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15135

Saudi Arabia.

A COMPUTERIZED INDUSTRIAL DATA BANK ,  
(MOIEDAB)

FOR THE  
MINISTRY OF INDUSTRY AND ELECTRICITY  
KINGDOM OF SAUDI ARABIA

Prepared by ..

Dr. Mohammed M. Aman

UNIDO Consultant

UNIDO

Vienna

November 1985

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## MISSION REPORT

## 1. INTRODUCTION AND TERMS OF REFERENCE

The general purpose of the project in the Ministry of Industry and Electricity in Riyadh, Saudi Arabia is to set up an institutional infrastructure which will contribute through systematic collection, generation and processing of industrial and technological information to the greater flow of such information to governmental and private bodies and enterprises.

The specific duties of the mission can be summarized as follows:

1. To assist with selection of new hardware and appropriate software, or if the present hardware system is to continue, to assist in upgrading of hardware system and appropriate software;
2. To study comments made by different departments of the Ministry on the expert's report of the first part of the mission;
3. On the basis of (2) above, and recommendations in his report, to advise on the design of the industrial database system and to give necessary guidance in the implementation thereof;
4. To advise on the method of evaluation and monitoring of the system;
5. To advise on the training of personnel;
6. Prepare technical report in both English and Arabic.

## II. IMPLEMENTATION

## 1. Selection of hardware:

My first meeting with Mr. Mohammed Ashour Abdullah al-Rifa'i, the new director of the Department of Planning and Budget and who supervises the Computer Center, convinced me that the Ministry was not prepared to accept my earlier recommendation regarding the purchase of new computer hardware and off-the-shelf-software to establish the much needed industrial database which the Ministry wants to establish. Therefore, we agreed to go to the second alternative which I have proposed in the same study. This alternative calls for the improvement and upgrading of the present hardware system. I informed Mr. Ashour of the necessity to acquire a new and bilingual printer since the present printer is very slow and suffers from the poor printing quality. As a matter of fact, the only printer which is connected to the computer was down most of the time when I was at the MCIE. The addition of a new printer will enhance the printing capability of the existing computer and will result in having a spare terminal when one of the terminals ceases to function properly.

During my visit, I met with representatives of Electronic Systems Co. which was recently awarded the computer maintenance contract, and asked them to provide price quotations for installing and operating bilingual printers to DG 350. This data could not be obtained readily from the computer marketplace since the DG 350 system, as we stated before, is an old system which must be modified before adding to it any new peripherals.

I also discussed with Mr. Ashour and submitted to the Deputy Minister a third proposal which calls for the shared use of the new computer recently purchased by the Electricity Corporation. The VAX 11/730 computer is a new model which represents the latest in computer hardware technology for a minicomputer of this size. The software being used is top quality database management system which could be used to produce the desired MOIEDAB. If necessary, the Industrial Agency could negotiate with the Electricity Corporation a charge-back system which could benefit both agencies.

There are advantages and disadvantages for each of these alternatives. The use of the VAX computer may provide fast access and quality product, but it will also require more time from the MOIE computer center staff who must be trained on the use and programming of the new computer. There is also the danger of treating the computer tasks of the Industrial Agency as low priority that is handled when all the Electricity Corporation's Tasks are completed.

The use of DG 350 computer, on the other hand, does not require retraining of the present MOIE computer staff who are very familiar with operating the system and programming the machine. With the removal of most of the Electricity Corporation's work from the DG 350, the machine is now underutilized and therefore the MOIEDAB system will occupy a top priority in the Computer Center, both in its development and future maintenance.

## 2. Comments Made by Different Departments:

Comments on my report of the first mission were compiled by the Office of the Deputy Minister and were made available to me upon arrival to the MOIE. The comments were very constructive and expressed support and enthusiasm for the project. As a follow-up to these comments I decided to interview the directors of the three departments: Industrial Department(ILD), Foreign Investments Department(FID), and Statistics Departments. They all agreed that the time has come for the Ministry to computerize its industrial licenses system and follow the recommendations detailed in my report on the first mission. The director of the statistics department, however, warns that without additional staffing and the training of that staff, his department will not be able to process the license applications it now has. He did not agree with my recommendation that some of the existing staff could be relieved from their existing responsibilities to devote their time to organize, edit and verify the license applications available in his department and prepare them for input into the computerized system once it becomes operational.

The director of the FID was more optimistic and he informed me that his department has already selected six staff members to visit licensed factories and fill out reports which will be used to update data on the licenses granted to these factories. This is a commendable step in the direction of solving the problem of gathering information on the latest status of the licensed factories since many of these factories seem reluctant to provide the Ministry with the needed follow-up data requested by the Ministry.

There was a comment by the director of the statistics department regarding the restriction of input and output functions to the staff of the respective departments. According to this proposition, the staff of the ILD will not be allowed to enter or change data in the FID files and vice versa. This is a situation which needs to be investigated by the department heads and for them to reach a mutually acceptable agreement on this point. I could understand the reasons for not allowing departments to change or edit or alter in any way or fashion information entered by another department without prior authorization or approval. However, there is no reason why another department, say IL can not view data entered by the FID. This is known as viewing or showing data without altering it. The system in its design form will allow departments to view each others data but not to alter it. If this will not be acceptable to department heads, we can revise our plans so each department will be restricted by the use of authorized passwords to enter only its own files and not the others.

The system could be perfected at a later stage to allow for message exchange system. The objective of the message exchange system will be to facilitate communication and dialogue between users in the Ministry. It is an electronic mail system where messages are exchanged between the parties involved using the terminals available in their offices. This will expedite information transfer and exchange among the various departments.

### D. Design of the Database

I held daily meetings with the computer center staff: Reynaldo Estudillo, Wilfredo Torio and Imad Rashid. I discussed with them database requirements, users' needs, and specifics of designing computer programs that take these needs and requirements into consideration. While the users' requirements are few at this time, we expect the users to articulate their needs and requirements once they begin using the system.

Input forms were discussed with the computer staff. Two forms were designed: Industrial License Input Form, License Alterations and Cancellations Input Form, and Foreign Investments Form. Types of reports to be generated were identified and their functions delineated. Input of data will be entered directly on the screen from the completed license application forms, instead of the old method of

recopying the data on special input sheets. The latter process is time consuming and will result in an increase in the number of errors made by the individual(s) transcribing the information from the actual license application. This procedure will be facilitated by the training of the staff from the ILD. This same staff will be responsible for the accuracy of data by eliminating the intermediaries.

The Industrial Database will consist of the following files:

A) Input files consisting of four such files:

1. International Standard Industrial Classification Code (ISIC) File:  
This is a numeric field file consisting of six digits which represent the ISIC code and two digits for the product code.

2. Geographic File:

This is also a numeric field file consisting of three digits which represent each country and/or nationality of a foreign investor.

3. Transaction File:

This file will contain actual licenses. The information will be taken from the completed license application forms. This is a mixed field, i.e. alphanumeric.

4. Industrial License File:

This file will contain validated data from the transaction file. The master file will contain data on all licenses entered into the system. This file is also alphanumeric.

Input in the above files will be in both Arabic and English languages. Thus, the user can retrieve any of the codes by inputting the Arabic or English term and vice versa.

Once the geographic and ISIC codes which are currently available are input into the system, they must be edited and verified by staff members in the ILD and FID to ensure accuracy.

