



XBUILD Construction management ERP

ERP in Construction

The ERP system integrates varied organizational systems and facilitates error-free transactions and execution of various tasks, thereby enhancing the organization's efficiency, quality and reducing the time for various tasks in the construction industry.

ERP will give

- An integrated system
- Operates in (or near) real time
- A common database that supports all the applications
- A consistent look and feel across modules
- Real time integration of various departments

XBUILD ERP in Construction

XBUILD ERP is a real time web based construction ERP which monitors the various task in construction process like design planning ,Quality Control etc. Software is 6D integrated full construction, design, management package. It consists of Engineering system to work with the engineering software and the results are fed to an ERP system for effective management. This is also connected with microsoft Project microsoft Teams environment and Google products for an easy working environment.

Planning, HR,QC, Accounting, Inventory Document management systems, CRM etc is added as modules in the ERP system. The data from the drawings is fully integrated into the above systems and the data is available in laptop, desktop, ipad or mobile users to access from any where. Overall efficiency of the project is improved multiple times with the effective integration of all the above modules working together.

Intelligence to understand drawings from CAD is the major difference with other ERP packages.



Modules in XBUILD ERP



xbuild ERP

Web application that coordinate all the activities in this erp platform



Aadspro desktop

Software application used in Engineering design of different structural components and preparation of bar bending schedules



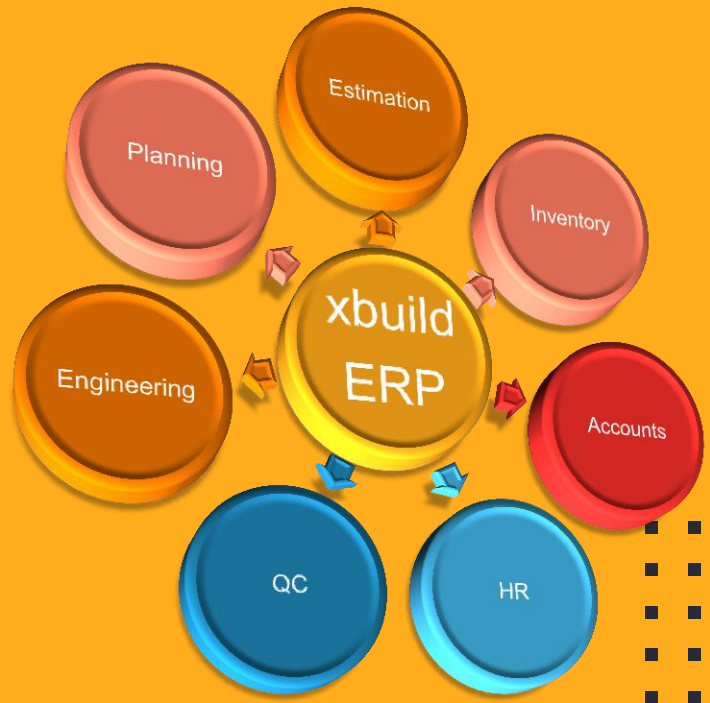
Estimax

Application for creating estimation



Optimax

Application used to optimize the steel data in construction process while cutting process.



What XBUILD ERP does ?

Integrating various
task in construction
process .

integrates various organizational systems and facilitates error-free transactions.

1

Converts visual data from CAD drawing to spread sheet data by using Estimax pro.

2

By connecting ETABS or StaadPro helps to prepare str drawing within minutes with aadspro desktop app.

3

Can prepare Bar bending schedules prepared by aadspro can be optimized by using Optimax.

4

XBUILD ERP helps to plan and monitor different tasks in real time and integrate 1 2 and 3.

5

XBUILD ERP manages business and management activities in an organization.

6

Integrates different package like google and kaizala for better communication between users.

Aadspro Engineering



Slab design

Slab Design

Type

Slab Circular - Simple
 Cantilever Circular Fixed

Slab Depth

Constant As per Span

Deflection

Short Term Long Term

Width of Support (cm)

Lx(Shorter side)(m)

Ly(m)

Width (mm)

Depth (mm)

Nominal Cover (mm)

Diameter (mm)

Load +

Factored Load (kN/m²) 9.75

Fx (continuous)(kN) 17.94

Fx (Discontinuous)(kN) 11.77

F (y axis) (kN) 12.29

Mx (support) (kN-m) 8.579

Mx (midspan) (kN-m) 6.444

My (support) (kN-m) 5.375

My (midspan) (kN-m) 4.061

Forces

Calculate

Moment (kN-m)/m

Shear (kN)/m

Deflection +

(All values are as per meter width only)

