LEARN MDS

(INCLUDED IN ELECTRIC COST SOFTWARE)

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LEARN MASTER DATA SHEET

Note : Before Learning, you must go through '' Basis of MDS '' from '' Read Me '' Option.

Create New File   **STEP NO. 1**

Add Records   **STEP NO. 2**

Display, Print and Delete Records   **STEP NO. 3**

Edit Records   **STEP NO. 4**
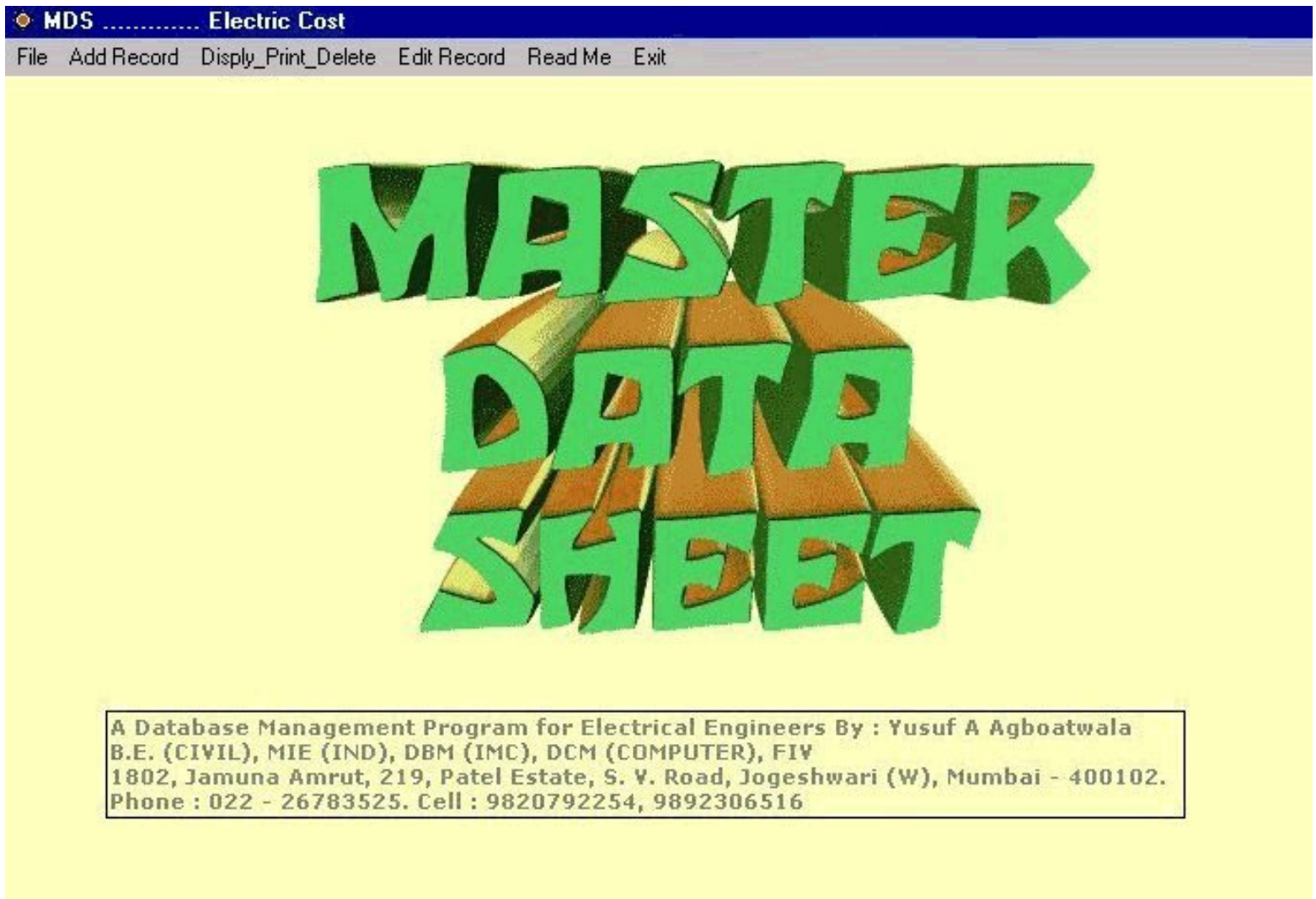
Copy, Delete and Edit Project File   **STEP NO. 5**
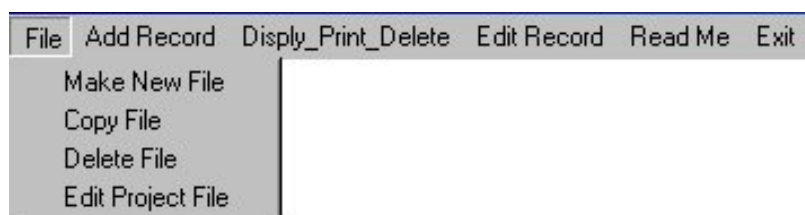
LEARN MDS STEP BY STEP
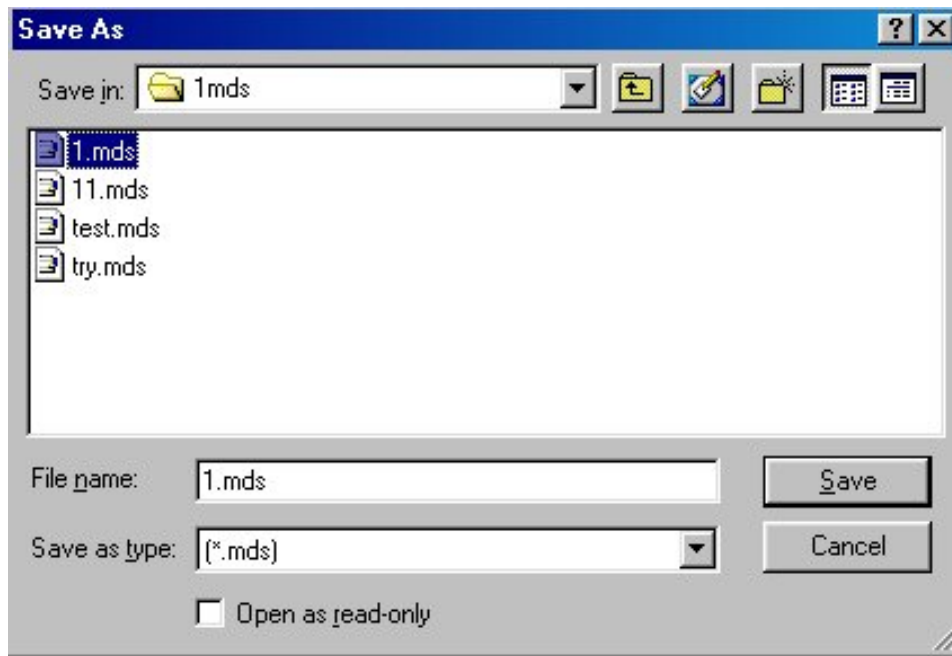
STEP NO. 1

▶ **When Program starts, the above graphics is displayed. The Menu bar contains following options.**

