



# ***Estimator***<sup>TM</sup> **2.0**

## **User's Guide**

Quantity and Cost Estimating Software for Architects and Builders.

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## Introduction

*Estimator* is a Quantity and Cost Estimating Software for Civil Engineers, Architects, Builders and Estimators. With *Estimator* you can prepare Detailed, Abstract, Material and Labour estimates of residential and commercial buildings. You can also prepare Tender Document, Measurement Book, Cost Abstract, Labour and Contractor's Bill, Purchase Order and other site management documents. *Estimator* 2.0 is available for the Microsoft Windows 9x/2000/ME/NT/XP operating environments.

## Features

- Detailed and Abstract Estimates
- Material Estimates
- Labour Estimates
- Rate Analysis based on material and labour consumption.
- Measurement Book
- Contractor's Billing
- Purchase of Materials
- 160+ Forms
- Over 80 Reports
- 83 Tables (23 Masters and 60 Transaction Tables)
- Works with Detailed Description, Market Rate, Material and Labour Rate are already stored.
- Works classified in 12+ Categories/Sub Heads.
- Provision for editing Rates and Specifications for individual Projects.
- Provision to change Measurements and Units.
- Master Tables provided for Project Types, Concretes, Openings, Frames, Shutters, Floor Finishing, Materials, Labours and Floors.

## Requirements

- Windows 9x/2000/ME/NT/XP
- Inkjet/Dot matrix Printer

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## How to Contact SoftLogic Innovations Pvt Ltd

If you have any questions or comments regarding *Estimator*, SoftLogic Innovations Pvt. Ltd. can be reached as follows:

- ◆ Telephone – 91-484-3944369, 2535022 between 9 a.m. and 5 p.m. (IST), Monday through Friday, excluding holidays.
  - ◆ Web – <http://www.softlogicinnovations.com> (This site contains information on *Estimator*.)
  - ◆ Email – [info@softlogicinnovations.com](mailto:info@softlogicinnovations.com)
  - ◆ Mail – Friendship Nagar, South Janatha Road, Palarivattom, Kochi
- The latest revision of *Estimator* will always be available on request (for Windows 9x/2000/ME/NT/XP).

Feel free to contribute your ideas regarding desired additional product features and functionality. Even if you do not choose to register *Estimator*, your opinions are greatly appreciated.

When contacting SoftLogic Innovations Pvt. Ltd. to report a bug or problem, supply information that is as specific as possible, especially the steps to reproduce the problem.

## Registration

Included in the registration fee is a copy of the latest version of *Estimator*, *Estimator* 2.0 User's Guide, free technical support for one (1) year or 15 support incidents (whichever comes first), notification of new and updated products, low cost minor upgrades, and substantially reduced prices for major upgrades. In addition, you receive a registration key that represents your serial number and the number of licensed users.

The evaluation version of *Estimator* allows an unlimited number of computers to access the data at the same time to properly test *Estimator* on your network. However, once registered you must purchase one (1) *Estimator* license for each computer on which it is installed. *Estimator* limits concurrent access to the number of purchased licenses.

You MAY NOT distribute the registration key provided by SoftLogic Innovations Pvt. Ltd. or use a registration key provided by a source other than SoftLogic Innovations Pvt. Ltd. or an authorized reseller. Doing so violates the license agreement, is in violation of applicable copyright laws, and may result in the termination of your license(s).

## Technical Support

Technical support is available by contacting SoftLogic Innovations Pvt. Ltd. Refer to the section '*How to Contact us*', earlier in this chapter. Technical support is limited to one (1) year from the date of purchase or 15 support incidents (whichever comes first).

### What IS Included

- ◆ Installation assistance
- ◆ Program questions and inquiries
- ◆ Problem resolution
- ◆ General help
- ◆ Questions regarding data structures

### What IS NOT Included

- ◆ Training on *Estimator*
- ◆ Training on SQL or the SQL Power Query
- ◆ Training on Data Reports
- ◆ Training on Windows 9x/2000/ME/NT/XP
- ◆ Customization of any portion of the package
- ◆ Hardware setup and use
- ◆ Data repair and/or retrieval

These are partial lists and are subject to change without notice. (It is impossible to list every support situation that may arise.) All support is based on the judgment and sole discretion of SoftLogic Innovations Pvt. Ltd. and its employees. SoftLogic Innovations Pvt. Ltd. reserves the right to refuse technical support to rude or abusive users.

## Installation

It is recommended that the entire *Estimator User's Guide* be read prior to installation and usage.

### Installing *Estimator*

Once the program and data have been backed up, simply follow the instructions below.

1. Insert the CD into the CD-ROM drive.
2. Double Click the My Computer icon and select the CD Drive.
3. Double Click on CD Drive and run Setup.exe.
4. Enter the information as requested to indicate where to install *Estimator* click OK to accept the defaults.
5. When returned to the Desktop, the installation is complete.

## Getting Around *Estimator*

Getting around *Estimator* requires basic knowledge of the Windows operating environment. If you are unfamiliar with any of the following terminology (i.e., 'clicking' and 'drop down list box') refer to your Windows manual for more details. Many functions in *Estimator* are used in several windows and are fairly identical. As such, these functions

are discussed in this section. When these functions are identified later in this *Estimator User's Guide*, you are referenced to this section for more information.

## Selecting Items and Moving Around Windows

Menus, menu items, and functions in *Estimator* can be selected in three different ways.

1. **Hot Keys** – Each menu, menu selection, function, and most fields contain a **hot letter** (a letter in the word that is underlined). To access menus, functions, and fields, press and hold the **Alt** key and then press the **Hot Key**. To access menu items simply press the **Hot Key**.

2. **Mouse** – Single clicking on any menu, menu selection, or function will give you access to that item. In addition, single clicking in any window field will select that field for editing.

3. **Keyboard** – To select a menu, press **F10** and use the left and right arrow keys to highlight menus and press Enter, or the down arrow key, to open menus. Use the up and down arrow keys to highlight menu selections and press Enter to select.

Once inside a function window, the **Tab** key can be used to move forward between fields and **Shift-Tab** to move backwards through the fields. (Press and hold the **Shift** key and then press the **Tab** key while still holding the **Shift** key down.) **NOTE:** Pressing **Enter** inside a function window will **save** any changes and **exit** the function.

## Window Tabs

Several windows in *Estimator* have tab sections. These tabs look similar to manila file folder tabs (found in most filing cabinets). These tabs represent different sections for entering information and can be accessed by the same methods mentioned above: Hot Keys, mouse, and keyboard (Tab/Shift-Tab).

## Drop Down List Boxes

All drop down list boxes within *Estimator* are selection lists.

There are two methods for accessing drop down list box information.

1. Click on the down arrow to the right of the field. Once the drop down list box is open, single click on the item you want, or highlight the item you want, and press Enter. Use the up and down arrow keys to scroll for more items if necessary.
2. Press down arrow key when the cursor is in the field. This displays the next item on the list. Repeat this until you locate the item you want.
3. Type a letter. First item begins with the letter typed is highlighted. Continue typing till you reach the required item.

**NOTE:** When drop down list boxes are open they are in search mode. As you type in information the list box scrolls to the closest match. As such, if the drop down list box is one that will store your text, anything typed while in search mode WILL NOT be saved or added to the list.

## Check Boxes

*Estimator* uses check boxes to indicate true or false. A check box looks like  when true and  when false. To toggle between true and false, use the Tab key to highlight the check box, and then press the Space bar. You can also click a check box with the mouse to either select or deselect it.

## Radio Boxes

*Estimator* uses radio boxes to indicate either/or instances. A radio box is a group of diamond or circular shaped boxes (radio buttons) in which only one of the groups can be selected. When a radio button is selected, it has a ● in it. When it is not selected, it is empty. To change the status of a radio button use the Tab key to highlight the radio button field, and then press the arrow keys as needed. You can also click on a radio button with the mouse to select it.

## Pop Up Menu

All the grids in *Estimator* have popup menus. Pop up menus may provide access to the functions on the screen from which the pop up menu is opened, as well as access to functions that are not available from the window menus and buttons.



There are two ways to access pop up menus.

