

LEARN QTY

A Software for Quantity, Cost
Estimation & Project Control

By :

Y.A. Agboatwala &

Fatima.Y. Agboatwala

1802, Jamuna Amrut,

219, Patel Estate, S.V.Road,

Jogeshwari(W), Mumbai - 400102

Phone: 09820792254 , (022) 26783525

Url: www.supercivilcd.com,













<http://www.agboatwala.com>

Email : yaa@supercivilcd.com,

yaa@agboatwala.com,

supercivilcd@gmail.com

LEARN QTY

Create New File	 <u>STEP NO. 1</u>
Edit Items	 <u>STEP NO. 2</u>
Add Record	 <u>STEP NO. 3</u>
Edit Quantities (Records)	 <u>STEP NO. 4</u>
Edit Material Coefficients	 <u>STEP NO. 5</u>
Edit Labour Coefficients	 <u>STEP NO. 6</u>
Summary (Display Results)	 <u>STEP NO. 7</u>
Display Pie / Bar Charts	 <u>STEP NO. 8</u>
Specifications	 <u>STEP NO. 9</u>
Typical Forms/Formats	 <u>STEP NO. 10</u>
Copy, Delete, Edit & Export to Excel.	 <u>STEP NO. 11</u>
Monthly Cash Flow, Material, men, Consumption & S Curve.	 <u>STEP NO. 12</u>

IMPORTANT NOTE:

1. A USER SHOULD ALWAYS ENTER THE RATES OF ITEMS FOR WHICH HE HAS ADDED QUANTITIES. SINCE $COST = RATE \times QTY$, IF EITHER ONE OF THEM IS NOT GIVEN, THEN ZERO COST WILL BE INDICATED. (STEP NO. 2, 3 & 4)

2. DO NOT EDIT MATERIAL OR LABOUR COEFFICIENTS UNLESS YOU HAVE SOME VALID REASONS TO DO SO. (STEP NO. 5 & 6)

3. THE MATERIAL COEFFICIENTS ARE USED FOR CALCULATION OF TOTAL CEMENT, SAND, AGGREGATE & BRICK QUANTITIES ONLY.

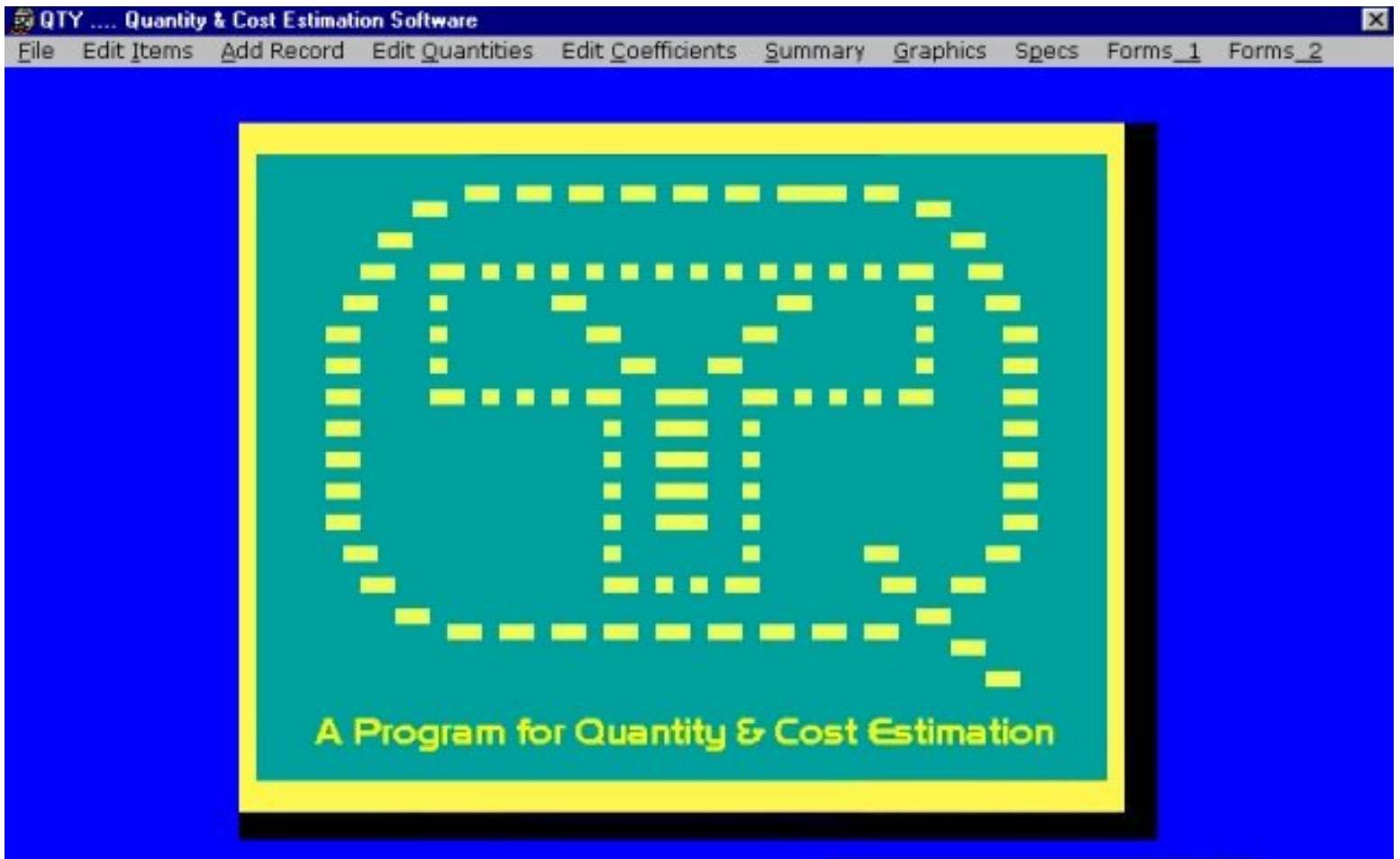
THE LABOUR COEFFICIENTS ARE USED FOR CALCULATION OF TOTAL MASON, CARPENTER, SKILLED LABOUR, UNSKILLED LABOUR & FOREMAN QUANTITIES.

4. THE ABOVE COEFFICIENTS ARE ALSO USED IN CALCULATION OF MONTHLY MATERIAL, LABOUR & CASH FLOW REQUIREMENTS AFTER USER HAS PREPARED THE PROJECT BAR CHART.

5. FOR RATE ANALYSIS OF VARIOUS ITEMS, OUR " [SUPER RATE ANALYSIS](#) " SOFTWARE COULD BE USED.

LEARN QTY STEP BY STEP

STEP NO. 1



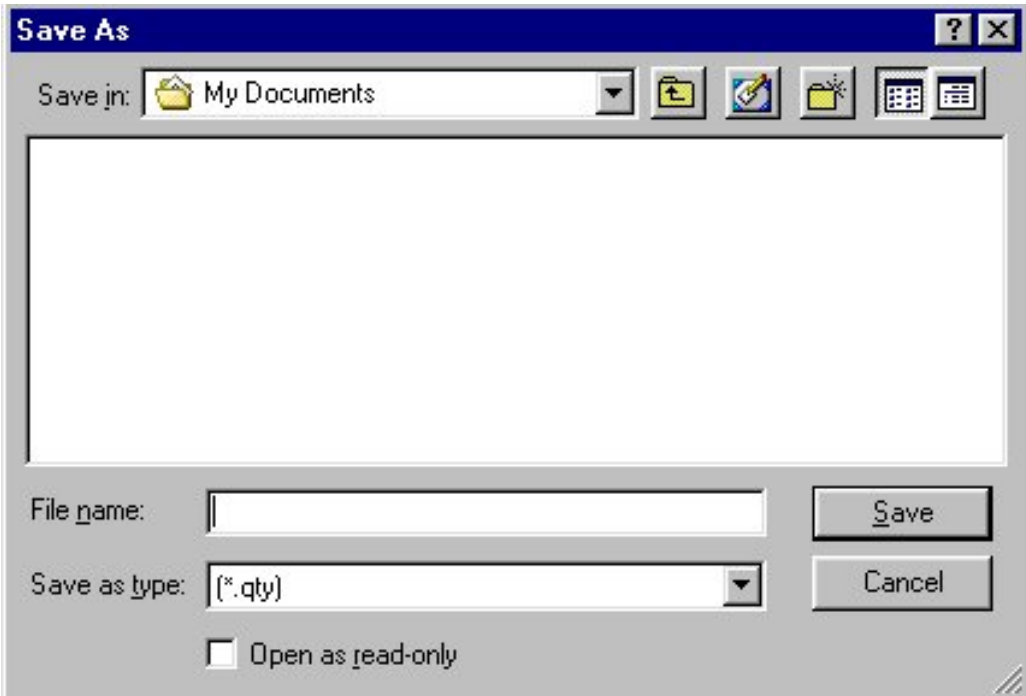
▶ Refer the graphics above. The Menu bar contains following options.

- I. File
- II. Edit Items
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- IX. Forms_1
- X. Forms_2

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 1q in C drive to store my QTY files. Now go to this folder & give a file name to your project. I have given "QTY" as the name of my new project file. Click the save button.

(Note: QTY is a project file, it has got no connection with QTY software.)

You will see in above window that I had created earlier q1 & q2 as my previous two projects.

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

Project File : Add Project Details [X]

File Name : C:\1q\QTY.qty Date : 8/8/05

Organization :

Project :

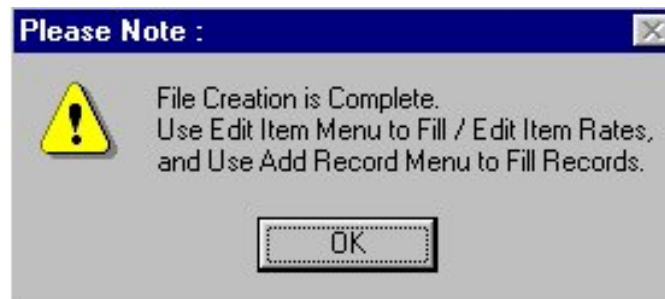
Project No :

Client ID :

Building / Structure ID :

Project Duration in Months :	<input type="text" value="24"/>	Project Over Head in %	<input type="text" value="10"/>
Taxes in %	<input type="text" value="5"/>	Profit Margin in %	<input type="text" value="10"/>
Rate per Cement Bag	<input type="text" value="200"/>	Rate per M3 of Sand	<input type="text" value="600"/>
Rate per M3 of Aggregates	<input type="text" value="600"/>	Rate per Brick	<input type="text" value="1.0"/>
Mason Wage/day	<input type="text" value="250"/>	Carpenter Wage / day	<input type="text" value="250"/>
Skill labour Wage / day	<input type="text" value="250"/>	Un Skilled Labour Wage	<input type="text" value="180"/>
Foreman Cost / day	<input type="text" value="350"/>	Mobilization Advance in %	<input type="text" value="10"/>
Recovery of Advance in %	<input type="text" value="10"/>	Security Deposit in %	<input type="text" value="10"/>

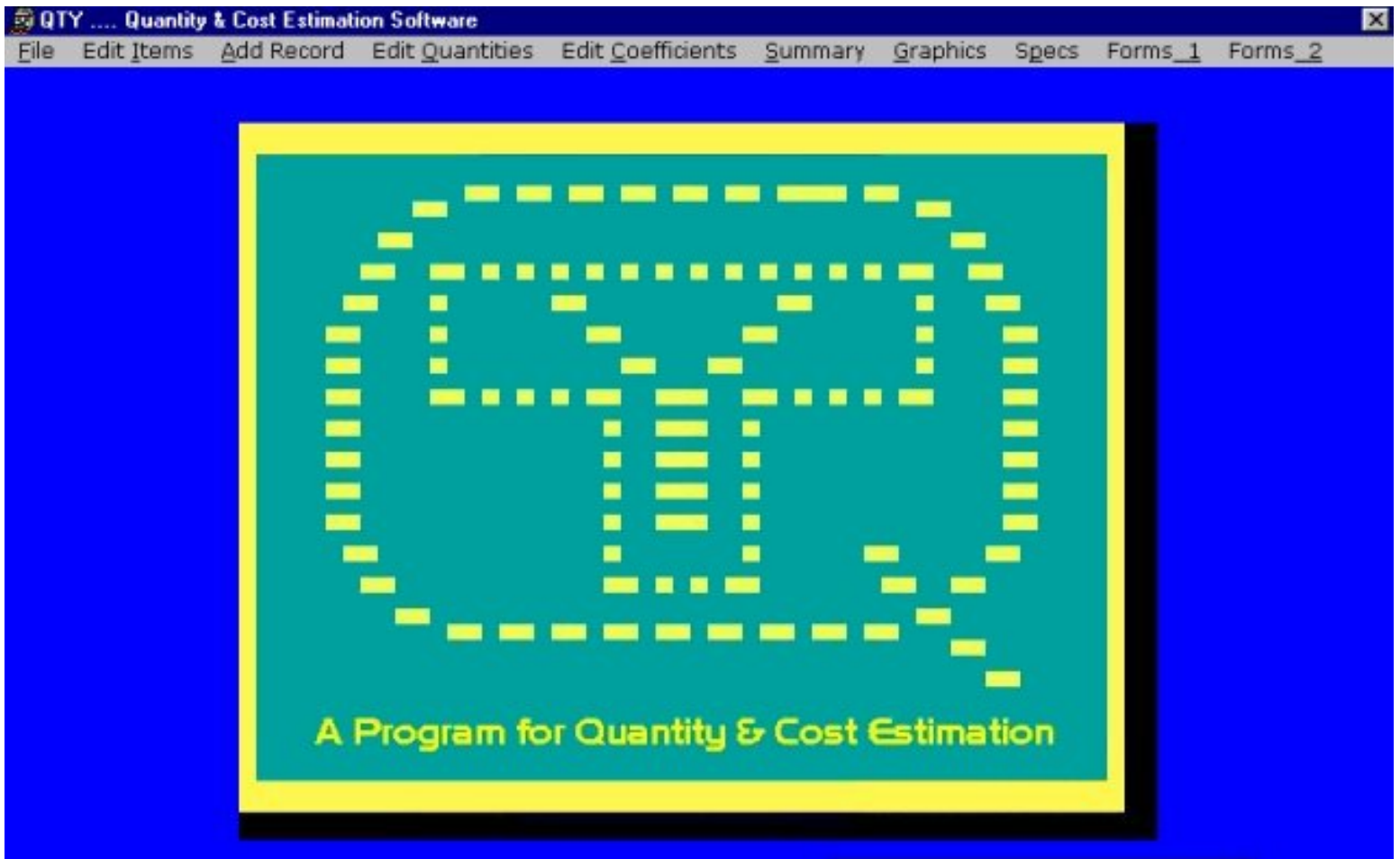
- ▶ The window requires various project details. Whatever values you will fill here will serve as default values for the project. I have filled up the above values as required by my new project QTY. You can change these values now OR later by clicking "Edit Project File" option in File Menu. Now click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



- ▶ Click OK button. Now project File creation is complete. The above window gives the following two vital information.
 1. Use Edit Item Menu to Fill Rates of various Items &
 2. Use Add Record Menu to add Quantities of various Items.

LEARN QTY STEP BY STEP

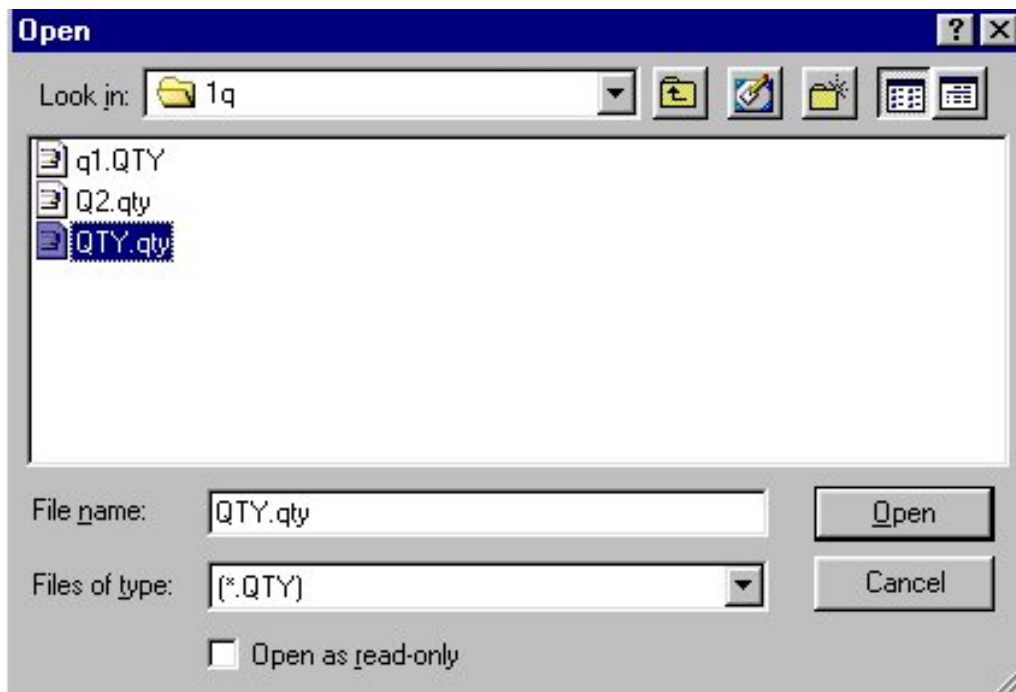
STEP NO. 2



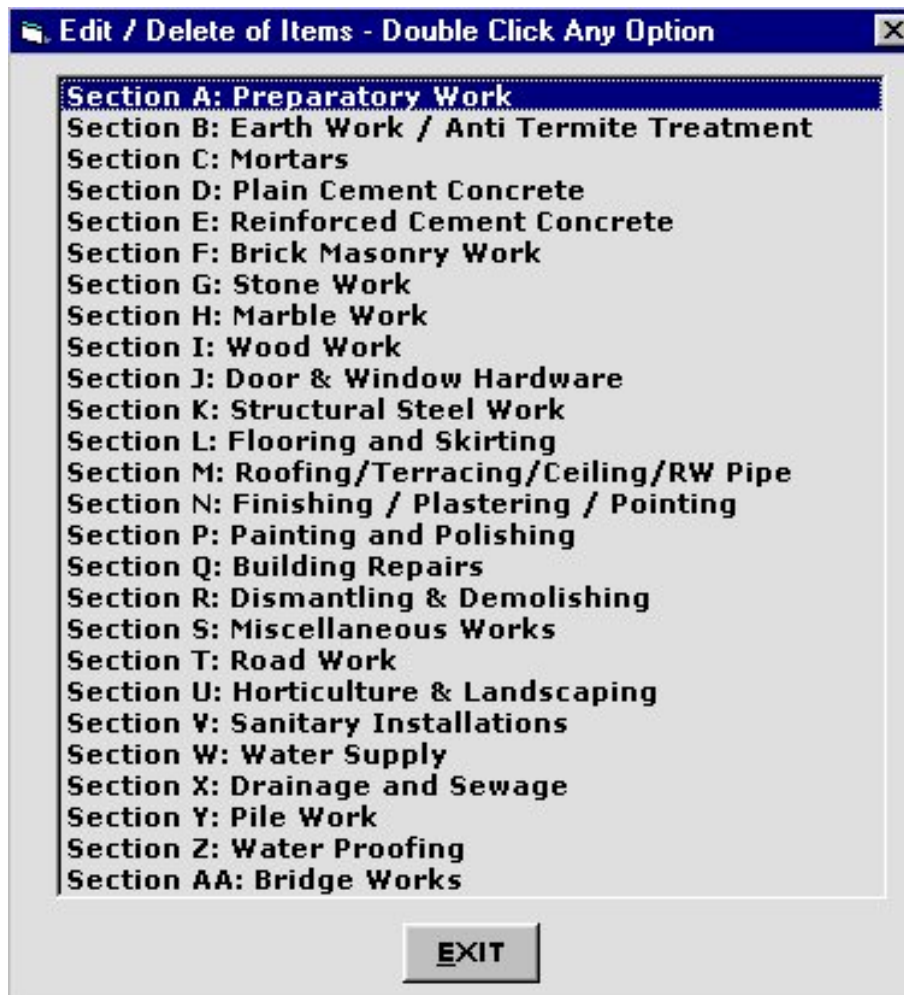
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- X. Forms_2

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



- ▶ Now click QTY file & click open. A new window with all Sections will appear as follows. The heading is Edit / Delete Items - Double Click any option. This we will call Item Menu.