 I. File
 II. Add Record
 III. Display_Print_Delete
 IV. Edit Record
 V. Read Me
 VI. Exit

 Click the FILE option in the MENU bar. The following window will open.
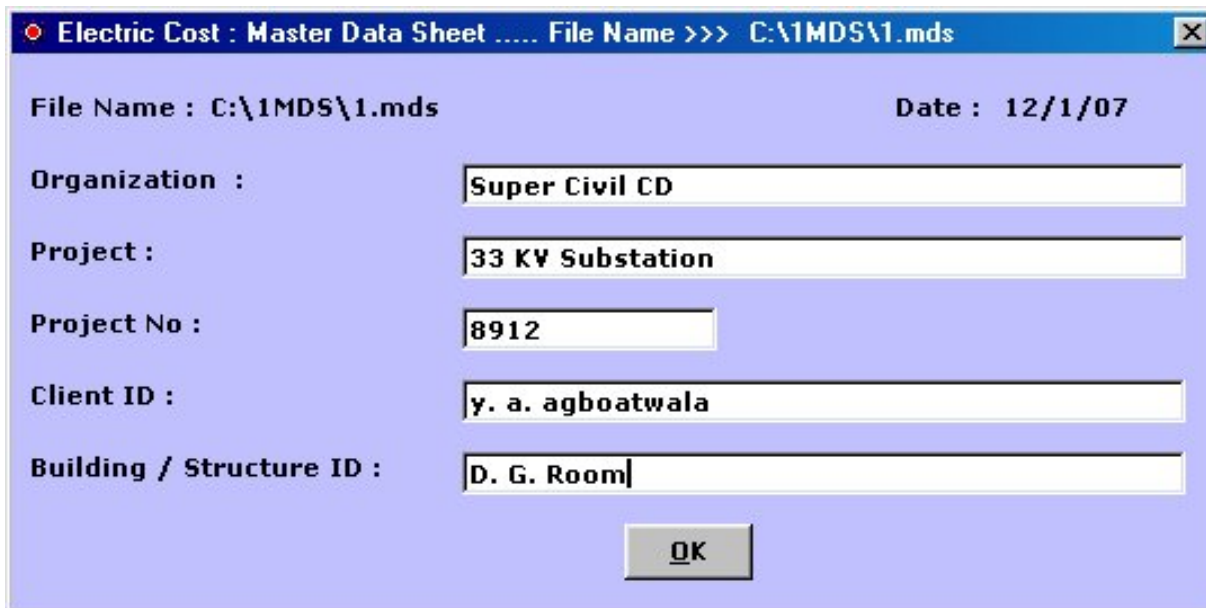
▶ **Now click "Make New File" option. The following window will open.**

▶ **You must create a separate Folder / Directory to store your files.**
I have created a Directory called " 1mds " in C drive to store my " MDS " files.
Now go to this folder & give a file name to your project. I have given " 1 " as the name of my new project file. Click the save button.

When you click the save button, following window will open.

▶ **The window requires various project details. Whatever values you will fill here will serve as default values for the project.**
I have filled up the above values as required by my new project " 1 ".
You can change these values now OR later by clicking "Edit Project File" option in File Menu. Now click the OK button, following window will appear.

Please Note :

File Creation is Complete.
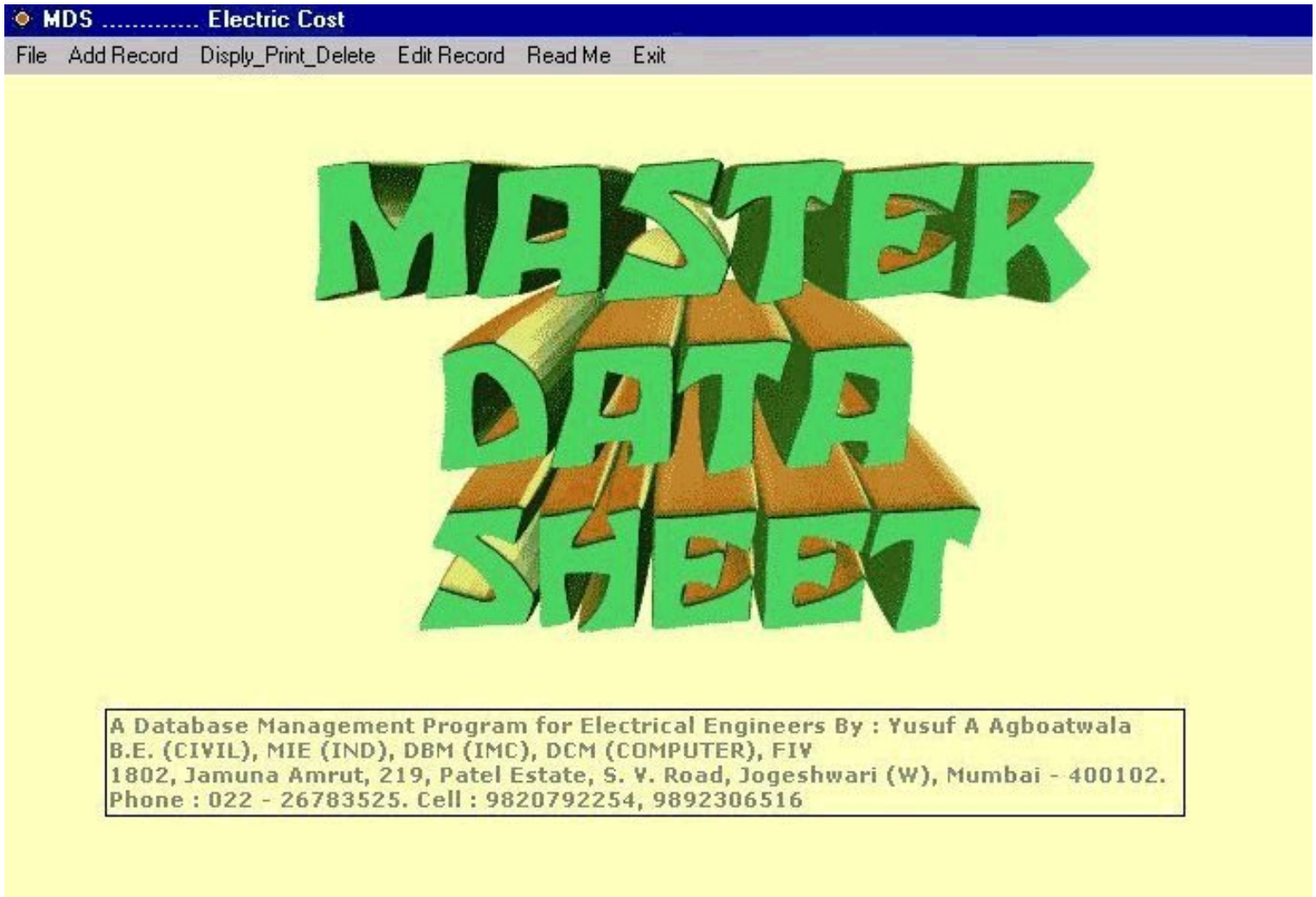Use Add Record Menu to Fill Records.