1. Click on the grid using the mouse.
2. Press the Hot key on the keyboard.

**TIP:** Certain windows have functions on the pop up menu that are **line item specific**. The line item that is highlighted when the pop up menu is accessed is the item that can be changed using these functions. If you want to edit a different item, close the pop up menu and click that **item** to access the pop up menu again.

## Saving and Cancelling

Once inside any function window you can save the work you have done by pressing **Enter** at anytime, by tabbing over to **Save** and pressing **Enter**, or by clicking **Save**. In some instances, pressing **Enter** does not work and you have to use one of the other two options.)

If you want to exit any function without saving the information press the **Esc** key or click **Exit**. In some instances a Confirmation window appears to confirm that you want to cancel the function; press Enter to cancel and return to the Main menu.

## Editing

To edit fields inside a function window simply select the field you want to change. This can be done by tabbing to the desired field, clicking on it with the mouse, highlighting the input field by dragging the mouse, or using the arrow keys.

If the data inside the field is highlighted, simply type over the information and the old data will automatically be deleted and replaced. If the cursor is in the field, but the data is not highlighted, first delete the old information (using the Delete key) and then input the new.

## Printing Reports

All the reports are displayed on the monitor. At the top and bottom of the window there are several icons. These icons can be used to scroll through the pages of multiple page reports, print or export the output, and shrink or enlarge the output. To close the window press Alt-F4 or double-click on the control box in the upper left-hand corner of the window with the mouse.

**Printer** – Top left button directs the output to the printer. Select the printer to which you want to print. (*Estimator* displays all printers setup under Windows. As such, there is no need to setup printers from inside *Estimator*. If the printer you want to use is not displayed, simply install it through Windows. Refer to your Windows manual for instructions on installing printers.)

**Copies** – Enter the number of copies you want printed.

**All Pages/Pages** – Indicates whether all pages or the selected pages are printed.

When all the information is correct, press **Enter** to begin printing or press **Esc** to cancel the print job.

### **Exiting *Estimator***

There are three ways to exit *Estimator*. The first is by clicking the control bar in the upper left-hand corner. The second is by pressing **Alt-F4**. You must be at the Main menu for these first two methods to work. The third is by selecting **Exit** from the menu.

### ***Estimator* Function Key Reference**

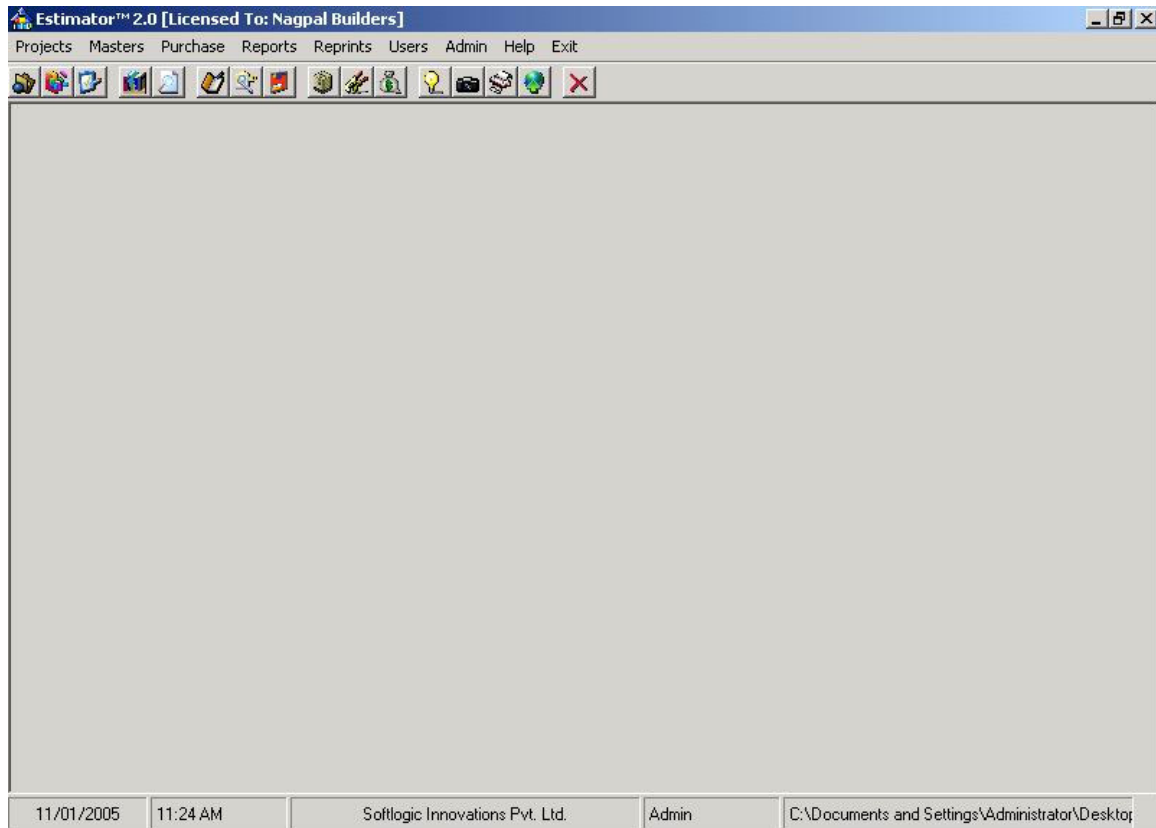
Moving forward between fields	Tab
Moving backward between fields	Shift-Tab
Saving Screen	Enter/Alt-S
Exiting Screen	Esc/Alt-X

## **Getting Started**

### **Starting *Estimator***

1. Click on the Start button and select Programs.
2. Click on the *Estimator* program group.
3. Click on the *Estimator* icon.

A **login** dialog will appear. The default user name is 'ADMIN' and password is '123'. After successful login the **Estimator** main screen will appear.



## Main Menu

The functions in *Estimator* are grouped into several sections, each of which corresponds to a main menu selection. These sections are also referred to as menus:

**Projects** menu – lists the functions required for all transactions.

**Masters** menu – lists the functions required to manage master tables.

**Purchase** menu – lists the functions required to manage material handling.

**Reports** menu – lists the reports required for all sections.

**Reprints** menu – lists the functions required for all reprints.

**Users** menu – lists the functions that are specific to user.

**Aadmin** menu – lists the functions that are specific to administrative purposes.

**Help** menu –about SoftLogic Innovations Pvt. Ltd., User Guide, and Demo etc.

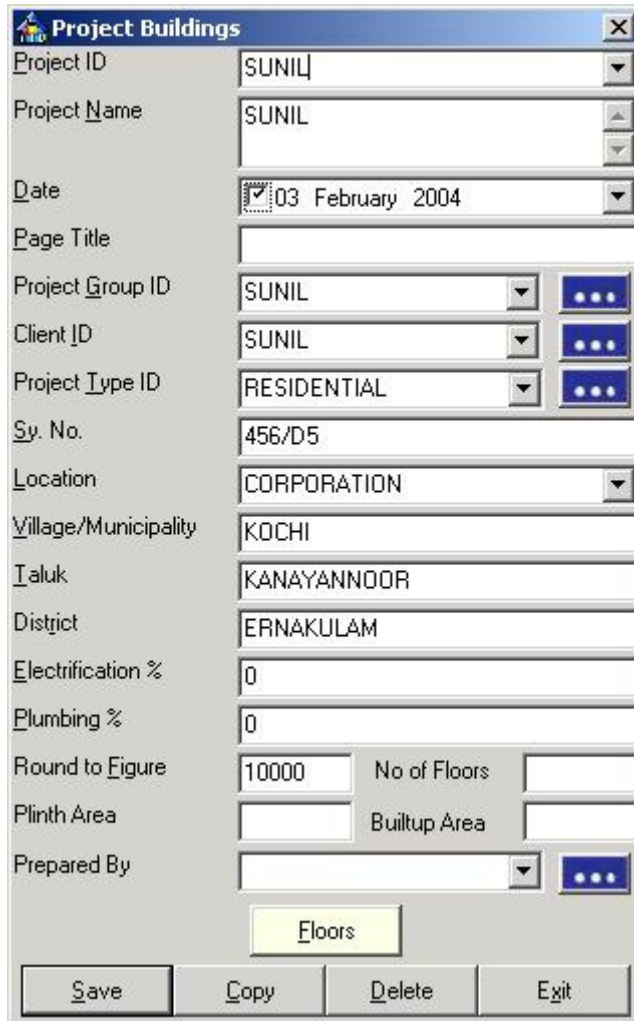
**Exit** menu –to exit *Estimator*.