Steel For Moments

Eff. Depth (mm) 76

Mu lim (kN-m) 19.2052

(% Reinforcement) 0.389

Required Ast (mm²) 280.3040

Provided Ast (mm²) 295.679

Tensile Reinforcement

Required Spacing (mm) 179.397


Spacing Provided (mm) 170

Shear

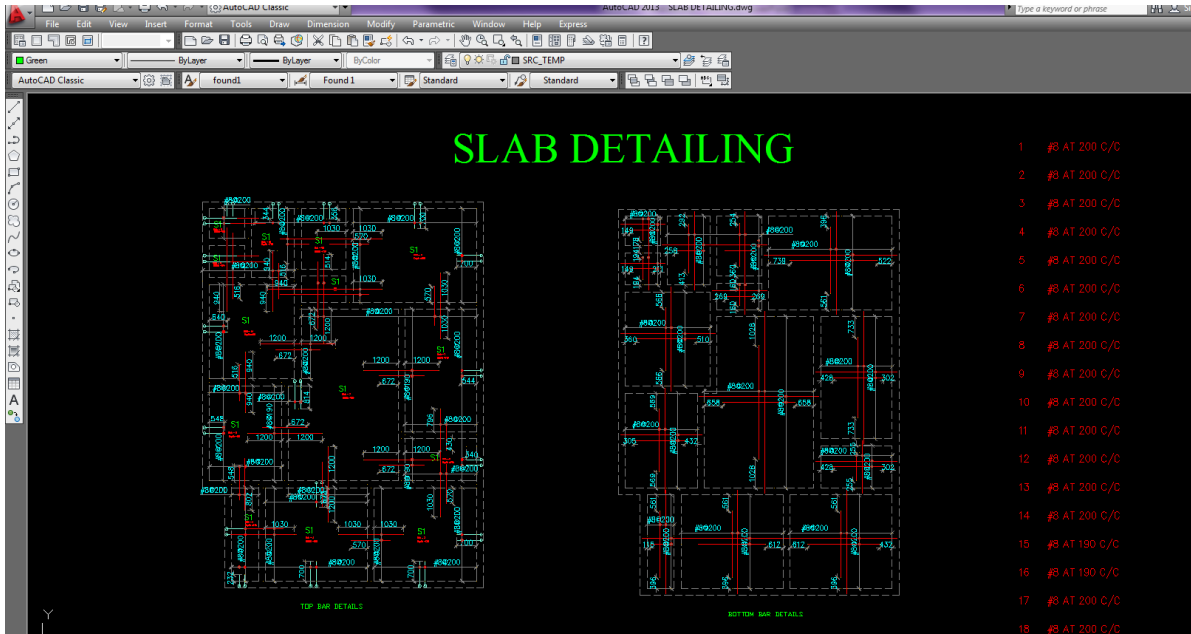
Strength of the section(vc)(Mpa) 0.436

Capacity of section(Vc) (kN) 47.927

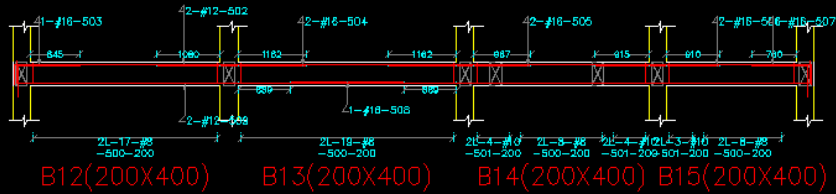
Continuous
 DisContinuous



Slab detailing



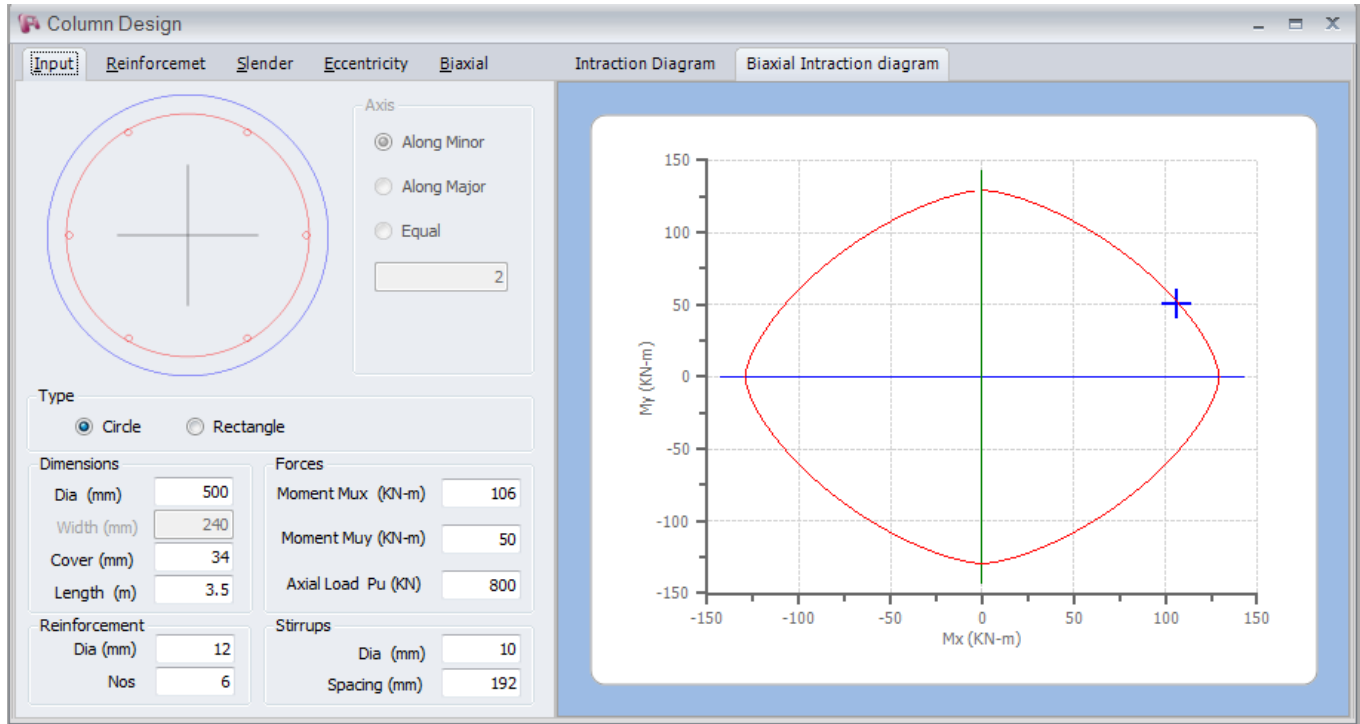
Beam bbs



Bar Bending Schedule

ID	Bar Number	Type	Size	Start No	Bar No	Total Bar No	Start	End	Length	Bar Code	A	B	C	D	E	F	G	H
B12	600	#	8	1	82	63	1105	88	305	0	0	0	105	0				
B14	801	#	10	1	11	11	1190	88	320	0	0	0	100	0				
602	#	12	1	2	2	1402	38	1380	340	340	0	0	0	0				
603	#	16	1	1	1	1850	27	1645	530	0	0	0	0	0				
604	#	16	1	2	2	2200	23	2045	0	0	0	0	0	0				
605	#	16	1	2	2	2430	23	2430	0	0	0	0	0	0				