▶ Now double click " Section A: Preparatory Work ".
 A new window will appear as follows. This is main window which can perform the following functions.

- Display all items.
- Print all items.
- Add your own items.
- Delete any existing item.
- Add Material, Labour, Subcontractor & Equipment Rates.
- One more field called " Item_ID " is given, in case you want to identify items apart from the existing Item No.

You can select any item from A1 to A22 by taking the Blue cursor to that item row or just clicking with the mouse on any item row.

DISPLAY/EDIT/DELETION/ADDITION OF ITEMS

Project No : 4305

Section A: Preparatory Work

Date : 8/8/05

Item_ID	Item No.	Item	Unit	Material R...	Labour Rate	Subcontra...	Equipment
	A1	CLEARING OF JUNGLE	M2				
	A2	CLEARING GRASS	M2				
	A3	FELLING TREES AVERAGE GIRTH 45 CMS	Nos				
	A4	FELLING TREES AVERAGE GIRTH 90 CMS	Nos				
	A5	FELLING TREES AVERAGE GIRTH 180 CMS	Nos				
	A6	FELLING TREES AVERAGE GIRTH 300 CMS	Nos				
	A7	SURFACE DRESSING : SOFT / LOOSE SOIL	M2				
	A8	SURFACE DRESSING : HARD / DENSE SOIL	M2				
	A9	BORING UP TO 6.0 M DEPTH	M				
	A10	BORING 6.0 M < DEPTH < 12.0 M	M				
	A11	BORING 12.0 M < DEPTH < 18.0 M	M				
	A12	PROVIDING AND PLACING FILTER	M				
	A13	G. I. PIPE FOR TUBEWELL	M				
	A14	PROVIDING AND PLACING HAND PUMP	Nos				
	A15	PLOUGHING EXISTING GROUND	M2				
	A16	HOLE EXCAVATION IN ALL TYPES OF SOIL	Nos				
	A17	HOLE EXCAVATION IN SOFT ROCK WITH ...	Nos				
	A18	HOLE EXCAVATION IN SOFT ROCK WITH...	Nos				
	A19	HOLE EXCAVATION IN HARD ROCK WITH ...	Nos				
	A20	HOLE EXCAVATION IN HARD ROCK WITH...	Nos				
	A21	SUPPLY AND ERECTION OF WATER TANK	Litre				
	A22	TEMPORARY FENCE CONSTRUCTION	M				

Edit Item No. A1

Item :	<input type="text" value="CLEARING OF JUNGLE"/>	Unit :	<input type="text" value="M2"/>	Material Rate :	<input type="text"/>	Labour Rate :	<input type="text"/>
Item ID :	<input type="text"/>	Subcontractor :	<input type="text"/>	Equipment :	<input type="text"/>		

Item Rate :

- ▶ We will select item A1.
Enter Labour Rate = 3.0
Material Rate = 0.0 or leave it as it is.
Subcontractor Rate = 0.0 or leave it as it is.
Equipment Rate = 0.0 or leave it as it is.

Now Click UPDATE button.

You will see that Item Rate (With Pink background) will change to 3.75.
Final window will look like as follows.

DISPLAY/EDIT/DELETION/ADDITION OF ITEMS

Project No : 4305

Section A: Preparatory Work

Date : 8/8/05

Item_ID	Item No.	Item	Unit	Material R...	Labour Rate	Subcontra...	Equipment
	A1	CLEARING OF JUNGLE	M2		3		
	A2	CLEARING GRASS	M2				
	A3	FELLING TREES AVERAGE GIRTH 45 CMS	Nos				
	A4	FELLING TREES AVERAGE GIRTH 90 CMS	Nos				
	A5	FELLING TREES AVERAGE GIRTH 180 CMS	Nos				
	A6	FELLING TREES AVERAGE GIRTH 300 CMS	Nos				
	A7	SURFACE DRESSING : SOFT / LOOSE SOIL	M2				
	A8	SURFACE DRESSING : HARD / DENSE SOIL	M2				
	A9	BORING UP TO 6.0 M DEPTH	M				
	A10	BORING 6.0 M < DEPTH < 12.0 M	M				
	A11	BORING 12.0 M < DEPTH < 18.0 M	M				
	A12	PROVIDING AND PLACING FILTER	M				
	A13	G. I PIPE FOR TUBEWELL	M				
	A14	PROVIDING AND PLACING HAND PUMP	Nos				
	A15	PLOUGHING EXISTING GROUND	M2				
	A16	HOLE EXCAVATION IN ALL TYPES OF SOIL	Nos				
	A17	HOLE EXCAVATION IN SOFT ROCK WITH ...	Nos				
	A18	HOLE EXCAVATION IN SOFT ROCK WITH...	Nos				
	A19	HOLE EXCAVATION IN HARD ROCK WITH ...	Nos				
	A20	HOLE EXCAVATION IN HARD ROCK WITH...	Nos				
	A21	SUPPLY AND ERECTION OF WATER TANK	Litre				
	A22	TEMPORARY FENCE CONSTRUCTION	M				

Edit Item No. A1

Item :	<input type="text" value="CLEARING OF JUNGLE"/>	Unit :	<input type="text" value="M2"/>	Material Rate :	<input type="text"/>	Labour Rate :	<input type="text" value="3"/>
Item ID :	<input type="text"/>	Subcontractor :	<input type="text"/>	Equipment :	<input type="text"/>		

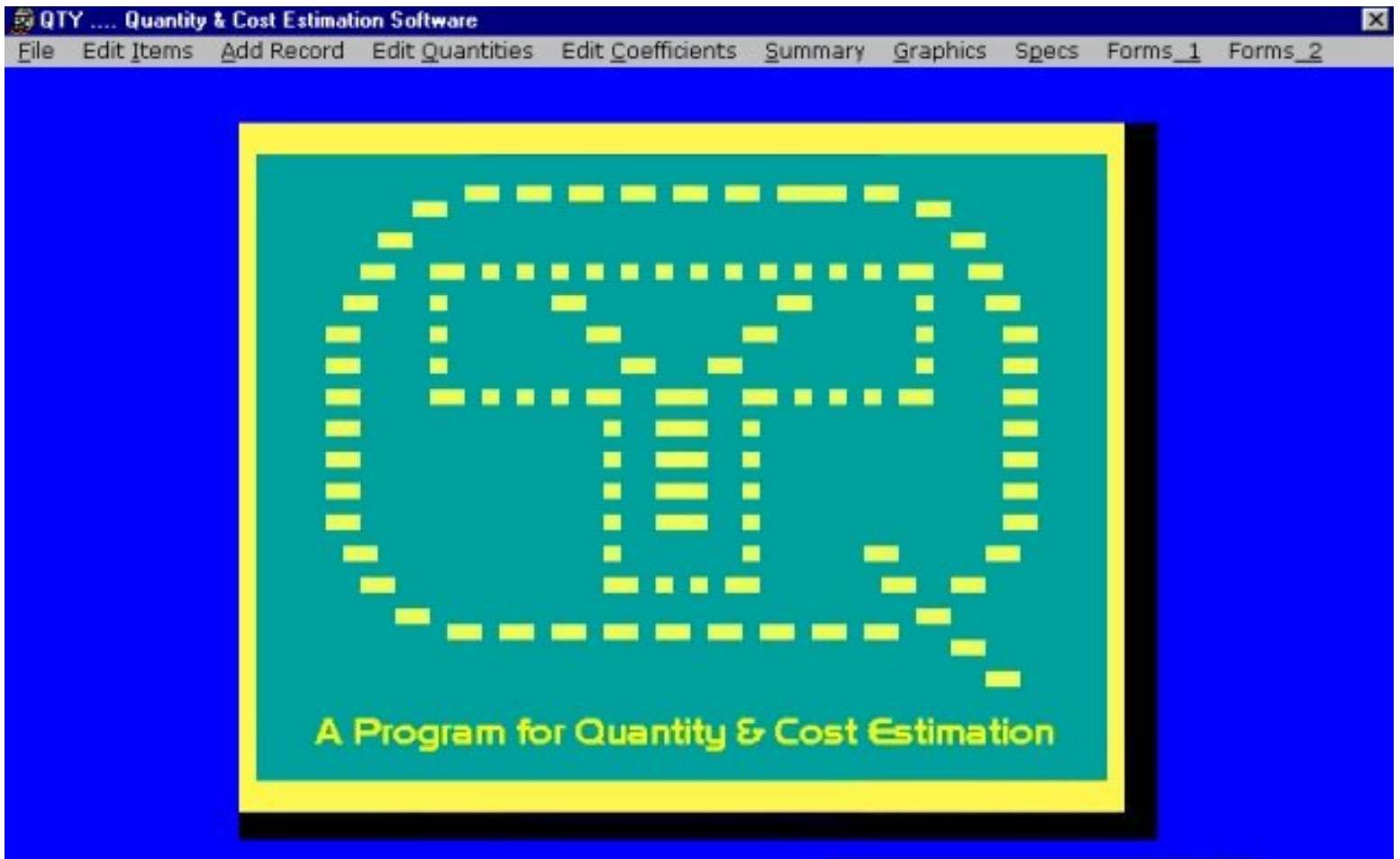
Item Rate :

- ▶ Similarly you can give Rates of more items, which are likely to be used in the project. Always click UPDATE button to see the final rate. This final Item Rate is arrived at after adding Overheads, Taxes & Profit margin.
Now Click the EXIT button to leave this window.
You are back to Item Menu. Here you can select other sections by double clicking any section & add the item rates of various items which you think will be required for your project.

STEP NO. 2 IS OVER.

LEARN QTY STEP BY STEP

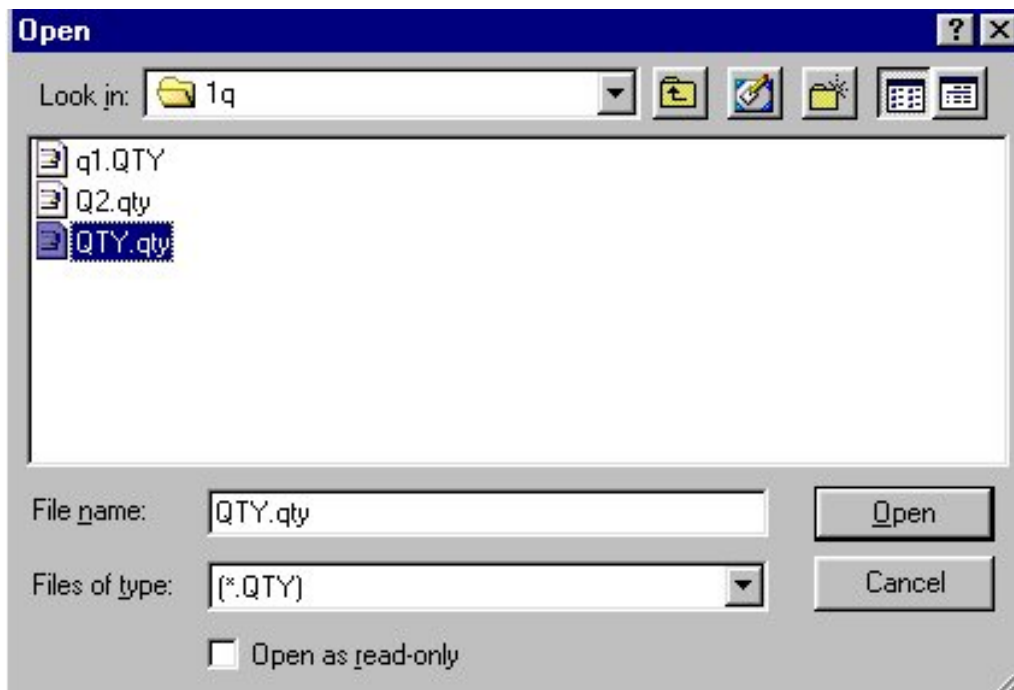
STEP NO. 3



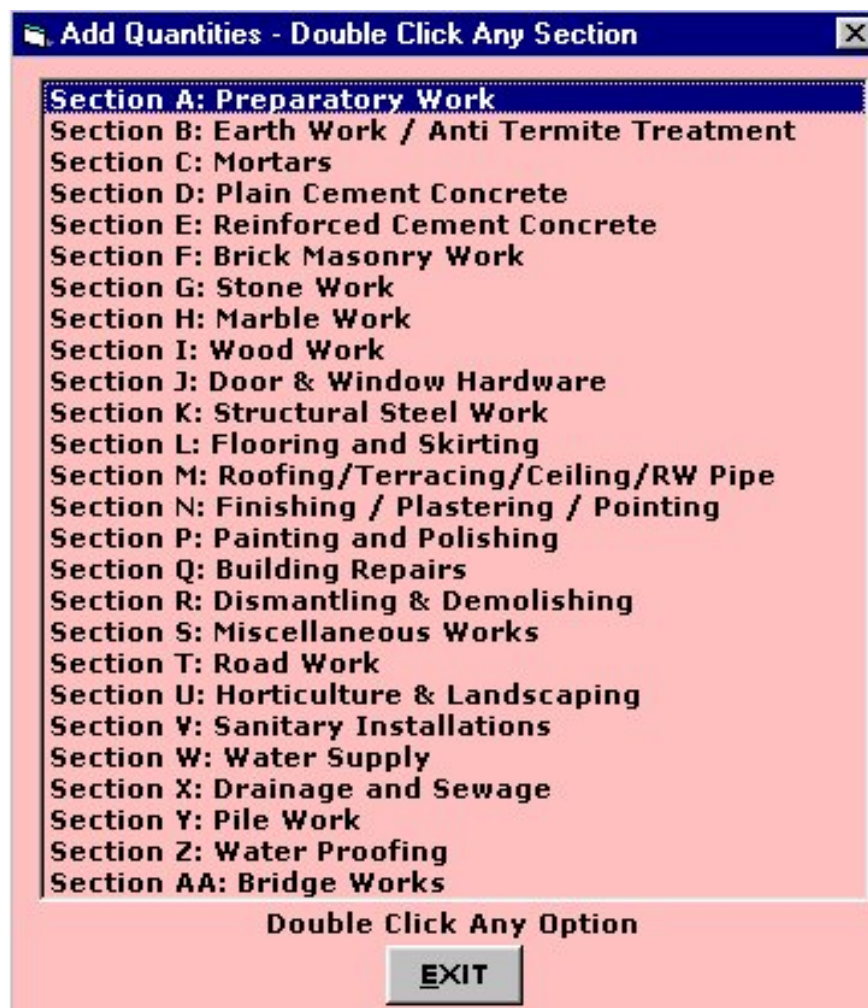
▶ Refer the graphics above. The Menu bar contains following options.

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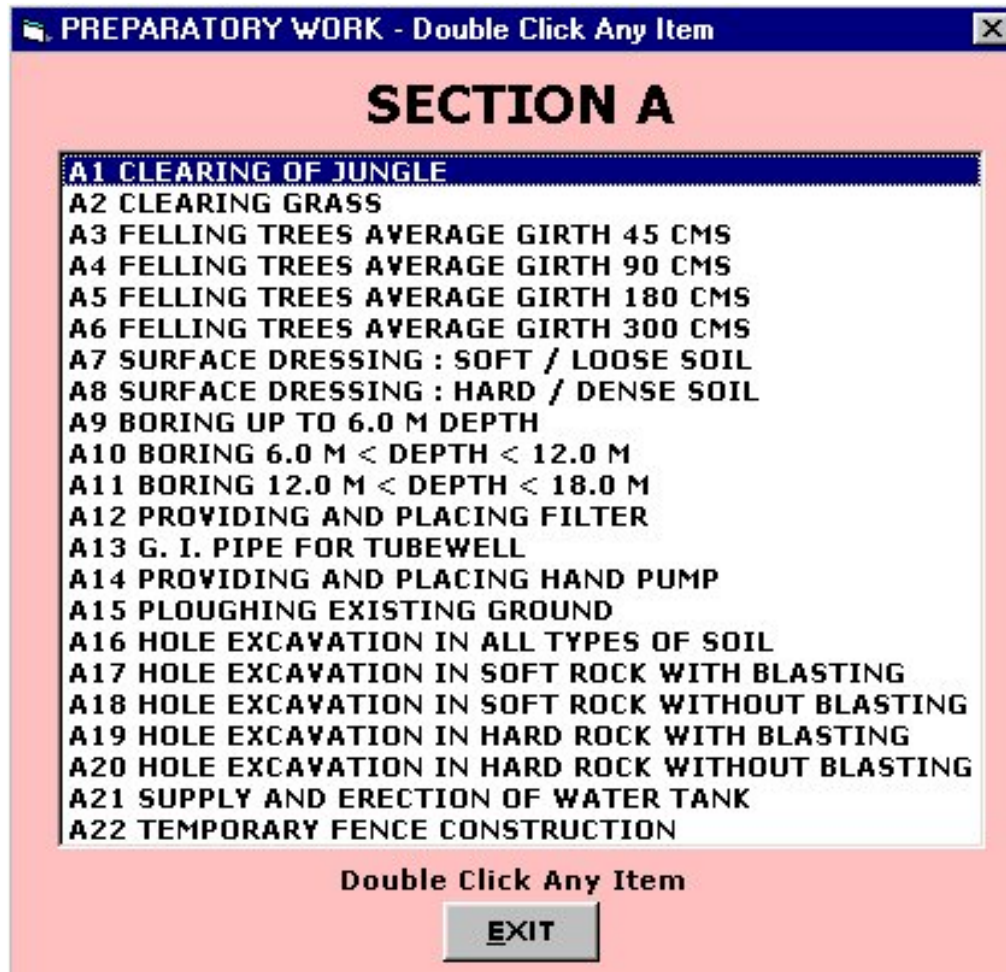
Click the Add Record option in the MENU bar. The following window will open.