# 1. Project Functions

This section covers in detail all functions available under the *Estimator* Project menu.

## 1. Building Information

After selecting a Project, Buildings the Building Information Entry window appears.



The screenshot shows a window titled "Project Buildings" with the following fields and values:

Project ID	SUNIL
Project Name	SUNIL
Date	<input checked="" type="checkbox"/> 03 February 2004
Page Title	
Project Group ID	SUNIL
Client ID	SUNIL
Project Type ID	RESIDENTIAL
Sy. No.	456/D5
Location	CORPORATION
Village/Municipality	KOCHI
Taluk	KANAYANNOOR
District	ERNAKULAM
Electrification %	0
Plumbing %	0
Round to Figure	10000
No of Floors	
Plinth Area	
Builtup Area	
Prepared By	

Buttons at the bottom: Save, Copy, Delete, Exit. A "Floors" button is also present above the "No of Floors" field.

This screen is used to enter the general information of the Project.

**Project ID:** To create a new Project, give a new Project ID. The Project ID should be unique.

**Project Name:** Give a description about the Project.

**Date:** Give the current date.

**Customer ID:** We can select the customer from the list. To enter a new customer, click the '...' button. The customer Information window will appear. Enter new Customer ID, Contact Name, Address, etc there.

**Project Type ID:** Select Residential or Commercial from the list.

**Sy. No:** Enter the Survey No

**Location:** Select Corporation, Municipality or Panchayath from the list.

**Village/Municipality:** Enter the name of the Municipality/Corporation.

**Thaluk:** Enter the name of the Thaluk.

**District:** Enter the name of the District.

**Electrification %:** Enter the % of amount to be added for Electrification Works.

**Plumbing %:** Enter the % of amount to be added for Sanitary Works.

**Round to Figure:** Enter the figure to which the total amount is rounded. (E.g. 10,000)

Press **Enter** or press 'Save' button when all the information is correct.

## 2. Floor Information

Click the 'Floors' button. The Project Floors Information window will appear.

Breadths		Double Bricked	Single Bricked
B1 - WALL		0.2	0.11
B2 - BASEMENT		0.45	0.3
B3 - FOUNDATION		0.75	0.3
B4 - PCC		0.75	0.3
B5 - EARTH WORK		0.75	0.3

Heights		Double Bricked	Single Bricked
H1-WALL		3	3
H2-BASEMENT		0.3	0.3
H3-FOUNDATION		0.6	0.6
H4-PCC		0.05	0.15
H5 - EARTH WORK		0.75	0.75

Lengths (Double Bricked)  
Centre Line: 94.29    Calculate    I Junctions: 2

Lengths (Single Bricked)  
Sub Centre Line: 14.4    Calculate    T Junctions: 2    1    Outer Walls: 20

Electrification Points per Room: 2.5  
Plumbing Points per Floor: 0

Buttons: Save, Details, Delete, Exit

This screen is used to enter the Breadth, Height and Length (Centre Line) of Walls, Foundation, Basement and Earth Works. The dimensions of main and partition walls are separately recorded. The electrification and plumbing points are specified if they are calculated point wise.

**Breadths-Double bricked:** Breadths of earthwork, foundation, basement and wall for double-bricked walls.

**Breadths-Single bricked:** Breadths of earthwork, foundation, basement and wall for single-bricked walls.

**Height-Double bricked:** Heights of earthwork, foundation, basement and wall for double-bricked walls.

**Height-Single bricked:** Heights of earthwork, foundation, basement and wall for single-bricked walls.

**Centre Line:** Total centre-to-centre length of double-bricked walls.

**Calculate:** Click this button to go to the centreline calculation window.

**Junctions:** No. of 'T' junctions on walls.

**Sub Centre Line:** Total centre-to-centre length of single-bricked walls.

**Calculate:** Click this button to go to the centreline calculation window.

**Junctions:** No. of 'T' junctions on partition walls with main wall and partition wall are entered separately.

**Main Length:** Lengths of earth work, foundation, basement and wall for double-bricked walls which are same as Centre Line-No. of 'T' Junctions \* Breadth of wall/2.

**Partition Length:** Lengths of earth work, foundation, basement and wall for single-bricked walls which are same as Sub Centre Line-No. of 'T' Junctions \* Breadth of wall/2.

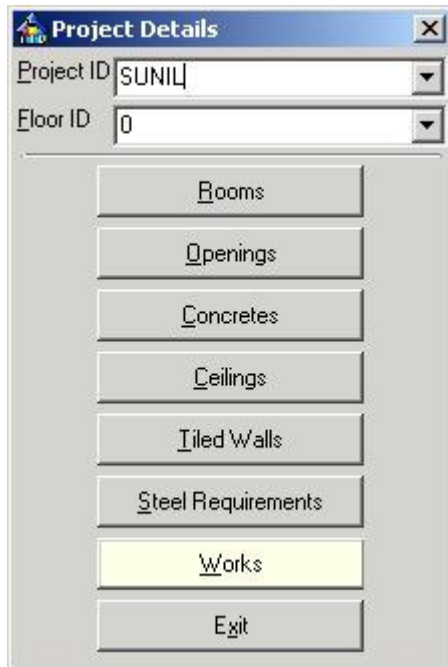
**Electrification Points per Room:** If this is calculated as points, mention here.

**Plumbing Points per Room:** If this is calculated as points mention here.

Press Enter or press 'Save' button when all the information is correct.

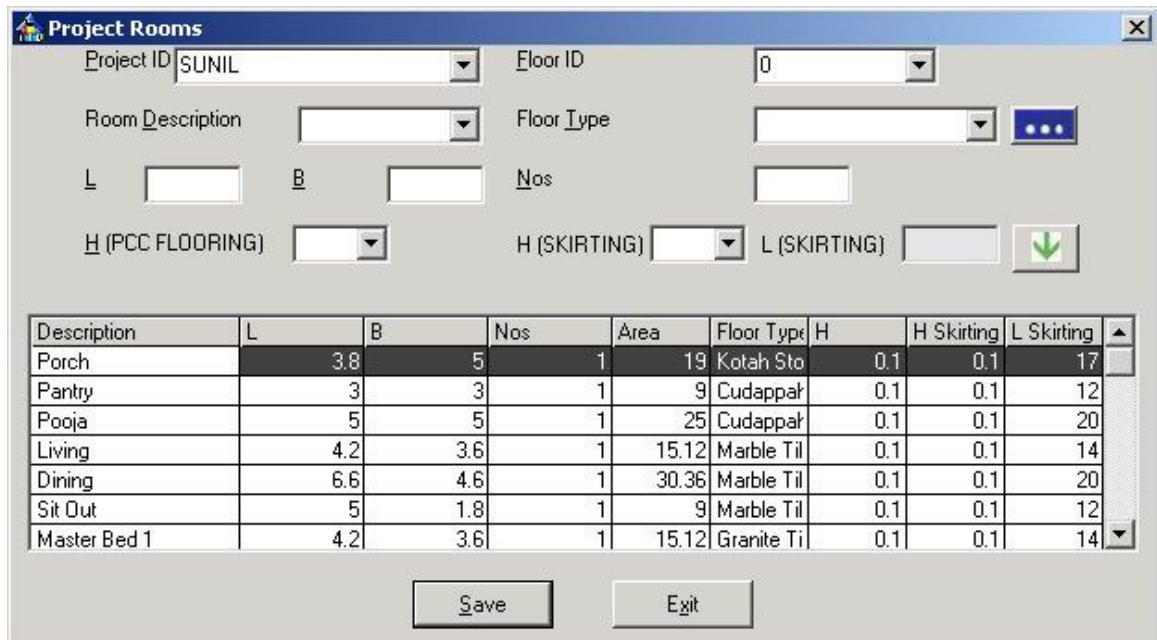
### 3. Project Details

Click the 'Details' button. The Project Details Information window will appear.