606	#	16	1	2	2	2125	23	2320	0	0	0	0	0	0				
607	#	16	1	1	1	1478	27	180	530	0	0	0	0	0				
608	#	16	1	1	1	1875	23	1835	0	0	0	0	0	0				
609	#	12	1	2	2	1402	38	1380	370	370	0	0	0	0				

Column design



Column detailing

Column Layout [\\192.168.1.147\Riya\joyson\ETABS\ETB 17 11 2015 R6.mdb]

Column Details

ID	Width (m)	Depth(m)	Dia (m)	R Face	Cover	Main Bar	Corner Ba	Main Bar	Tie Dia	Tie Spacin	Level	Name
C10-Story	0.2	0.3	0	2	40	12	12	6	8	192	1.5	C1
C1-Story2	0.2	0.3	0	2	40	12	12	6	8	192	1.5	C1
C12-Story	0.2	0.3	0	2	40	12	12	6	8	192	1.5	C1
C20-Story	0.2	0.3	0	2	40	12	12	6	8	192	1.5	C1
C15-Story	0.2	0.3	0	2	40	12	12	6	8	192	1.5	C1
C2-Story2	0.2	0.3	0	2	40	12	12	6	8	192	1.5	C1
C7-Story2	0.2	0.3	0	2	40	12	12	6	8	192	1.5	C1
C14-Story	0.2	0.3	0	2	40	12	12	6	8	192	1.5	C1
C16-Story	0.2	0.3	0	2	40	12	12	6	8	192	1.5	C1
C19-Story	0.2	0.3	0	2	40	12	12	6	8	192	1.5	C1
C11-Story	0.2	0.3	0	2	40	12	12	6	8	192	1.5	C1