- ▶ Now click QTY file & click open. A new window with all Sections will appear as follows. The heading is Add Quantities - Double Click any Section. This we will call Add Menu.



- ▶ Now double click " Section A: Preparatory Work ".
A new window will appear, which will display all the items under section A, as shown in following graphics.



- ▶ Now double click the item " A1 CLEARING OF JUNGLE ".
A new menu will appear with the heading of Add Quantities, as shown below.

Add Quantities [X]

Section A: Preparatory Work

File Name C:\1q\QTY.00A

Record No. 1

Item ID :

Item No. A1

ITEM: CLEARING OF JUNGLE

Item Reference

Length in M

Width in M

Numbers

Quantity in M2

- ▶ Fill the various fields in the above window & click ADD QTY button.
 - If you want to deduct any QTY then give " Numbers " field a negative number.
 - If you want to add another record then press " NEXT " button.
 - Press " EXIT ITEM " button to exit this item.
- Now you will be back to item menu. You can select another item for adding record OR you can exit this menu by pressing " EXIT " button.
- Now you will be back to Add menu. You can select another Section for adding record OR you can exit this menu by pressing " EXIT " button.

Add Quantities [X]

Section A: Preparatory Work

File Name C:\1q\QTY.00A

Record No. 1

Item ID :

Item No. A1

ITEM: CLEARING OF JUNGLE

Item Reference P23

Length in M 30

Width in M 20

Numbers 2

EXIT ITEM **ADD QTY** **NEXT**

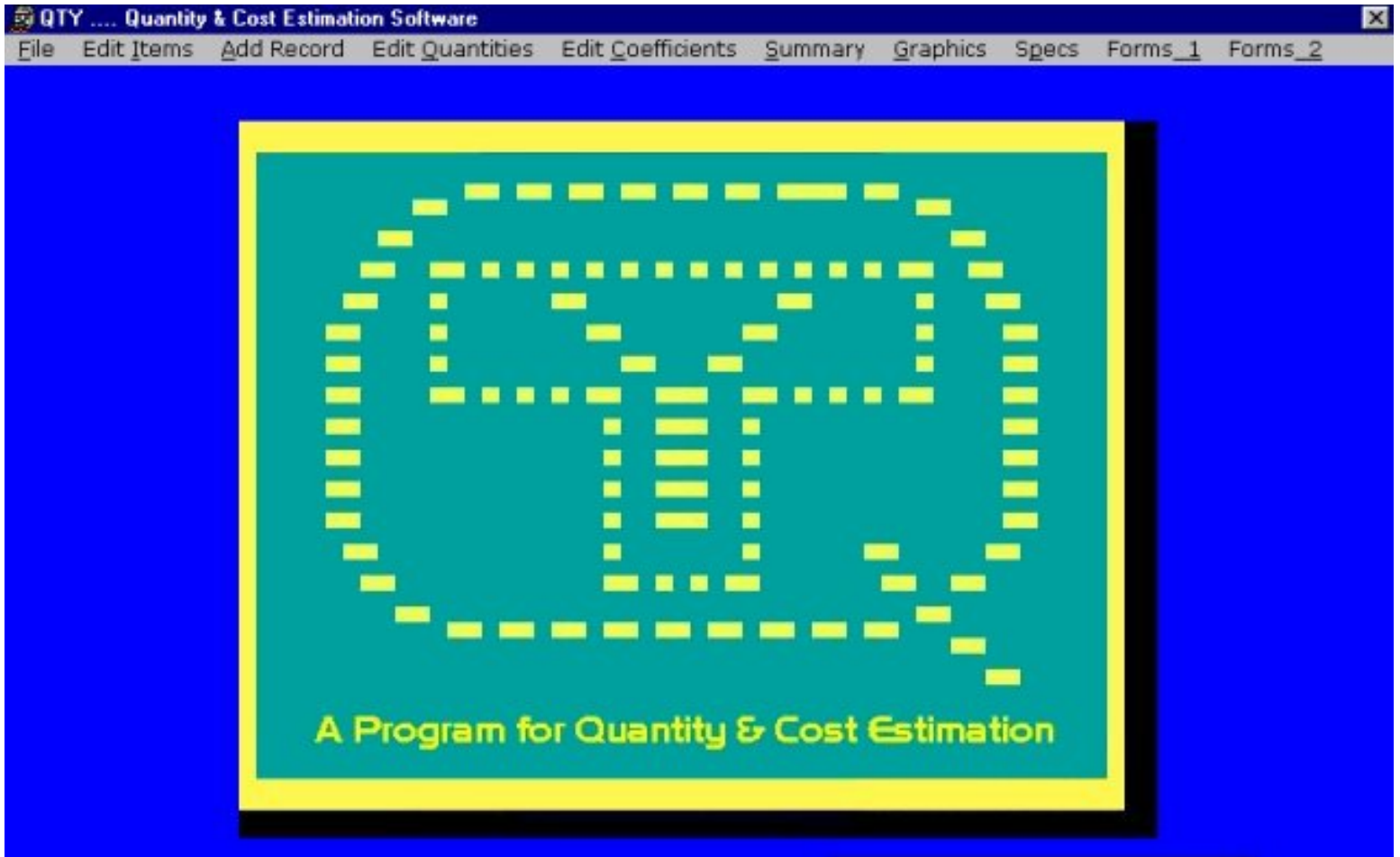
Quantity in M2 1200

▶ I have added various information to various fields. The final window will look like the graphic shown above.

STEP NO. 3 IS OVER.

LEARN QTY STEP BY STEP

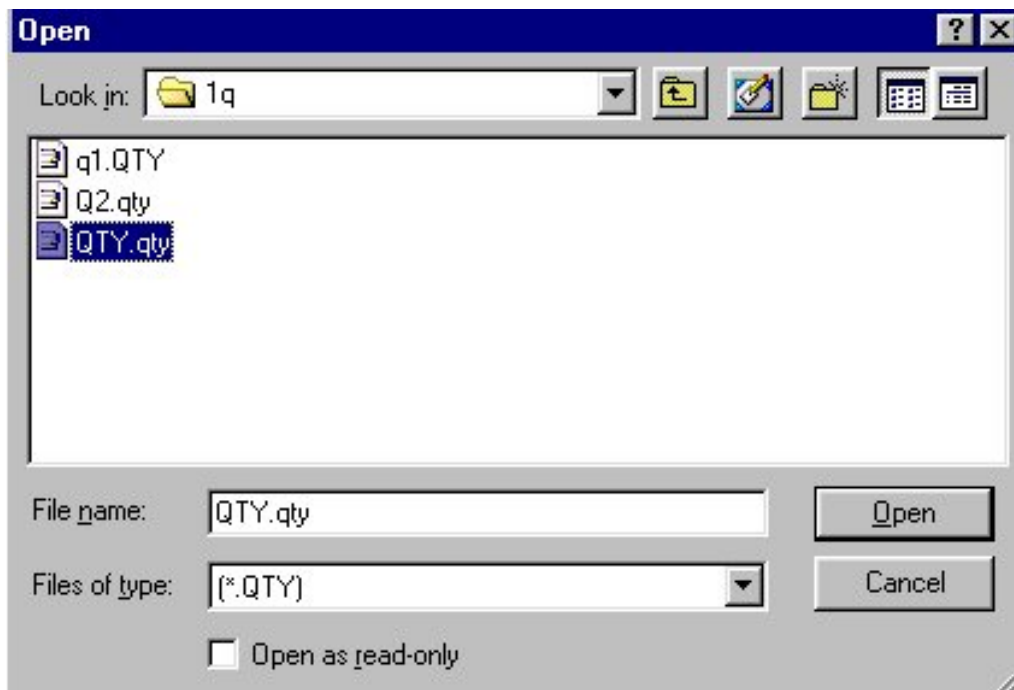
STEP NO. 4



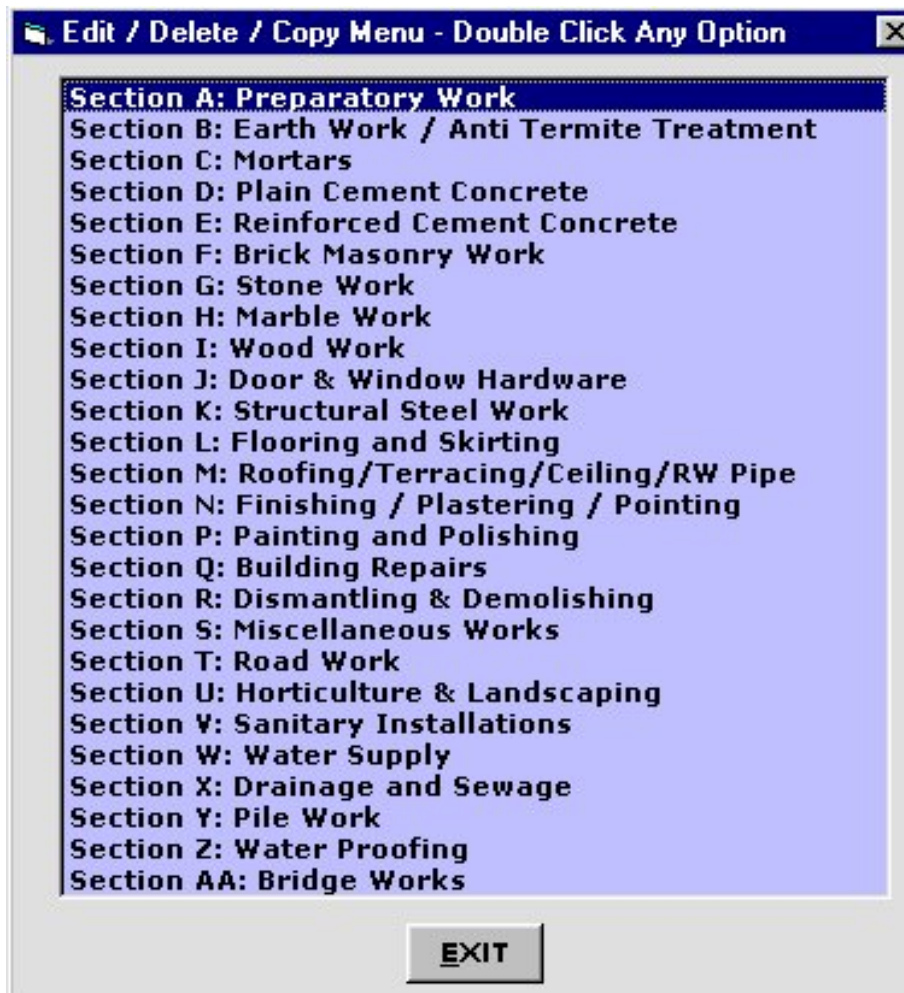
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- X. Forms_2

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



- ▶ Now click QTY file & click open. A new window with all Sections will appear as follows. The heading is Edit / Delete / Copy Menu - Double Click any option.

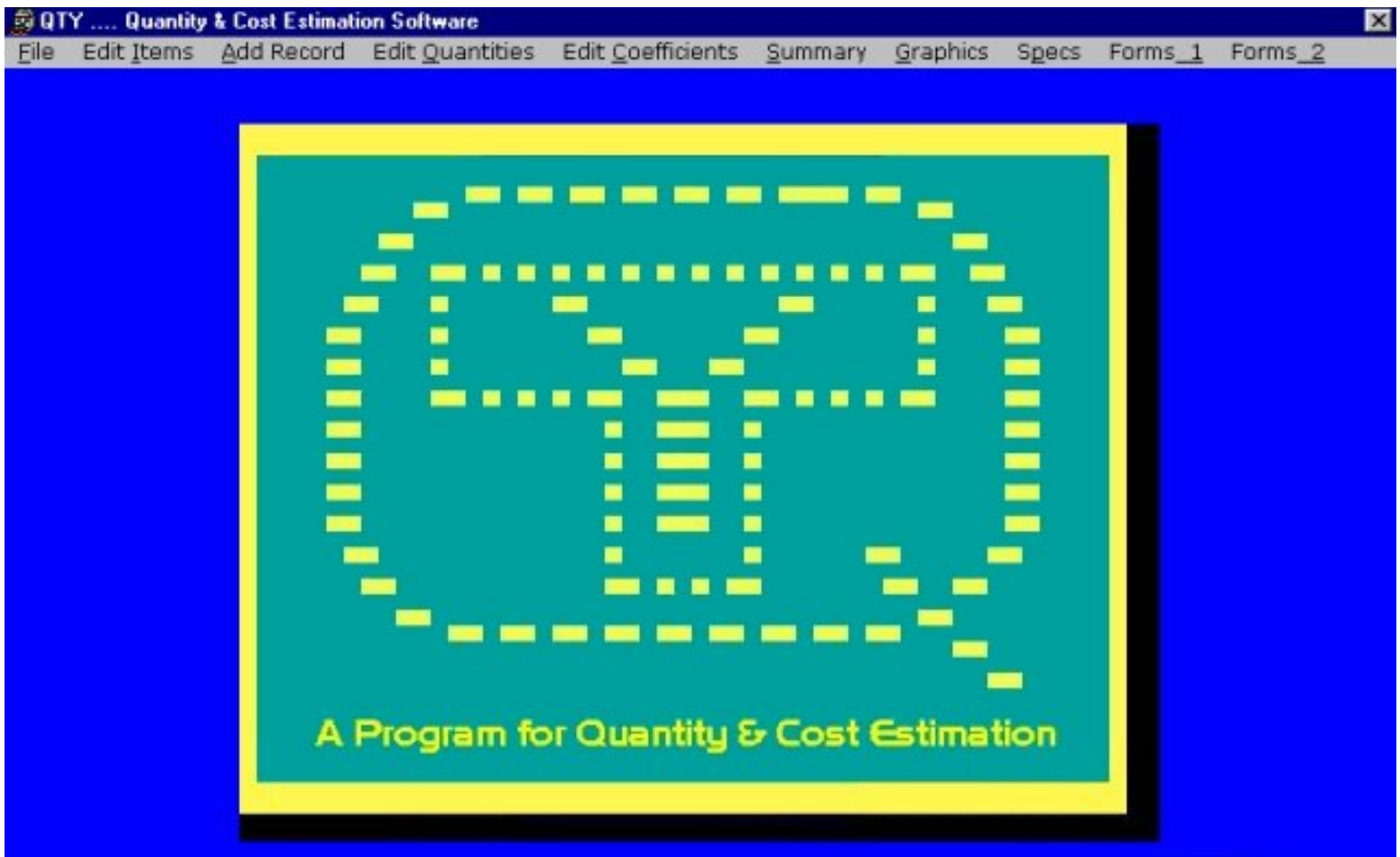


LEARN QTY STEP BY STEP

STEP NO. 5

NOTE: DO NOT EDIT MATERIAL OR LABOUR COEFFICIENTS UNLESS YOU HAVE SOME VALID REASONS TO DO SO.

- ▶ THE MATERIAL COEFFICIENTS ARE USED FOR CALCULATION OF TOTAL CEMENT, SAND, AGGREGATE & BRICK QUANTITIES ONLY.
- ▶ THE LABOUR COEFFICIENTS ARE USED FOR CALCULATION OF TOTAL MASON, CARPENTER, SKILLED LABOUR, UNSKILLED LABOUR & FOREMAN QUANTITIES.
- ▶ THE ABOVE COEFFICIENTS ARE ALSO USED IN CALCULATION OF MONTHLY MATERIAL, LABOUR & CASH FLOW REQUIREMENTS AFTER USER HAS PREPARED THE PROJECT BAR CHART.