OK
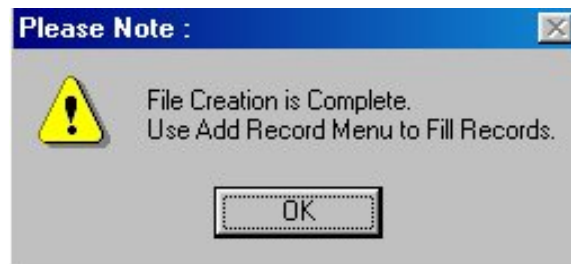
▶ **Click OK button. Now project File creation is complete.**
The above window gives the following vital information.
Use Add Record Menu to add Quantities of various Items.
Click " OK " button, you are back to the Main Menu.
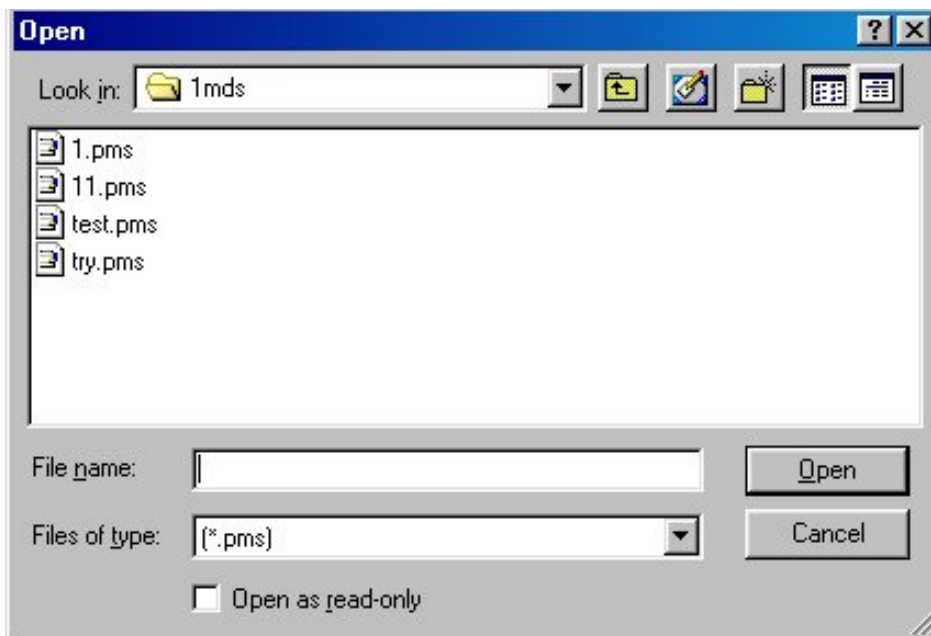
STEP NO. " 1 " IS OVER.

STEP NO. 2

▶ **When Program starts, the above graphics is displayed. The Menu bar contains following options.**

I. File
II. Add Record
III. Display_Print_Delete
IV. Edit Record
V. Read Me
VI. Exit

Click the Add Record option in the MENU bar. The following window will open.

Open

Look in: 📁 1mds

📄 1.pms
📄 11.pms
📄 test.pms
📄 try.pms

File name: [   ]   [**Open**]

Files of type: [(*.pms)   ▼]   [Cancel]

☐ Open as read-only

▶ **Now click " 1 " file & click open. A new window will appear as follows. The heading is Page No. 1.**
Add Record No. 1. Note that total data consists of 3 pages.

● Electric CD : MDS : Page No. 1 .... Add Record No. 1

General Data

Equipment No.	P2778A
Description	Cooling Water Pump
Rating	KW ▼ 75
R P M	1500 ▼
Mounting Type	B3 ▼
Construction Type	IND-TEFC ▼
Protection degree	IP 55
Insulation Class	B ▼
Working Units	1 ▼
Stand by Units	0 ▼
MCC Number	1
PCC Number	
Feeder No.	F ▼ X: 1 ▼ Y: 4 ▼
Feeder Type	M ▼ 1A
Control Wiring Drawing No.	15
CT Ratio	150 /1/1A ▼

General Data

Ammeter Range	0-150 / 450 A
Push Button Type	S5 ▼
Scope of Motor	SELF ▼
Remark	

1st Power Cable Data

Designation	104P1
Fed from Eqp. No.	MCC1
Description of Eqp. Fed from:	MCC1 FDR 1F4
Cable Gland Type Fed from:	S ▼
Fed to Eqp. No.	P2778A
Description of Eqp. Fed to:	Cooling H2o Pump
Cable Gland Type Fed to:	D ▼
No. of Runs	2 ▼
Cable Size in mm2	3C*70 ▼
Cable Length in M	100

[EXIT]

[NEXT PAGE]

▶ **Enter General Data and 1st Power Cable Data for the 1st Page. I have added a typical sets of Data for reference. A user can change the above parameters as per the project requirements. Once the data feeding is over, click " NEXT_PAGE " button. New screen is displayed as follows.**

Electric CD : MDS : Page No. 2 ... Add Record No. 1

2nd Power Cable Data

Designation	104P2
Fed from Eqp. No.	MCC1
Description of Eqp. Fed from:	MCC1 FDR 1F4
Cable Gland Type Fed from:	S

Fed to Eqp. No.	
Description of Eqp. Fed to:	Space Heater
Cable Gland Type Fed to:	D
No. of Runs	1
Cable Size in mm2	3C*2.5
Cable Length in M	100

1st Control Cable Data

Designation	104C1
Fed from Eqp. No.	MCC1
Description of Eqp. Fed from:	MCC1 FDR 1F4
Cable Gland Type Fed from:	S

Fed to Eqp. No.	
Description of Eqp. Fed to:	Start/Stop+A/M+A
Cable Gland Type Fed to:	D
No. of Runs	1
Cable Size in mm2	6C*2.5
Cable Length in M	100

EXIT   NEXT PAGE

▶ **Now enter 2nd Power Cable and 2nd Control Cable Data for the 2nd Page. I have added a typical sets of Data for reference. A user can change the above parameters as per the project requirements. Once the data feeding is over, click " NEXT_PAGE " button. New screen is displayed as follows.**

2nd Control Cable Data

Designation	104C2
Fed from Eqp. No.	MCC1
Description of Eqp. Fed from:	MCC1 FDR 1F4
Cable Gland Type Fed from:	S ▼

- -

Fed to Eqp. No.	
Description of Eqp. Fed to:	FEA in Ctrl Room
Cable Gland Type Fed to:	S ▼
No. of Runs	1 ▼
Cable Size in mm2	2C*1.5 ▼
Cable Length in M	100

3rd Control Cable Data

Designation	104C2
Fed from Eqp. No.	MCC1
Description of Eqp. Fed from:	MCC1 FDR 1F4
Cable Gland Type Fed from:	S ▼

- -

Fed to Eqp. No.	
Description of Eqp. Fed to:	FEA in Ctrl Room
Cable Gland Type Fed to:	S ▼
No. of Runs	1 ▼
Cable Size in mm2	2C*1.5 ▼
Cable Length in M	100

Power / Contol Cable Entry Data (ET)

