperation   | General Manager                           | Mr. Hamed Moustafa             |
|   | Economic<br>Researcher                    | Mr. Mohsen M. Sadek            |
|   |   |                                |
| General Organization<br>for Pharmaceuticals,          | Chairman                                  | Dr. Kattan                     |
| Chemicals and Medical<br>Appliances                   |   |                                |
|   |   |                                |
| Egyptian<br>Pharmaceutical                            | Chairman                                  | Dr. Abdel Aziz Ghazal          |
| Trading Company                                       | Director of<br>Planning Sector            | Dr. Aly Ibrahim Hammad         |
|   | Director of<br>Storage Facility<br>Sector | Dr. Mohamed Shehata            |
|   | Director of<br>Information Sector         | Dr. Abdel Aal Awad             |
|   | Director of<br>Finance Sector             | Mr. Ismail Ewais               |
|   | Director of<br>Imported Sector            | Mr. Mohamed Abdelazim          |
|   | Engineering<br>Sector                     | Mr. Sherif Abd El Bari Mohamed |
|   |   | Mr. Mostafa Shihite            |
| EPTC Architectural<br>Consultant                      |   | Prof. Dr. Ibrahim Gaafar       |
|   |   | Mr. Ismail Waly                |
| la calendaria<br>Secondaria<br>Balancia de calendaria |   | Mr. Abdel Khalek H.            |
| - 「「「」「「」」」」」「「「」」」「「」」「「」」「「」」」」                     | Technical<br>Cooperation Leader           | Ms. Kyoko Tateyama R.N.        |
| - Caluer to mospital                                  | corporation Actual                        |                                |
|   | A - 13                                    |                                |

2. Survey of Shoubra Main Warehouse

### 2.1 Survey of Shoubra Main Warehouse

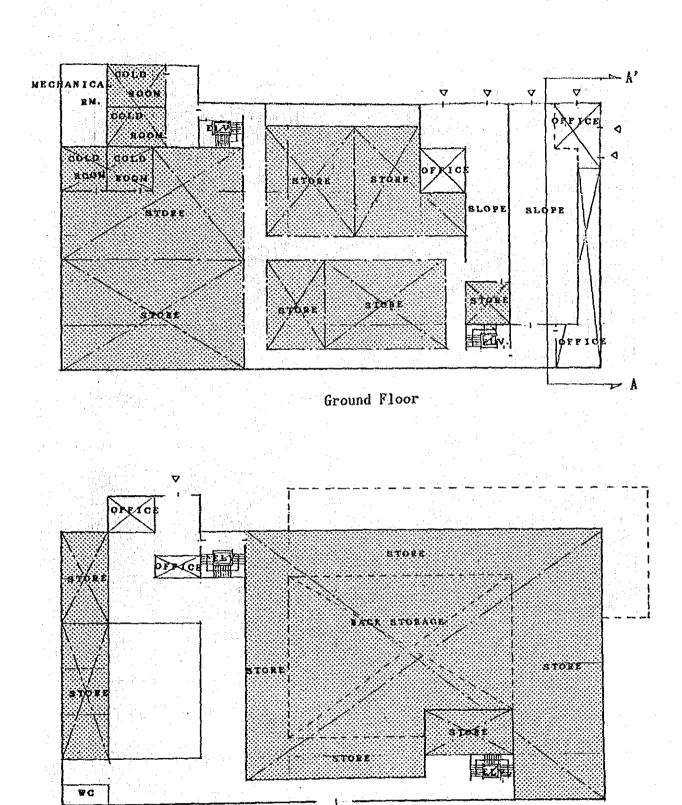
Floor Area for Exsisting Warehouse

April 17,1988

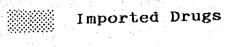
Basic Design Study Team

|                          | Floor<br>Height<br>(m)                | Floor Area<br>(㎡) | Storage<br>(m <sup>2</sup> ) | 0ffice<br>(㎡) | Corridor<br>& Others<br>(m <sup>2</sup> )   |
|--------------------------|---------------------------------------|-------------------|------------------------------|---------------|---|
| Building A<br>(Imported) |                                       | 7,986             | 5,743                        | .516          | 1,727   |
| Fround F.                | 7.5                                   | 2,682             | 1,527                        | 180           |   |
| st F.                    | 7.5                                   | 2,652             | 1,784                        | 264           |   |
| nd F.                    | 6.0                                   | 2,652             | 2,452                        | 72            |   |
| uilding B<br>Local)      |                                       | 7,040             | 4,988                        | 580           | 1,472   |
| round F.                 | 5.0                                   | 1,760             | 1,080                        | 180           |   |
| st F.                    | 4.0                                   | 1,760             | 1,060                        | 280           | e de la composición d<br>La composición de la c |
| nd F.                    | 4.0                                   | 1,760             | 1,340                        | 40            |   |
| d F.                     | 4.0                                   | 1,760             | 1,508                        | 80            |   |
| uilding C                |                                       | 9,712             | 5,740                        | 2,672         | 1,300   |
| Under Lised              | :e)                                   |                   |                              |               |   |
| round F.                 | 6.0                                   | 1,592             | 960                          | 340           |   |
| ezzanin                  |                                       | 632               |                              | 444           |   |
| st F.                    | 4.5                                   | 1,872             | 1,444                        | 220           |   |
| ıd F.                    | 4.5                                   | 1,872             | 1,668                        |               |   |
| dF.                      | 4.5                                   | 1,872             | 1,668                        |               | en en en en en en en en<br>En en  |
| th F.                    | 4.5                                   | 1,872             | 678 HG, air ain              | 1,668         | lander og som en so<br>En som en som   |
| otal<br>+ B + C          | · · · · · · · · · · · · · · · · · · · | 24,738            | 16,471                       | 3,768         | 4,499   |