Column Groups

Sl No	ColumnName
1	C1

Column Group Details

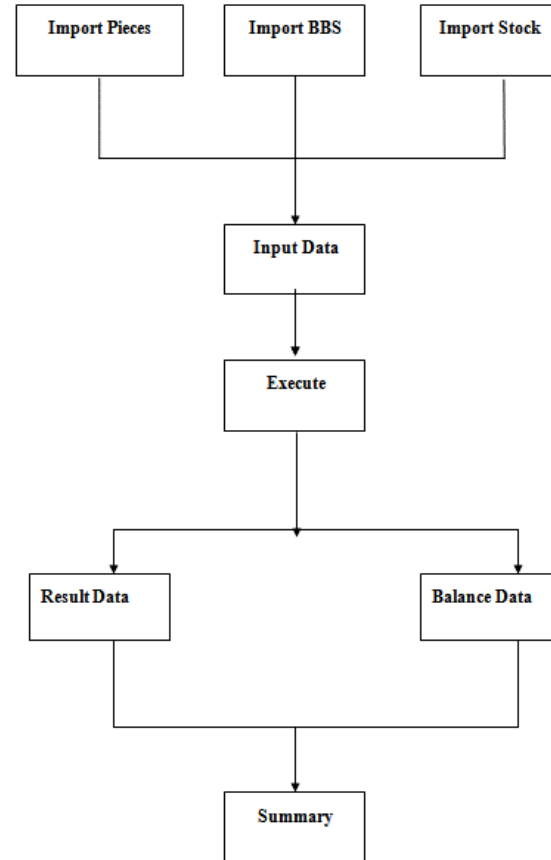
Empty area for column group details.

Design Properties

- aadspro Design Properties**
- Bar Number Increment: **2**
- Diameters used in Design**: **Int32[] Array**
- Maximum Number of Bars: **10**
- Minimum % of Steel in Col: 0.8
- Minimum Number of Bars: **4**
- Stirrup Diameter: **8**
- Misc**
- Show Forces in Layout: **False**
- Model Properties**
- Type of Design: ETABS
- Styles**
- Layer of Beams: **SRC_BEAM**
- Layer of Columns: **SRC_COL**
- Layer of Reinforcements: **SRC_REINFO**

Bar Number Increment
Number of bar to be incremented in Design Process

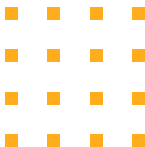
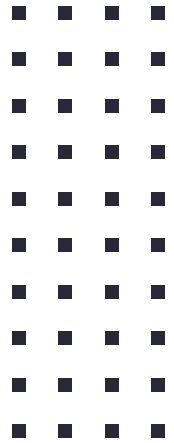
How does it work



Work flow



Optimax



Output

Optimization No: 1

Bars To Cut		
Sl No	Legth	Nos
1	1400	9
2	1350	13
3	1250	7

Cutting Patterns										
No:	Length 1	Length 2	Length 3	Length 4	Length 5	Length 6	Length 7	Total Length	Wastage	Bar Legth
1	2650	2700	2700	2700	1250			12000	0	12000
2	2650	2700	2700	2700	1250			12000	0	12000
3	2650	2700	2700	2700	1250			12000	0	12000
4	2650	2700	2700	2700	1250			12000	0	12000
5	2650	2650	2650	2650	1400			12000	0	12000
6	2650	2650	2650	2650	1400			12000	0	12000
7	2650	2650	2150	2150	2150			11750	250	12000
8	2150	2150	2150	2150	2150	1250		12000	0	12000
9	1350	2150	2150	2150	2150	1400	650	12000	0	12000