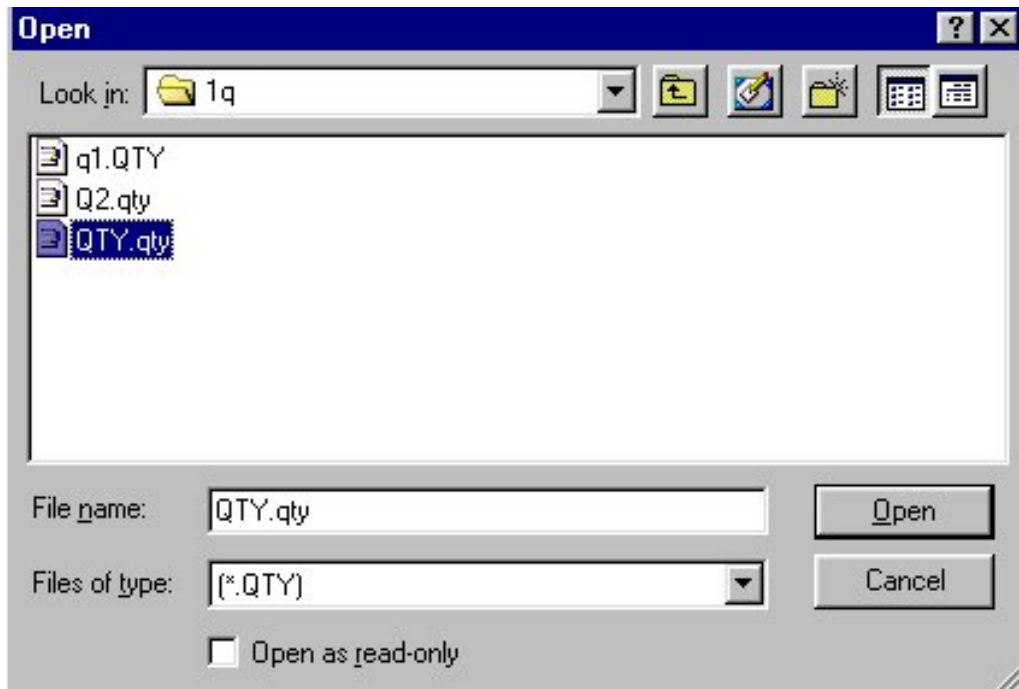
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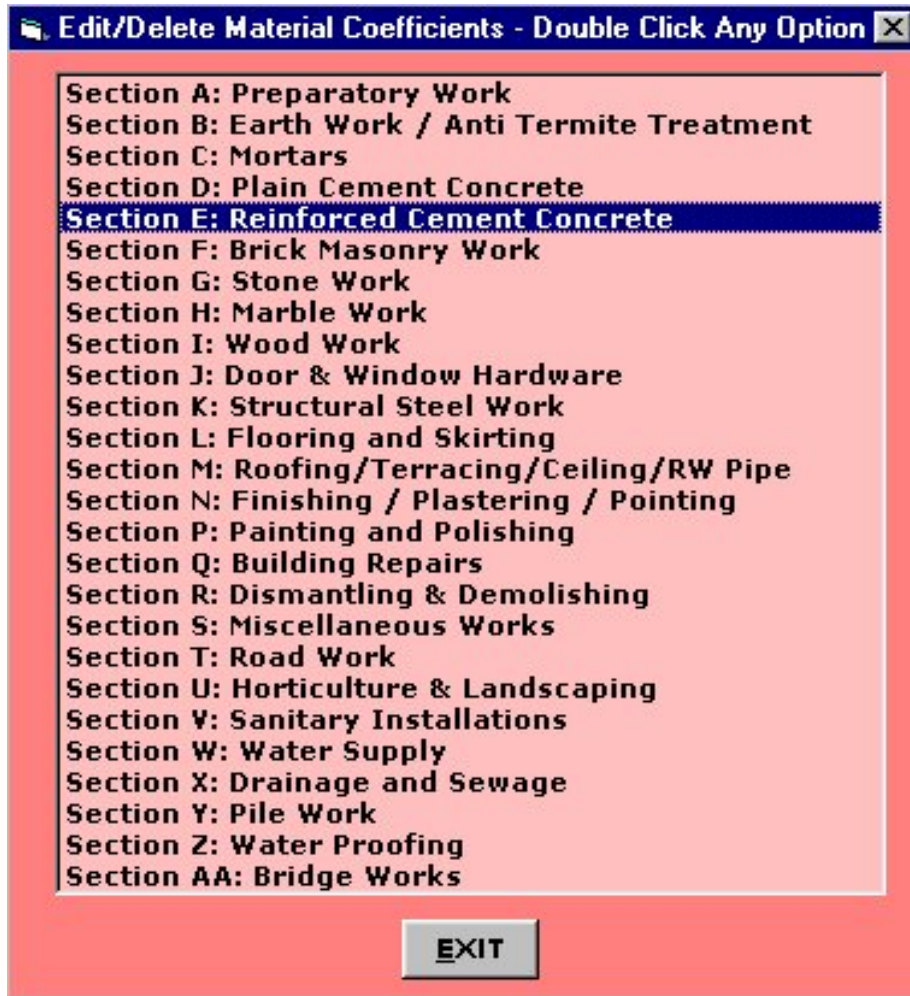
Click the Edit Coefficients option in the MENU bar. Here you will have two options.

- Material Coefficients
- Labour Coefficients

Click the Material Coefficients option. The following window will open.



▶ Now click QTY file & click open. A new window with all Sections will appear as follows. The heading is Edit / Delete Material Coefficients - Double Click any option.



- ▶ Now double click " Section E: Reinforced Cement Concrete ".
A new window will appear as follows, listing Material Coefficients of items having Cement, Sand, Aggregate & Brick Components.

DISPLAY/EDIT OF MATERIAL COEFFICIENTS

Project No : 4305

Section E: Reinforced Cement Concrete

Date : 9/8/05

Item_ID	Item No.	Item	Unit	Cement	Sand	Aggreg...	Brick
E1		RCC 1 : 1 : 2 UP TO PLINTH LEVEL	M3	12.2	0.45	0.45	
E2		RCC 1 : 1.5 : 3 UP TO PLINTH LEVEL	M3	8.0	0.441	0.882	
E3		RCC 1 : 2 : 4 UP TO PLINTH LEVEL	M3	6.4	0.47	0.94	
E4		RCC WALLS IN SUPER STRUCTURE 1 : 1 : 2	M3	12.2	0.45	0.90	
E5		RCC WALLS IN SUPER STRUCTURE 1 : 1....	M3	8.0	0.441	0.882	
E6		RCC WALLS IN SUPER STRUCTURE 1 : 2 : 4	M3	6.4	0.47	0.94	
E7		RCC COLUMNS IN SUPER STRUCTURE 1 : ...	M3	12.2	0.45	0.90	
E8		RCC COLUMNS IN SUPER STRUCTURE 1 : ...	M3	8.0	0.441	0.882	
E9		RCC COLUMNS IN SUPER STRUCTURE 1 : ...	M3	6.4	0.47	0.94	
E10		RCC SLABS IN SUPER STRUCTURE 1 : 2 : 4	M3	6.4	0.47	0.94	
E11		RCC SLABS IN SUPER STRUCTURE 1 : 1.5...	M3	8.0	0.441	0.882	
E12		RCC SLABS IN SUPER STRUCTURE 1 : 1 : 2	M3	12.2	0.45	0.90	
E13		RCC BEAMS IN SUPER STRUCTURE 1 : 2 : 4	M3	6.4	0.47	0.94	
E14		RCC BEAMS IN SUPER STRUCTURE 1 : 1....	M3	8.0	0.441	0.882	
E15		RCC BEAMS IN SUPER STRUCTURE 1 : 1 : 2	M3	12.2	0.45	0.90	
E16		RCC ARCH IN SUPER STRUCTURE 1 : 2 : 4	M3	6.4	0.47	0.94	
E17		RCC ARCH IN SUPER STRUCTURE 1 : 1.5 : 3	M3	8.0	0.441	0.882	
E18		RCC DOMES / FOLDED PLATES IN SUPER ...	M3	6.53	0.48	0.96	
E19		RCC DOMES / FOLDED PLATES IN SUPER ...	M3	8.16	0.45	0.90	
E20		RCC SHAFTS IN SUPER STRUCTURE 1 : 2 ...	M3	6.53	0.48	0.96	
E21		RCC SHAFTS IN SUPER STRUCTURE 1 : 1....	M3	8.16	0.45	0.90	
E22		RCC SHAFTS IN SUPER STRUCTURE 1 : 2 ...	M3	6.53	0.48	0.96	
E23		RCC SHAFTS IN SUPER STRUCTURE 1 : 1....	M3	8.16	0.45	0.90	
E24		RCC WORK IN WELL-STEINING 1 : 2 : 4	M3	6.53	0.48	0.96	
E25		RCC WORK IN WELL-STEINING 1 : 1.5 : 3	M3	8.16	0.45	0.90	

EXIT

UPDATE

PRINT

Edit Material Coefficients E1

Cement Bag : Sand/Unit : Aggregate/Unit : Brick - Nos :

- ▶ The above window can perform the following functions.
 - By Clicking " PRINT " button, all the records will be printed.
 - The most important option available here is Editing. At the base of window there is a heading in RED which says " Edit Material Coefficients E1 ". Just change the various fields (Values in the text boxes) & it will get reflected in the selected ROW above.
 - Click " UPDATE " button to refresh changes.
- ▶ Now Click the EXIT button to leave this window. You are back to Section Menu. Similarly you can Edit materials Coefficients of other sections by double clicking the required selected section.

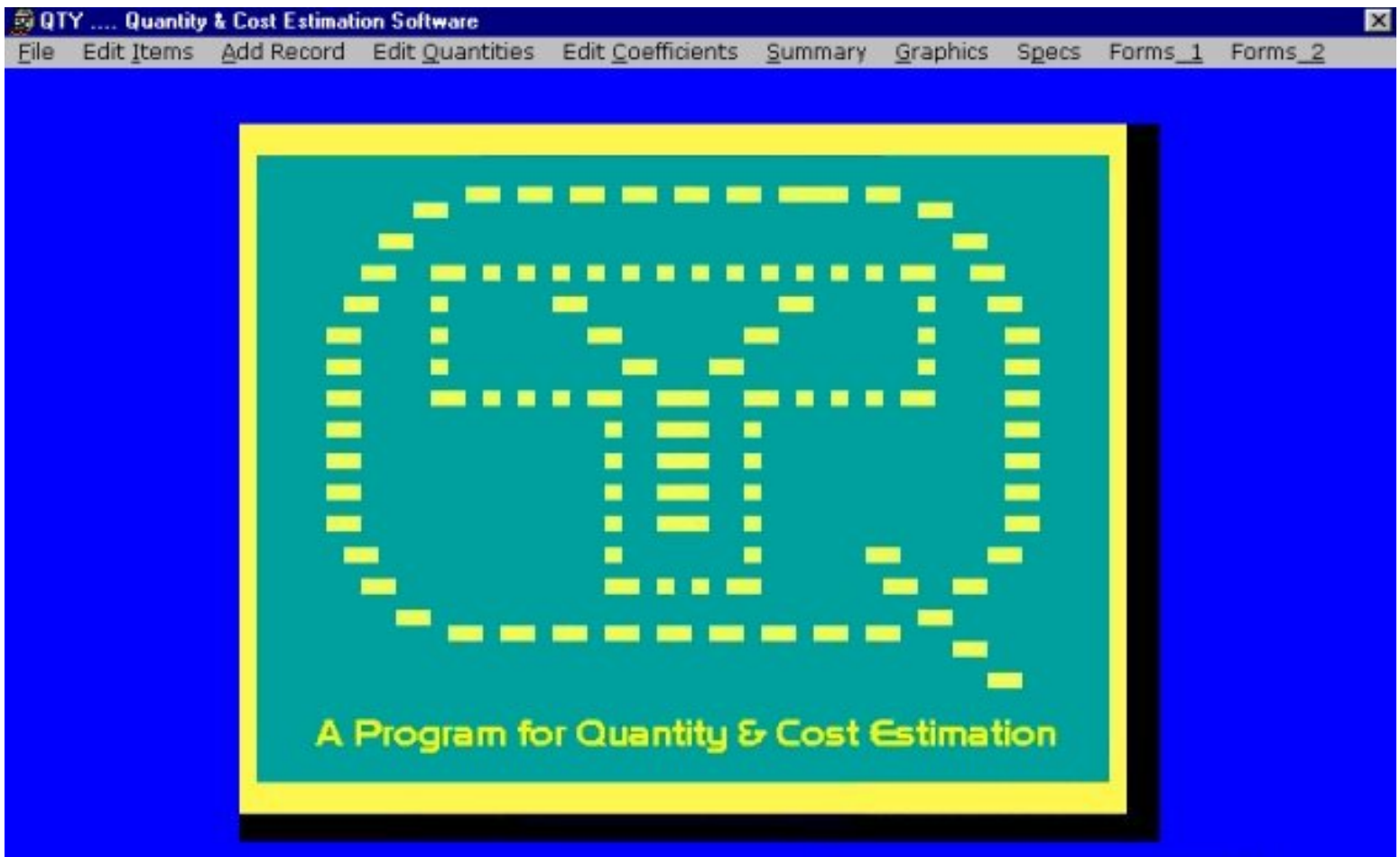
STEP NO. 5 IS OVER.

LEARN QTY STEP BY STEP

STEP NO. 6

NOTE: DO NOT EDIT MATERIAL OR LABOUR COEFFICIENTS UNLESS YOU HAVE SOME VALID REASONS TO DO SO.

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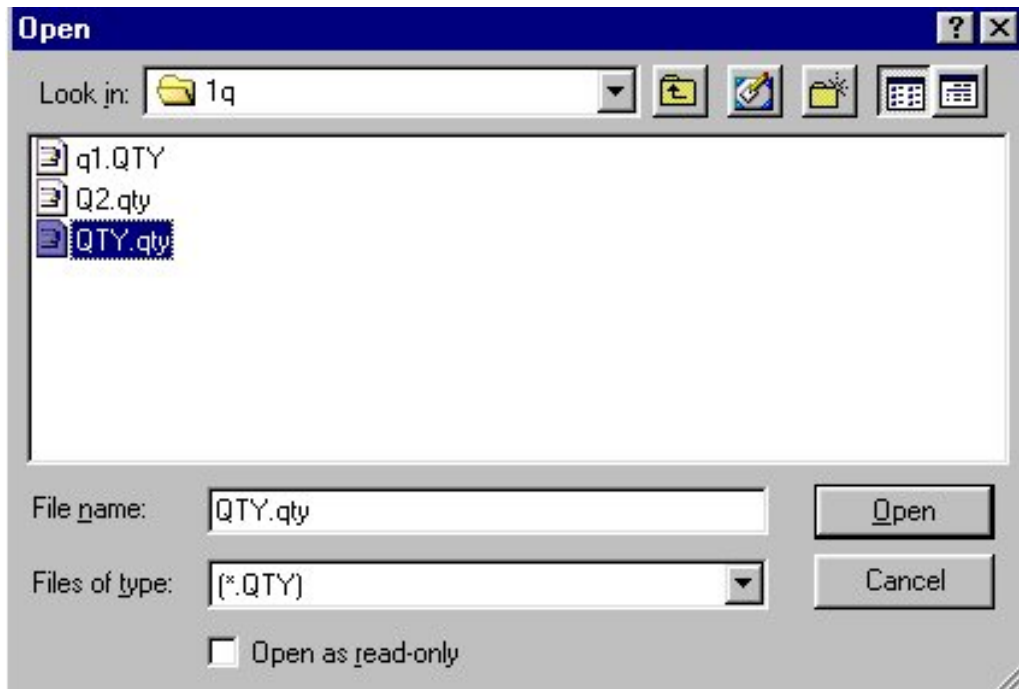
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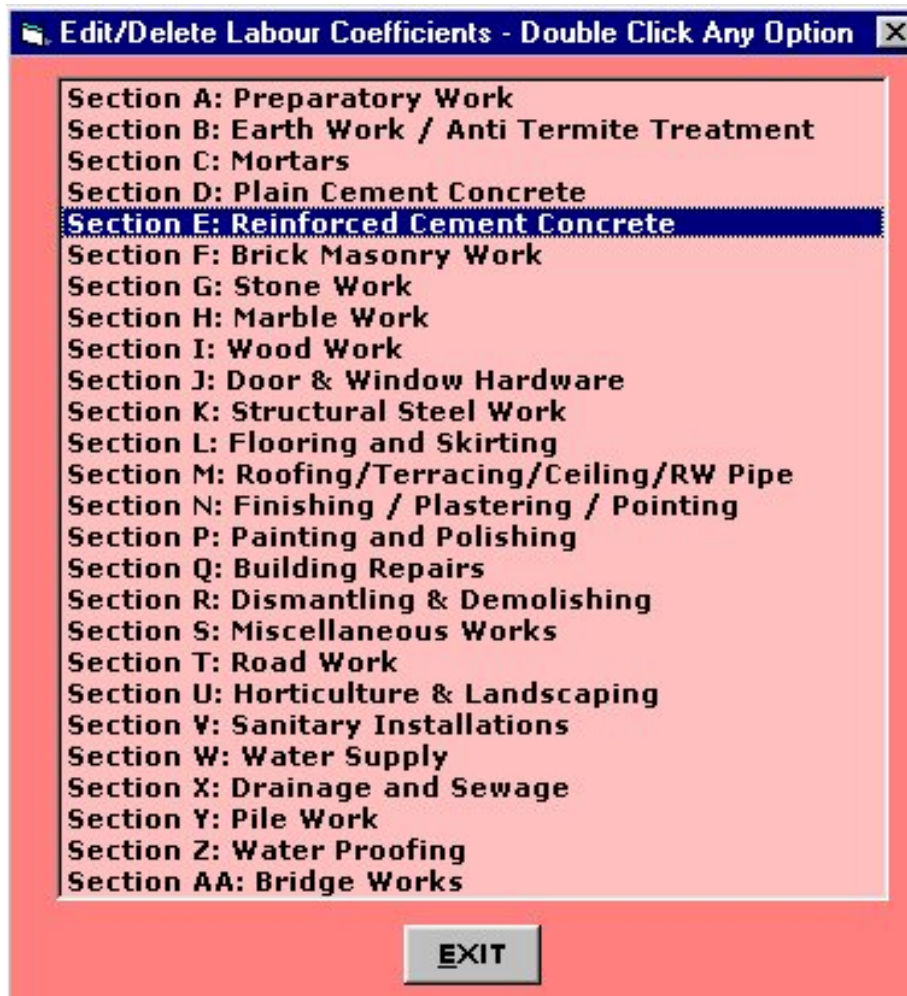
Click the Edit Coefficients option in the MENU bar. Here you will have two options.

- Material Coefficients
- Labour Coefficients

Click the Labour Coefficients option. The following window will open.



▶ Now click QTY file & click open. A new window with all Sections will appear as follows. The heading is Edit / Delete Labour Coefficients - Double Click any option.



- ▶ Now double click " Section E: Reinforced Cement Concrete ".
A new window will appear as follows, listing Labour Coefficients of items having Mason, Carpenter, Skilled Labour, Unskilled Labour & Foreman Components.