The enclosed computer flowcharts (Appendix 1) illustrate the procedures which will be followed in creating each of these four files. The other three charts show procedures for the master file update, print reports, and online inquiries.

B) Output Files:

The output files will consist of 25 files. These files have been identified in my report of the first part of my mission. The files are now known to the computer center staff. There will be two levels of information provided by MOIEDAB. At the first level, the system can deliver either all of the licensors available for a specific product or all of the products available from a specific licensor. At the second level, the system can provide detailed information about a particular industry or product and its licensors. The database will

also maintain statistical data for products on a list of parameters that are related and required for market analysis and evaluation. There will be three key elements in the system. They are: 1) product code; 2) geographic; and 3) type of information. The general industries file will provide the user with general information covering all manufacturing companies in the Kingdom. This file will be organized by industry. Information can be retrieved from the file by using the ISIC code. The code, like the other three codes will be available online.

**System Flowchart:**

As the attached system flow chart (Appendix 11) shows, a good part of the work on the MCIEDAB must be done outside the computer room. The flow of work will require the ILD and the FID in particular to receive and verify data in the license applications. If the data is incomplete, it must be returned to applicant for completion. If the application is complete, it must be assessed and approved and then sent on to the encoder/verifier. He will code all coded data and verify it. The license application will then be placed in folder or special cover for proper handling and then sent on to the control clerk who will prepare a transmittal form and send it along with the application to the Computer Department. There, the control clerk will verify the number of documents and send them to the data entry operator who will enter the documents into the computer. The data entry will be followed by computer validation. If the document is rejected, it will be added to the list of rejected documents. If it is accepted it will be added to the list of accepted documents. A series of comparisons will be made between the rejected or accepted documents and the accepted or rejected listings until corrections are made and incorporated in the corrected listing. This listing will then be used to update the master file and produce needed reports.

One of the most important aspects of the database is the follow-up. According to established procedures in the ILD and FID, follow-up letters are sent to projects and industries every six month. This is designed to ensure the gathering of the latest data on the progress being made by the licensed project. In the computerized system, the same follow-up letters will be prepared and sent to the projects. The system will be programmed in such a way that it will automatically issue a list of projects which are due for follow-up. A by-product of the system will be a word processing component which will contain a standard follow-up letter with variables in it which will allow the system operator to complete these variables based on the merits of the individual claims. These letters will be automatically addressed to the projects as it is identified in the system. The letters will be ready for mailing to these projects. Once the follow-up response is received by the ILD or FID, the information will be incorporated in a follow-up form, which in turn will be sent to the control clerk. The clerk will then prepare transmittal form and forward it to the Computer Center. There, the clerk will verify the number of documents transmitted and sign the transmittal form before sending it over to the data entry operator. The operator will enter the documents into

the computer and generate computer printouts of follow-up listings. The printouts will be checked against documents and the follow-up file will be completed.

The above description of the work flow shows that the ILD and FID are ultimately responsible for the gathering and verifying of the industrial data. No one else can do it for them, and no matter how sophisticated the computer system or how powerful the programs are, they are worthless if the data generated by the two departments is inaccurate, incomplete or outdated. The task of sorting out licenses and separating the licenses issued which are estimated at 3,000 from the actual in operation licensed factories which are known to be only 1,800 is not going to be easy, yet someone has to be responsible for completing this important task. Otherwise the MOIE may wind up having a good computer program for industrial licenses and no database.

In order for the work to proceed as smoothly as planned, the two departments must begin to pull out the industrial licenses applications, verify the data contained therein, update the license information through established procedures and ready the applications for input into the system during its first trial run and later on when the system is up and running. It is recommended, therefore that each department in the Ministry should select or appoint two staff members to be trained and later assume responsibility for storing and retrieving industrial data using MCIEDAB. The second person is a backup in case the first person leaves the Ministry or the department for some reason. Immediate selection should be made by the following departments: Industrial Licenses; Foreign Investments; and Statistics. These departments are the prime producers and users of data to be stored in or retrieved from the System. Other departments can select representatives from their staff at a later date. I will elaborate further on the subject of training of personnel in section 5.

#### Record Layout:

As the enclosed record and screen layouts (Appendix III) show, the Industrial License Database record has been Arabized and defined as to the field name, its length, and format. The field name is derived from the IL application form. The length of the field is determined on the basis of our evaluation of each of these fields and whether or not the field will be coded. We have also identified the format of the field on the basis of our analysis and study of the available license applications. The format of the field can be numeric or alphabetic or mixed (alphanumeric). Some numeric fields will be compounded to facilitate mathematical computations.

#### Programs:

Each of the location and transaction programs will contain the following routines: 1. add; 2. change; 3. delete; 4. examine (review); and 5. print. I have also advised the programmers to write a program for updating the master file.

**Time Table:**

The time required to develop all programs will be eight to nine months using the present computer programmer and system analyst. It was made clear to Mr. Ashour, Director of the Department of Planning and Budget that the time could be cut in half if the two could be allowed to work overtime between now and February 1986. This will expedite the process and will enable the Ministry to have the programs ready for testing and trial runs before actual implementation.

Simultaneous with the time table for writing the programs should be a time table for readying all IL and FI applications for entry into the system. Any delay in this process will result in significant delays in the implementation of the MOIEDAB project.

**4. Method of Evaluation and Monitoring of the System:**

The most effective way to monitor the system will be through a MOIEDAB user's group or council formed in a standing committee. The group or council should consist of representatives of the prime users of the system in the Ministry, particularly the following departments: IL, FI and Statistics in addition to the CD programmers and system's analyst(s). The group will evaluate the system as its members use it on daily basis. Their comments and suggestions will be taken into consideration by the designers of the system and every effort must be made to implement all valid recommendations and suggestions that could lead to the improvement of the system and making it responsive to the needs of the users. If it becomes necessary, the services of this or another consultant could be requested to evaluate the system and its use. The ongoing evaluation, however, should take into consideration the structure and format of the database, the extent of its userfriendliness, its ability to relate fields together and combine them by using boolean operators (and, or, not) and availability of user aids and the ease by which these search or user aids could be used.

In addition to evaluating the system, the contents of the database should also be evaluated as to their up-to-dateness, accuracy and organization. The system's hardware will also be a factor in evaluating the system, for example the speed by which the system responds, the quality of printed reports both in English and Arabic languages and its ability to produce statistical charts and graphs in black & white and in color,

**5. Training of Personnel:**

The most effective and expedient form of training will be in-service training, i.e. training by the Ministry's Computer Department staff. The training will concentrate on the use of the Ministry's computer hardware and the MOIEDAB system. This will include adding, editing, or deleting data. Since the MOIEDAB system as it is presently perceived will be user friendly, the training will be easy and fast.

The training program should take into consideration the needs of the MOIE to follow national policy of Saudization by selecting and training Saudi employees to take over positions currently being held by non-Saudis. Since the cancellation of the MOIE contract with SIAM Company which had Arab-speaking staff in the Ministry's Computer Department, the Ministry does not have Arab-speaking computer experts, except in the Computer Dept. of the Electricity Corporation. I would like to emphasize, once again, my earlier recommendation concerning the joint UNIDO/MOIE appointment of an Arab-speaking system's analyst capable of supervising the Computer Department (CD) in the absence of a Saudi Director of this Department, and who can work with the existing CD staff on the actual implementation of the MOIEDAB project, and train the Saudi staff in the Ministry on the use of the computer and the MOIEDAB system. A proposed job description for the system's analyst position was provided in my report of the first part of the mission. I would urge the Ministry to work with UNIDO on this important joint appointment.