Save Close

Total Length Used = 107750 | Wastage = 250 | Wastage Percentage = 0.231



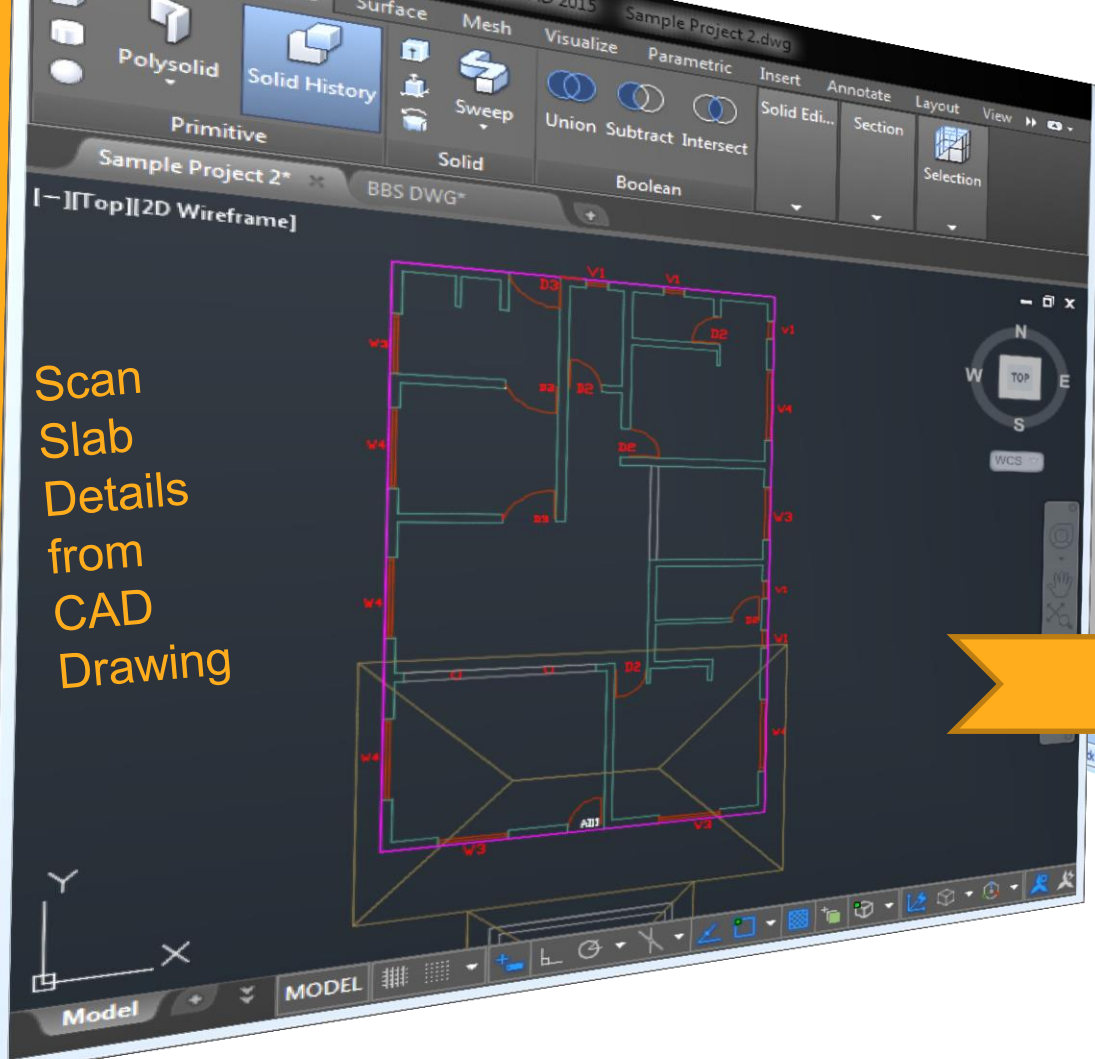
Estimation- EstimaX



EstimaX

Scan/Pick		Calculate	Quantity			
ID	Work Name	Unit	Quantity	Rate	Total	
1	Site Clearing	10 sqm		.00	165.00	.00
2	Staircase	cum		.00	12407.50	.00
3	Earth Work and Excavation	cum		.00	357.50	.00
4	Footing	cum		.00	12728.25	.00
5	Footing PCC	cum		.00	6635.37	.00
6	RR	cum		.00	3637.91	.00
7	Steel	MT		.00	77000.00	.00
8	Rectangular Columns	cum		.00	14119.80	.00
9	Circular Columns	cum		.00	13794.20	.00
10	Lintles	cum		.00	13435.00	.00
11	Beams	cum		.00	13531.25	.00
12	Sloped Slabs	cum		.00	12407.50	.00
13	Sunshade	cum		.00	12005.00	.00
14	Slab	cum		.00	11991.25	.00
15	Drop Slab	cum		.00	12005.00	.00
16	Sunshade(opening only)	cum		.00	12005.00	.00
17	Panelled Doors	sqm		.00	4852.43	.00
18	Brick work	cum		.00	6165.08	.00
19	Panelled Windows	sqm		.00	5694.77	.00
20	Panelled Ventilators	sqm		.00	7700.00	.00
21	Outer Plastering	sqm		.00	391.81	.00
22	Inner Plastering	sqm		.00	391.81	.00
23	Celling Plastering	sqm		.00	1855.65	.00
24	Sunshade bottom Plastering	sqm		.00	1855.65	.00
25	Plastering for column	sqm		.00	1855.65	.00
26	Flooring Ceramic Tile	sqm		.00	871.15	.00
27	pcc	sqm		.00	796.18	.00
28	Bathroom Flooring	sqm		.00	871.14	.00
29	Outer Painting	sqm		.00	106.69	.00
30	Inner Painting	sqm		.00	106.69	.00
31	Applying white cement	sqm		.00	46.06	.00
32	Celling Painting	sqm		.00	106.69	.00
33	Door Painting	sqm		.00	98.70	.00
34	Window Painting	sqm		.00	98.70	.00
35	Column painting	sqm		.00	113.88	.00
36						.00

Scan
Slab
Details
from
CAD
Drawing



Slab Details

Slab Name	Area	Length	Depth	Type	Storey
Slab 1	1831391.58	5588.43	20.00	Slab	0
Sunshade 1	349705.98	6068.43	20.00	Sunshade	0
Outside Brick Work 1	.00	5588.43	.00	OutsideBrick	0