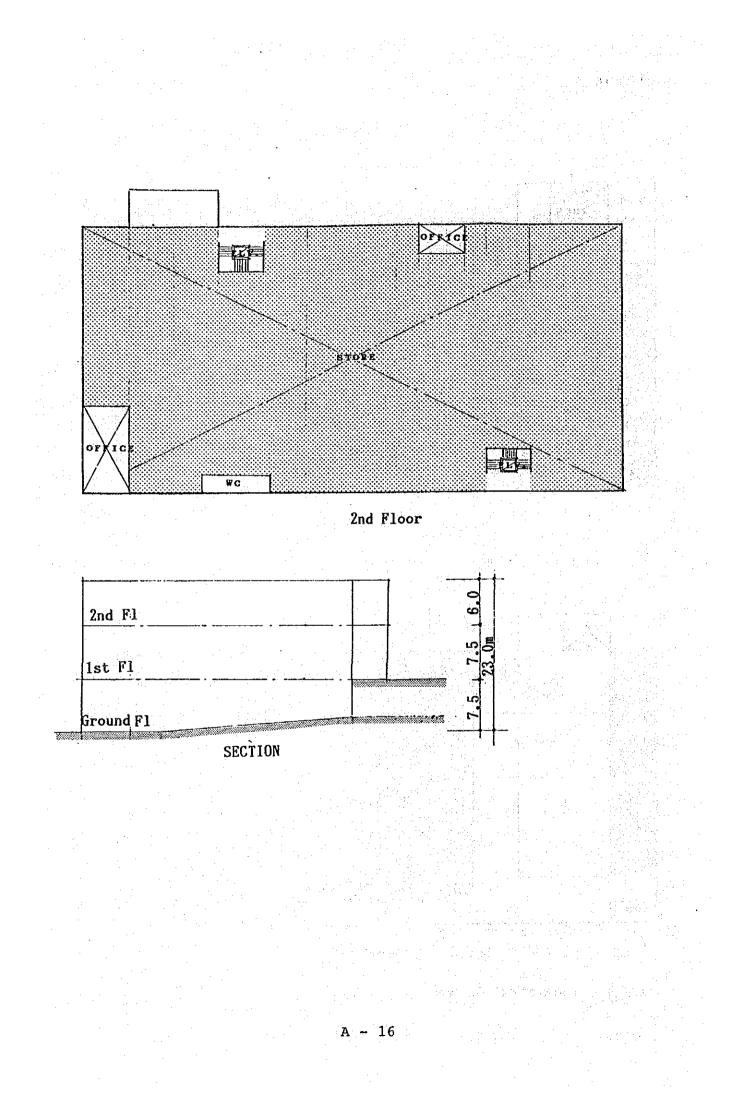
### Building A

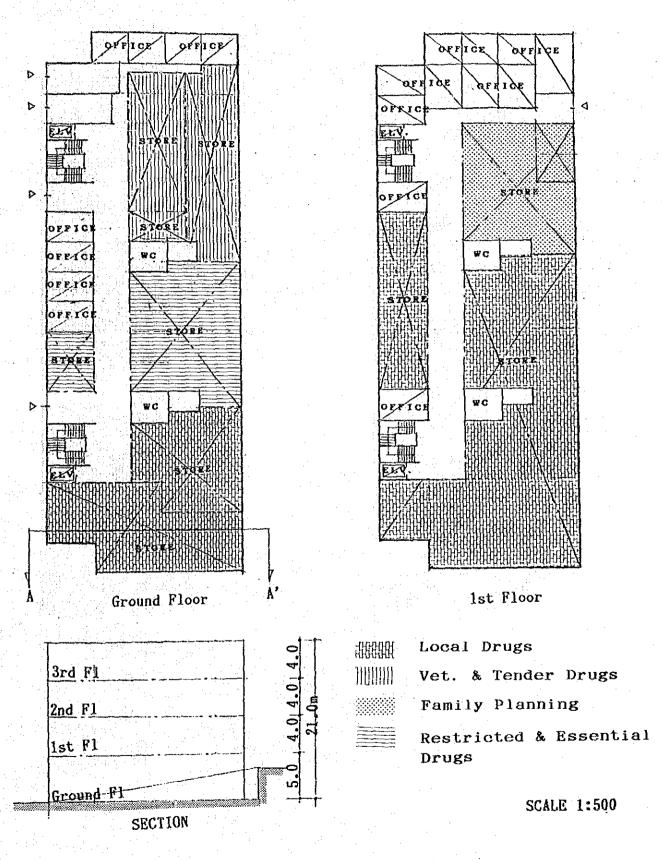


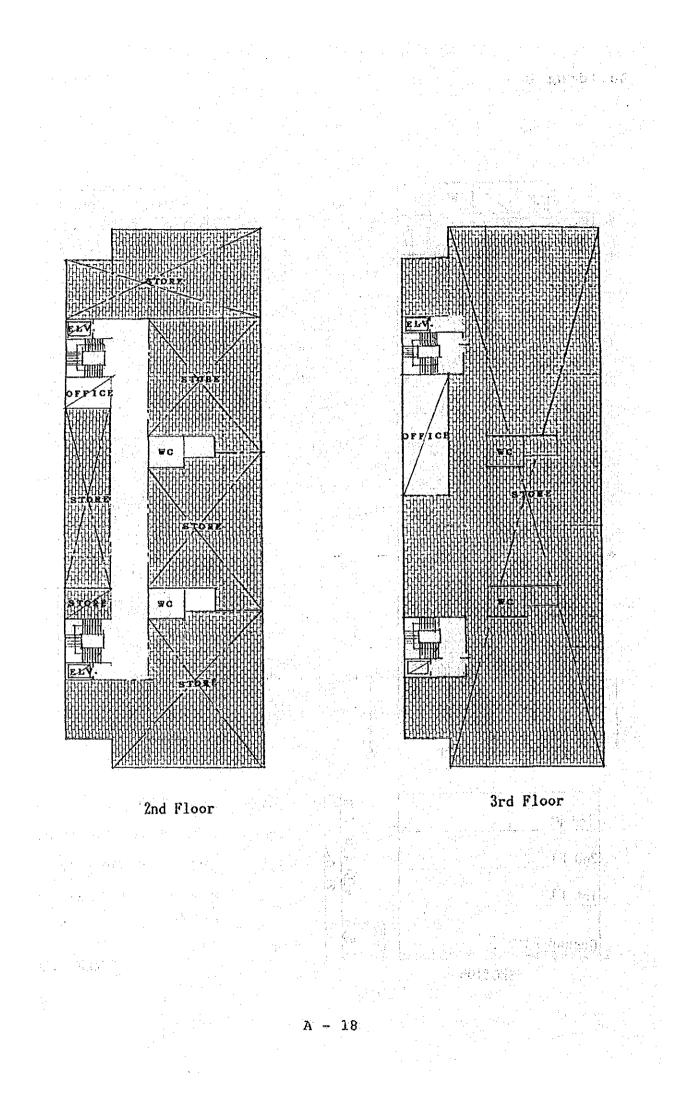
1st Floor

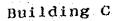


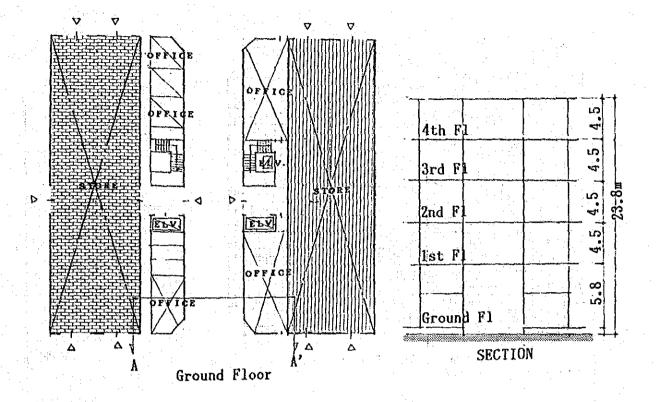
SCALE 1:500





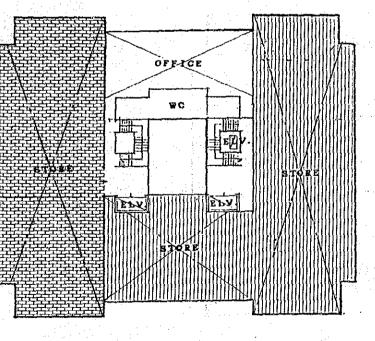






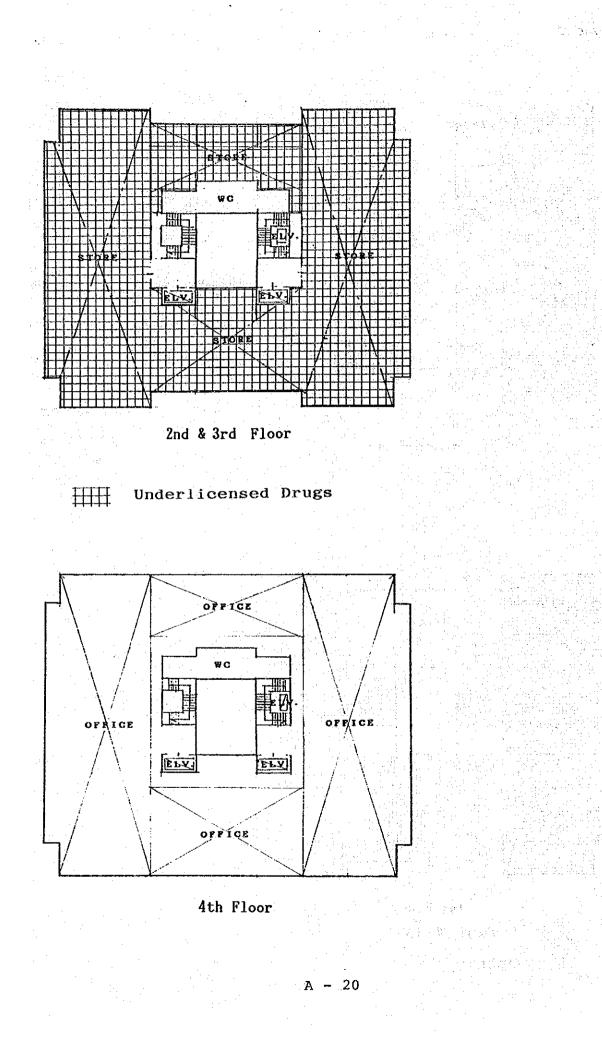
19

A ---



1st Floor Infant Milk

SCALE 1:500



### 2.2 Investigation of Drug Storage at Shoubra Main Warehouse

| for the second |                         |  |  |                       |                            |  |
|--|-------------------------|--|--|-----------------------|----------------------------|--|
|  | Storage<br>area<br>(m²) | Effective<br>storage<br>area<br>excluding<br>pathway | Average<br>height<br>of stacked<br>drugs (m) | Number<br>of<br>items | m <sup>3</sup> /<br>pallet | Average<br>number of<br>pallet<br>for each<br>item |
| Imported<br>drugs  | 4,216 <sup>1)</sup>     | × 0.5  | x 2  | ÷ 600                 | ÷ 1.4                      | 5.0  |
| Underlicense<br>drugs  | 3,747                   | x 0.5  | х 3  | ÷ 900                 | ÷ 1.4                      | 4.5  |
| Restricted<br>drugs  | 285                     | x 0.5  | x 2  | ÷ 50                  | + 1.4                      | 4.1  |
| Drugs to<br>be cooled  | 230 <sup>2)</sup>       | m <sup>3</sup> ÷ 1.4                                 | m³/pallet ≒                                  | 164 pa                | llets                      |  |

### Survey of Storage Area

1) The sorting area in first floor is excluded.

2) Number of drugs required to be cooled for one year.