As part of the training program, a user's manual should be produced. The manual should describe, in greater detail, the scope and contents of MOIEDAB, signon procedure, organization of the database, the search process, basicsearch logic, printing search results and documents online, displaying search results online. The manual must include the following chapters: General functions and description; Signing-in procedures; Inquiry System; Contents of the MOIEDAB system; and Message Exchange system. The manual should be written in Arabic and in such a way as to make it easy for a lay person (non-computer expert) to understand the system, follow instructions and operating procedures of MOIEDAB online inquiry system, the contents of MOIEDAB, its coverage, as well as its limitations. The manual must, therefore, be simple in its design, non-technical in its language and user-oriented.

To facilitate the system's use and training staff on its use, all codes will be interpreted in both Arabic and English and stored into the system as subfiles. This method will allow users to identify the code number for any coded subjects whether it is the ISIC code, or geographic, or materials code, or codes for cities and regions in Saudi Arabia.

I am also recommending that the system's guide or instruction manual be incorporated into the system and can be called online. This will facilitate use of the system by any authorized individual without the need to go back and forth to the printed manual.

5. I am pleased to submit this report in both English and Arabic as requested by UNIDO and the MOIE.

#### Acknowledgements:

I wish to express my sincere thanks to HE the Deputy Minister for Industrial Affairs and all directors of departments in the Ministry for their support and cooperation during the conduct of this study.

Special thanks to Mr. Mohammed Ashour and his staff in the Computer Center Department, Mr. Samir Gindi and Mr. Ranjit Withana and Mr. Gabriel Rezek, I hope that this report will help the Ministry in building a sound database for industrial information that will be of help to all industrialists and decision makers in the Kingdom of Saudi Arabia. I feel confident that the recommendations presented to the officials in the Ministry will, under their close supervision and with their support, lead to the establishment of the proposed database.

Dr. Mohammed M. Aman  
November, 1985

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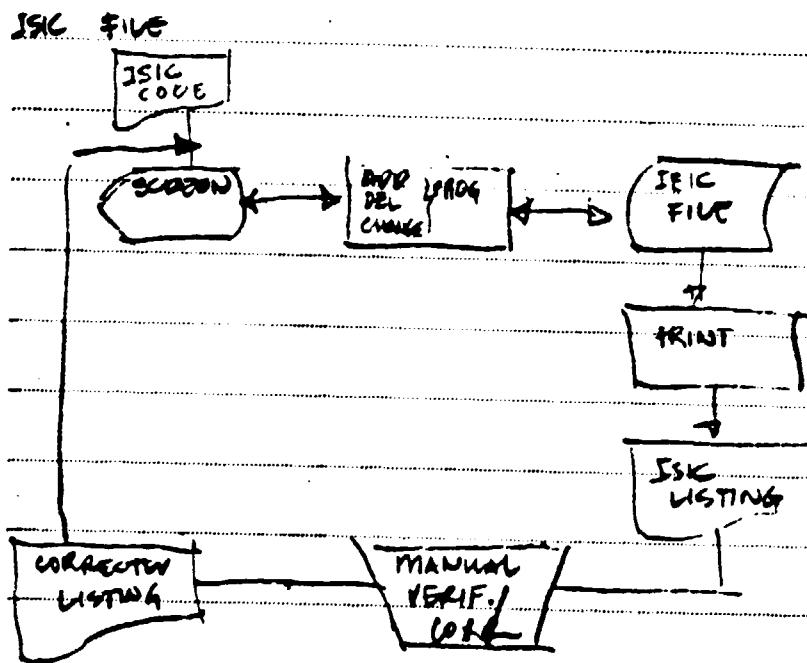
APPENDIX I

بيانات الرحمن الأنصاري

التوقيع ..... اسم المحرر .....  
التاريخ .....

المملكة العربية السعودية  
وزارة الصناعة والكهرباء

COMPUTER FLOWCHART ..... الموضوع



بشارة الرحمن الرحيم<sup>١٢</sup>

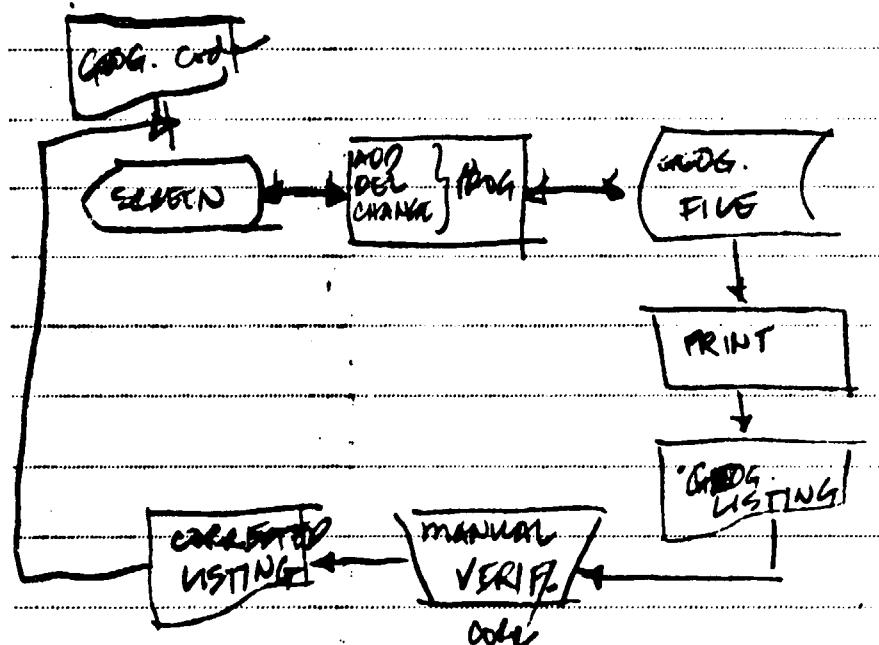
المملكة العربية السعودية

وزارة الصناعة والكهرباء

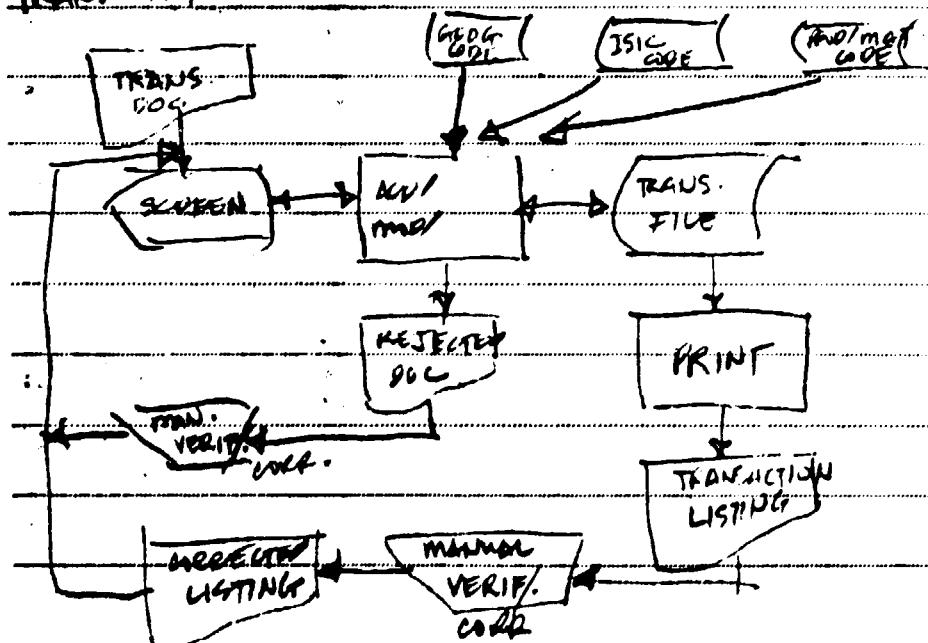
التوقيع \_\_\_\_\_  
اسم المحرر \_\_\_\_\_  
التاريخ \_\_\_\_\_