DISPLAY/EDIT LABOUR COEFFICIENTS

Project : 4305

Section E: Reinforced Cement Concrete

Date : 9/8/05

Item_ID	Item_no	Item	Unit	Mason	Carpent...	Skill	Unskilled	Foreman	
E1		RCC 1 : 1 : 2 UP TO PLINTH LEVEL	M3	0.17			2.97	0.05	
E2		RCC 1 : 1.5 : 3 UP TO PLINTH LEVEL	M3	0.17			2.97	0.05	
E3		RCC 1 : 2 : 4 UP TO PLINTH LEVEL	M3	0.17			2.97	0.05	
E4		RCC WALLS IN SUPER STRUCTURE 1...	M3	0.23			4.5	0.05	
E5		RCC WALLS IN SUPER STRUCTURE 1...	M3	0.23			4.5	0.05	
E6		RCC WALLS IN SUPER STRUCTURE 1...	M3	0.23			4.5	0.05	
E7		RCC COLUMNS IN SUPER STRUCTUR...	M3	0.23			4.5	0.07	
E8		RCC COLUMNS IN SUPER STRUCTUR...	M3	0.23			4.5	0.07	
E9		RCC COLUMNS IN SUPER STRUCTUR...	M3	0.23			4.5	0.07	
E10		RCC SLABS IN SUPER STRUCTURE 1 ...	M3	0.24			3.47	0.05	
E11		RCC SLABS IN SUPER STRUCTURE 1 ...	M3	0.24			3.47	0.05	
E12		RCC SLABS IN SUPER STRUCTURE 1 ...	M3	0.24			3.47	0.05	
E13		RCC BEAMS IN SUPER STRUCTURE 1 ...	M3	0.20			3.97	0.07	
E14		RCC BEAMS IN SUPER STRUCTURE 1 ...	M3	0.20			3.97	0.07	
E15		RCC BEAMS IN SUPER STRUCTURE 1 ...	M3	0.20			3.97	0.07	
E16		RCC ARCH IN SUPER STRUCTURE 1 : ...	M3	0.30			5.27	0.125	
E17		RCC ARCH IN SUPER STRUCTURE 1 : ...	M3	0.30			5.27	0.125	
E18		RCC DOMES / FOLDED PLATES IN SU...	M3	0.30			5.27	0.125	
E19		RCC DOMES / FOLDED PLATES IN SU...	M3	0.30			5.27	0.125	
E20		RCC SHAFTS IN SUPER STRUCTURE ...	M3	0.23			4.5	0.12	
E21		RCC SHAFTS IN SUPER STRUCTURE ...	M3	0.23			4.5	0.12	
E22		RCC SHAFTS IN SUPER STRUCTURE ...	M3	0.23			4.5	0.12	
E23		RCC SHAFTS IN SUPER STRUCTURE ...	M3	0.23			4.5	0.12	
E24		RCC WORK IN WELL-STEINING 1 : 2 : 4	M3	0.3			5.27	0.12	

Edit Labour Coefficients for Item no. E1

Mason Carpenter Skilled Labour Unskilled Labour Foreman

EXIT

UPDATE

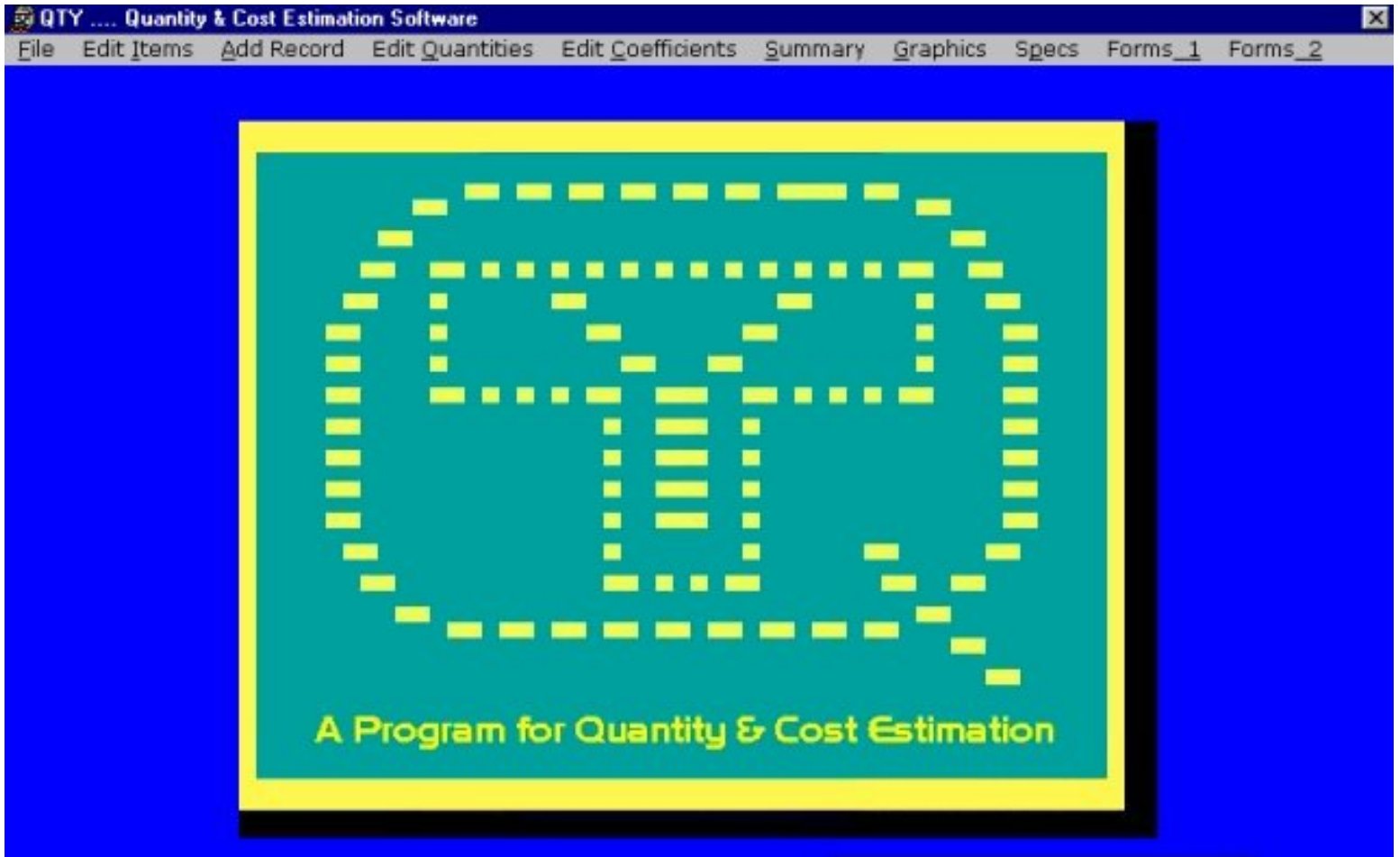
PRINT

- ▶ The above window can perform the following functions.
 - By Clicking " PRINT " button, all the records will be printed.
 - The most important option available here is Editing. At the base of window there is a heading in RED which says " Edit Labour Coefficients for item no. E1 ". Just change the various fields (Values in the text boxes) & it will get reflected in the selected ROW above.
 - Click " UPDATE " button to refresh changes.
- ▶ Now Click the EXIT button to leave this window. You are back to Section Menu. Similarly you can Edit Labour Coefficients of other sections by double clicking the required selected section.

STEP NO. 6 IS OVER.

LEARN QTY STEP BY STEP

STEP NO. 7



▶ Refer the graphics above. The Menu bar contains following options.

- I. File
- II. Edit Items
- III. Add Record
- IV. Edit Quantities
- V. Edit Coefficients
- VI. Summary
- VII. Graphics
- VIII. Specs
- IX. Forms_1
- X. Forms_2

Click the Summary option in the MENU bar. The following options will open up.



- ▶ All the above options display the various quantities & cost aspect of a given project. I have added random quantities & appropriate rates to various items in sections.

When I click the " Total Cost " option, following window is displayed.



- ▶ Click QTY file & click open. A new window with all Sectional costs appear as follows.

SUMMARY OF PROJECT COST

Organization : ABC CONSULTANTS

Client : M/S Real Estate Corp.

Project : G + 1 Storey Bldg.

Project No : 4305

Building / Structure : B1

Date : 9/8/05

Total Project Cost :

Total Overhead :

Total Taxes :

Total Profit :

SECTION	COST	OVERHEAD	TAX	PROFIT	% TOTAL	
Section A: Preparatory Work	62500	5000	2500	5000	4.58	
Section B: Excavation	46875	3750	1875	3750	3.43	
Section C: Mortars	116250	9300	4650	9300	8.52	
Section D: Plain Cement Concrete	84375	6750	3375	6750	6.18	
Section E: Reinforced Cement Concrete	88399.98	7071.99	3535.99	7071.99	6.48	
Section F: Brick Masonry Work	33750	2700	1350	2700	2.47	
Section G: Stone Work	45000	3600	1800	3600	3.29	
Section H: Marble Work	13500	1080	540	1080	.98	
Section I: Wood Work	21875	1750	875	1750	1.6	
Section J: Door/Window Hardware	18750	1500	750	1500	1.37	
Section K: Structural Steel Work	135300	10824	5412	10824	9.91	
Section L: Flooring and Skirting	75000	6000	3000	6000	5.49	
Section M: Roofing/Ceiling	93750	7500	3750	7500	6.87	
Section N: Finishing/Plastering	31250	2500	1250	2500	2.29	
Section P: Painting/Polishing	25000	2000	1000	2000	1.83	
Section Q: Building Repairs	0	0	0	0	0	
Section R: Dismantling/Demolishing	0	0	0	0	0	
Section S: Miscellaneous Works	30000	2400	1200	2400	2.19	
Section T: Road Work	62500	5000	2500	5000	4.58	
Section U: Horticulture/Landscaping	25000	2000	1000	2000	1.83	
Section V: Sanitary Installations	100000	8000	4000	8000	7.33	
Section W: Water Supply	56250	4500	2250	4500	4.12	
Section X: Drainage/Sewage	18750	1500	750	1500	1.37	
Section Y: Pile Work	130000	10400	5200	10400	9.53	
Section Z: Water Proofing	50000	4000	2000	4000	3.66	

EXIT

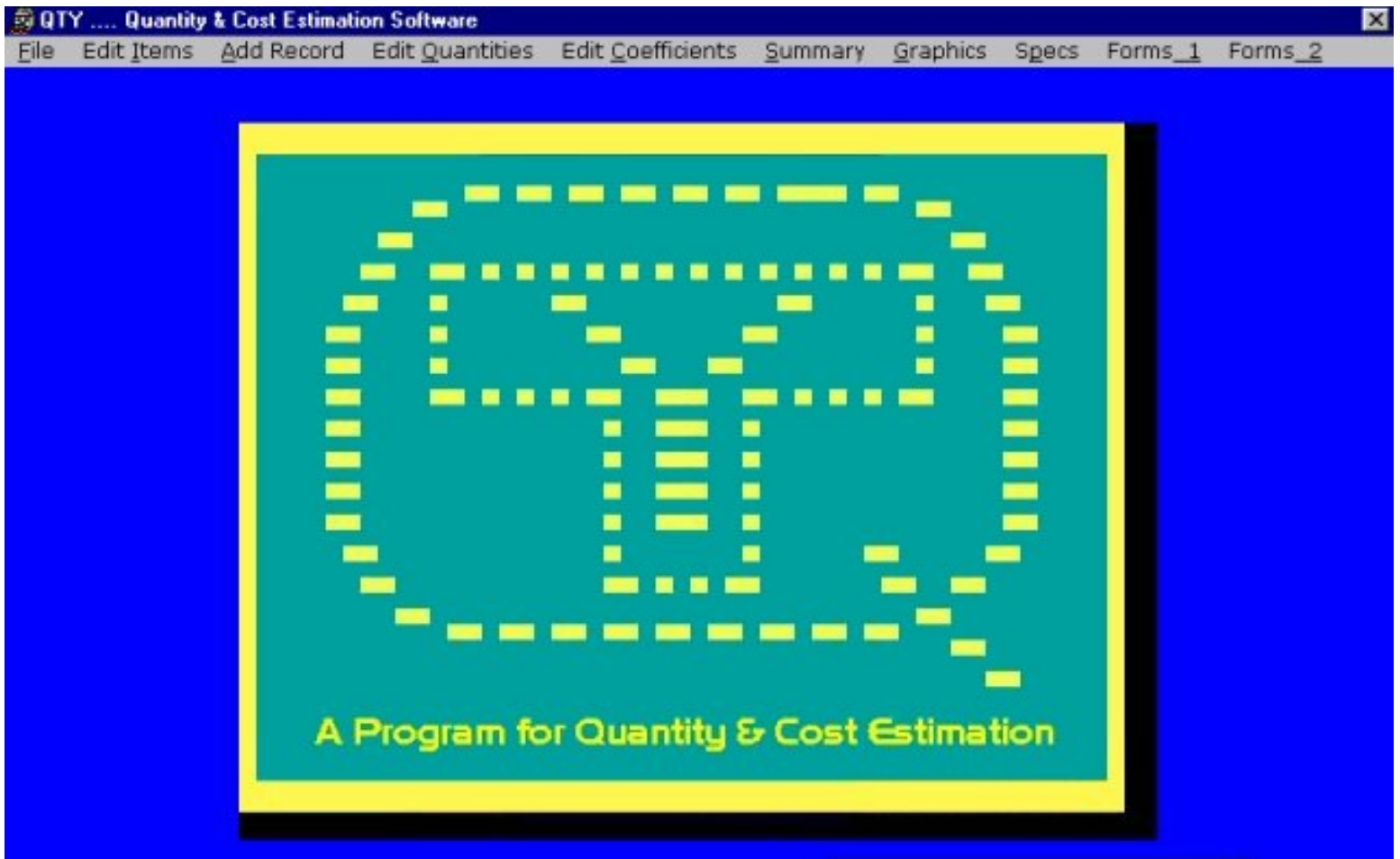
PRINT

- ▶ Similarly when you click other options appropriate window will open & display the required parameters.

STEP NO. 7 IS OVER.

LEARN QTY STEP BY STEP

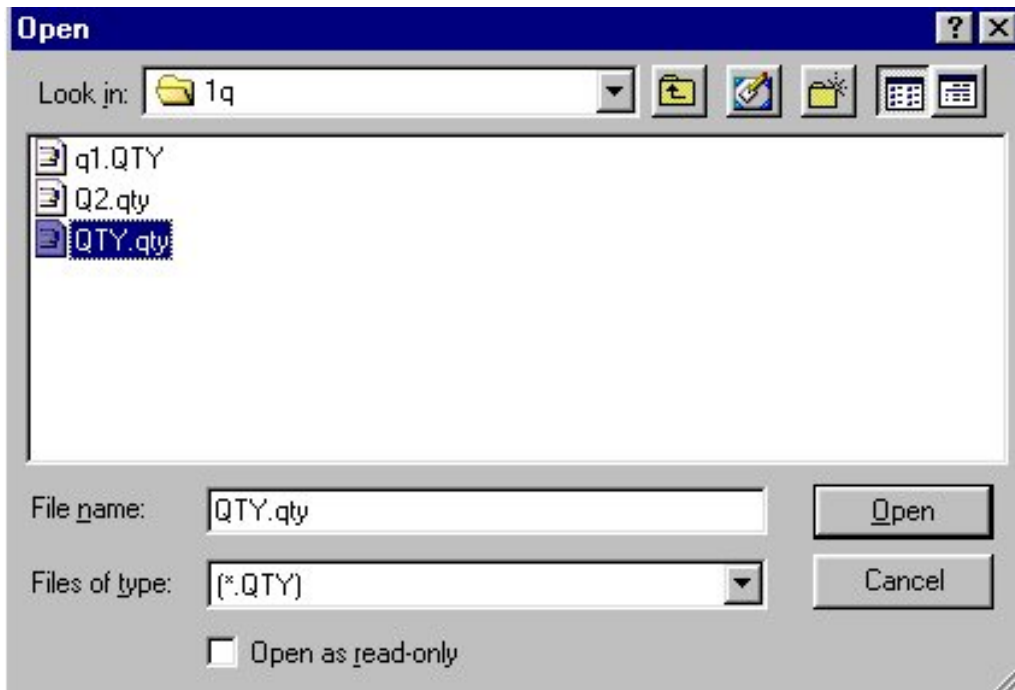
STEP NO. 8



▶ Refer the graphics above. The Menu bar contains following options.

- I. File
- II. Edit Items
- III. Add Record
- IV. Edit Quantities
- V. Edit Coefficients
- VI. Summary
- VII. Graphics
- VIII. Specs
- IX. Forms_1
- X. Forms_2

Click the Graphics option in the MENU bar. The following window will open up.

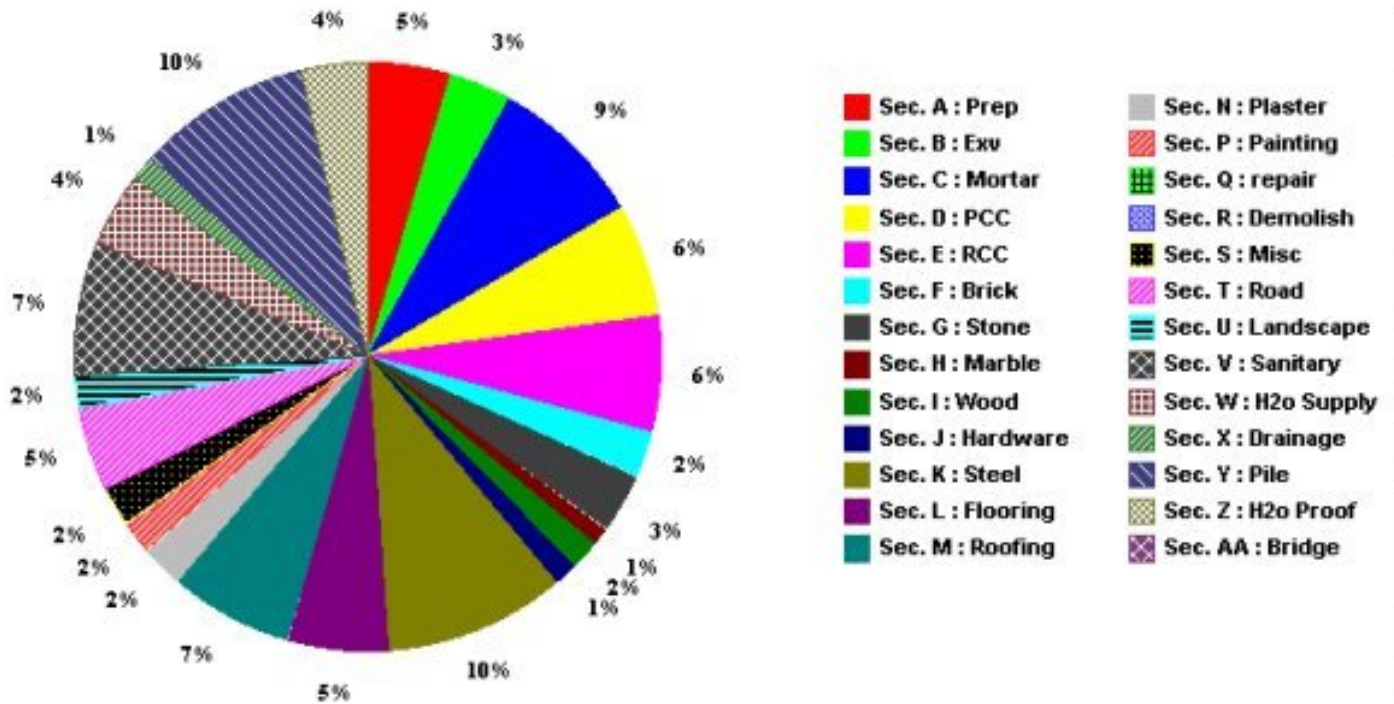


- ▶ Click QTY file & click open. A new window will open Displaying Chart Menu as under.



- ▶ All the above options display the various quantities & cost aspect of a given project in Pie or Bar Chart form. When I double click the " Total Cost : Pie Chart " option, following Pie Chart is displayed.