#### 3A. Project Rooms

Click the 'Rooms' button. The Project Rooms Information window will appear.



Description	L	B	Nos	Area	Floor Type	H	H Skirting	L Skirting
Porch	3.8	5	1	19	Kotah Sto	0.1	0.1	17
Pantry	3	3	1	9	Cudappak	0.1	0.1	12
Pooja	5	5	1	25	Cudappak	0.1	0.1	20
Living	4.2	3.6	1	15.12	Marble Til	0.1	0.1	14
Dining	6.6	4.6	1	30.36	Marble Til	0.1	0.1	20
Sit Out	5	1.8	1	9	Marble Til	0.1	0.1	12
Master Bed 1	4.2	3.6	1	15.12	Granite Ti	0.1	0.1	14

Here we can specify the room dimensions and floor finishing of each room. Click on the down arrow button after entering each room to add it to the grid. We can edit, update and delete the data added using the popup menu. To select a row, just click on it.

Press Enter or press 'Save' button when all the information is correct. Click 'Exit' to exit from this screen and return to Project Details.

### 3B. Project Openings

Click the 'Openings' button. The Project Openings Information window will appear.

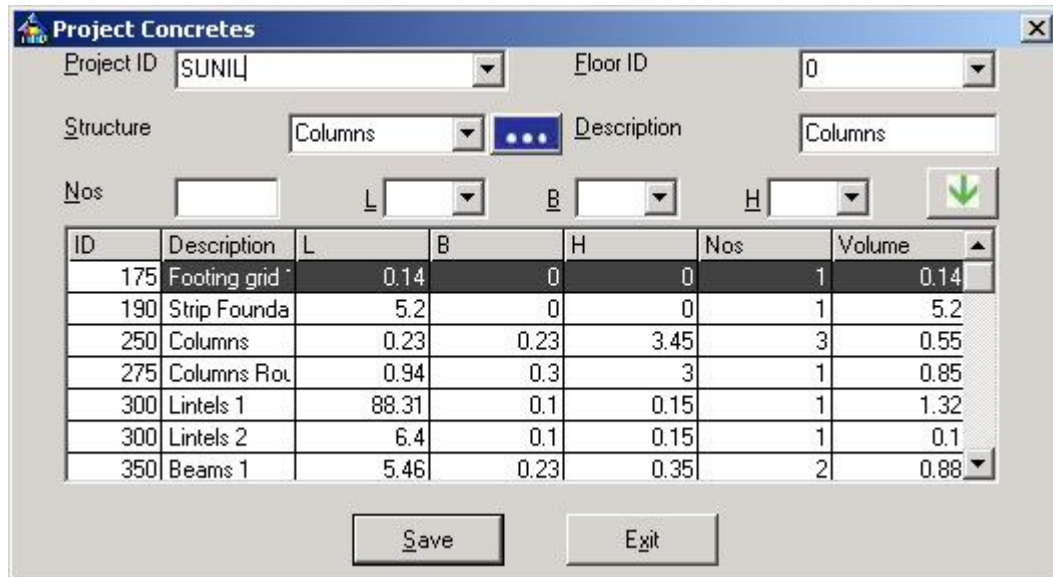
ID	Description	L	B	H	Nos	Area	Volume	FL	FB	FH	Frame	Shutter
1	DD	1.1	0.23	2.1	1	2.31	0.53	6.6	0.15	0.1	Wood	Wood Panelled
2	D	0.9	0.23	2.1	4	1.74	1.74	5.1	0.1	0.06	Wood	Wood Panelled
3	D1	0.8	0.23	2.1	2	3.36	0.77	5	0.1	0.06	Wood	Wood Panelled
11	AD	1.2	0.23	1.5	3	7.1	1.63	0	0	0	None	None
101	W1	0.6	0.23	1.8	3	3.24	0.75	4.8	0.1	0.06	Wood	Wood Glazed
103	W3	1.74	0.23	1.5	3	7.83	1.8	9.48	0.1	0.06	Wood	Wood Glazed
112	FW2	1.18	0.23	1.8	2	4.25	0.98	7.76	0.1	0.06	Wood	Wood Glazed

Here we can specify the opening dimensions, frame types and shutter types. This data is used for calculating the quantity for deduction, frames, shutters, painting, etc. Click on the down arrow button after entering each opening to add it to the grid. We can edit, update and delete the data added using the popup menu. To select a row, just click on it.

Press **Enter** or press 'Save' button when all the information is correct. Click 'Exit' to exit from this screen and return to Project Details.

### 3C. Project Concretes

Click the 'Concretes' button. The Project Concretes Information window will appear.



The screenshot shows the 'Project Concretes' window. At the top, there are dropdown menus for 'Project ID' (SUNIL) and 'Floor ID' (0). Below these are 'Structure' (Columns) and 'Description' (Columns) dropdowns. There are input fields for 'Nos', 'L', 'B', and 'H', each with a dropdown arrow. A green arrow button is to the right of the 'H' field. Below the input fields is a table with the following data:

ID	Description	L	B	H	Nos	Volume
175	Footing grid	0.14	0	0	1	0.14
190	Strip Founda	5.2	0	0	1	5.2
250	Columns	0.23	0.23	3.45	3	0.55
275	Columns Rot	0.94	0.3	3	1	0.85
300	Lintels 1	88.31	0.1	0.15	1	1.32
300	Lintels 2	6.4	0.1	0.15	1	0.1
350	Beams 1	5.46	0.23	0.35	2	0.88

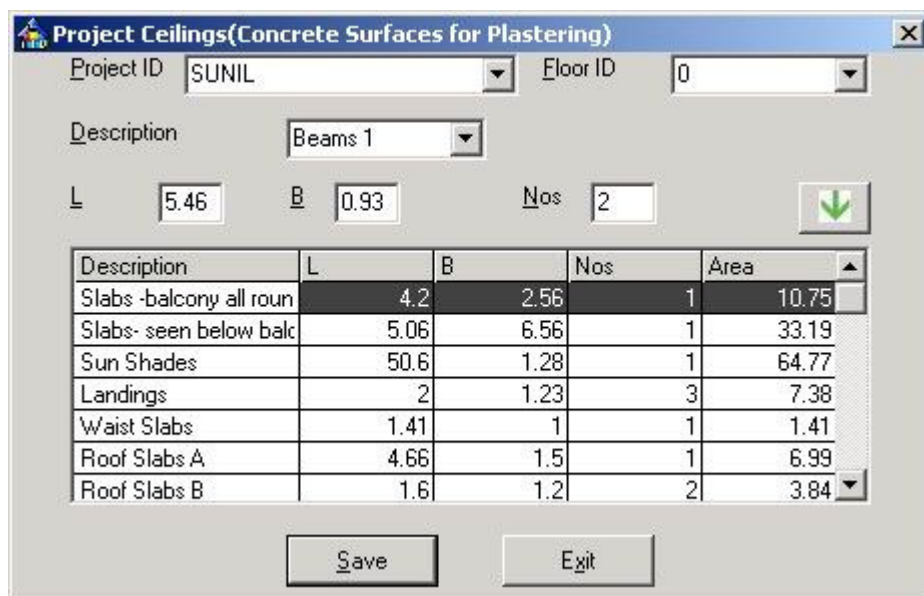
At the bottom of the window are 'Save' and 'Exit' buttons.

Here we can specify the rcc dimensions. Click on the down arrow button after entering each concretes to add it to the grid. We can edit, update and delete the data added using the popup menu. To select a row, just click on it.

Press Enter or press 'Save' button when all the information is correct. Click 'Exit' to exit from this screen and return to Project Details.

### 3D. Project Ceilings

Click the 'Ceilings' button. The Project Ceilings Information window will appear.