الموضوع \_\_\_\_\_

### GEOGRAPHIC FILE



### TRANSACTION FILE



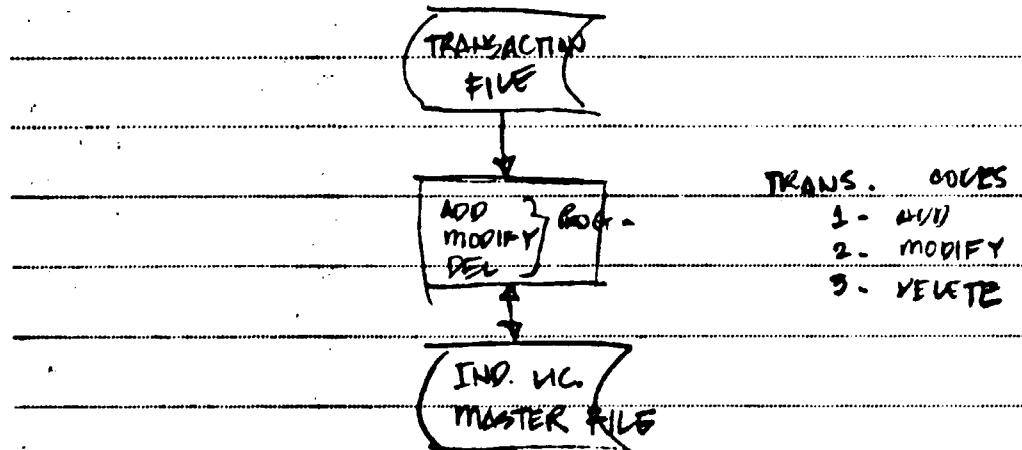
١٣  
بنية قاعدة الارجمن التجزئية

التوقيع \_\_\_\_\_ ٣ \_\_\_\_\_ اسم المحرر  
التاريخ \_\_\_\_\_

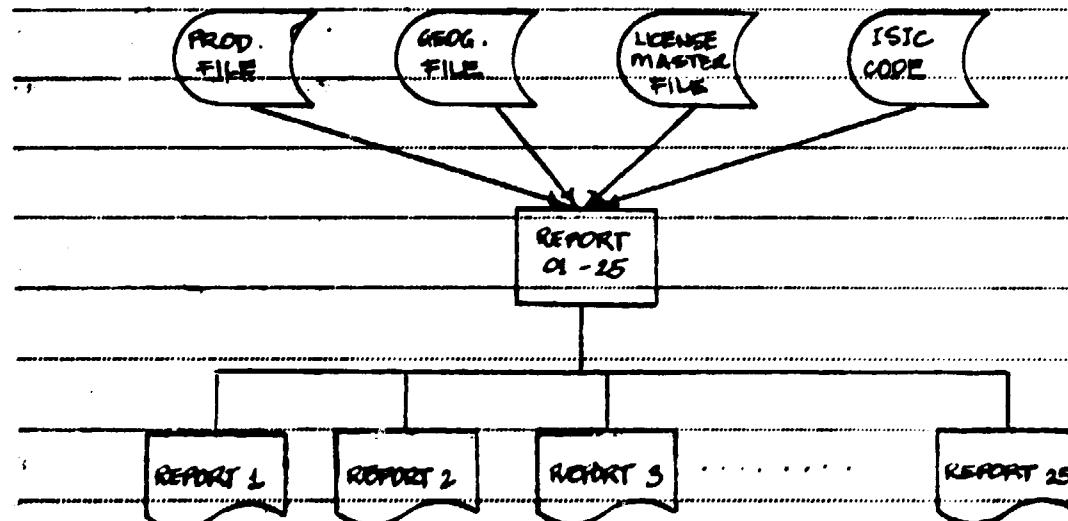
المملكة العربية السعودية  
وزارة الصناعة والكهرباء

الموضوع

MASTER FILE UPDATE



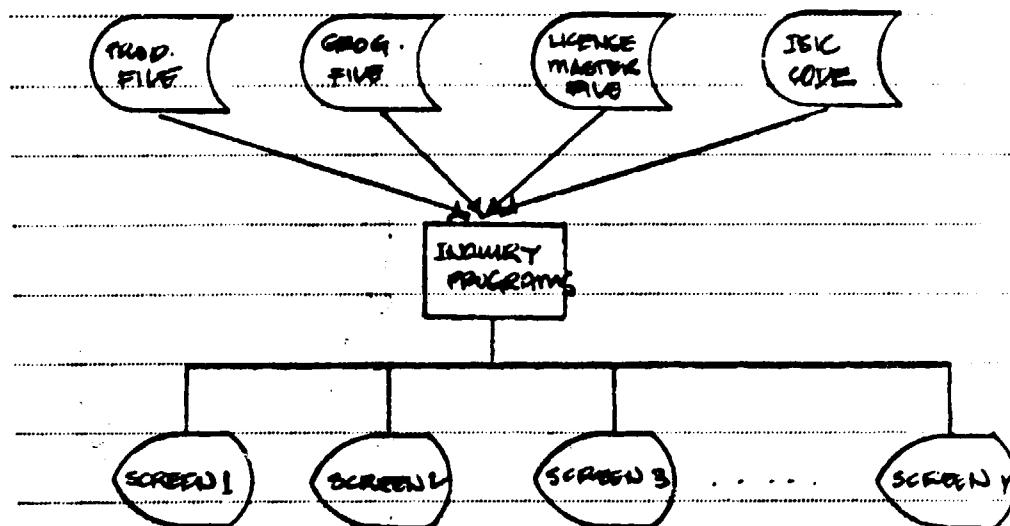
PRINTED REPORTS



التوقيع ..... ٤ ..... اسم المحرر .....  
التاريخ .....