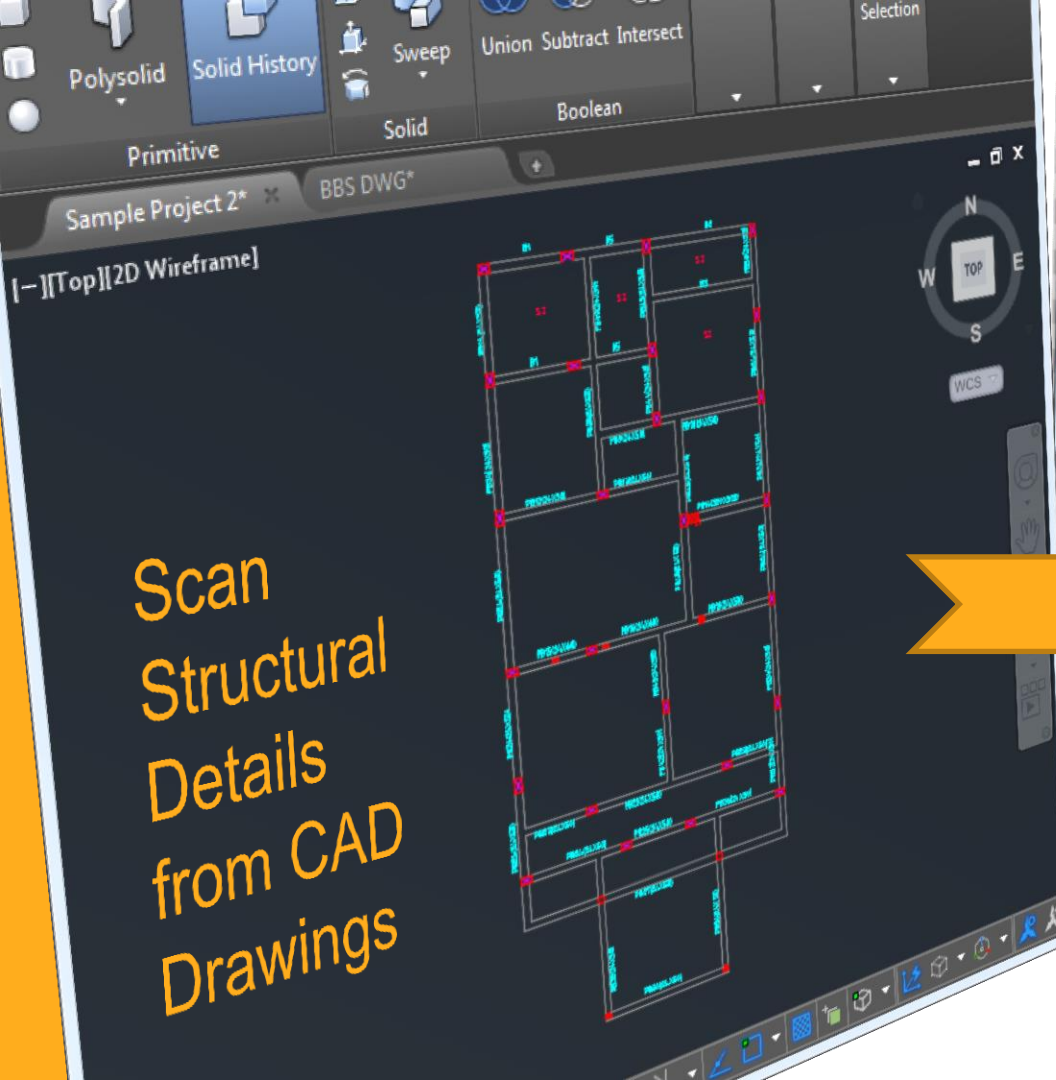
Misc

- Slab Area: True
- Slab Projection: 0
- Sunshade Depth: 20
- Slab Depth: 20
- Sloped Slab Area: False
- Sloped Slab Point hei: 0
- Deduction Area: False
- PolyLine: True
- Outer Brick: True