The screenshot shows the 'Project Ceilings(Concrete Surfaces for Plastering)' window. At the top, there are dropdown menus for 'Project ID' (SUNIL) and 'Floor ID' (0). Below these is a 'Description' dropdown (Beams 1). There are input fields for 'L' (5.46), 'B' (0.93), and 'Nos' (2), each with a dropdown arrow. A green arrow button is to the right of the 'Nos' field. Below the input fields is a table with the following data:

Description	L	B	Nos	Area
Slabs -balcony all roun	4.2	2.56	1	10.75
Slabs- seen below balt	5.06	6.56	1	33.19
Sun Shades	50.6	1.28	1	64.77
Landings	2	1.23	3	7.38
Waist Slabs	1.41	1	1	1.41
Roof Slabs A	4.66	1.5	1	6.99
Roof Slabs B	1.6	1.2	2	3.84

At the bottom of the window are 'Save' and 'Exit' buttons.

Here we can specify the ceiling dimensions. This screen is used for recording the dimensions of all concrete surfaces. Click on the down arrow button after entering each concretes to add it to the grid. We can edit, update and delete the data added using the popup menu. To select a row, just click on it.

Press Enter or press 'Save' button when all the information is correct. Click 'Exit' to exit from this screen and return to Project Details.

### 3E. Project Tiled Walls

Click the 'Tiled Walls' button. The Project Tiled Walls Information window will appear.

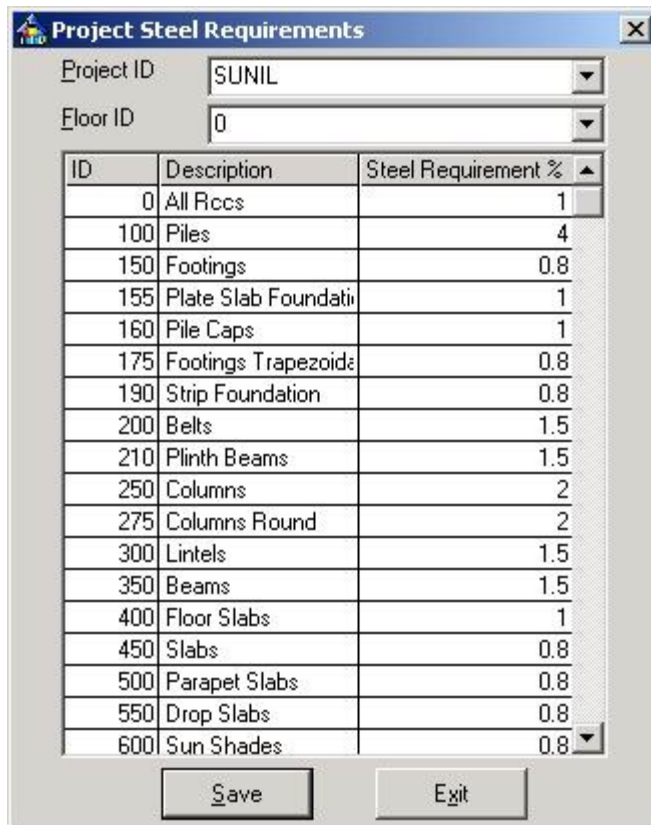
Description	L	H	Nos	Area	Floor Type
Steps	1	0.45	18	8.1	Marble Tiles
WC Walls 1	2.4	1.8	4	17.28	Ceramic Tiles
WC Walls 2	2	1.8	4	14.4	Ceramic Tiles
Walls of kitchen	7.5	1.2	1	9	Granite Tiles
Walls of Work Area	4.5	1.2	1	5.4	Granite Tiles

Here we can specify the dimensions of all tiled surfaces other than floors. Click on the down arrow button after entering each concretes to add it to the grid. We can edit, update and delete the data added using the popup menu. To select a row, just click on it.

Press Enter or press 'Save' button when all the information is correct. Click 'Exit' to exit from this screen and return to Project Details.

### 3F. Project Steel Requirements

Click the 'Steel Requirements' button. The Project Steel Requirement Information window will appear.



ID	Description	Steel Requirement %
0	All Rccs	1
100	Piles	4
150	Footings	0.8
155	Plate Slab Foundati	1
160	Pile Caps	1
175	Footings Trapezoida	0.8
190	Strip Foundation	0.8
200	Belts	1.5
210	Plinth Beams	1.5
250	Columns	2
275	Columns Round	2
300	Lintels	1.5
350	Beams	1.5
400	Floor Slabs	1
450	Slabs	0.8
500	Parapet Slabs	0.8
550	Drop Slabs	0.8
600	Sun Shades	0.8

The defaults as specified in the master table will be showed here. We can change the figures. The steel requirement is specified in % of m<sup>3</sup>.ie, if the steel requirement for beams is 1% of r.c.c., then steel requirement= $.01 * 7850$ (weight of steel per m<sup>3</sup>) =78.50 Kg.

#### 4. Project Works

Click the 'Works' button. The Project Works Information window will appear.

ID	Work	Quantity	Unit	Market Rate	Amount
1020	EARTH WORKS EXCAVATION	55.76	Cu.M.	102.00	5687.52
7020	EARTH WORKS FILLING PLINTH USING EARTH OUTSIDE	44.53	Cu.M.	169.00	7525.57
3020	PCC FOUNDATION 1:4:8	4.14	Cu.M.	2676.00	11078.64
21060	PCC FLOORING 1:4:8 CuM	17.6	Cu.M.	2736.00	48153.60
4030	DRM FOUNDATION	44.6	Cu.M.	865.00	38579.00
5010	RRM BASEMENT CM 1:6	13.93	Cu.M.	1498.00	20867.14
12300	RCC LINTELS M15	1.42	Cu.M.	3605.00	5119.10
12600	RCC SUN SHADES M15	2.43	Cu.M.	3625.00	8808.75
12800	RCC ROOF SLABS M15	16.21	Cu.M.	3625.00	58761.25
13250	RCC COLUMNS M20	0.55	Cu.M.	3828.00	2105.40
13275	RCC COLUMNS ROUND M20	0.85	Cu.M.	3400.00	2890.00
35000	STEEL REQUIREMENTS	1812.09	Kg	30.00	54362.70
9050	BRICK WORKS CM 1:6	48.86	Cu.M.	2278.00	111303.08
22003	FLOOR FINISHING CERAMIC TILES	9.12	Sq.M.	600.00	5472.00

Here we can select the required works. Click on the down arrow button after selecting all the works to add it to the grid. The dimensions for each work are automatically saved using the data we have already entered. We can edit, update and delete the data added using the popup menu. To select a row, just click on it. If we select the edit option the work details screen will appear.

**Work Details**

Work: BRICK WORKS CM 1:6  
 First class brick work masonry in C. M. 1:6 (1 cement 6 coarse sand) with approved good quality country burnt bricks of compressive strength 35 kg/m2 of

Rate 1: 1819.00    Rate 2: 1902.00    Rate 3: 1985.00  
 Market Rate: 2278.00    Labour Rate: 300.00

Segment: [ ]    Description: [ ]

Nos: [ ]    L: [ ]    B: [ ]    H: [ ]    [↓]

Description	Nos	L	B	H	Quantity
Main Walls	1.00	94.09	0.20	3.00	56.45
Partition Walls	1.00	14.24	0.11	3.00	4.70

61.15

**DEDUCTIONS**

Segment ID: [ ]    Description: [ ]

Nos: [ ]    L: [ ]    B: [ ]    H: [ ]    [↓]

Description	Nos	L	B	H	Quantity
DD	1.00	1.10	0.23	2.10	0.53
D	4.00	0.90	0.23	2.10	1.74
D1	2.00	0.80	0.23	2.10	0.77