الموضوع

ON-LINE INQUIRIES



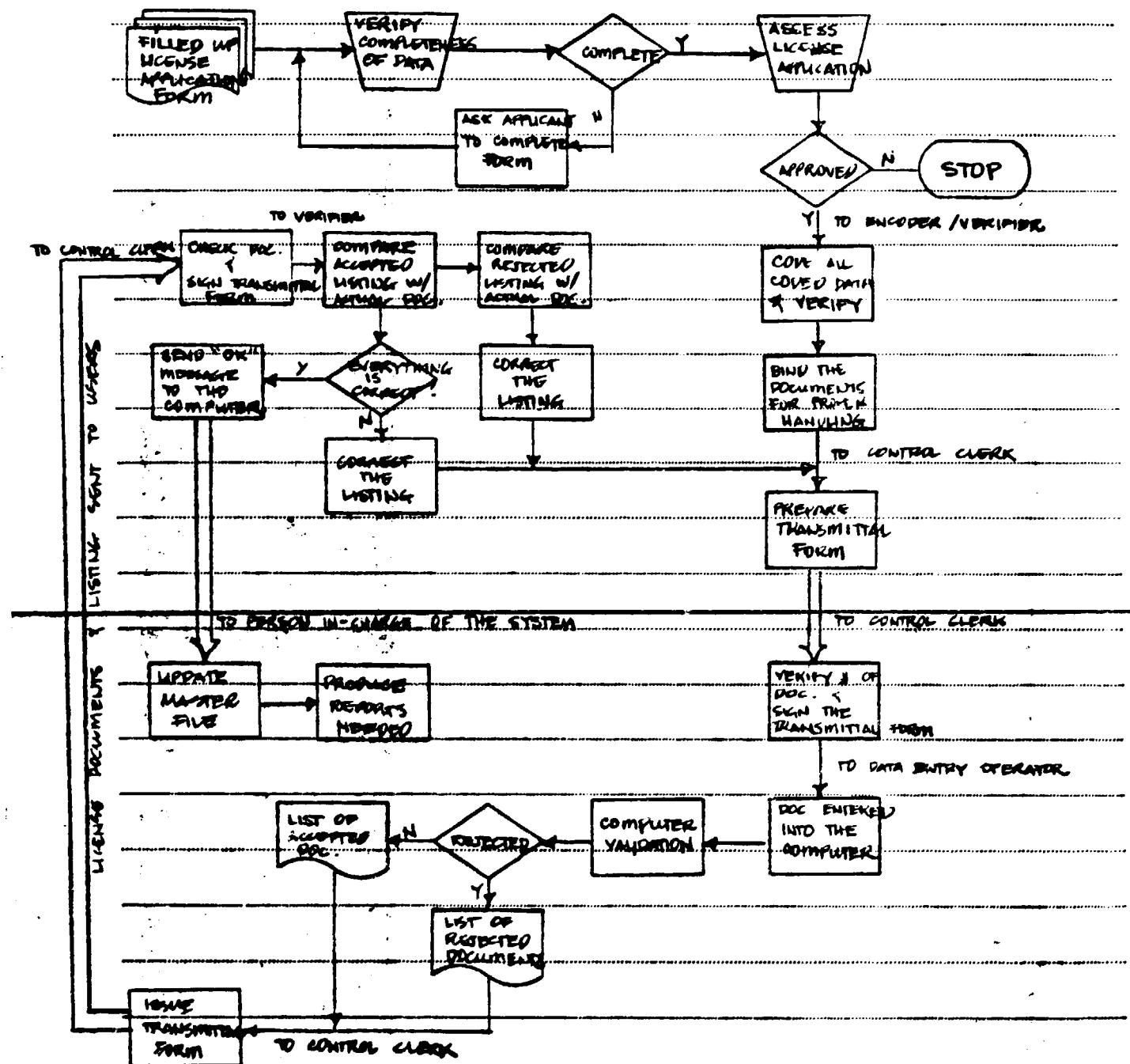
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APPENDIX II

التوقيع \_\_\_\_\_  
اسم المحرر \_\_\_\_\_  
التاريخ \_\_\_\_\_

SYSTEM FLOWCHART

الموضوع



INDUSTRIAL LICENSE DEPARTMENT

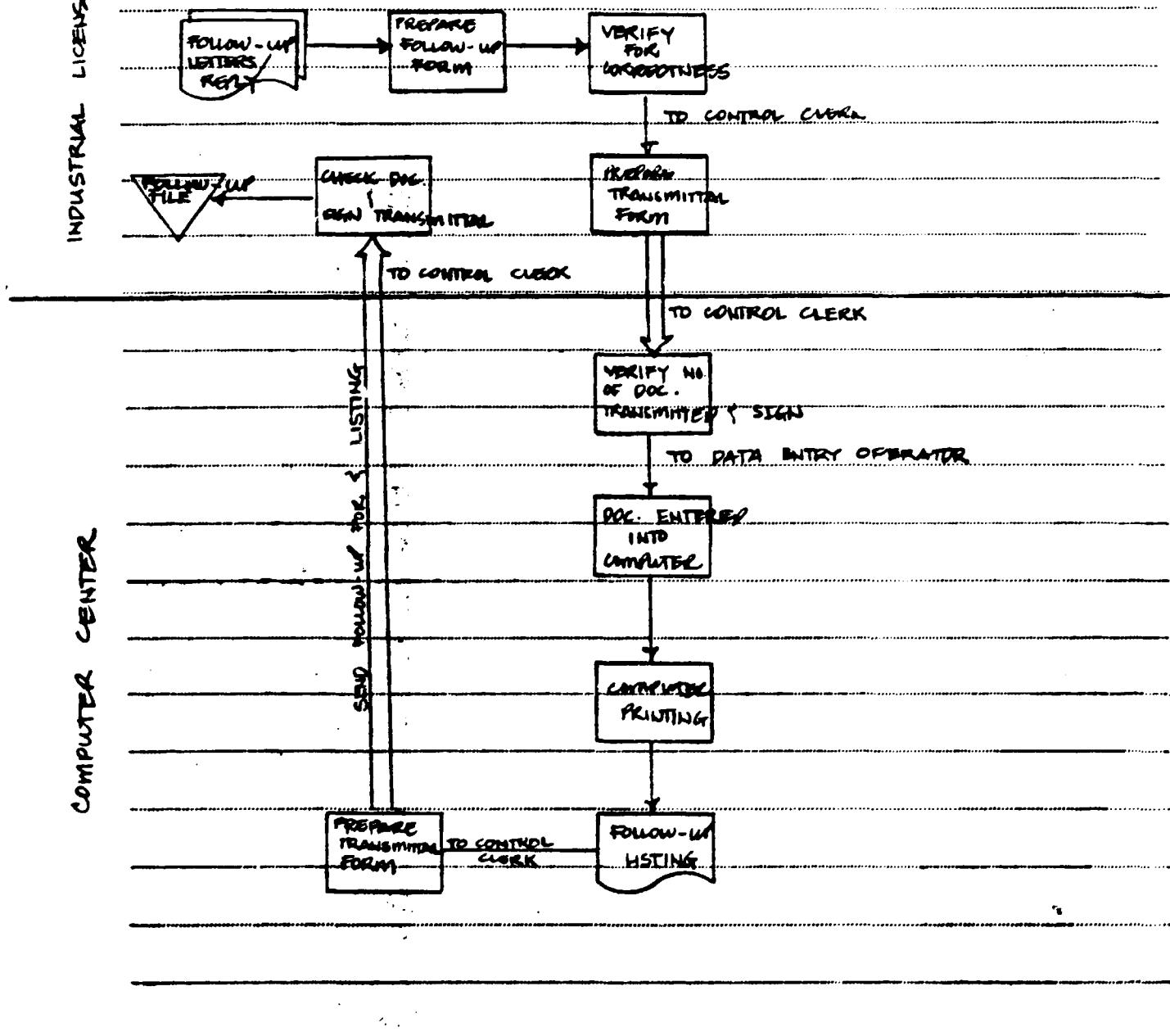
التوقيع

اسم المحرر

التاريخ

الموضوع

FOLLOW-UP



APPENDIX III

المملكة العربية السعودية  
وزارة الصناعة والكهرباء

التوقيع \_\_\_\_\_ اسم المحرر \_\_\_\_\_  
 التاريخ \_\_\_\_\_ الموضوع \_\_\_\_\_