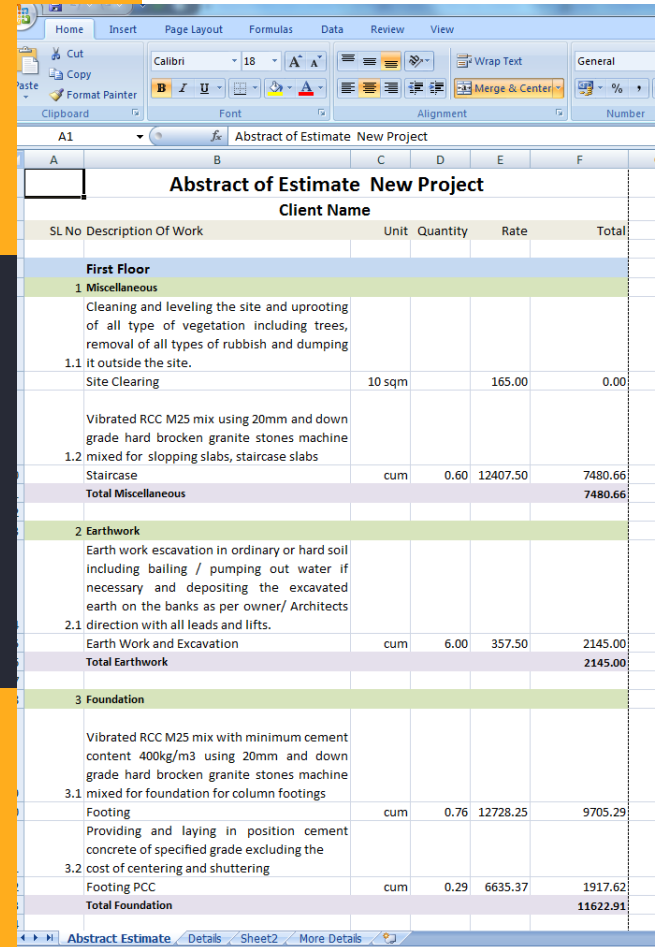
Sunshade

- Sunshade Support Wi: 30
- SunShade Width: 60
- Sunshade: True

Slab Area
Pick Area is Slab Area



Export Estimation Quantities to MS Excel or import estimation file in XBUILD ERP



The screenshot displays the Microsoft Excel interface with the 'Abstract of Estimate New Project' spreadsheet open. The spreadsheet is structured as follows:

Abstract of Estimate New Project					
Client Name					
Sl No	Description Of Work	Unit	Quantity	Rate	Total
First Floor					
1 Miscellaneous					
	Cleaning and leveling the site and uprooting of all type of vegetation including trees, removal of all types of rubbish and dumping				
1.1	It outside the site.				
	Site Clearing	10 sqm		165.00	0.00
	Vibrated RCC M25 mix using 20mm and down grade hard brocken granite stones machine				
1.2	mixed for slopping slabs, staircase slabs				
	Staircase	cum	0.60	12407.50	7480.66
	Total Miscellaneous				7480.66
2 Earthwork					
	Earth work escavation in ordinary or hard soil including bailing / pumping out water if necessary and depositing the excavated earth on the banks as per owner/ Architects				
2.1	direction with all leads and lifts.				
	Earth Work and Excavation	cum	6.00	357.50	2145.00
	Total Earthwork				2145.00
3 Foundation					
	Vibrated RCC M25 mix with minimum cement content 400kg/m3 using 20mm and down grade hard brocken granite stones machine				
3.1	mixed for foundation for column footings				
	Footing	cum	0.76	12728.25	9705.29
	Providing and laying in position cement concrete of specified grade excluding the				
3.2	cost of centering and shuttering				
	Footing PCC	cum	0.29	6635.37	1917.62
	Total Foundation				11622.91



Project scheduling using xbuild erp



1. Creating a new project

The screenshot displays the aadsproweb application interface. The browser address bar shows the URL `192.168.1.146/raj/Home/Home`. The application header includes the 'aadsproweb' logo, navigation tabs (Home, Masters, Entries, Reports, Downloads), a search bar, and user information (Messages, Jith).