12.29

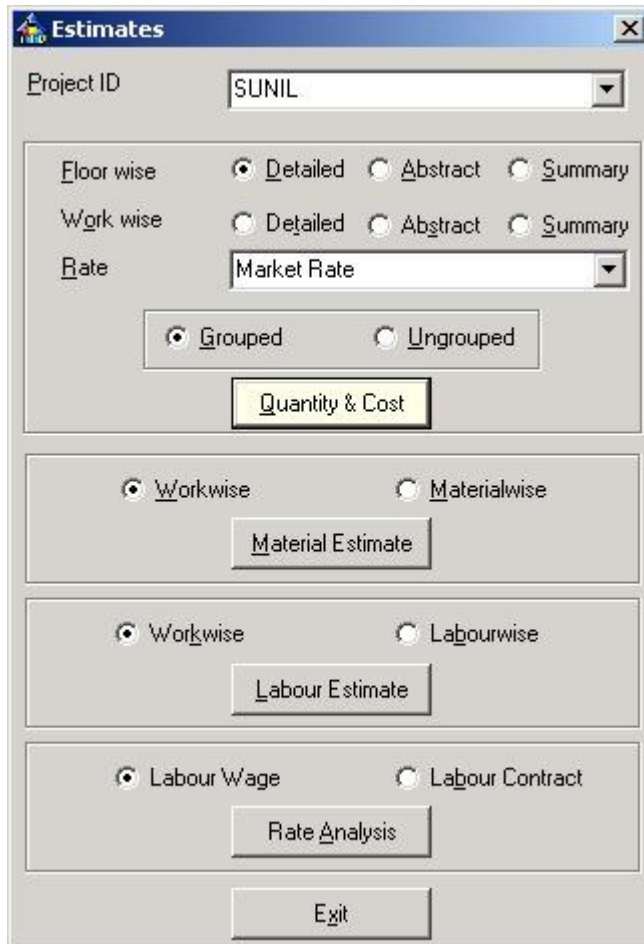
48.86

[ Save ]    [ Exit ]

We can change the rates, description and dimensions here. To edit a row, first double click on it to delete it. Then add the new data using the down arrow button. Remember to **save** if any alterations are made. Click **'Exit'** to exit from this screen and return to Project Works.

## 5. Estimates

Click the 'Estimates' button. The Estimates Information window will appear.



The screenshot shows a window titled 'Estimates' with a close button in the top right corner. The window contains the following elements:

- Project ID:** A dropdown menu with 'SUNIL' selected.
- Floor wise:** Radio buttons for 'Detailed' (selected), 'Abstract', and 'Summary'.
- Work wise:** Radio buttons for 'Detailed', 'Abstract', and 'Summary'.
- Rate:** A dropdown menu with 'Market Rate' selected.
- Grouping:** Radio buttons for 'Grouped' (selected) and 'Ungrouped'.
- Buttons:** A 'Quantity & Cost' button.
- Workwise vs Materialwise:** Radio buttons for 'Workwise' (selected) and 'Materialwise'. Below is a 'Material Estimate' button.
- Workwise vs Labourwise:** Radio buttons for 'Workwise' (selected) and 'Labourwise'. Below is a 'Labour Estimate' button.
- Labour Wage vs Labour Contract:** Radio buttons for 'Labour Wage' (selected) and 'Labour Contract'. Below is a 'Rate Analysis' button.
- Exit:** An 'Exit' button at the bottom.

The estimate is available in different formats

- **Detailed**
  - Floor wise
  - Work wise
- **Abstract**
  - Work wise
  - Floor wise

All the four formats are available with rates.

1. Without Rate
2. Market Rate
3. Material Rate, Labour Rate, etc.

Select the required format and rate. Click the 'Quantity and Cost' button to see the report.

Click the top left button to print reports.

Click the top right button close reports.

Further three more estimates are available

1. Material Estimate
2. Labour Estimate
3. Material and Labour Estimate

These reports can be used for Rate Analysis.

Click 'Exit' to exit from this screen and return to Project Works.

Close all the screens. We can open any of these screens directly from the Projects menu and edit them.

## 6. Measurements

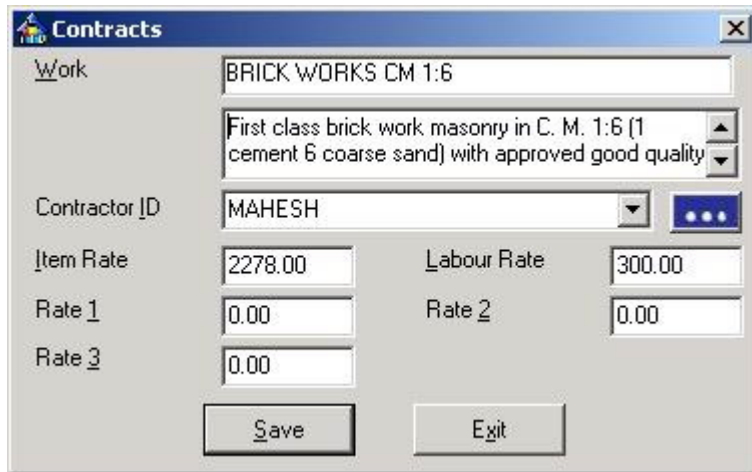
Select 'Measurements'. The Project Works Information window will appear.

ID	Work	Quantity	Unit	Item Rate	Amount	Qty Estimated
13275	RCC COLUMNS ROUND M20	0.85	Cu.M.	3400.00	2890.00	0.85
35000	STEEL REQUIREMENTS	1812.09	Kg	30.00	54362.70	1812.09
9050	BRICK WORKS CM 1:3	48.86	Cu.M.	2278.00	111303.08	48.86
22003	FLOOR FINISH	9.12	Sq.M.	600.00	5472.00	9.12
19001	FRAMES WOOD	1.11	Cu.M.	27000.00	29970.00	1.11
20001	SHUTTERS WOOD	11.28	Sq.M.	1800.00	20304.00	11.28
20005	SHUTTERS WOOD	28.87	Sq.M.	1224.00	35336.88	28.87
16040	PLASTERING 1:4	584.02	Sq.M.	90.00	52561.80	584.02
17030	PLASTERING 1:4	279.58	Sq.M.	74.00	20688.92	279.58
18030	PLASTERING 1:4	162.08	Sq.M.	94.00	15235.52	162.08
27050	PAINTING WALL	584.02	Sq.M.	35.00	20440.70	584.02
28040	PAINTING CEILING	279.58	Sq.M.	35.00	9785.30	279.58

Here we can select the required works. Click on the down arrow button after selecting all the works to add it to the grid. The dimensions for each work are automatically saved with the data we have already entered. We can edit, update and delete the data added using the popup menu. To select a row, just click on it. To get 'Contracts' window, select the particular work from the grid by left-click on it and select the contracts from the popup menu.

### Contracts

This contracts window can be used to select the contractor for each work, which we have selected from the project works-measurements window.



Work	BRICK WORKS CM 1:6	First class brick work masonry in C. M. 1:6 (1 cement 6 coarse sand) with approved good quality	
Contractor ID	MAHESH		
Item Rate	2278.00	Labour Rate	300.00
Rate 1	0.00	Rate 2	0.00
Rate 3	0.00		

Here, we can enter the contractor name, Item rate and Labour rate. Data can be saved by clicking the Save button.


### **Work Details Window**

We get the work details window by selecting the measurements from the pop up menu

**Work Details**

Work: BRICK WORKS CM 1:6  
 First class brick work masonry in C. M. 1:6 (1 cement 6 coarse sand) with approved good quality country burnt bricks of compressive strength 35 kg/m2 of

Date: 11 January 2005 Description:


Nos:  L:  B:  H:  

Date	Description	Nos	L	B	H	Quantity
10/08/2004	Main Walls	1.00	94.09	0.20	3.00	56.45
10/08/2004	Partition Wal	1.00	14.24	0.11	3.00	4.70

61.15

**DEDUCTIONS**

Segment ID:  Description:

Nos:  L:  B:  H:  

Date	Description	Nos	L	B	H	Quantity
10/08/2004	DD	1.00	1.10	0.23	2.10	0.53
10/08/2004	D	4.00	0.90	0.23	2.10	1.74
10/08/2004	D1	2.00	0.80	0.23	2.10	0.77

12.29

48.86

We can change the rates, description and dimensions here. To edit a row, first double click on it to delete its contents. Then add the new data using the down arrow button. Remember to **save** if any alterations are made. Click **'Exit'** to exit from this screen and return to Project Works.

## 7. Measurements and Costs

Click the 'Measurements and Costs' button. The Estimates Information window will appear.