NOVO 0.0215 m<sup>3</sup>/carton x 4,047 carton/year =  $87.1 \text{ m}^3$ /year

LEO 0.0122  $m^3$ /carton x 7,756 carton/year = 94.62  $m^3$ /year

181.63 m³/year

181.63 x 1.3 (other drugs required to be cooled) = 230  $m^3$ 

### 3. Reference Material

### 3.1 Drugs Imported into Egypt

|     |                               | i   | 1                      | 1 A A | 그는 사람이 가지 않는 것 같아. 가지 않는 것 같아요. 가지 않는 것 같아.  |
|-----|-------------------------------|-----|------------------------|-------|--|
| 1.  | Roche (Switzerland)           | 37  | items                  | (A2:  | Rivotril, Mestinon)  |
| 2.  | Schering AG (West Germany)    | 24  | items                  | (A1:  | Urographin,<br>Angiographin)   |
|     |                               | 10  |                        | /71   | an an Antonio anna an A                                      |
| 3.  | Glaxo (England)               | 19  | ltems                  |       | Eltroxin,<br>Becotide, Zantac)   |
|     |                               |     |                        |       | 에는 이 1000년 1000년 1000년 100년 1000년<br>1990년 - 1991년 1000년 1 |
| 4.  | Wellcome Foundation (England) | 17  | items                  | (A2:  | Leukeran, Imuran)  |
| 5.  | Bayer (West Germany)          | 15  | items                  | (A1:  | Yomesan, Biltricide)   |
| 6.  | Roussel Uclaf (France)        | 13  | items                  | (A2:  | Sofra-tulle)   |
| 7.  | Bristol Myers (U.S.A.)        | 13  | items                  | (A2:  | Platinol, Blenoxane)   |
| 8.  | E. Merck (West Germany)       | 13  | items                  | (A1:  | Fortecortin)   |
| 9.  | Ciba-Geigy (Switzerland)      | 12  | items                  |       | Desferal,<br>Ritalin, Anafranil)   |
| 10. | Astra (Sweden)                | 11  | items                  | (A1:  | Mercaine,  |
|     |                               |     | en en<br>Altan jarraga |       | Xylocaine)   |
| 11. | Parke Davis (U.S.A.)          | 10  | items                  |       | Ketalar,<br>Zarontin)  |
| 12. | Nordisk (Denmark)             | . 9 | items                  | (A1:  | Insulin-verosulin)   |
| 13. | Sandoz (Switzerland)          | 7   | items                  | (A1:  | Hydergine)   |
| 14, | Novo (Denmark)                | 7   | items                  | (A1:  | Insulin-lente)   |
| 15. | Asta (U.S.A.)                 | 7   | items                  | (A2:  | Endoxan)   |
| 16. | Beecham (England)             | 6   | items                  | (A2:  | Pyopen, Ampiclox)  |

Sec.

A1, A2 shown above are the priority ranking for allocating foreign exchange for imported drugs by the High Committee of Drugs of Ministry of Health.

### 3.2 Weather Data of Cairo

|                |                          |   |           | Tab               | le :         | 3-1          | Ten      | perat                | ture            |           |            |                       |                   |   |
|----------------|--------------------------|---|-----------|-------------------|--------------|--------------|----------|----------------------|-----------------|-----------|------------|-----------------------|-------------------|---|
|                |                          |   | · · · · · |                   | · ·          |              |          | - <u> </u>           | . :             |           |            |                       |                   |   |
|                |                          |   | <br>      |                   | : ·          |              |          | Period 19            | 7 - 1           | 9 6 0     |            |                       |                   |   |
| event til<br>L | والمحلقي أتوجع           | <b>a</b> 3                              |           |                   |              |              | Temptest | u:s (*C)             |                 |           | n          | niofall (a            | (Co 9)            | Feebotall                                 |
|                | Month<br>string of anti- | Pressure (mb.)<br>Corrected to<br>MIB.L | Rubity.   | Meno<br>of<br>Day | Max.         | Mia.         | Mar      | Absolute<br>Date     | Records<br>Min, | Dale      | Tobl       | Usr.<br>ia Oas<br>Day | Data              | Eraporali<br>por Day<br>porta,<br>(Picho) |
|                | Jaanairy                 | 1018.0                                  | 59        | 13.7              | 19.1         | * <b>5.6</b> | 30,2     | 21/1945              | 3.0             | 79/1953   | 3.7        | 8.1                   | 21/1957           | 1.  |
|                | February                 | 1017.3                                  | 55        | \$4.9             |              | 9.1          | 135.5    | 25/1955              |                 |           | 4.2        |                       | 1/1960]<br>2/1952 | 7.  |
|                | Marza                    | 1015.2                                  | 57        | 17.3              | 23.7         | . 11.5       | 39.2     | 30/1950              |                 | 1/1943    | 2.3        | 10.0                  | 15/1949           | 10  |
|                | April                    | 1013.7                                  | 43        | 20.9              | 28.2         | 33.9         | 42.8     | 18/1953              | 8.5             |           | 0.6        |                       | 1/1954            | 12  |
| ់              | May                      | 1012.2                                  | 41        | 24,8              |              |              | 43.9     | 21/1952              |                 | 5/1954    | .0.5       | :                     | 9/1957            | 14  |
|                | June • • • • • • • •     | 1011 0                                  | 4B        | 27.0              |              | 19.9         | 45-3     | 13/1943              | j               | 111100    | 0.3<br>0.0 |                       | 12/1957           | 14  |
|                | July                     | 1003.0<br>1003.5                        | 52<br>56  | 28.1              | 35.4<br>34.8 | 21.5<br>21.6 | 46.2     | 10/1941<br>: 10/1955 | 18.5            | 4/1952    | 0.0<br>Te. | Tr.                   | 6/1947            | 12  |
|                | Argust                   | 1012.2                                  | 58        | 25.8              | 32.3         | 19.9         | 41.7     | 4/1955               | 15.7            | · · · · · | Tr.        | Tr.                   | 27/1952           | 1   |
|                | October.                 | 1015.3                                  | 58        | 23.5              | 29.1         | \$7.8        | 35,5     | 2/1955               | 12.0            |           | 0.1        |                       | 20/1957           | . 9                                       |
|                | November.                | 1016.9                                  | 61        | 19.3              | 25.1         | 13.9         | 36.3     | 3/1959               | 5.2             | 29/1953   | 3.5        | 18.5                  |                   | .7  |
|                | December                 | 1018-1                                  | 64        | 15.3              | 20.1         | 10.4         | 32.5     | 12/1960              | °               | 1/1953    | 3.6        | 50.0                  | €/193E            | 6   |
|                |                          |   |           |                   |              |              |          |                      |                 |           | 23.5       |                       | -                 |   |
|                | Arnual Mena              | 1013.9                                  |           | 21.5              | 28.1         | 15.4         |          | <u></u>              |                 | _`_`      |            | -                     | · <b>_</b> _      | 10  |