SECTIONAL COSTS



Organization : ABC CONSULTANTS

Date : 9/8/05

PRINT

EXIT

Project : G + 1 Storey Bldg.

Building / Structure : B1

Client : M/S Real Estate Corp.

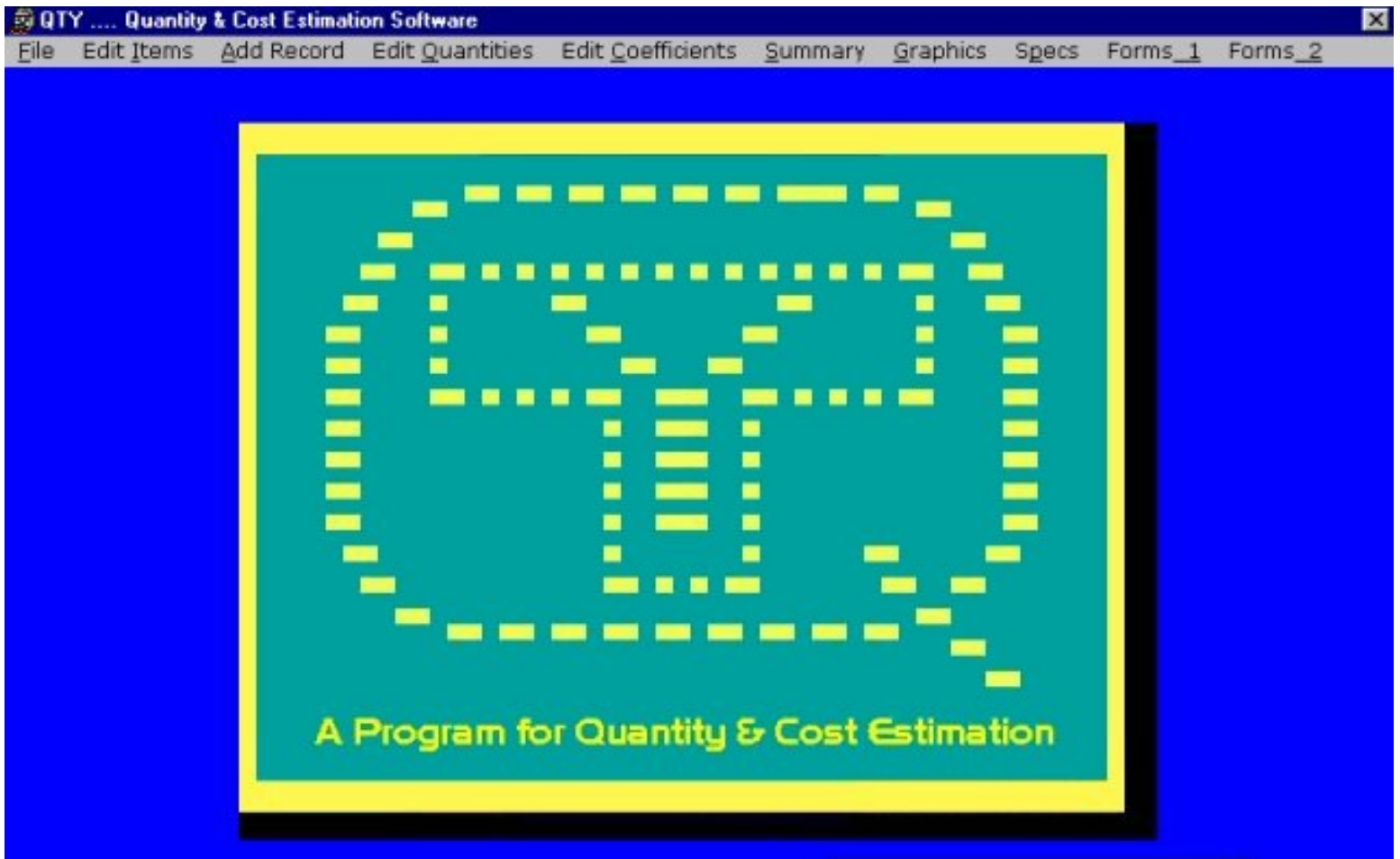
Project No : 4305

▶ Similarly when you double click other options, appropriate windows will open & display the required Pie / Bar Chart.

STEP NO. 8 IS OVER.

LEARN QTY STEP BY STEP

STEP NO. 9



▶ Refer the graphics above. The Menu bar contains following options.

- I. File
- II. Edit Items
- III. Add Record
- IV. Edit Quantities
- V. Edit Coefficients
- VI. Summary
- VII. Graphics
- VIII. Specs
- IX. Forms_1
- X. Forms_2

Click the Specs option in the MENU bar. The following options will open up.

SPECIFICATIONS

◆ PREPARATORY WORK

- ◆ EARTH WORK

- ◆ MORTAR

- ◆ PCC

- ◆ RCC

- ◆ MASONRY WORK

- ◆ STONE WORK

- ◆ MARBLE WORK

- ◆ WOOD WORK

- ◆ DOOR / WINDOW HARDWARE

- ◆ STRUCTURAL STEEL

- ◆ FLOORING

- ◆ ROOFING

- ◆ FINISHING / PLASTERING

- ◆ [PAINTING / POLISHING](#)

- ◆ [BUILDING REPAIRS](#)

- ◆ [DISMANTLING & DEMOLISHING](#)

- ◆ [MISC. WORKS](#)

- ◆ [ROADS](#)

- ◆ [HORTICULTURE & LANDSCAPING](#)

- ◆ [SANITARY](#)

- ◆ [WATER SUPPLY](#)

- ◆ [DRAINAGE & SEWAGE](#)

- ◆ [PILE WORK](#)

- ◆ [WATER PROOFING](#)

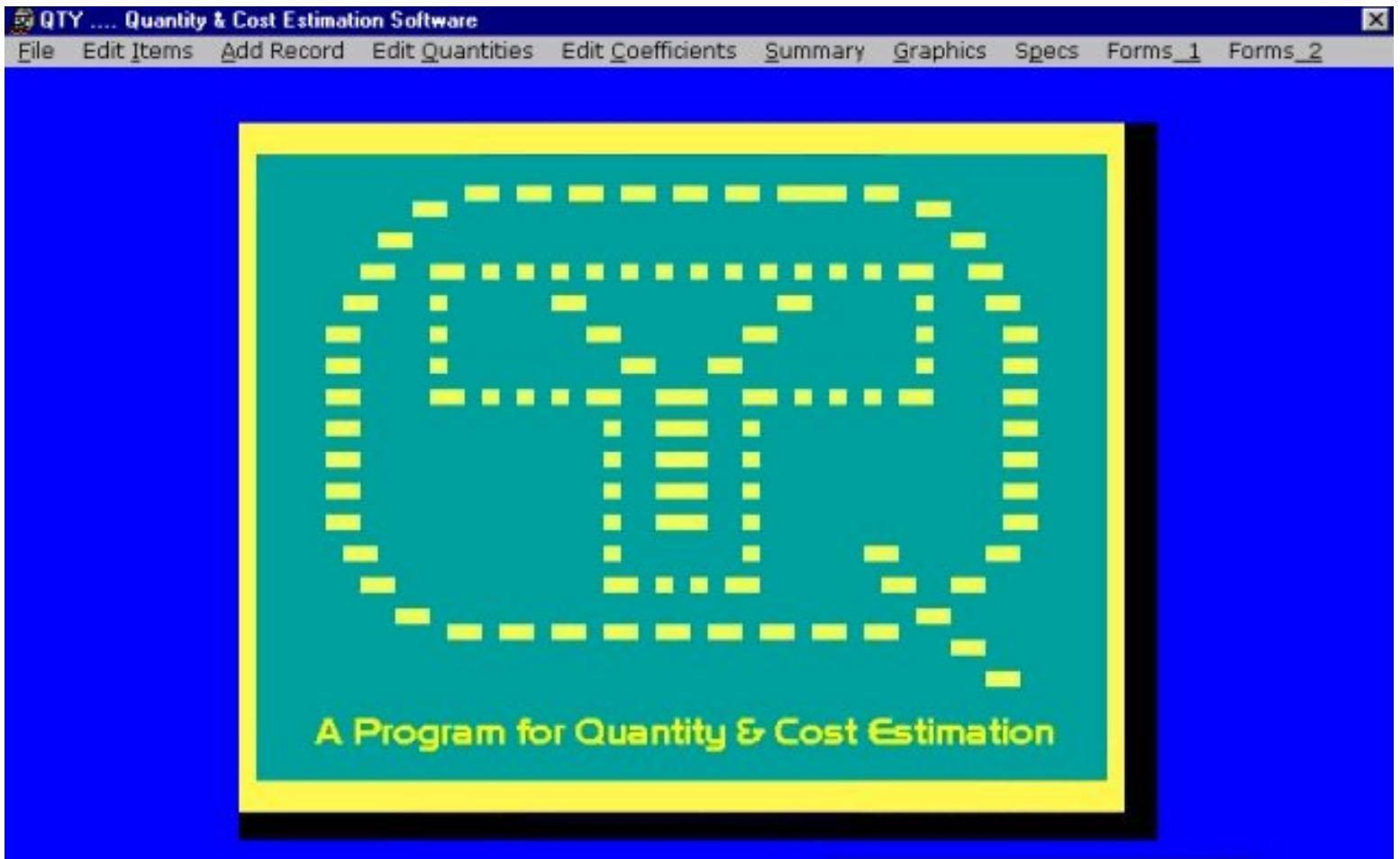
- ◆ [BRIDGE WORKS](#)

▶ **Click on any of the above Link & Specification of selected topic will be displayed.**

STEP NO. 9 IS OVER.

LEARN QTY STEP BY STEP

STEP NO. 10



▶ Refer the graphics above. The Menu bar contains following options.

- I. File
- II. Edit Items
- III. Add Record
- IV. Edit Quantities
- V. Edit Coefficients
- VI. Summary
- VII. Graphics
- VIII. Specs
- IX. Forms_1
- X. Forms_2

Click the Forms_1 option in the MENU bar. The following options will open up.

Measurement Sheet

R A Bill - CPWD Item Rate
R A Bill - CPWD Lump Sum
Advance Payment - CPWD
R A Bill - General
Projected Delay Report
Projected Profit
Projected Material Consumption
Projected Labour Consumption
Actual Delay Report
Actual Profit / Loss
Actual Material Consumption
Actual Labour Consumption
Profit Control
Material Control
Labour Control
Daily Progress Report
Material Inward Report
Material Transfer Receipt
Material Issue Slip
Daily Store Consumption
Daily Departmental Labour Slip
Watchman Report - Material
Watchman Report - Visitors
Inspection Report
Indent Slip
Pending Requisitions
Material Consumption Statement
Cement Consumption Statement

► If you click the **Forms_2** option then following graphics will appear.

Electricity Consumption Statement

Water Consumption Statement
Machinery Status Report
Machinery Maintenance Report
Excess Material List
Progress Report
Material Planning Schedule
Activity Schedule
Crash Cost Schedule
Calendar Date / Working Day
Material Order/Receipt Schedule
Labour Payment Schedule

- ▶ The Forms_1 & Forms_2 options display various typical forms, formats or templates generally used in construction industry. A typical quantity measurement sheet is displayed as under.

ORGANIZATION

Address -1

Address -2

Phone No:

Cell:

Project:

Dated: xx/xx/0x

Client:

Project No:

Building / Structure:

MEASUREMENT / QUANTITY SHEET

SECTION B - EXCAVATION

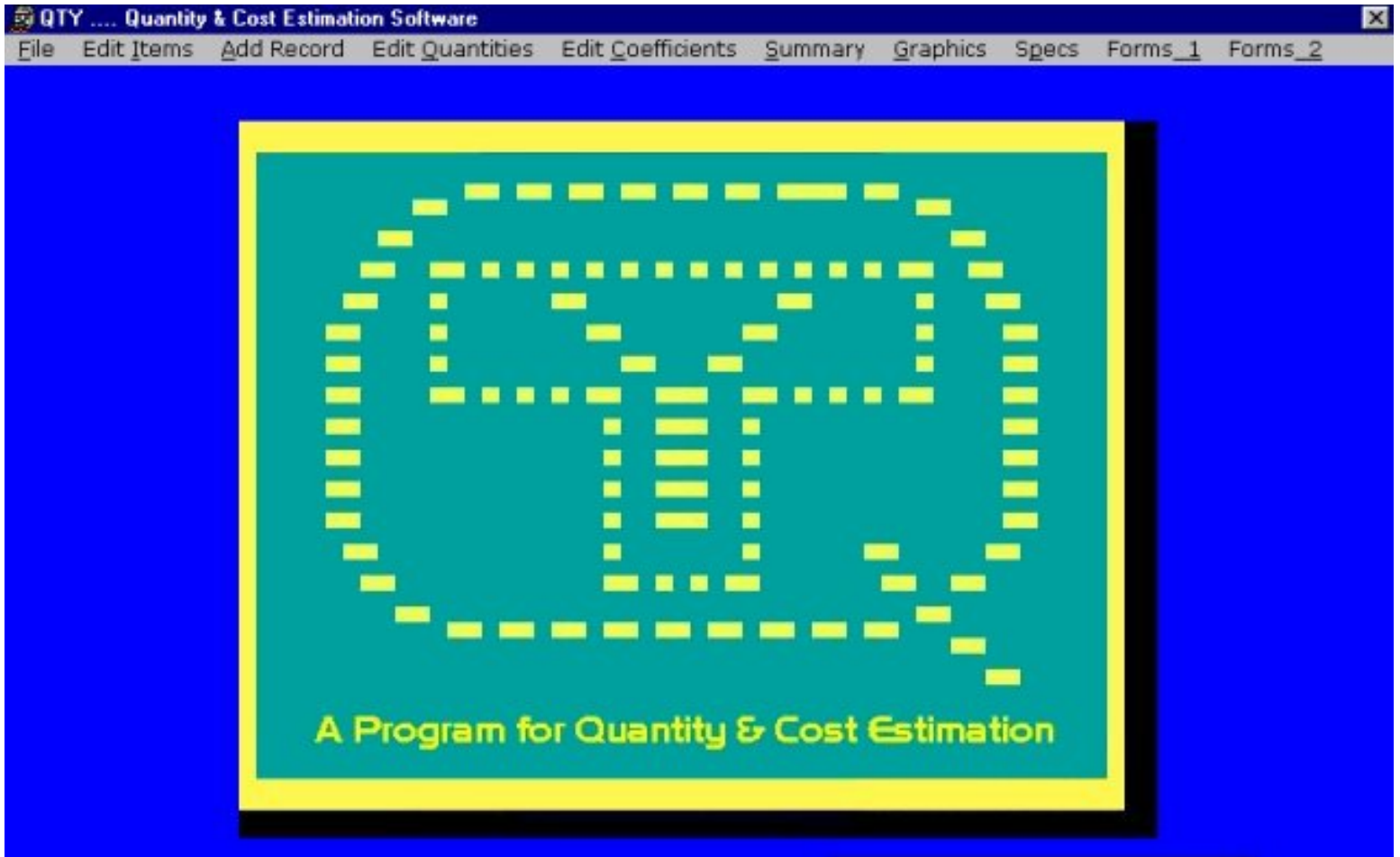
SN	Item No	Item - Description	Unit	Nos	L	W	D	QTY
1	B1	Rough Excavation - area a1	M3	1	10	10	.5	
2	B1	Rough Excavation - area a2	M3	2	5	5	1	
3	B2	Banking - area a1	M3	1	2	2	.3	
4	B2	Banking - area a2	M3	2	3	3	.4	
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								

- ▶ All the above Forms / Formats / Templates are in M. S. WORD format. In case of any difficulty in opening the above documents, user can directly access the above files from C: \ Program files \ QTY \ Form directory.

STEP NO. 10 IS OVER.

LEARN QTY STEP BY STEP

STEP NO. 11



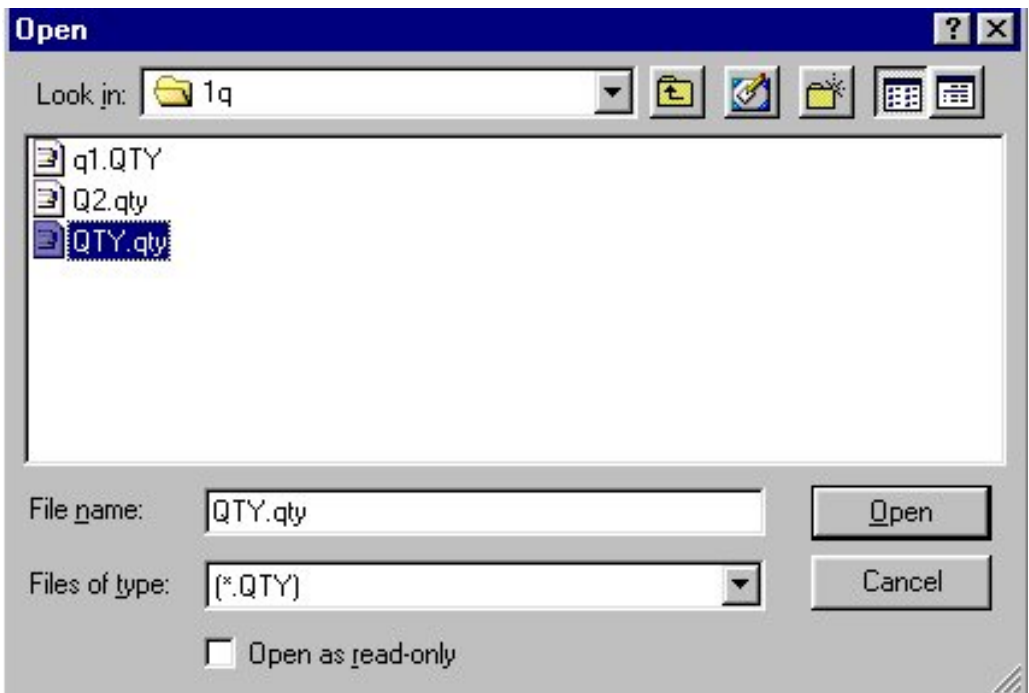
▶ Refer the graphics above. The Menu bar contains following options.