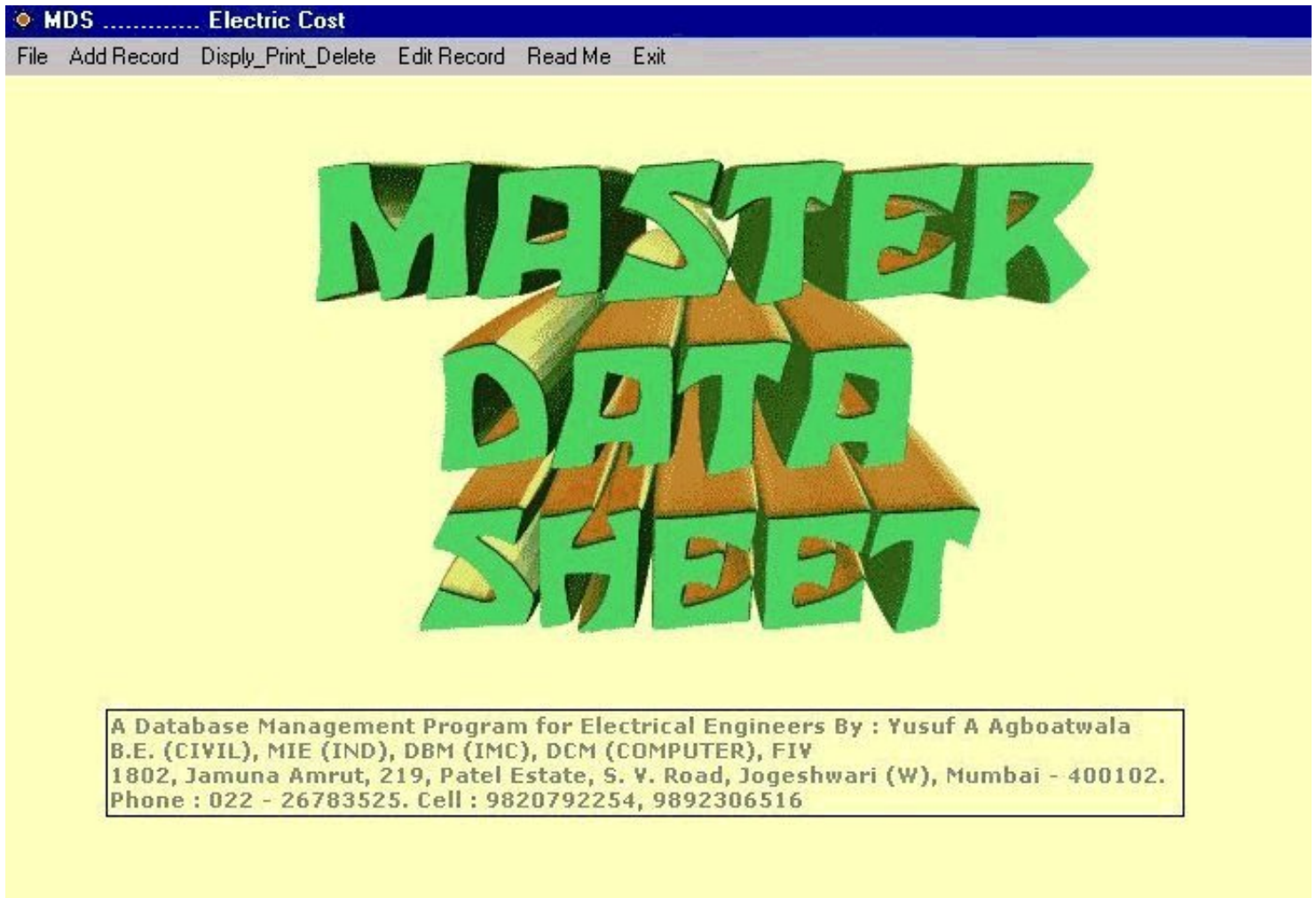|			
Size of 1st Power Cable Entry in Inch	1 1/4 ▼	Quantity of 1st Control Cable Entry	1 ▼
Quantity of 1st Power Cable Entry	2 ▼	Size of 2nd Control Cable Entry in Inch	3/4 ▼
Size of 2nd Power Cable Entry in Inch	3/4 ▼	Quantity of 2nd Control Cable Entry	1 ▼
Quantity of 2nd Power Cable Entry	1 ▼	Size of 3rd Control Cable Entry in Inch	3/4 ▼
Size of 1st Control Cable Entry in Inch	1 ▼	Quantity of 3rd Control Cable Entry	1 ▼

EXIT   NEXT RECORD

▶ **Now enter 2nd, 3rd Control Cable Data and Power / Control cable Entry (ET) data for the 3rd (Last) Page. I have added a typical sets of Data for reference. A user can change the above parameters as per the project requirements. Once the data feeding is over, click " EXIT " button OR " NEXT RECORD " button to continue with adding more records.**

STEP NO. 2 IS OVER.

STEP NO. 3

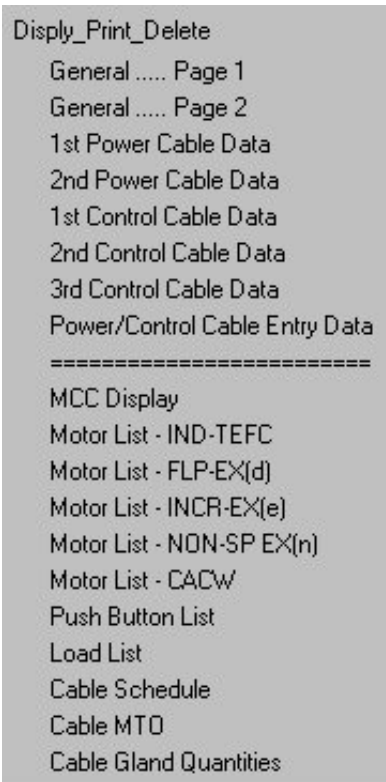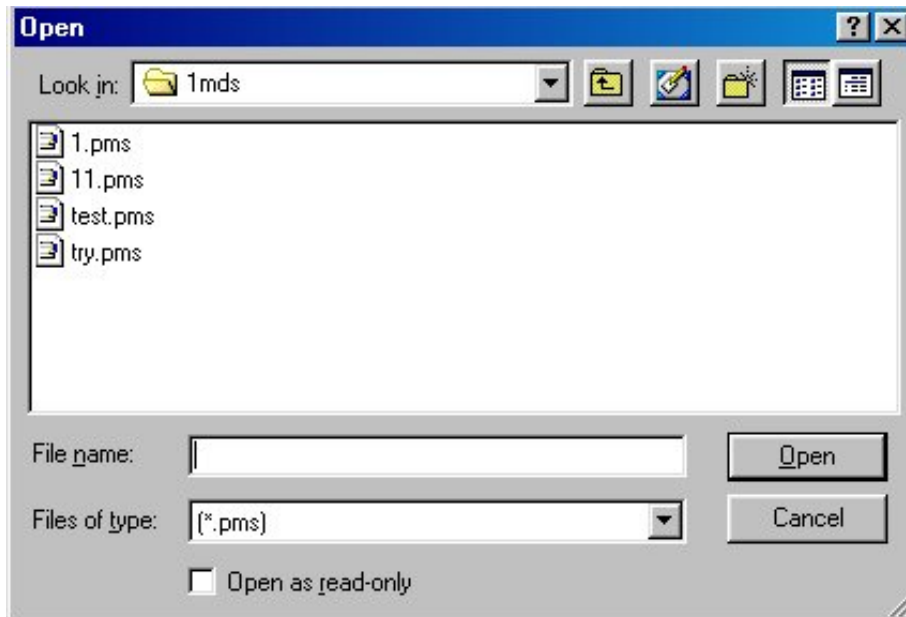▶ **When Program starts, the above graphics is displayed. The Menu bar contains following options.**

I. File
II. Add Record
III. Display_Print_Delete
IV. Edit Record
V. Read Me
VI. Exit

Click the Display_Print_Delete Record option in the MENU bar. The following window will open.

```
Disply_Print_Delete
        General ..... Page 1
        General ..... Page 2
        1st Power Cable Data
        2nd Power Cable Data
        1st Control Cable Data
        2nd Control Cable Data
        3rd Control Cable Data
        Power/Control Cable Entry Data
        ============================
        MCC Display
        Motor List - IND-TEFC
        Motor List - FLP-EX(d)
        Motor List - INCR-EX(e)
        Motor List - NON-SP EX(n)
        Motor List - CACW
        Push Button List
        Load List
        Cable Schedule
        Cable MTO
        Cable Gland Quantities
```