The screenshot shows a software dialog box titled "Measurements and Costs". It features a "Project ID" dropdown menu set to "SUNIL". Below this are three rows of radio button options: "Floor wise" with "Detailed", "Abstract", and "Summary"; "Work wise" with "Detailed", "Abstract", and "Summary"; and "Rate" with a dropdown menu showing "Item Rate". A "Quantity & Cost" button is located below the "Rate" dropdown. The next section has "Workwise" (selected) and "Materialwise" radio buttons, with a "Materials" button below. The following section has "Workwise" (selected) and "Labourwise" radio buttons, with a "Labour" button below. At the bottom are "Rate Analysis" and "Exit" buttons.

The Contract Work Report is available in different formats

- **Detailed**
  - Floor wise
  - Work wise
- **Abstract**
  - Work wise
  - Floor wise

All the four formats are available with rates.

1. Without Rate
2. Market Rate
3. Labour Rate, etc.

Select the required format and rate. Click the 'Quantity and Cost' button to see the report.

Click the top left button to print reports.

Click the top right button close reports.

Further three more estimates are available

1. Material Estimate
2. Labour Estimate
3. Material and Labour Estimate (Rate Analysis)

## 8. Bill-Contracts

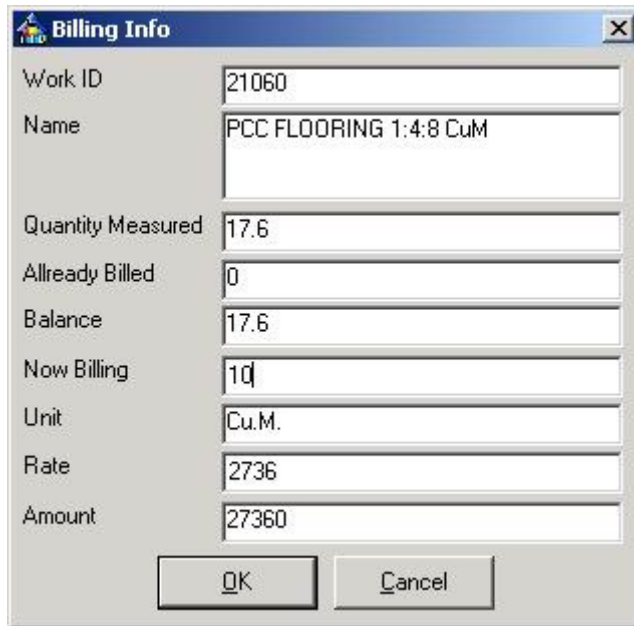
Click the 'Bill-Contracts' button. The Bill window will appear.

ID	Item	Unit	Qty Estim	Qty Meas	Qty Previc	Balance	Qty Billing	Rate	Amt Previous	Amount
1020	EARTH WORKS EXCAVATION	Cu.M.	55.76	55.76	15.52	40.24		85	1396.8	
3020	PCC FOUNDATION 1:4:8	Cu.M.	4.14	4.14	3.68	0.46		2676	1656	
21060	PCC FLOORING	Cu.M.	17.6	17.6	0	17.6		2736	0	
4030	DRM FOUNDATI	Cu.M.	44.6	44.6	0	44.6		865	0	
5010	RRM BASEMENT	Cu.M.	13.93	13.93	0	13.93		1498	0	
12300	RCC LINTELS M	Cu.M.	1.42	1.42	0	1.42		3605	0	
12600	RCC SUN SHADES	Cu.M.	2.43	2.43	0	2.43		3625	0	
12800	RCC ROOF SLABS M15	Cu.M.	16.21	16.21	0	16.21		3625	0	
13250	RCC COLUMNS M20	Cu.M.	0.55	0.55	0	0.55		3828	0	
13275	RCC COLUMNS ROUND M20	Cu.M.	0.85	0.85	0	0.85		3400	0	
35000	STEEL REQUIREMENTS	Kg	1812.09	1812.09	0	1812.09		30	0	
9950	BRICK WORKS CM 1:6	Cu.M.	48.98	48.98	0	48.98		2270	0	
Total									3052.8	0

Using this window we can produce the contractor's bill. When we select the Project ID, Floor ID and Contractor, the work details of that particular contractor will appear on the grid.

### Bill and Bill All

We get the Bill Window by selecting the Bill from the popup menu.



The 'Billing Info' dialog box contains the following fields and values:

Work ID	21060
Name	PCC FLOORING 1:4:8 CuM
Quantity Measured	17.6
Already Billed	0
Balance	17.6
Now Billing	10
Unit	Cu.M.
Rate	2736
Amount	27360

Buttons: OK, Cancel

We enter the Quantity for billing here. If needed to Bill the whole Quantity, select Bill All from the previous popup menu.

## 9. Sub-Contracts

Sub-Contracts functions are same as that of Contracts. Here, we use the sub-contractor's name and his/her work.

## 10. Bill – Additional

Screen for additional bills on labours, unloading etc.

## 11. Comparison

The Comparison window will appear by selecting the Comparisons.



The 'Comparisons' dialog box contains the following fields and values:

Project ID	SUNIL
Compare By	Labour

Buttons: Compare, Exit

We can compare the Estimated Quantity and Actual Quantity by using the Comparison Window. We can compare the

Labour

Material

Labour & Material and Rate

## 2. Master Functions

This section covers in detail all functions available under the *Estimator* Masters menu. All these functions are used to add and edit the relevant information.

### 1. Rate Analysis

This is used to store material and labour coefficients for works.

Rate Analysis
✕

Work:  Cu.M.  
Material:  ⋮  
Qantity:  ↓

ID	Description	Quantity	Unit	Rate	Amount
100	CEMENT	58	Kg	3.6	208.8
101	SAND	0.24	cum	600	144
104	BRICK	500	Nos	2	1000

Labour:  ⋮ Material Cost:   
Qantity:  ↓

ID	Description	Quantity	Unit	Wage	Amount
100020	MASON BRICKS	0.7	day	200	140
110000	HELPER	0.35	day	170	59.5
110010	HELPER FEMALE	0.7	day	150	105

Machines:  ⋮ Labour Charge:   
Qantity:  ↓ Labour Contract:

ID	Description	Quantity	Unit	Rate	Amount

Machine Charge:   
 Net:

## 2. Works

The screenshot shows a software window titled "Works" with a close button (X) in the top right corner. The form contains the following fields and values:

Work ID	9050
Work Name	BRICK WORKS CM 1:6
Work Description	First class brick work masonry in C. M. 1:6 (1 cement 6 coarse sand) with approved good quality country burnt bricks of compressive strength 35 kg/m <sup>2</sup> of standard size
Brief Description	First class brick work masonry in C. M. 1:6.
Cost	1653.00
Rate 1	1818.00
Rate 2	1901.00
Rate 3	1984.00
Market Rate	2278.00
Material Rate	1353.00
Labour Rate	300.00
Unit	Cu.M.
Measurement	LBHD
Work Type	BRICK WORKS

Below the form, there is a checkbox labeled "Discontinued" which is currently unchecked. At the bottom of the window, there are four buttons: "Save", "Rate Analysis", "Delete", and "Exit".

### Adding Records

To add a new record, just enter a new code in the **ID** field and press the tab key. All the input boxes are cleared and we can enter data there. Use **tab** key for forward and **shift tab** for backward navigation. Press **Enter** or **Save** button when all the information is correct. Click '**Exit**' to exit from the screen.

### Editing Records

To edit a record, select the **ID** from the list. If the **ID** is numeric, select the **Name** from the second list and press the tab key. The data is fetched in the relevant boxes. We can edit the data and press **Enter** or **Save** to apply the modifications.

### Available functions

#### 1. Clients

This is used to store Customer/Client Information.

## 2. Contractors

This is for storing the contractor's information.

## 3. Contract Rate

We enter the information about the Contractor's Rate here.

## 4. Suppliers

This window helps us to enter the Information about the suppliers.

## 5. Supplier Rate

Supplier's Rate for each and every product is entered through this window.

## 6. Engineers

Details of an Engineer can be enter through this window

## 7. Project groups

Project group information is entered through this window.

## 8. Project Types.

We enter the Project ID and Description here.

## 9. Floors

This is used to store Floors Information like description, increase in rate, etc.

## 10. Work Types

This is used to store Work Types Information. Works are classified in categories.

## 11. Works

This is used to store Works Information like description, rates, units, measurements, etc. When adding new works, give work id in the specified range so that the measurements will be loaded automatically. E.g.: Interlocking Brick Works as 9084.