# Table 3-2 Precipitation

|                |                            |                              |                      |                  |               |                | Perio        | 1 1 1 1 |       |           |                    | <u> </u>             | _ <u></u>                     |                               | <u>.</u>                         |
|----------------|----------------------------|------------------------------|----------------------|------------------|---------------|----------------|--------------|---------|-------|-----------|--------------------|----------------------|-------------------------------|-------------------------------|----------------------------------|
|                |                            | Doration of                  |                      |                  | <br>          |                |              | n       | HUDCL | of Days o | f Occurrent        |                      |                               | <u> </u>                      |                                  |
| Monik          | B                          | right Sum                    | àja <b>s</b>         | Rain with Amouut |               |                | Sec.W        | Ico     | Hall  | Thueder   | Tog via.           | Mirt or<br>Heas vis. | Dust or<br>Sendriving<br>vit. | Dust or<br>Sandstorms<br>vis. | Gales Sur-<br>Ison Wind<br>Speed |
|                | Total<br>Actual<br>(bours) | Total<br>Possible<br>(bours) | Parocalage<br>%      | ≥0.1<br>m=       | ≧1.0<br>nm.   | ≥10.0<br>maila | 280 <b>#</b> | pellets |       | atorm4    | < 1000<br>(notion) | ≥1000<br>(statros)   | ≥1000<br>(motces)             | < 1000<br>(matism)            | ≥34<br>{ku0f4}                   |
|                |                            |                              |                      |                  |               |                | <b>.</b>     |         |       |           |                    |                      |                               |                               | <b>1</b>                         |
| lequery        |                            | -                            |                      | 2.5              | 1.4           | 0.0            | 0.0          | 0.0     | 0.0   | 0.2       | 1.1                | 3.5                  | 1.9                           | 0.4                           | 0.4                              |
| February       | -                          |                              | - <u>-</u> -         | 2.1              | 1.3           | 0.1            | 0.0          | 0.0     | 0.0   | 0.4       | E 113              | 2.0                  | 1.6                           | 0.4                           | 0.5                              |
| Marth          |                            | -                            |                      | ્યત્             | 0.6           | 0.1            | S.0          | 0.0     | 0.1 . | 0.4       | 1.0                | 2.3                  | 2.1                           | 0.6                           | 0.4                              |
| April          |                            | -                            |                      | 0.4              | 0.1           | .0.0           | 0.0          | 0.0     | 0.0   | 0.2       | 1.4                | 1.9                  | 2.1                           | 0.7                           | 0.1                              |
| May            |                            | -                            |                      | 0.3              | 0.1           | 0.0            | 0.0          | 0.0     | 0.0   | 0.1       | 0.7                | 0.7                  | 1.4                           | 0.3                           | 0.4                              |
| Jung + • • • • | <del></del>                | - 1                          | -                    | 0.1              | 0.1           | 0.0            | 0.0          | -0.0    | 0.0   | 0.0       | . 13               | 0.9                  | 0.1                           | 0.1                           | 0.0                              |
| July           |                            | -                            |                      | 0.0              | 0.0           | 0.0            | 0.0          | 0.0     | 0.0   | 0.0       | 1.5                | 1.8                  | 0.0                           | 0.0                           | 0.0                              |
| Аштин          | - <b>-</b>                 |                              |                      | 0.0              | 0.0           | 0.0            | 0.0          | 0.0     | 0.0   | 0.0       | 3.8                | 2.0                  | 0.1                           | 0.0                           | 0.0                              |
| September      | <b>.</b>                   | . <del></del>                | 7                    | 0.0              | 0.0           | 0.0            | 0.0          | 0.0     | 0.0   | 0.0       | 1.8                | 2.9                  | 0.0                           | 0.1                           | 0.0                              |
| October.,      |                            | -                            |                      | 0.1              | 0.0           | 0.0            | 0.0          | 0.0     | 0.0   | 0.1       | 2.5                | 1.9                  | 0.5                           | 0.1                           | 0.0                              |
| November .     | , <b></b>                  |                              |                      | 1.5              | 0.5           | 0.1            | 0.0          | 0.0     | 0.1   | 0.4       | ાન                 | 1.6                  | 0.8                           | 0.4                           | 0.1                              |
| December       | -                          |                              | . <del>5</del> 7 - 1 | 3.1              | 1.6           | 0.1            | 0.0          | 0.0     | 0.1   | 1.0       | 1,8                |                      |                               |                               |                                  |
| Total          |                            |                              |                      | 11.6             | 5.7           | 0.4            | Ó.0          | 0.0     | 0.3   | 1.9       | 19.7               | 23.1                 | 11.1                          | 3.2                           | 2.0                              |
| ADDULI MCER    |                            | la se se se<br>la <b>ser</b> | -                    |                  | د در<br>دونیو | ····           |              |         |       |           | I                  |                      | '                             | -                             |                                  |