## RECORD LAYOUT

## LICENSEE PROFILE (Licensee.d1)

FIELD NAME	LENGTH	LOCATION	FORMAT
License Number	7	1-7	Numeric
1. License Details			
Company's Arabic Name	40	8-	Alphanumeric
Company's English Name	30		Alphanumeric
Region	1		Numeric
City/Town	2		Numeric
License Date	7		Numeric
Investment Type	1		Numeric
Project Status	1		Numeric
Classification Code	6		Numeric
Statutory Entity	1		Numeric
Filler	5		
Project Owner & Share Capital	occurs 10 times		
Arabic Name	40		Alphanumeric
English Name	40		Alphanumeric
Nationality / Nationalities	9		Alphanumeric
Address	20		Alphanumeric
Telephone	7		Numeric
Fax	15		Alphanumeric

بيانات المنشأة

التوقيع

اسم المحرر

المملكة العربية السعودية

التاريخ

وزارة الصناعة والكهرباء

الموضوع

RECORD LAYOUT (Cont.)

FIELD NAME	LENGTH	LOCATION	FORMAT
Telegran	20		Alphanumeric
% Share	99,999	3	Comp-3
Filler		11	
3 Similar Projects	Occurs 6 times		
Arabic Name	30		Alphanumeric
English Name	30		Alphanumeric
Region	1		Numeric
City/Town	2		Numeric
Annual Production Output	20		Alphanumeric
Follow-up Status	19		Alphanumeric
Filler	8		
4 Materials Imported	Occurs 16 times		
Type			Numeric
Authorization Number	10		Numeric
Measurement Unit	10		Alphanumeric
First Year Amount	9(8)		Comp-3
Second Year Amount	9(8)		Comp-3
Third Year Amount	9(8)		Comp-3
Filler	8		
5 Products	Occurs 16 times		
Type			Numeric
Number Of Working Hours	2		Numeric

المملكة العربية السعودية

وزارة الصناعة والكهرباء

التوقيع \_\_\_\_\_  
اسم المحرر \_\_\_\_\_  
التاريخ \_\_\_\_\_

الموضوع \_\_\_\_\_

## RECORD LAYOUT (cont.)

FIELD NAME	LENGTH	LOCATION	FORMAT
Number of Annual Working Hours	3		Numeric
Annual Production Output	20		Alphanumeric
Fitter Materials Needed in Production	5		
Raw Material	20		Alphanumeric
Measurement Unit	10		Alphanumeric
Quantity	9(10)		Comp-3
Unit Price	99999.99	4	Comp-3
Amount	9(10)		Comp-3
Type	1		Numeric
Source	3		Numeric
Fitter Machinery & Equipment	5		
Type	20		Alphanumeric
Quantity	9(4)	4	Comp-3
Unit Price	9(5).99	4	Comp-3
Amount	9(10)		Comp-3
Comments	15		Alphanumeric
Marginal Requirements	5		
Job Classification	1		Numeric
Number of Saudi Employees	2		Numeric

بيانات المنشأة

اسم المقر \_\_\_\_\_  
التاريخ \_\_\_\_\_

المملكة العربية السعودية  
وزارة الصناعة والكهرباء

الموضوع

Record Layout (Cart.)

FIELD NAME	LENGTH	LOCATION	FORMAT
Number of Non-Saudi Employees	2		Numeric
Total Number of Employees	2		Numeric
Average Monthly Wage	9(5)		Comp-3
Total Monthly Wage	9(6)		Comp-3
Total Annual Wage	9(7)		Comp-3
Benchd. Filler	9(1)/9(2) 5		Alphanumeric
9 Details of Project Management Filler	300 10		Alphanumeric
10 Plans for Training Saudi Employees Filler	300 10		Alphanumeric
11 Discussion On Equipment For Environmental Protection Filler	300 10		Alphanumeric
12 Land & Building Requirements			
Land Total Area	9(5)		Comp-3
Land Cost Per Square Mile	9(3)		Comp-3
Land Rental Cost Per Square Mile	9(3)		Comp-3
Land Total Value	9(6)		Comp-3
Land Total Annual Rental	9(7)		Comp-3
Buildings Total Floor Area	9(5)		Comp-3
Production Building Total Area	9(5)		Comp-3
Production Building Construction Type	1		Numeric
Production Building Cost Per Square Mile	9(4)		Comp-3

التوقيع \_\_\_\_\_  
اسم المحرر \_\_\_\_\_  
التاريخ \_\_\_\_\_

المملكة العربية السعودية  
وزارة الصناعة والكهرباء

الموضوع

RECORD LAYOUT (cont.)

FIELD NAME	LENGTH	LOCATION	FORMAT
Productor Building Total Cost	9(8)		Comp-3
Warehouses Total Area	9(5)		Comp-3
Warehouses Construction Type	1		Numeric
Warehouse Cost Per Square Mile	9(4)		Comp-3
Warehouses Total Cost	9(8)		Comp-3
Administrative Building Total Area	9(5)		Comp-3
Administrative Building Construction Type	1		Numeric
Administrative Building Cost Per Square Mile	9(4)		Comp-3
Administrative Building Total Cost	9(8)		Comp-3
Fitter Building Cost	9(9) 8		
<b>B Electricity + Water Requirements</b>			
Electricity Source	1		Numeric
Volt Required	1		Numeric
Operational Capacity	9(5)		Comp-3
Capacity For Lighting + Aircon	9(4)		Comp-3
Initial Electric Cost	9(6)		Comp-3
Water Source	1		Numeric
Water Annual Consumption Quantity	9(4)		Comp-3
Cost Per Ton	9(2)		Comp-3
Water Annual Cost	9(6)		Comp-3
Fitter	8		

بيانات المنشأة

التوقيع \_\_\_\_\_  
اسم المحرر \_\_\_\_\_  
التاريخ \_\_\_\_\_

المملكة العربية السعودية

وزارة الصناعة والكهرباء

ال موضوع

Record LAMAR (Cont.)

FIELD NAME	LENGTH	LOCATION FORMAT
Capital		
Land	9(8)	Comp->
Building	9(9)	Comp->
Machinery & Equipment	9(10)	Comp-3
Installation Wages	9(7)	Comp-3
Vehicles	9(6)	Comp->
Furniture	9(6)	Comp-3
Total Fixed Capital	9(11)	Comp-3
Annual Land Rental	9(7)	Comp-3
Annual Building Rental	9(7)	Comp->
Raw Material	9(6)	Comp-3
Salaries + Wages	9(6)	Comp->
Fuel	9(5)	Comp->
Electricity	9(5)	Comp-3
Water	9(5)	Comp-3
Maintenance	9(6)	Comp->
Marketing	9(6)	Comp-3
Total Working Capital	9(8)	Comp-3
Total Capital	9(11)	Comp->
Filler	10	

المملكة العربية السعودية

وزارة الصناعة والكهرباء

التوقيع \_\_\_\_\_  
اسم المحرر \_\_\_\_\_  
التاريخ \_\_\_\_\_

الموضوع \_\_\_\_\_

RECORD LAYOUT (Cont.)