▶ **Now click the 1st option i.e. General .... Page 1. Following File open window will be displayed.**

```
Open                                          ? X
Look in:  🗀 1mds          ▼  🔼  🖉  🗁  🎛 🎛

  📄 1.pms
  📄 11.pms
  📄 test.pms
  📄 try.pms




File name:  [                    ]        Open
Files of type:  [*.pms]            ▼     Cancel
       ☐ Open as read-only
```

▶ **Now Open file named " 11 ".**
 A new window will appear, which will display Page 1 of General items.
 Note the Following buttons.
 ● **Move Up / Down : For moving record nos. within the file.**
 ● **Print : For Printing of Records.**
 ● **Remove : For deleting the selected record.**
 ● **Update : Click this option after every edit.**

DISPLAY/DELETING/PRINTING OF MDS
General Data: Page No. 1

Organization :   Super Civil CD   Client :   y. a. agboatwala

Project :   Transformer Project   Project No :   8912

Struture ID :   D. G. Room   Date : 13/1/07

#	Equipm...	Description	Rating	RPM	Mounting	Constn	Protecti...	Insulati...	Working...	Stand ...	MCC #	PCC #
1	P123	Cooling Water ...	100KW	1500	B3	FLP-EX(d)	IP55	B	1	2	1	
2	222	Cooling Water ...	75KW	1500	B3	INCR-EX(...	IP55	B	1	1	2	

| MOVE UP | MOVE DOWN | PRINT | EXIT | REMOVE | UPDATE |

▶ **Similarly you can display / Delete / Print all the other items in the menu.**
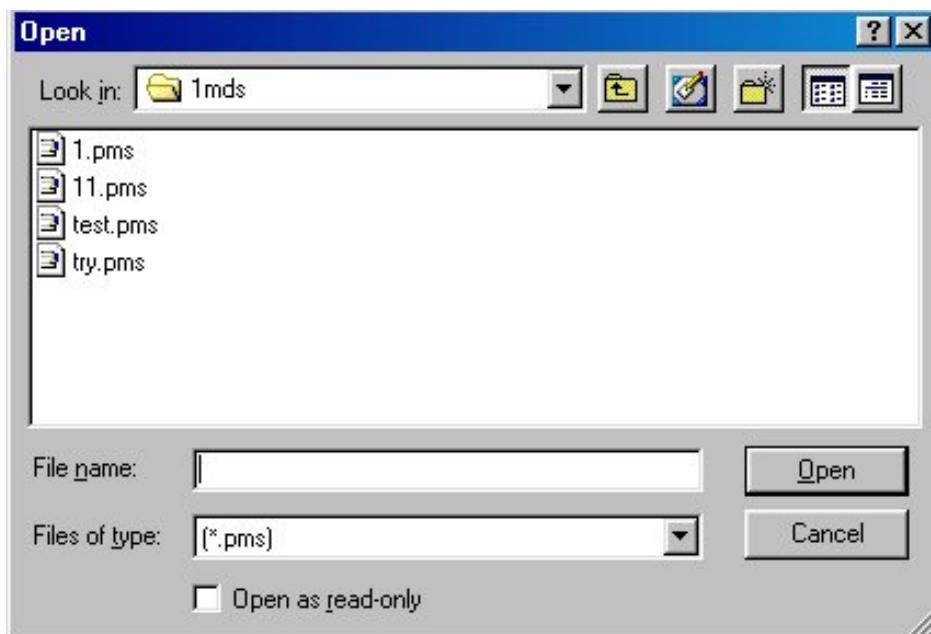
STEP NO. 3 IS OVER.

# LEARN MDS STEP BY STEP
STEP NO. 4
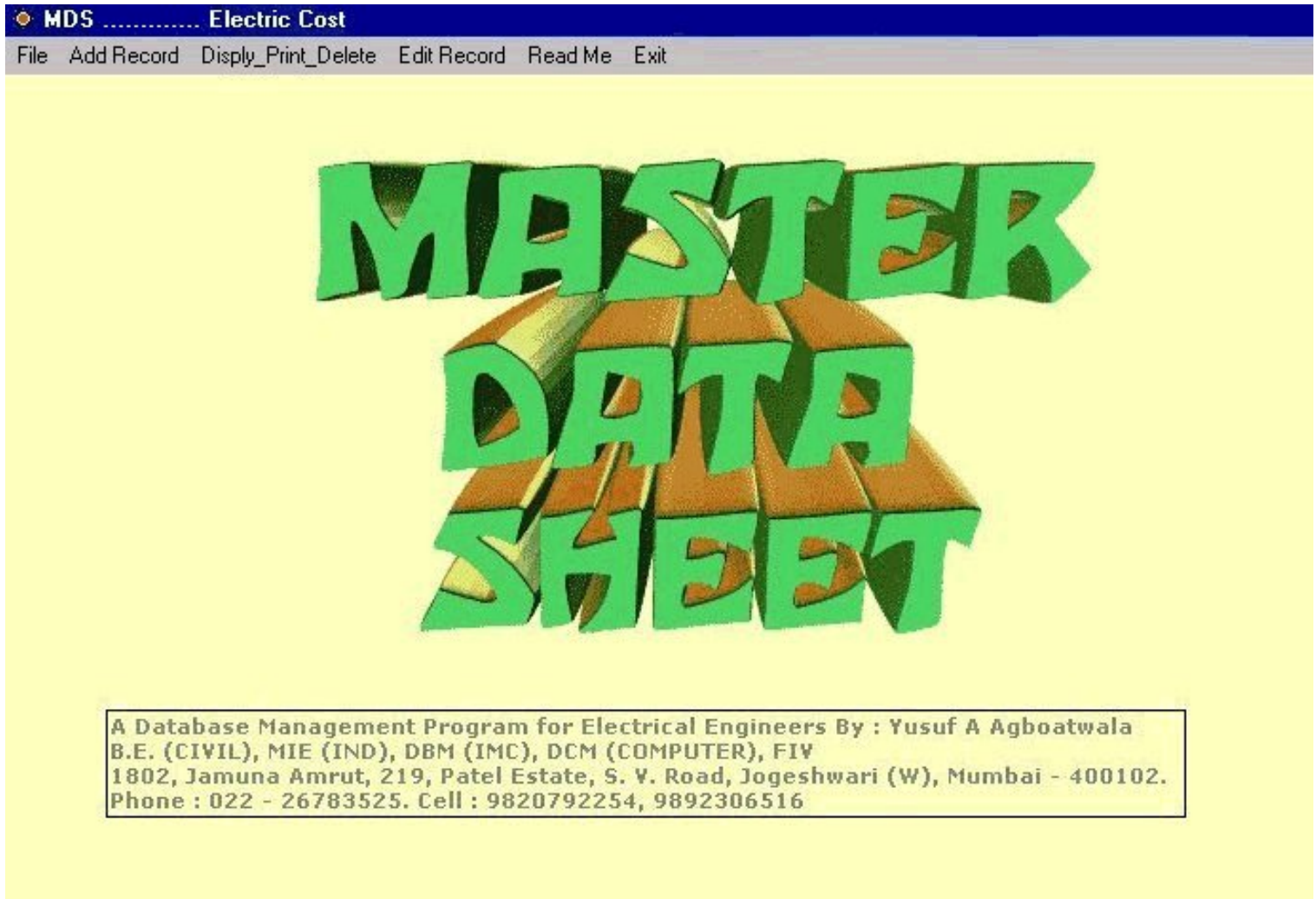
▶ **When Program starts, the above graphics is displayed. The Menu bar contains following options.**

I. File
II. Add Record
III. Display_Print_Delete
IV. Edit Record
V. Read Me
VI. Exit

Click the Edit Record option in the MENU bar. The following window will open.