### A - 23

3

|  |                  | ÷.,    | e e ser e | lan en    | na je t |        | -<br>1993 - E. ( | . X           |                          |      | e tij s        |       |      |  |
|--|------------------|--------|-----------|-----------|---------|--------|------------------|---------------|--------------------------|------|----------------|-------|------|--|
|  |                  |        | 5         |           |         |        |                  |               |                          |      |                |       | · ·  |  |
| and a second |                  | Period | 1947      | - 1961    | )       |        |                  | P.            | ciod 135                 | \$   | 5 <b>4</b><br> |       |      |  |
|  |                  | Total  | Sky Cov   | r (Olisi) | -       |        |                  |               | laca Wind                |      |                |       |      |  |
| Month  | 0000             | 0000   | 1200      | 1800      | Bleis   |        | •                |               | requesty of<br>Following |      |                | 3     |      |  |
|  | ្រា              | υτ     | ហ         | ייי       | of Dey  | 13     | <b></b>          | 710           | 1116                     | 1721 | 12-11          | 23-33 | . 91 |  |
|  |                  |        |           | 1         |         |        |                  |               | n da sin<br>Secondaria   |      | 1.10           |       |      |  |
| January  | 1.6              | 2.9    | 3.6       | 1.9       | 2.4     | 13.5   | 24.5             | 30.8          | 21.4                     | 3.4  | 1.1            | 0.1   | - 0  |  |
| February   | 1:6              | 3.0    | 3.8       | 2.0       | 2.6     | 21.6   | 24.T             | 28.0 '        | 17.5                     | 2.3  | 0.8 -          | 0.2   | 0    |  |
| March  | 1.5              | 2.9    | 3.5       | 1.6       | 2.6     | 18-1   | 29.1             | 27.9          | 18.1                     | 2.9  | 0.9            | 0.0   | 0    |  |
| April  | 1.5              | 2.1    | 2.5       | 1.2       | 2.1     | 14.0   | 24.6             | 32.7          | 23.3                     | 2.3  | 1.0            |       | 0    |  |
| May  | 1.3              | 2.6    | 2.4       | 1.6       | 2.0     | 16.1   | 26.9             | 36.8          | 18.0                     | 0.7  | . 0.1          | 0.0   | 0    |  |
| Juno   | 0.8              | 2.0    | 0.5       | 0.2       | 1.1     | 23.2   | 24.1             | 5 34 <u>1</u> | 16.2                     | 0.4  | 0.1            | 0.0   | 0    |  |
| July   | 1.3              | 2.7    | 0.4       | 0.1       | 1.1     | 5 35.4 | 27.4             | 27.0          | 5.5 %                    | 0.1  | 0.0            | 0.0   | 0    |  |
| August   | 1.3              | 3.0    | 0.3       | 0.1       | 3.1     | 34.1   | 27.7             | 25 29.1       | 4.10                     | 0.1  | 0.0            | 6.0   | 0    |  |
| September  | 1.1 <sup>:</sup> | 2.3    | 1.0       | 0.2       | 1.2     | 27.9   | 26.0             | 32.0          | 7.3                      | 0.0  | 0.0            |       | 0    |  |
| October.   | 1.3              | . 2.4  | 2.1       | 0.8       | 1.7     | 26.3   | 26.0             | 33.8          | 9.2                      | 9.1  | 0.0            | 0.0   | 0    |  |
| November   | 1.3              | 2.7    | 3.6       | 1.4       | ~ 2,1   | 18.4   | 23.6             | 35.0          | 12.3                     | 0.2  | 0.0            | 0,0   |      |  |
| December   | 1.7              | 3.6    | 4.1       | 2.1       | 2.8     | 25.1   | 26.9             | 23.5          | 11.6                     | 1.0  | 0.1            | 0.0   | 0    |  |
| Annual Mean  | 1.4              | 2.7    | 2.3       | 1.1       | 1.9     | 22.9   | 26.4             | 31/3          | 13.7                     | .1.2 | 0.3            | 0.0   |      |  |