<u>FIELD NAME</u>	<u>LENGTH</u>	<u>LOCATION</u>	<u>FORMAT</u>
<b>3. Finance</b>			
Paid-up Capital	9(8)		Comp->
Percent	99.99		Comp-3
Percent Interest	99.9		Comp-3
Interest	9(1)		Comp-3
Loan Period	99		Comp-3
Long Term Loan	9(8)		Comp->
Percent	9999		Comp-3
Percent Interest	99.9		Comp-3
Interest	9(1)		Comp-3
Loan Period	99		Comp-3
Short Term Loan	9(8)		Comp-3
Percent	9999		Comp-3
Percent Interest	99.9		Comp-3
Interest	9(1)		Comp-3
Loan Period	99		Comp-3
Total	9(9)		Comp-3
Filler	10		

المملكة العربية السعودية

وزارة الصناعة والكهرباء

التوقيع \_\_\_\_\_  
 اسم المحرر \_\_\_\_\_  
 التاريخ \_\_\_\_\_

الموضوع

## RECORD LAYOUT (Cont.)

<u>FIELD NAME</u>	<u>LENGTH</u>	<u>LOCATION</u>	<u>FORMAT</u>
<b>16. Annual Operating Expenditure</b>			
Building Installation	9(6)		Comp-3
Machinery & Equipment	9(6)		Comp-3
Installation Usages	9(5)		Comp-3
Vehicles	9(5)		Comp-3
Furniture	9(5)		Comp-3
Installation Expenses	9(6)		Comp-3
Total Consumption Cost	9(6)		
Building Rental	9(7)		Comp-3
Land Rental	9(7)		Comp-3
Total Rental	9(7)		Comp-3
Buildings & Installations Maintenance	9(5)		Comp-3
Machinery & Equipment Maintenance	9(6)		Comp-3
Transport Maintenance	9(6)		Comp-3
Furniture & Office Equipment Maintenance	9(6)		Comp-3
Total Maintenance	9(6)		Comp-3
Salaries	9(6)		Comp-3
Fringe Benefits	9(5)		Comp-3
Social Security	9(5)		Comp-3
Total Salaries & Wages	9(6)		Comp-3

المملكة العربية السعودية  
وزارة الصناعة والكهرباء

التوقيع \_\_\_\_\_ اسم المحرر \_\_\_\_\_

التاريخ \_\_\_\_\_

الموضوع \_\_\_\_\_

RECORD LAYOUT (Cont.)

FIELD NAME	LENGTH	LOCATION	FORMAT
Raw Materials	9(6)		Comp-3
Electricity	9(5)		Comp-3
Water	9(5)		Comp-3
Fuel	9(5)		Comp-3
Marketing	9(6)		Comp-3 25%
Others	9(6)		Comp-3
Total Operating Expenses	9(7)		Comp-3
Filler	10		

17 Profitability

Production Value at Sale Price	9(9)	Comp-3
Annual Profit	9(7)	Comp-3
Return on Capital Investment	9999	Comp-3
Filler	5	

المملكة العربية السعودية  
وزارة الصناعة والكهرباء

التوقيع \_\_\_\_\_  
اسم المحرر \_\_\_\_\_  
التاريخ \_\_\_\_\_

الموضوع \_\_\_\_\_

CODING SCHEME USED  
For Input Document & System  
City / Town

Region \_\_\_\_\_

المملكة العربية السعودية  
وزارة الصناعة والكهرباء

التوقيع \_\_\_\_\_  
اسم المحرر \_\_\_\_\_  
التاريخ \_\_\_\_\_  
الموضوع \_\_\_\_\_

Statutory Entity

1- Individual Firm

2- General Partnership Co.

3- Limited Partnership Co.

4- Partnership Limited by Shares

5- Limited Liability Co.

6- Joint Stock Co.

Type of Investment

1- National

2- Foreign in F.I.I

3- Joint

Project Status

1- Implemented

2- Not Yet Implemented

3- In Production

4- Not Yet In Production

Classification Code

Nationality

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ ۖ

اسم المحرر ..... التوقيع .....

الطبعة الأولى

التاريخ

الموضوع -

الْمُكَبِّرُ لِلْعَسْرَةِ الْعَوْدَةِ

وزارة الصناعة والكهرباء

## Product

## Material

1 - Basic

## 2. Semi-finshel

3 - finished

Country

المملكة العربية السعودية  
وزارة الصناعة والكهرباء

اسم المحرر \_\_\_\_\_  
التاريخ \_\_\_\_\_  
الموضوع \_\_\_\_\_

Job Classification

- 1- Administrative Staff
- 2- Engineers
- 3- Technical Workers
- 4- Non-Tech. Workers

Type of Construction

- 1- Steel Hanger
- 2- Pre-engineered steel structure
- 3- Centered block structure
- 4-

Electricity Source

- 1- Public Network
- 2- Private generator sets

Volts Required

- 1- 380/220 volts
- 2- 13800 volts

For SystemWater Source

- 1- Water Network
- 2- Drilling of Wells
- 3- Water Trucks

التوقيع \_\_\_\_\_  
اسم المحرر \_\_\_\_\_  
التاريخ \_\_\_\_\_

الموضوع \_\_\_\_\_

Programs

Location \_\_\_\_\_

1- Add

2- Change

3- Delete

4- Examine

5- Print

Transaction

1- Add

2- Change

3- Delete

4- Examine

5- Print

Report (25 reports)

Update the masterfile

APPENDIX IV

Kingdom of Saudi Arabia  
Ministry of Industry and Electricity

**SCREEN LAYOUT**

SYSTEM	REPORT OPERATION	PAGE					
PROGRAM NAME							
MODULE	VERSION						
1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80

01	02	03	04	05	06	07	08
09	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88
89	90	91	92	93	94	95	96
97	98	99	100	101	102	103	104