### WORK SPECIFICATIONS

WORK ID	WORKS	MEASUREMENT	UNIT
0-999	-	-	-
1000-1999	EARTH WORK EXCAVATION	LBH	Cu.M.
2000-2999	BRICK SOLING	LB	Sq.M.
3000-3999	PCC/SAND FOUNDATION	LBH	Cu.M.
4000-4999	FOUNDATION	LBH	Cu.M.
5000-5999	BASEMENT	LBH	Cu.M.

6000-6999	DAMP PROOF COURSE	LB	Sq.M.
7000-7999	EARTH WORK FILLING	LBH	Cu.M.
8000-8999	PLINTH AREA	LB	Sq.M.
9000-9999	BRICK WORK WALLS	LBHD	Cu.M.
10000-10999	BRICK WORK ARCH	LBH	Cu.M.
11000-11999	PCC	LBH	Cu.M.
12000-14999	RCC	LBH	Sq.M.
15000-15999	PLASTERING BASEMENT	LHD	Sq.M.
16000-16999	PLASTERING WALLS	LHD	Sq.M.
17000-17999	PLASTERING CEILINGS	LB	Sq.M.
18000-18999	PLASTERING ROOF TOP	LB	Sq.M.
19000-19999	FRAMES	LBH	Cu.M.
20000-20999	SHUTTERS	LH	Sq.M.
21000-21999	PCC FLOORING	LBH, LB	Cu.M
22000-22999	FLOOR FINISHING	LB	Sq.M.
23000-23999	WALL FINISHING	LH	Sq.M.
24000-24999	SKIRTING	L	M
25000-25999	PAINTING WOOD /METAL	LH	Sq.M.
26000-26999	PAINTING BASEMENT	LHD	Sq.M.
27000-27999	PAINTING WALLS	LHD	Sq.M.
28000-28999	PAINTING CEILINGS	LB	Sq.M.
29000-29999	PAINTING ROOF TOP	LB	Sq.M.
30000-30999	ANY	-	-
31000-31999	ELECTRIFICATION	POINTS	Points
32000-32999	ELECTRIFICATION	-	-
33000-33999	PLUMBING	POINTS	Points
34000-34999	PLUMBING	-	-
35000-35999	STEEL REQUIREMENTS	Kg	Kg
36000-36999	FORM WORKS	LB	Sq.M.
37000-37999	PILING	L	M
38000-38999	PILING TESTS	Nos.	Nos.
39000-39999	STEEL WORKS	Nos.	Kg.
40000-49999	PAINTING STEEL	LB	Sq.M.
41000-41999	ROOFING	LB	Sq.M.
42000-42999	RIDGE	L	M
43000-43999	GRILLE FOR WINDOWS	LH	Sq.M.
44000-44999	SKIRTING IN Sq.M.	LH	Sq.M
46000-46999	PLASTERING WALLS INT.	LHD	Sq.M
47000-47999	PAINTING WALLS EXT.	LHD	Sq.M
48000-48999	PLASTERING WALLS INT.	LHD	Sq.M
49000-49999	PAINTING WALLS INT.	LHD	Sq.M
50000-50999	DOORS	LH	Sq.M
51000-51999	WINDOWS	LH	Sq.M

52000-52999	PCC/SAND BED	LBH	Cu.M.
-59999	-	-	-
>60000	ANY	-	-

**12. Concretes**

This is used to store Concretes Info.

**13. Openings**

This is used to store Openings Info. like size of opening, frame, etc.

**14. Floor Finishing**

This is used to store Floor Finishing Info.

**15. Frames**

This is used to store Frames Info.

**16. Shutters**

This is used to store Shutters Info. The multiplication factor for painting is specified here.

**17. Materials**

This is used to store Materials Info like rate, weight, etc.

**18. Labours**

This is used to store Labour Info like wages, etc.

**19. Work Materials**

This is used to store material coefficients for works.

**20. Work Labours**

This is used to store labour coefficients for works.

**21. Machines**

This is used to enter the details of Machines, its unit , Rate etc.

**22. Metals**

Here, we can enter the details of Metals using for our work.

# 3. Purchase

## 1. Purchase Request

Purchase Request is the data from the construction site or other work site. We enter the needed materials for the worksite.

ID	Item	Unit	Qty Estimated	Qty Previous	Balance	Now Requesting	Required Date
----	------	------	---------------	--------------	---------	----------------	---------------

To add materials into grid, click on 'Add' button, then we see a window likewise below,

ID: 100  
Category: CEMENT  
Material: CEMENT  
Qty Estimated: 19252.24  
Qty Previous: 10008.00  
Balance: 9244.24  
Quantity:   
Unit: Kg  
Required Date: 11 January 2005

We can enter the quantity here. Then click 'OK'.

## 2. Purchase Order

Here we enter the material details to be purchase from suppliers.

ID	Item	Unit	Qty Estimate	Qty Request	Qty Ordered	Balance	Now Orderin	Req Date	Rate	Tax	Amount

Total 0

Add Delete All Save Exit

To add to the grid, click on the 'Add' button. Then enter the quantity purchasing now and the other details.

### 3. Purchase Reception

ID	Item	Unit	Qty Requested	Qty Ordered	Qty Received	Balance	Now Receiving	Specif
----	------	------	---------------	-------------	--------------	---------	---------------	--------

Here, we enter the received quantity of material. Like other windows, we can add data by selecting the 'Add' button. Here we enter the received quantity of material. This may be on work-site

## 4. Report Functions

This section covers in detail all functions available under the *Estimator* Reports menu.

- Estimates
- Measurements and Costs
- Comparisons
- Works
- Work Materials
- Work Labours
- Rate Analysis
- Materials
- Labours
- Metals
- Openings
- Concretes
- Contract Rates
- Supplier Rates
- Mailing labels, etc.

SCHEDULE OF QUANTITIES						
SUNIL						
					Date 03 - February - 2004	
GROUND FLOOR						
EARTH WORKS						
1	<b>EARTH WORKS EXCAVATION :</b> Earth work excavation for foundation trenches in all classes of soil and depositing on bank with initial lead upto 50 mt. and lift upto 1.5 m including breaking clods , watering ramming and sectioning of spoil bank etc. complete.					
	Main Walls	1.00	93.54	0.75	0.75	52.62
	Partition Walls	1.00	13.95	0.30	0.75	3.14
					55.76 Cu.M.	
2	<b>EARTH WORKS FILLING PLINTH USING EARTH OUTSIDE :</b> Filling the plinth and side of the foundation with the earth brought from outside the site including breaking clods,levelling,watering,ramming etc. complete as instructed by the site engineers. Measurements will be taken only the filledand compacted earth.					

We use the powerful 'Seagate Crystal Reports' to produce reports.

## 5. Reprints

Reprint menu helps us to take printouts of Bill-Contracts, Bill-Subcontracts, Purchase Request, Purchase Order, Purchase Receiving and Material Statement as and when required. For this, we enter the details of the required report.



The screenshot shows a window titled "Reprints Contract Bills" with a close button in the top right corner. The window contains the following fields and buttons:

- Project ID: SUNIL
- Contractor: MAHESH
- Bill No: 1
- From: 04 January 2005
- To: 11 January 2005
- Buttons: Bill, Summary, Exit, Delete

## 6. User Functions

- **Change Password**

Change your password frequently to ensure security.

- **Logout**

Use this when you want to:

1. Leave the console temporarily.
2. End the current session and start a new one
3. Change user.

## 7. Admin Functions

- **User Management**

You can add or remove users using this function. You can also set permissions to limit the user from accessing Master and Admin menus, thereby enhancing security.

- **Compact Data**

Compacting database frequently, we can maintain better performance of the database.

- **Backup Data**  
Back database frequently in order to protect the data from accidents or mishaps.
- **Options**  
User specified settings for report formats.
- **Payments**  
Screen for entering payments for contractors and suppliers.

## 8. Help Functions

- **About**  
Description and copyright statements on *Estimator*.
- **User Guide**  
This online manual on *Estimator*.
- **Demo**  
A short video on working of *Estimator*.

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