► **Now click " 11 " file & click open. Edit record no. window will be displayed as follows. This window displays Record Counter, Total No. of Records in the file and File Name.**
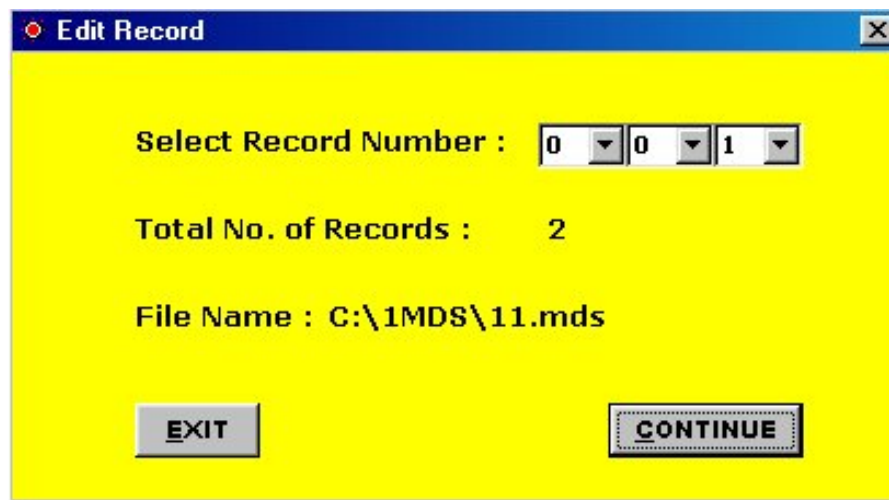
► **Now select the record no. from the record counter for editing and click " CONTINUE " button. The desired record no. (1st Page) will be displayed for editing as follows.**

General Data

Equipment No.	P123
Description	Cooling Water Pump
Rating	KW ▼ 100
R P M	1500 ▼
Mounting Type	B3 ▼
Construction Type	FLP-EX(d) ▼
Protection degree	IP 55
Insulation Class	B ▼
Working Units	1 ▼
Stand by Units	2 ▼
MCC Number	1
PCC Number	
Feeder No.	F ▼ X: 1 ▼ Y: 4 ▼
Feeder Type	M ▼ 1A
Control Wiring Drawing No.	15
CT Ratio	150 /1/1A ▼

General Data

Ammeter Range	0- 150 / 11111 A
Push Button Type	S5 ▼
Scope of Motor	SELF ▼
Remark	111111

1st Power Cable Data

Designation	111111
Fed from Eqp. No.	MCC1
Description of Eqp. Fed from:	MCC1 FDR 1F4
Cable Gland Type Fed from:	S ▼
Fed to Eqp. No.	P2778A
Description of Eqp. Fed to:	Cooling H2o Pump
Cable Gland Type Fed to:	S ▼
No. of Runs	1 ▼
Cable Size in mm2	2C*2.5 ▼
Cable Length in M	1

EXIT

NEXT PAGE

▶ **After Editing this 1st Page, Go to 2nd Page by clicking " NEXT PAGE " button.**

2nd Power Cable Data

Designation	111111
Fed from Eqp. No.	
Description of Eqp. Fed from:	
Cable Gland Type Fed from:	S

Fed to Eqp. No.	
Description of Eqp. Fed to:	Space Heater
Cable Gland Type Fed to:	S
No. of Runs	1
Cable Size in mm2	2C*4
Cable Length in M	2

EXIT

1st Control Cable Data

Designation	111111
Fed from Eqp. No.	
Description of Eqp. Fed from:	
Cable Gland Type Fed from:	S

Fed to Eqp. No.	
Description of Eqp. Fed to:	Start/Stop+A/M+A
Cable Gland Type Fed to:	S
No. of Runs	1
Cable Size in mm2	2C*1.5
Cable Length in M	3

NEXT PAGE

▶ **After Editing this 2nd Page, Go to 3rd Page by clicking " NEXT PAGE " button.**

2nd Control Cable Data

Designation	111111
Fed from Eqp. No.	
Description of Eqp. Fed from:	
Cable Gland Type Fed from:	S ▼

- -

Fed to Eqp. No.	
Description of Eqp. Fed to:	FEA in Ctrl Room
Cable Gland Type Fed to:	S ▼
No. of Runs	1 ▼
Cable Size in mm2	3C*1.5 ▼
Cable Length in M	4

3rd Control Cable Data

Designation	111111
Fed from Eqp. No.	
Description of Eqp. Fed from:	
Cable Gland Type Fed from:	S ▼

- -

Fed to Eqp. No.	
Description of Eqp. Fed to:	FEA in Ctrl Room
Cable Gland Type Fed to:	S ▼
No. of Runs	1 ▼
Cable Size in mm2	4C*1.5 ▼
Cable Length in M	5

Power / Contol Cable Entry Data (ET)

|			
Size of 1st Power Cable Entry in Inch	1 1/4 ▼	Quantity of 1st Control Cable Entry	1 ▼
Quantity of 1st Power Cable Entry	2 ▼	Size of 2nd Control Cable Entry in Inch	3/4 ▼
Size of 2nd Power Cable Entry in Inch	3/4 ▼	Quantity of 2nd Control Cable Entry	1 ▼
Quantity of 2nd Power Cable Entry	1 ▼	Size of 3rd Control Cable Entry in Inch	3/4 ▼
Size of 1st Control Cable Entry in Inch	1 ▼	Quantity of 3rd Control Cable Entry	1 ▼