# Table 3-3 Percentage of Sky Cover

Table 3-4 Wind Velocity

|                |                                     |                    |                   | 1 Y   |                   |                |                   |  |              |                                       |                              |                                |            | · · ·            |          |
|----------------|-------------------------------------|--------------------|-------------------|-------|-------------------|----------------|-------------------|--|--------------|---------------------------------------|------------------------------|--------------------------------|------------|------------------|----------|
|                |                                     |                    |                   |       | - «<br>           |                | Period            | 1958 -   | - 195        | • • • • • • • • • • • • • • • • • • • | <u></u>                      | i i i<br>Anna                  | · · · · ·  | <u>.</u>         | <u>.</u> |
| Not the second |                                     |                    | <u></u>           |       |                   |                |                   | Barface IV   |              |                                       |                              |                                |            | <u></u>          |          |
| Month          | 11                                  | 142                |                   |       |                   |                |                   | the second s |              |                                       | ollowing<br>233 <sup>9</sup> | Directiona<br>235 <sup>0</sup> | \$150      | <u></u>          |          |
| and the second | Mind Kular<br>Wind Epond<br>(knote) | \$45°<br>/<br>014° | 018°<br>/<br>045° | 015°  | 075°<br>/<br>104° | 103°<br>134°   | 135°<br>/<br>164° | 165°<br> <br>194°  | 193°<br>224° | \$25°<br> <br>234°                    | 235                          | -  <br>                        |            | Variable         | Calr     |
| <u> </u>       |                                     |                    | 035               |       |                   | ••••<br>  •••• |                   |  |              |                                       |                              |                                |            | - 19 - E         |          |
| January        | 6.7                                 | 3.1                | 4.2               | 7.5   | 4.6               | 3.9            | 6.1               | 12.3   | 15.5         | 11.6                                  | 10.5                         | 7.1                            | 4.6        | 3.8              | 5        |
| February       | 6.9                                 | 6.6                | 8.8               | 12.0  | 9.2               | 5.5            | 5.0               | 5.7  | 7.3          | 1.2                                   | 6.0                          | 8.8                            | 8.1        | 3.5              | 5        |
| March          | 7.4                                 | 5.8                | 5<br>7.1          | 11.8  | 7.4               | 4.7            | 5.4               | 4.4  | 6.1          | 9.4                                   | 9.2                          | 12.7                           | 10.9       | <b>J.1</b>       | · · 3    |
| April          | 7.7                                 | 7.8                | 13.7              | 15.2  | 10.1              | 7.1            | 4.0               | 3.2  | 3.4          | .4.7                                  | 5.2                          | 8.4                            | 11-1       | 2.0              | 2        |
| May            | * 7.5                               | 9.6                | 18.9              | 27.6  | 9.7               | 4.0            | 2.4               | 1.3  | 0.7          | 1.7                                   | 3.4                          | 5.5                            | 11.8       | 2.0              | 1.       |
| Jupe           | 6,8                                 | 15.4               | 24.9              | 14.1  | 5.9               | 2.2            | 1.5               | 0.3  | 2.0          | 1.2                                   | 4.5                          | 10-1                           | 14.1       | 1.5              |          |
| July           | 4.9                                 | 21.0               | 17.9              | · 4.2 | 2.6               | 1.1            | Q.3               | 0,0  | 0.2          | 0.7                                   | 5.0                          | . B.J .                        | 24.5       | 12 <b>1.4</b> 11 | 3        |
| August         | 5.0                                 | 22.2               | 17.6              | 1.3   | 2.8               | 0.9            | 0-2               | 0.0  | 0.3          | 0.9                                   | 4.2                          | 12,0                           | 24.1       | 3,2              | 4        |
| September •    | 5.6                                 | 14.1               | 28.0              | 18.0  | 6.7               | 2.8            | 0.9               | 0.2  | 0.5          | 0.5                                   | 1.4                          | 4.4                            | 12.3       | 5.4              | 6        |
| October        | 5.7                                 | 10.0               | 16.8              | 22.5  | \$1.7             | 3.3            | 0.8               | 1.0  | 2.1          | 2.2                                   | 3.0                          | 5.0                            | 11.3       | 5.7              | 4        |
| November       | 6.I                                 | 7.2                | 14.3              | 21.4  | 12.1              | 5.0            | 2.2               | 3.4  | 6.5          | 4.5                                   | 4.1                          | 4.3                            | 6.5<br>4.4 | 3.3<br>6.5       | 5        |
| December • •   | 5.8                                 | 3.5                | 7.7               | 12.5  | 9.8               | 6.0            | 5.1               | 7.3  | 12.3         | 1.0                                   | 5.6                          | 4.5                            | 1.1        | 9.7              |          |

3.3 Present Salary Table of EPTC

(Egyptian pound)

| Occupation                 | Monthly Salary |
|----------------------------|----------------|
| Director                   | 500            |
| General Manager            | 400            |
| Store Keeper               | 300            |
| Pickers                    | 250            |
| Finance Staff in Warehouse | 250            |
| Truck Driver               | 350            |
| Forklift Operator          | 150            |
| Computer Operator          | 180            |
| Secretary                  | 200            |
| Worker                     | 120            |