- I. File
- II. Edit Items
- III. Add Record
- IV. Edit Quantities
- V. Edit Coefficients
- VI. Summary
- VII. Graphics
- VIII. Specs
- IX. Forms_1
- X. Forms_2

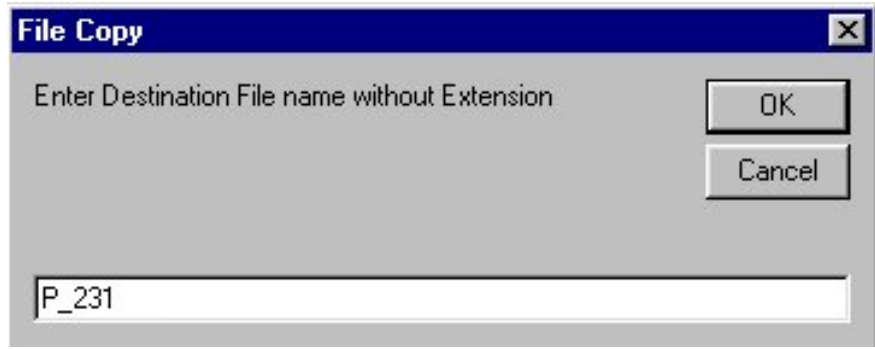
Click the FILE option in the MENU bar. The following window will open.



▶ Now click Copy File option. A new window will appear as follows, asking for the name of the File to be copied.



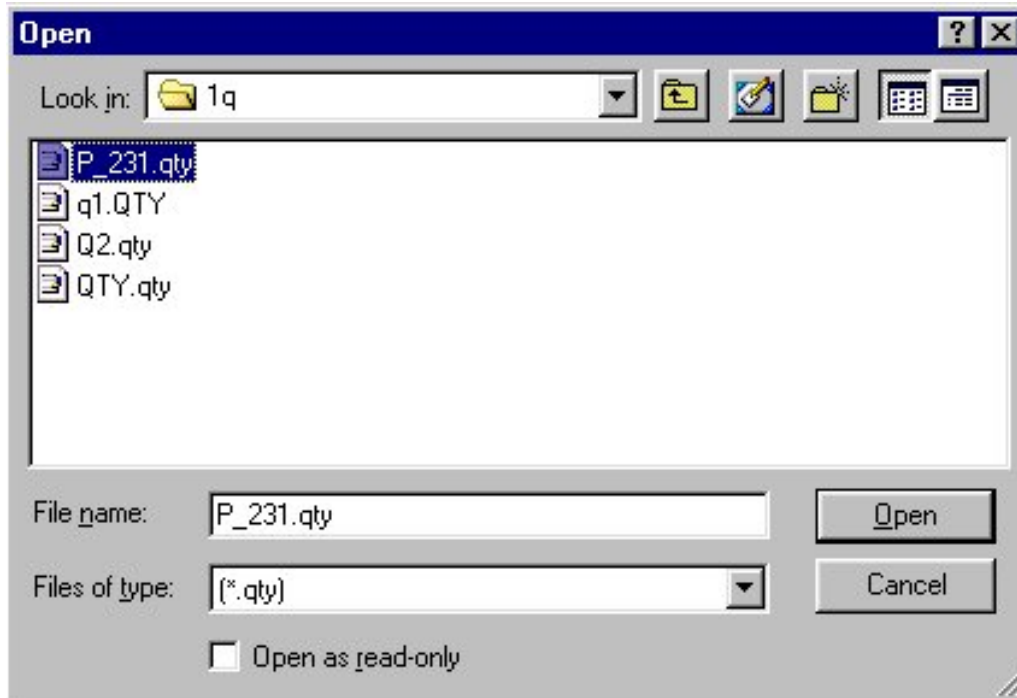
▶ Now click QTY file & click open. A new window will appear as follows, asking for the name of the destination file.



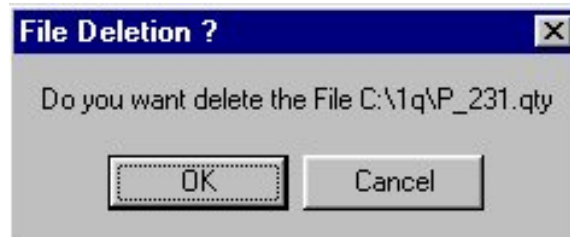
▶ Give the destination file name as P_231. Press " OK " button. A new message window will appear as follows.



- ▶ The above message confirms the copying of all respective files to new P_231 file. Note that original file QTY is intact. Press " OK " button to exit.
- ▶ Again Now click Delete File option. A new window will appear as follows, asking for the name of the File to be deleted.



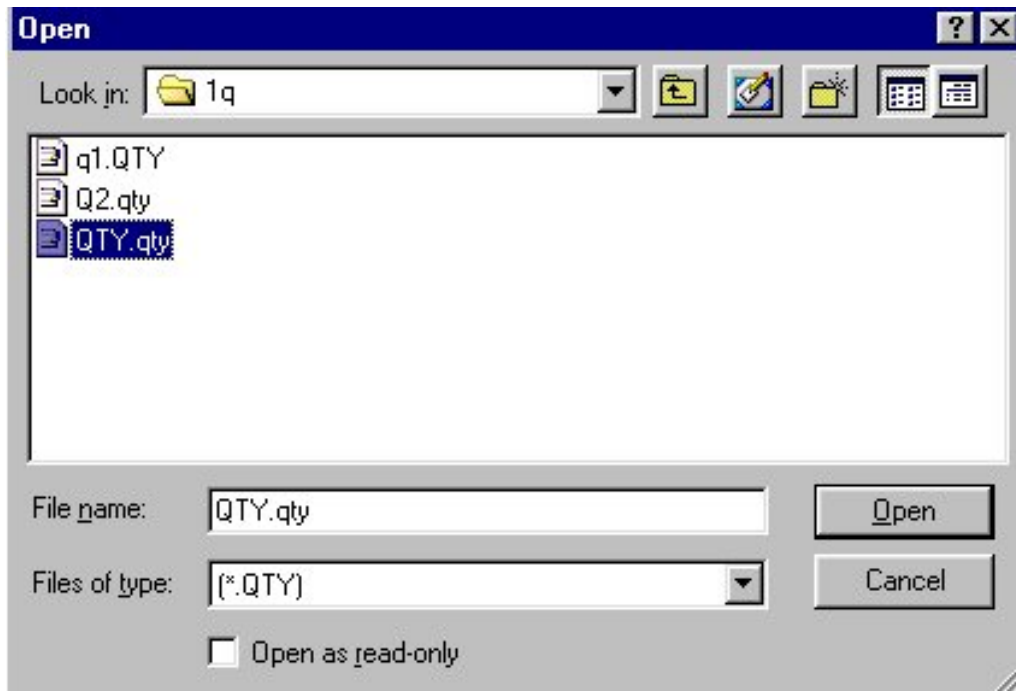
- ▶ Select P_231 file & click " Open " button. A new window will open as follows, requiring confirmation.



- ▶ Click the " OK " button, again a new window will open as follows, confirming deletion of P_231 qty & item files.



▶ Now click Edit Project File option. A new window will appear as follows, asking for the name of the project File to be Edited.



▶ Now click QTY file & click open. A new window will appear as follows, enabling user to change the various project parameters.

Project File : Edit Project Details X

File Name : C:\1q\QTY.qty Date : 10/8/05

Organization :

Project :

Project No :

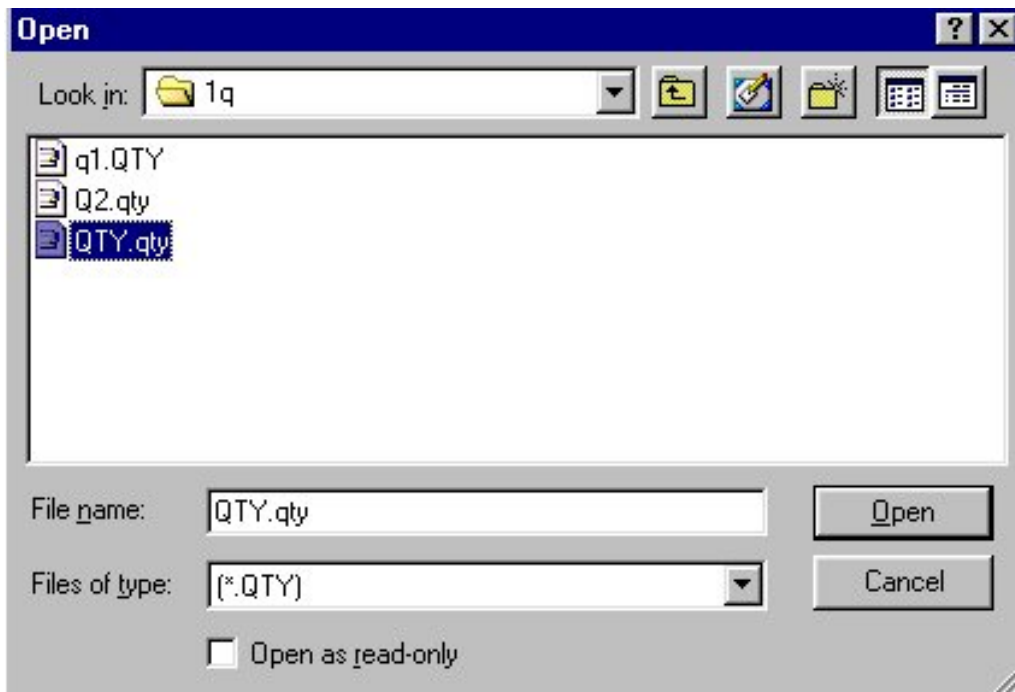
Client ID :

Building / Structure ID :

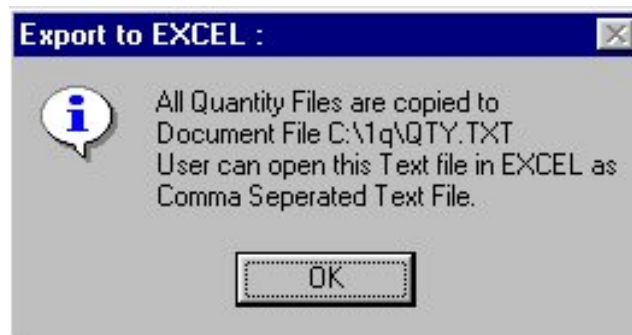
Project Duration in Months :	<input type="text" value="36"/>	Project Over Head in %	<input type="text" value="10"/>
Taxes in %	<input type="text" value="5"/>	Profit Margin in %	<input type="text" value="10"/>
Rate per Cement Bag	<input type="text" value="200"/>	Rate per M3 of Sand	<input type="text" value="600"/>
Rate per M3 of Aggregates	<input type="text" value="600"/>	Rate per Brick	<input type="text" value="1.0"/>
Mason Wage/day	<input type="text" value="250"/>	Carpenter Wage / day	<input type="text" value="250"/>
Skill labour Wage / day	<input type="text" value="250"/>	Un Skilled Labour Wage	<input type="text" value="180"/>
Foreman Cost / day	<input type="text" value="350"/>	Mobilization Advance in %	<input type="text" value="5"/>
Recovery of Advance in %	<input type="text" value="5"/>	Security Deposit in %	<input type="text" value="5"/>

▶ After you have completed editing the various project parameters click " EXIT " button.

▶ Now click Export QTY to EXCEL option. A new window will appear as follows, asking for the name of the project File to be Exported to EXCEL.



- ▶ Now click QTY file & click open. A new window will appear as follows, indicating that all the QTY files are copied to a new file with .TXT extension.

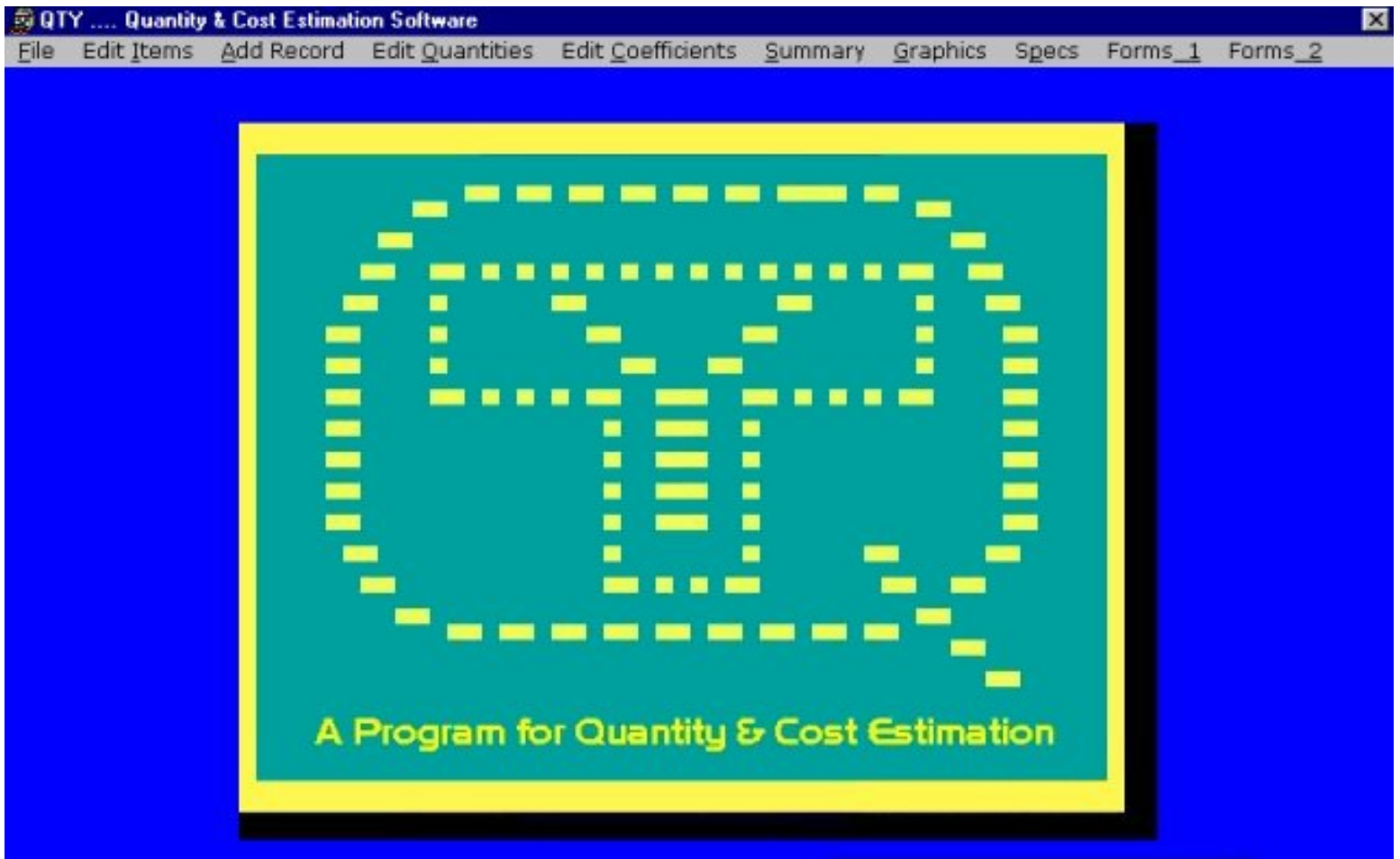


- ▶ User can open this Text file in EXCEL as comma separated Text File.

STEP NO. 11 IS OVER.

LEARN QTY STEP BY STEP

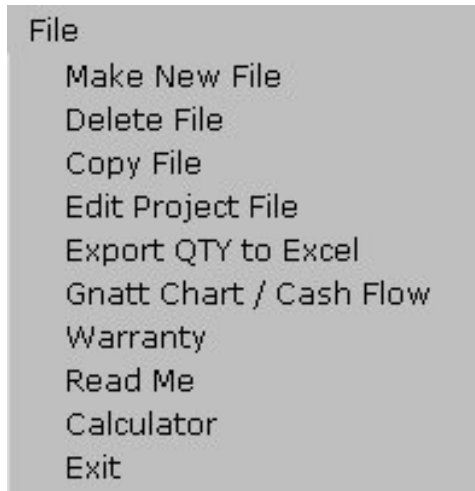
STEP NO. 12



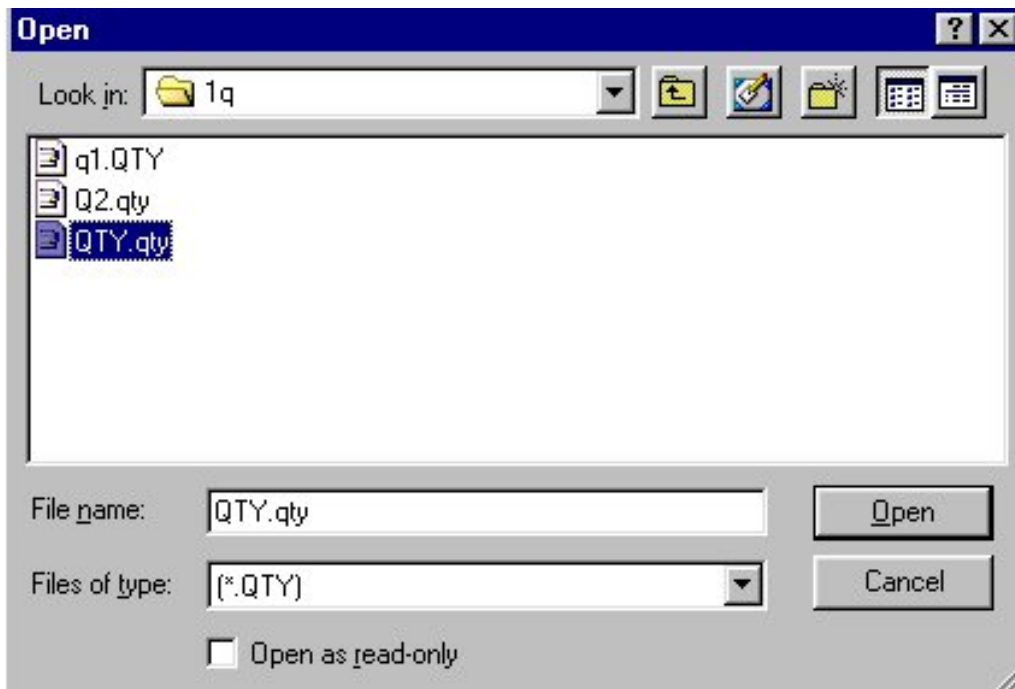
▶ Refer the graphics above. The Menu bar contains following options.

- I. File
- II. Edit Items
- III. Add Record
- IV. Edit Quantities
- V. Edit Coefficients
- VI. Summary
- VII. Graphics
- VIII. Specs
- IX. Forms_1
- X. Forms_2

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



- ▶ Now click Gnatt Chart / Cash Flow option. A new window will appear as follows, asking for the file name.



- ▶ Now click QTY file & click open. A new window will appear as follows, showing empty Gnatt / Bar Chart.