EXIT

▶ **Now Click the EXIT button (3 Times) to leave Edit Option.**
You are back to the Main Menu.
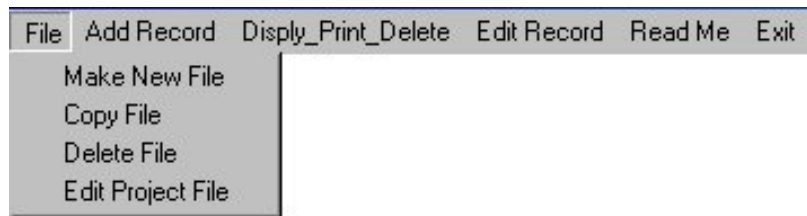
STEP NO. 4 IS OVER.
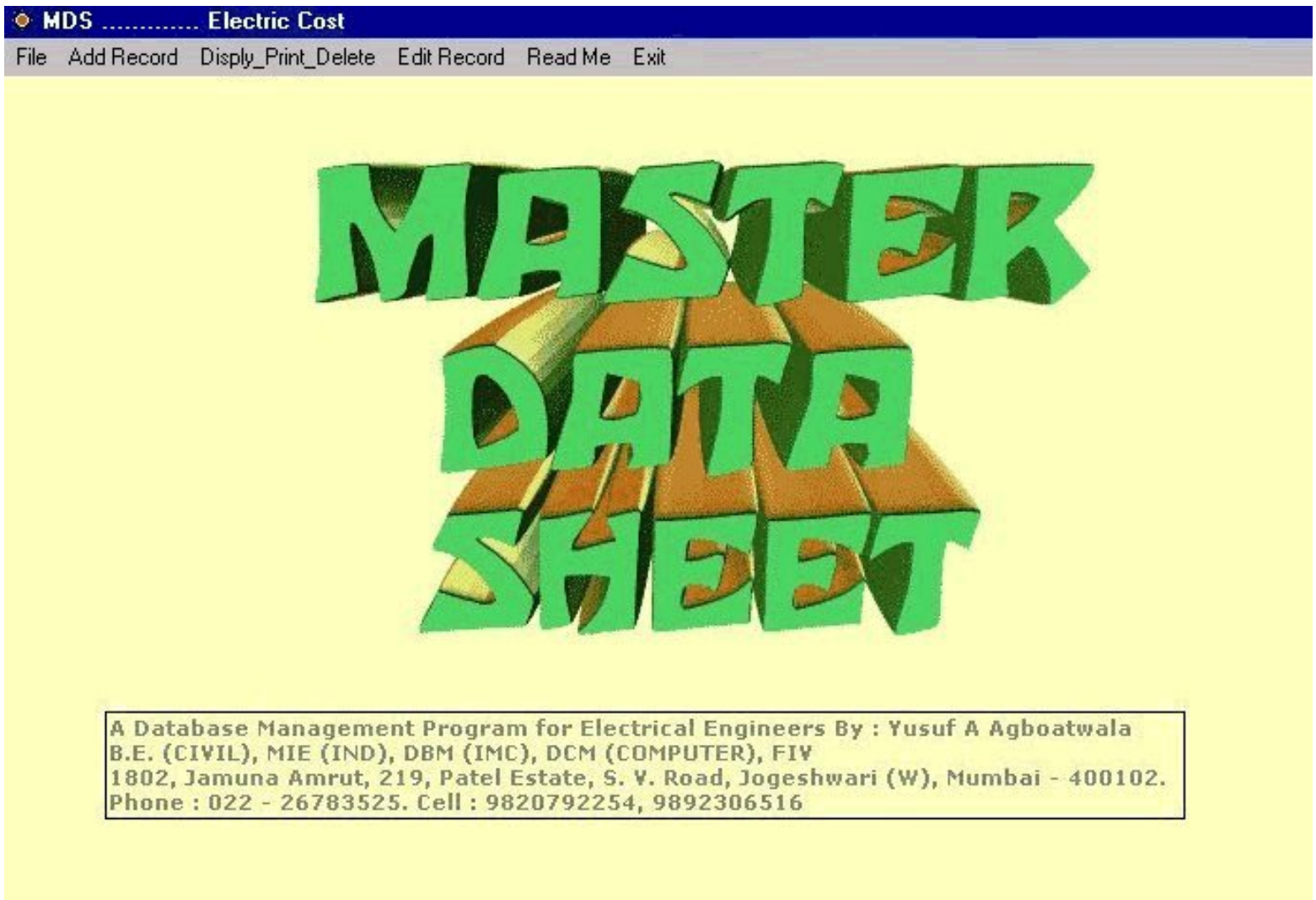
STEP NO. 5

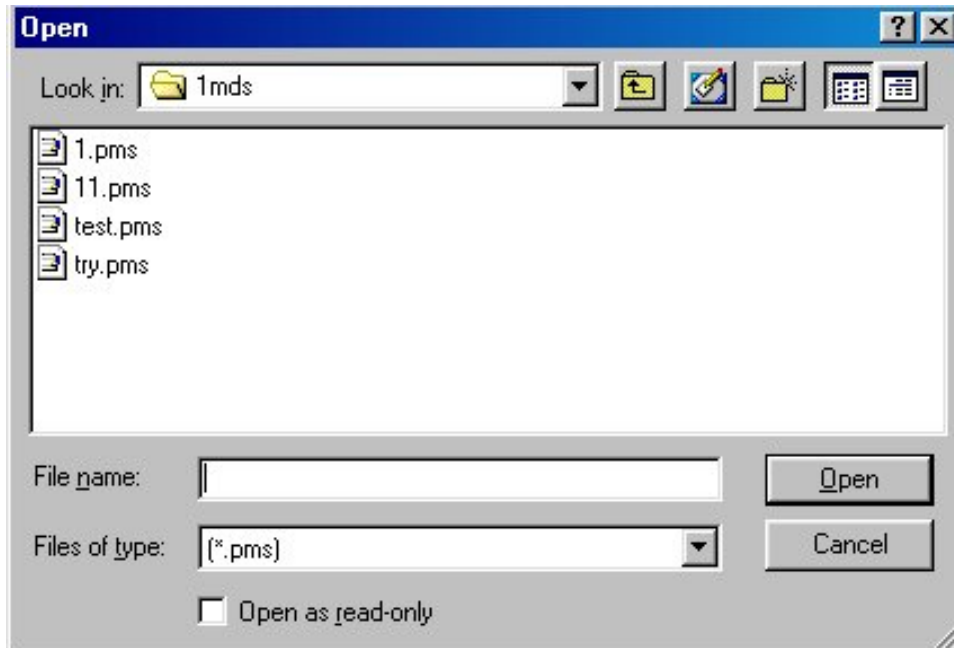> When Program starts, the above graphics is displayed. The Menu bar contains following options.

I. File
II. Add Record
III. Display_Print_Delete
IV. Edit Record
V. Read Me
VI. Exit

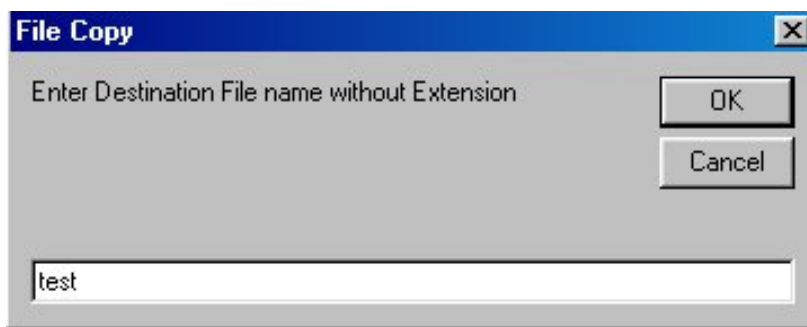**Click the File option in the MENU bar. The following window will open.**

FILE COPY OPTION

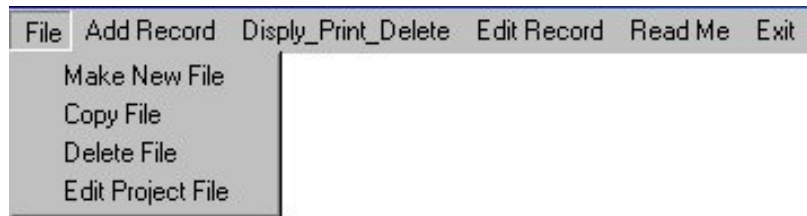▶ **Now click " Copy File " Option. File Open Window will open.**