**Kingdom of Saudi Arabia**  
**Ministry of Industry and Electricity**

**SCREEN LAYOUT**

الملائكة العرشية المُهوديَّة  
 وزارة الفَسَادِ الْعَامَّةِ والْمُنْزَهِ

SYSTEM	REPORT/OPERATION	DATE
MODULE	VERSION	PREPARED BY
01	1-10	11-20
02	11-20	21-30
03	21-30	31-40
04	31-40	41-50
05	41-50	51-60
06	51-60	61-70
07	61-70	71-80
08	71-80	81-90
09	81-90	91-100
10	91-100	101-110
11	101-110	111-120
12	111-120	121-130
13	121-130	131-140
14	131-140	141-150
15	141-150	151-160
16	151-160	161-170
17	161-170	171-180
18	171-180	181-190
19	181-190	191-200
20	191-200	201-210
21	201-210	211-220
22	211-220	221-230
23	221-230	231-240
24	231-240	241-250
25	241-250	251-260
26	251-260	261-270
27	261-270	271-280
28	271-280	281-290
29	281-290	291-300
30	291-300	301-310
31	301-310	311-320
32	311-320	321-330
33	321-330	331-340
34	331-340	341-350
35	341-350	351-360
36	351-360	361-370
37	361-370	371-380
38	371-380	381-390
39	381-390	391-400
40	391-400	401-410
41	401-410	411-420
42	411-420	421-430
43	421-430	431-440
44	431-440	441-450
45	441-450	451-460
46	451-460	461-470
47	461-470	471-480
48	471-480	481-490
49	481-490	491-500
50	491-500	501-510
51	501-510	511-520
52	511-520	521-530
53	521-530	531-540
54	531-540	541-550
55	541-550	551-560
56	551-560	561-570
57	561-570	571-580
58	571-580	581-590
59	581-590	591-600
60	591-600	601-610
61	601-610	611-620
62	611-620	621-630
63	621-630	631-640
64	631-640	641-650
65	641-650	651-660
66	651-660	661-670
67	661-670	671-680
68	671-680	681-690
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71	701-710	711-720
72	711-720	721-730
73	721-730	731-740
74	731-740	741-750
75	741-750	751-760
76	751-760	761-770
77	761-770	771-780
78	771-780	781-790
79	781-790	791-800
80	791-800	801-810
81	801-810	811-820
82	811-820	821-830
83	821-830	831-840
84	831-840	841-850
85	841-850	851-860
86	851-860	861-870
87	861-870	871-880
88	871-880	881-890
89	881-890	891-900
90	891-900	901-910
91	901-910	911-920
92	911-920	921-930
93	921-930	931-940
94	931-940	941-950
95	941-950	951-960
96	951-960	961-970
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**Kingdom of Saudi Arabia**  
**Ministry of Industry and Electricity**

SCREEN LAYOUT



**Kingdom of Saudi Arabia**  
**Ministry of Industry and Electricity**

الملكية الفرعية **الْمُؤْدِيَة**  
وزارة الشّئون الإجتماعية والشّئون الدينيّة

SCREEN LAYOUT

Kingdom of Saudi Arabia  
Ministry of Industry and Electricity

SCREEN LAYOUT

المملكة العربية السعودية  
وزارة الصناعة والطاقة

VERSION	REPORT ORIGIN	PAGE
PROGRAM NAME	DATE	
01	1-10 11-20 21-30 31-40 41-50 51-60 61-70 71-80	12345678901234567890123456789012345678901234567890
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Kingdom of Saudi Arabia  
Ministry of Industry and Electricity

السلطة الدينية المؤدية  
وزارة الفتاوى والبحوث الإسلامية

SCREEN LAYOUT

PROGRAM NAME

— 1 —  
BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

**11 - 10**      **11 - 20**      **11 - 30**      **11 - 40**      **11 - 50**      **11 - 60**      **11 - 70**      **11 - 80**

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سی امین جلسہ ملکیت ادبیات اسلام

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الطبعة الأولى / ٢٠١٣

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**Kingdom of Saudi Arabia**  
**Ministry of Industry and Electricity**

SCREEN LAYOUT

السلطة العروبية الشهودية  
وزارة الفتاوى العامة والحكمة

**Kingdom of Saudi Arabia**  
**Ministry of Industry and Electricity**

**SCREEN LAYOUT**

الملكية العربية السعودية  
 وزارة الصناعة والكهرباء

System	Program Name	Version	Prepared by	Report Operation	Date	Page	
001	1 - 10	11 - 20	21 - 30	31 - 40	41 - 50	51 - 60	
002	1234567890123456789012345678901234567890123456789012345678901234567890	1234567890123456789012345678901234567890123456789012345678901234567890	1234567890123456789012345678901234567890123456789012345678901234567890	1234567890123456789012345678901234567890123456789012345678901234567890	1234567890123456789012345678901234567890123456789012345678901234567890	1234567890123456789012345678901234567890123456789012345678901234567890	1234567890123456789012345678901234567890123456789012345678901234567890
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Kingdom of Saudi Arabia  
Ministry of Industry and Electricity

SCREEN LAYOUT

الملائكة العرشية الشفوية  
وزارة الفلاحة والثروة الحيوانية

System \_\_\_\_\_  
Program Name \_\_\_\_\_  
Module \_\_\_\_\_  
Version No. \_\_\_\_\_  
Report Date \_\_\_\_\_  
Date \_\_\_\_\_  
Page \_\_\_\_\_

1 - 10	11 - 20	21 - 30	31 - 40	41 - 50	51 - 60	61 - 70	71 - 80
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**Kingdom of Saudi Arabia**  
**Ministry of Industry and Electricity**

## SCREEN LAYOUT

الملكية العربية والملكية

Ministry of Industry and Electricity  
Bahrain

SCREEN LAYOUT

۱۰۷۳

PROGRAM NAME \_\_\_\_\_ SYSTEM \_\_\_\_\_ VERSION \_\_\_\_\_ MODULE \_\_\_\_\_  
REPORT OPERATION PAGE \_\_\_\_\_ DATE \_\_\_\_\_ PREPARED BY \_\_\_\_\_

“**אָמַר** יְהוָה אֱלֹהִים  
בְּעֵת **הַזֶּה** כִּי־**כָּל**

SCREEN LAYOUT

Ministry of Industry and Electricity  
Bahrain

SYSTEM NAME \_\_\_\_\_ VERSION \_\_\_\_\_ MODULE \_\_\_\_\_  
PROGRAM NAME \_\_\_\_\_ REPO RT DEPARTMENT \_\_\_\_\_ PAGE \_\_\_\_\_ OF \_\_\_\_\_  
DATE \_\_\_\_\_ PREPARED BY \_\_\_\_\_

**Kingdom of Saudi Arabia**  
**Ministry of Industry and Electricity**

الملكية العربية المفروضة  
وزارة الفلاحة العامة والمالية

SCREEN LAYOUT

**Kingdom of Saudi Arabia**  
**Ministry of Industry and Electricity**

SCREEN LAYOUT

الإمارة الملكية العربية السعودية - وزارة الفلاحة - ولي العهد

SCREEN LAYOUT

SAFETY	REPORT OPERATION	PAGE	PROGRAM NAME	DATE	MODULE				
1 - 10	11 - 20	21 - 30	31 - 40	41 - 50	51 - 60	61 - 70	71 - 80	81 - 90	91 - 100

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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SCREEN LAYOUT

Ministry of Industry and Electricity

۱۰۷

PROGRAM NAME \_\_\_\_\_ VERSION \_\_\_\_\_ DATE \_\_\_\_\_  
PREPARATION \_\_\_\_\_ MEDICAL ORGANIZATION \_\_\_\_\_

ACCIDENT MESSAGES

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Maintainability of Landscapes and Electricities

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Kingdom of Saudi Arabia  
Ministry of Industry and Electricity

الملكية العربية الفيدرالية  
وزارة الفلاحة والثروة البرية

SCREEN LAYOUT

Kingdom of Saudi Arabia  
Ministry of Industry and Electricity

SCREEN LAYOUT

الملكية العربية المفروضة  
وزارة الفلاحة والرى

Kingdom of Saudi Arabia  
Ministry of Industry and Electricity

**SCREEN LAYOUT**

الملائكة العزيزة والملك مهدي  
وزارة الصناعة والتجارة

SYSTEM	REPORT OPERATION	DATE	PAGE
PROGRAM NAME	VERSION	PREPARED BY	
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ملحوظات جدول (F) لدخولات المنشآت (SC)

ملحوظات جدول (F) لدخولات المنشآت (SC)

**Kingdom of Saudi Arabia**  
**Ministry of Industry and Electricity**

SCREEN LAYOUT

الملكية العربية المفتوحة  
وزارة الفلاحة والرى