	Section / Item	Time in Months																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	A / Mobilization																								
2	B / Excavation																								
3	C / Mortar																								
4	D / PCC																								
5	E / RCC																								
6	F / Brick Work																								
7	G / Stone Work																								
8	H / Marble Work																								
9	I / Wood Work																								
10	J / D / W Hardware																								
11	K / Str. Steel																								
12	L / Flooring																								
13	M / Roofing																								
14	N / Finishing																								
15	P / Painting																								
16	Q / Bldg. Repairs																								
17	R / Demolishing																								
18	S / Misc.																								
19	T / Roads																								
20	U / Landscaping																								
21	V / Sanitary																								
22	W / Water Supply																								
23	X / Drainage																								
24	Y / Pilling																								
25	Z / H2o Proofing																								
26	AA / Bridge Work																								

Cash Flow / Material / Men : Distribution

Edit Bar Chart

Exit

Print

Landscaping

Sanitary

Water Supply

Drainage

Pilling

H2O Proofing

Bridge

Road

D/W Hardware

Str. Steel

Flooring

Roofing

Finishing

Painting

Repair

Demolish

Misc.

Mobilization

Excavation

Mortar

PCC

RCC

Brick Work

Stone Work

Marble Work

Wood Work

- ▶ Now let us start constructing Gantt / Bar Chart. Click " Mobilization " button situated at the left bottom corner of chart. The following window will appear asking for " Enter Start of Mobilization ". Type 0 & press " OK " .

The dialog box titled "Start of Bar" has a text input field containing the number "0". Below the input field are two buttons: "OK" and "Cancel".

- ▶ Again a new window will appear asking for " Enter End of Mobilization ". Type 1 & press " OK ". This window is displayed as under.

Finish of Bar not > 24 [X]

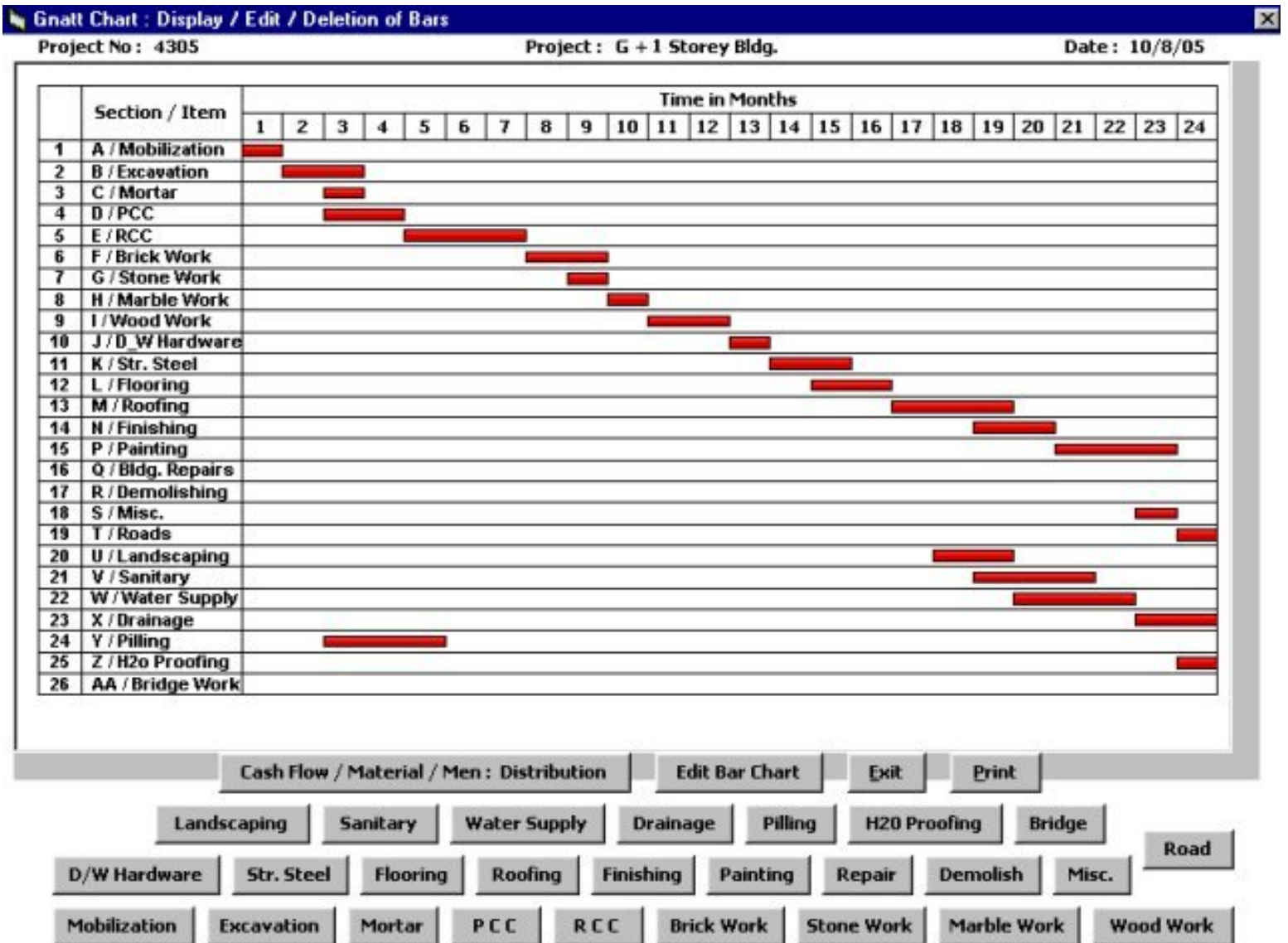
Enter End of Mobilization

OK

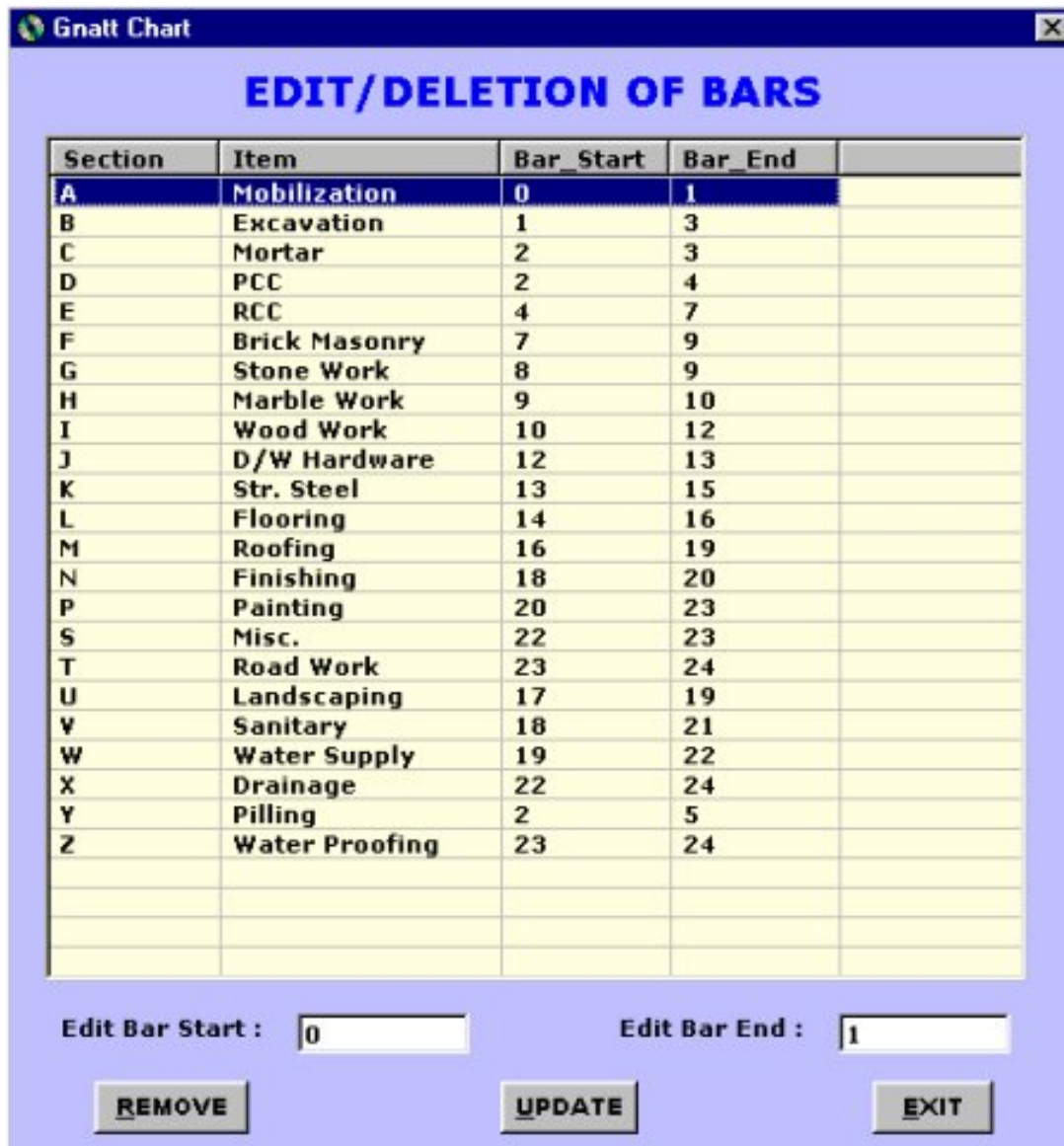
Cancel

1

- Now you will see a RED BAR is displayed between 0 and 1 on the Mobilization ROW. Similarly you can prepare the complete GNATT / BAR CHART by clicking various activity buttons such as Excavation, Mortar, PCC, RCC etc.... I have completed the BAR CHART for the whole project as follows.



- In case you have made any mistake or wants to change the Bar Chart, just click " Edit Bar Chart " button. Following window will appear.



- ▶ Just Edit Bar Start or Edit Bar End and click on UPDATE button to register changes. Note that bar end should always be greater than bar start. If you want to delete any activity, (BAR) just take mouse to that ROW & click (select) and press the " REMOVE " button. Now you will notice that the selected activity has disappeared from this edit menu as well as the corresponding RED BAR has also been removed from the BAR CHART. Click Exit.
- ▶ Click on the " Cash Flow / Material / Men distribution : " Button to display these parameters. A new window will appear as shown in following 3 nos. of graphics.

COST DISTRIBUTION / CUMULATIVE CASH FLOW :

Organization : ABC CONSULTANTS

Client : M/S Real Estate Corp.

Project : G + 1 Storey Bldg.

Project No : 4305

Building / Structure : B1

Date : 10/8/05

Month	1	2	3	4	5	6	7	8
Value	62500	23437.5	225208.33	85520.83	72799.99	29466.66	29466.65	16875
% Cumulative	4	6	22	29	34	36	38	39
Over Head	5000	1875	18016.66	6841.66	5823.99	2357.33	2357.33	1350
Tax	2500	937.5	9008.33	3420.83	2911.99	1178.66	1178.66	675
Profit	5000	1875	18016.66	6841.66	5823.99	2357.33	2357.33	1350
Cement - Bag	0	0	142.58	142.58	37.86	32.53	32.53	16.87
Sand - M3	0	0	5.45	5.45	1.59	1.2	1.19	3.64
Aggregate - ...	0	0	10.91	10.91	1.98	1.2	1.19	0
Brick - No	0	0	0	0	0	0	0	6750
Mason - No	0	0	2.08	2.08	0.62	0.45	0.45	8.1
Carpenter - ...	0	0	0	0	0	0	0	0
Skill Lab - No	0	0	0.26	0.26	2.65	2.39	2.39	0
Unskill Lab - ...	9.19	133.5	255.4	36.1	16.04	10.31	10.31	24.36
Foreman - No	0	12	18.82	0.82	0.59	0.32	0.32	0.23
Cash Param...								
Cost	57499.99	21562.5	207191.66	78679.16	66975.99	27109.32	27109.31	15524.99
Labour Cost	1654.2	28230	53144	7370	3911.2	2677.8	2677.8	6490.3
Material + D...	55845.79	-6667.5	154047.66	71309.16	63064.79	24431.52	24431.51	9034.68
Adv. Recovery	0	3125	1171.87	11260.41	4276.04	3639.99	1473.33	1473.33
SD Recovery	0	3125	1171.87	11260.41	4276.04	3639.99	1473.33	1473.33
Cash Flow	66549.54	38723.75	13341.01	54610.86	56359.25	56136.67	55547.35	51145.53

Read Me

S Curve

Print

Exit

COST DISTRIBUTION / CUMULATIVE CASH FLOW :

Organization : ABC CONSULTANTS

Client : M/S Real Estate Corp.

Project : G + 1 Storey Bldg.

Project No : 4305

Building / Structure : B1

Date : 10/8/05

9	10	11	12	13	14	15	16	17
61875	13500	10937.5	10937.5	18750	67650	105150	37500	31250
44	45	46	47	48	53	61	63	66
4950	1080	875	875	1500	5412	8412	3000	2500
2475	540	437.5	437.5	750	2706	4206	1500	1250
4950	1080	875	875	1500	5412	8412	3000	2500
135.67	39.76	0	0	0	0	464	464	0
29.06	5.36	0	0	0	0	3.45	3.45	0
0	0	0	0	0	0	0	0	0
6750	0	0	0	0	0	4237.5	4237.5	0
80.09	120	0	0	0	0	8.25	8.25	0
0	0	42.78	42.78	4	0	0	0	7.5
0	0	0	0	0	53.89	53.9	0	5
178.44	135.93	42.78	42.78	2	82.9	99.85	16.95	1
1.89	12.33	0	0	0	0.29	0.59	0.3	1.21
56924.99	12419.99	10062.5	10062.5	17250	62237.99	96737.99	34500	28749.99
52803.19	58782.9	18395.4	18395.4	1360	28496	33717	5218.5	3728.5
4121.79	-46362.91	-8332.91	-8332.91	15890	33741.99	63020.99	29281.5	25021.49
843.75	3093.75	675	546.87	546.87	937.5	3382.5	5257.5	1875
843.75	3093.75	675	546.87	546.87	937.5	3382.5	5257.5	1875
4495.15	-2722.05	37395.46	37176.73	53993.4	26482.4	19908.41	46303.92	47043.92

Read Me

S Curve

Print

Exit

COST DISTRIBUTION / CUMULATIVE CASH FLOW :

Organization : ABC CONSULTANTS

Client : M/S Real Estate Corp.

Project : G + 1 Storey Bldg.

Project No : 4305

Building / Structure : B1

Date : 10/8/05

18	19	20	21	22	23	24	Total
43750	92708.33	67708.33	60416.66	27083.33	47708.33	121875	1364074.94
69	76	81	85	87	91	100	100
3500	7416.66	5416.66	4833.33	2166.66	3816.66	9750	109125.94
1750	3708.33	2708.33	2416.66	1083.33	1908.33	4875	54562.95
3500	7416.66	5416.66	4833.33	2166.66	3816.66	9750	109125.94
0	0	0	0	0	17.76	292.16	1818
0	0.51	0.51	0	0	5.12	27.77	93
0	0	0	0	0	2.9	4	33
0	0	0	0	0	0	0	21975
0	3	3	0	0	6.35	142.34	385
7.5	7.5	0	0	0	0	0	112
5	18.33	20.03	21.36	8.03	1.33	0	194
21	38.66	24.36	14.03	7.36	24.46	297.25	1524
2.21	2.29	1.57	1.5	1.5	1.02	57.42	117
40250	85291.66	62291.66	55583.32	24916.66	43891.66	112124.99	1254948.94
7678.5	14967.8	10691.8	8390.4	3857.3	6679.8	109187	488504.79
32571.5	70323.86	51599.86	47192.91	21059.36	37211.86	2937.99	766444.14
1562.5	2187.5	4635.41	3385.41	3020.83	1354.16	2385.41	62109.93
1562.5	2187.5	4635.41	3385.41	3020.83	1354.16	2385.41	62109.93
42468.92	34304.61	36726.46	37673.71	40998.49	37634.34	-65827.01	109126.12

Read Me

S Curve

Print

Exit

- ▶ The project duration of maximum of 24 months is allowed at a time. Note that Cash Flow / Material / Men distribution is entirely dependent on Gantt Chart. If you prepare a Bar Chart of 12 months duration & only few required activities then Cash Flow / Material / Men distribution will correspond to 12 months duration & those selected activities.
- ▶ Lastly Click on the " S CURVE " button. The " S CURVE " will be displayed as under.

S CURVE



Organization : ABC CONSULTANTS

Client : M/S Real Estate Corp.

Project : G + 1 Storey Bldg.

Project No : 4305

Building / Structure : B1

Date : 12/8/05

EXIT

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▶ Click EXIT " 3 " times to return to main menu.

STEP NO. 12 IS OVER.

OTHER SOFTWARES:

SUPER CIVIL CD - Single Point Solution To Your Civil Engineering Needs

SUPER RATE ANALYSIS - Rate Analysis Of 1299 Nos. Of Civil Engineering Items

2D FRAME ANALYSIS - Discover The Beauty Of Structural Analysis

R C F - A Software for Analysis, Design, Estimation & Costing of RCC Floors

S S F - Analysis, Design, Estimation & Costing of Steel Buildings, revised as per IS 800 : 2007

SUPER REAL VALUATION - A Software For Immovable Properties

ROADS - Pavement Design & Rate Analysis Of Road Items

ROAD ESTIMATE - Quantity Estimation & Cost, Project Control For Road

ELECTRIC COST - Costing, Project Control & MDS For Electrical Projects

HVAC COST - Costing, Project Control & Design For HVAC Engineers

BILLING JI - A Database Management Software For General Billing

RA BILL - A Database Management Software For Item Rate Contract Billing

BUILDERS BILL - A Database Management Software for Billing of Lump sum Contracts

BID ANALYSIS - A Software For Technical & Commercial Tender Analysis

RAFT FOUNDATION - Analysis, Design, Estimation, Costing & Drawing of RCC Raft Foundation

STEEL_2007 - Limit State design of Steel as per IS 800 : 2007

SITE CONTROL - A Management Software for Resource Control At Site.

DESIGN & DRAWING CONTROL - A DBM Software for Control of Design & Drawing Manhours.

COMPOSITE - A Software for Analysis, Design, Costing & Drawing of Composite Floor Buildings

INSTA COST - A Software for Estimating Project Cost & Tender SOQ Instantly

FLAT SLAB - A Software for Analysis, Design, Estimation, Costing & Drawings of Flat Slabs

FLAT RAFT - A Software for Analysis, Design, Estimation, Costing & Drawings of Rigid RCC Flat Rafts

OPTIMIZE BAR - A Software for Optimization of Reinforcements from Existing Bar Bending Schedule

OPTIMIZE STEEL - A Software for Optimization of Steel Sections from Existing Fabrication Drawing

AutoQty - A Software for Automatic Quantity & Cost Estimation from AutoCAD Drawings