▶ **Now select File named " 11 ". A new Window will open, asking for the name of copied file.**
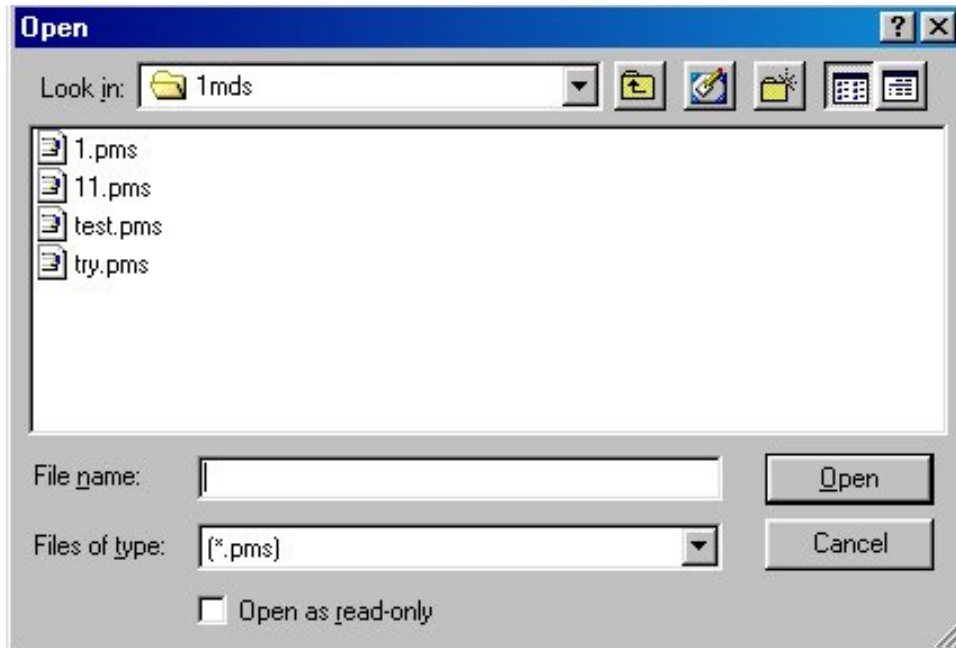

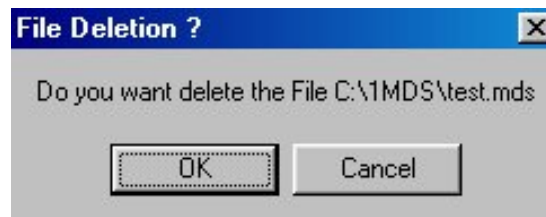▶ **Click " OK " button. Following message will be displayed, indicating File Copying is over.**

FILE DELETE OPTION

▶ **Again from the File Option click " Delete File " Option. File Open Window will be displayed.**
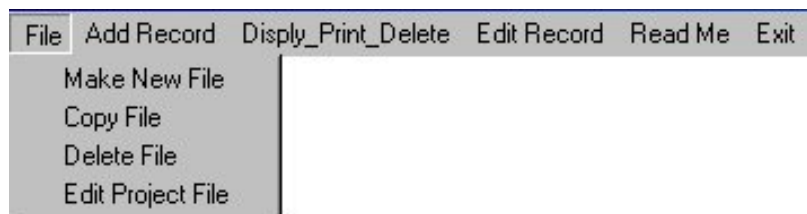

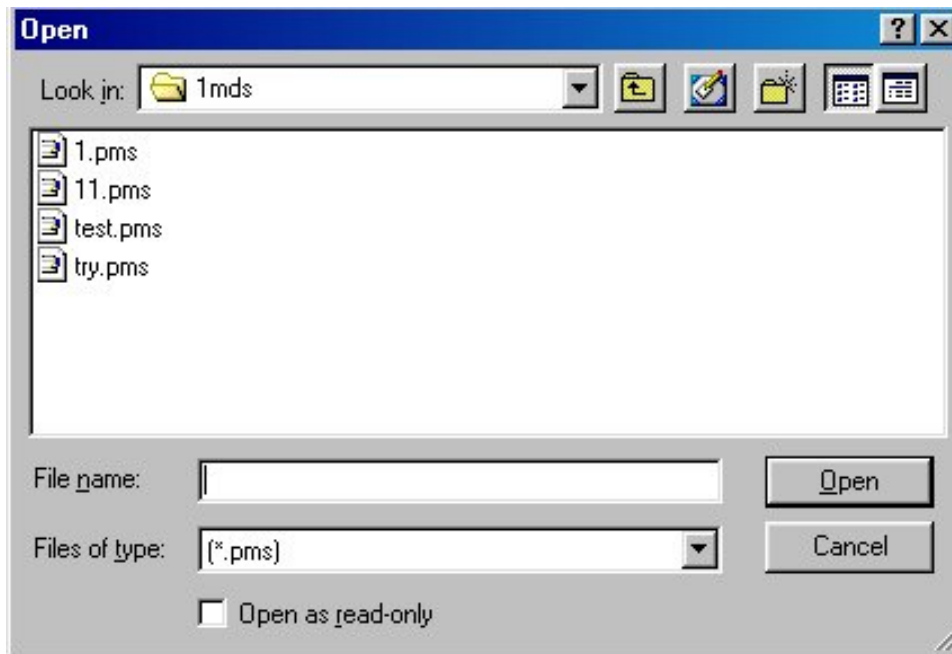▶ **Now select File named " test ". A new Window will open, asking for confirmation.**

▶ **Click " OK " button. The " test " file is deleted. If you press " Cancel ", file will not be deleted.**
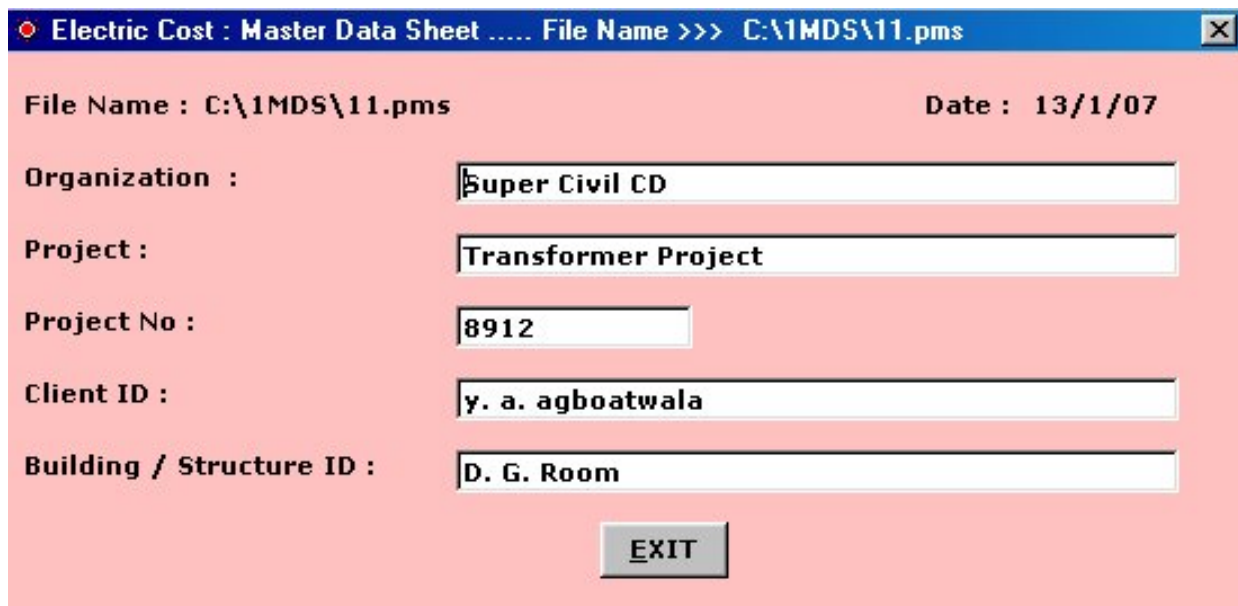
EDIT PROJECT FILE OPTION

▶ **Again from the File Option click " Edit Project File " Option. File Open Window will be displayed.**

▶ **Now select File named " 11 ". A new Window will open, displaying project file parameters for editing.**

▶ **Click " EXIT " button after editing values.**

STEP NO. 5 IS OVER.

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