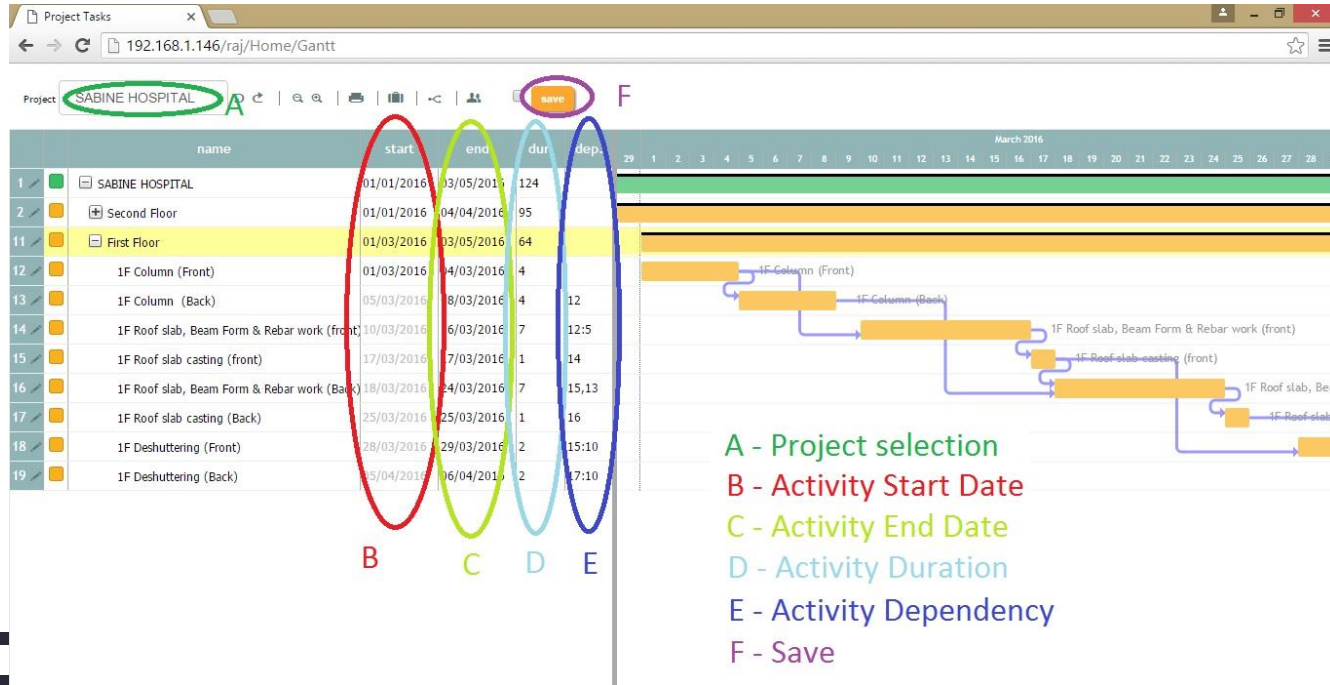
The left sidebar contains a navigation menu with the following items: Dashboard, Activity, Late Tasks, Today finishing Tasks, UpComing Tasks, and User Locations.

The 'Masters' dropdown menu is open, showing the following options: Company, Client Types, Client Details, Allowance, Units, HR, Work Flow, Tendering, Inventory, Accounts, Employee, and User Settings. The 'Work Flow' option is highlighted with a red circle and the number '2'. The 'Add/Edit Project' option is also highlighted with a red circle and the number '3'.

The main dashboard area features four summary cards: 'New Messages!' (0), 'On Going Tasks!' (4), 'Task On Hold!' (33), and 'Finished Tasks!' (52). Below these cards is a 'Worked Time Details' chart showing a bar chart with a target line at 8. The x-axis represents time intervals from 2/1/2016 9:00 PM to 2/3/2016 5:00. The y-axis represents the number of tasks, ranging from 1 to 8. A 'Target 1' label is present at the top right of the chart area.

The 'Show Details' link is visible at the bottom of the chart area.

Scheduling activities in Gantt chart



Importing activities and resources from Extimax (.estx) File

The screenshot displays a software interface with a navigation menu at the top. The 'Masters' menu is open, showing a list of options. The 'Upload Estimax File' option is highlighted. The background shows a table of project activities with columns for Level, Unit, Quantity, Rate, and Total.

#	Task	Level	Unit	Quantity	Rate	Total
21	Cell	SECOND FLOOR	sqm	1405.49	113.71	159818.54
22	Doc	SECOND FLOOR	sqm	245.50	103.38	25380.11
23	Win	SECOND FLOOR	sqm	58.32	103.38	6029.12
24	Col	SECOND FLOOR	sqm	401.10	113.71	45609.08
25	Staircase	THIRD FLOOR	cum	6.12	7172.25	43886.57
26	RR	THIRD FLOOR	cum	124.05	3399.58	421714.76
27	Rectangular Columns	THIRD FLOOR	cum	31.45	12952.35	407416.17
28	Linties	THIRD FLOOR	cum	15.63	13505.00	211092.87
29	Beams	THIRD FLOOR	cum	57.30	13601.25	779378.28
30	Sunshade	THIRD FLOOR	cum	13.00	12161.25	158076.87
31	Slab	THIRD FLOOR	cum	66.93	12161.25	813971.99
32	Drop Slab	THIRD FLOOR	cum	9.15	12075.00	110446.06
33	Sunshade(opening only)	THIRD FLOOR	cum	2.83	12161.25	34455.25

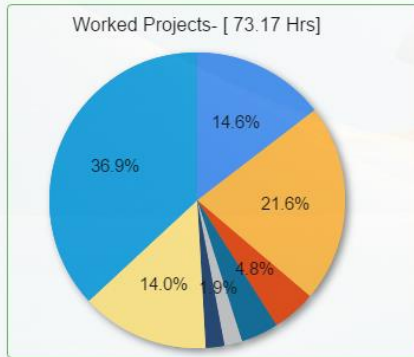
- [Dashboard](#)
- [Activity](#)
- [Late Tasks](#)
- [Today finishing Tasks](#)
- [UpComing Tasks](#)
- [User Locations](#)

0
New Messages !
[View Details](#)

22
On Going Tasks !
[View Details](#)

10
Task On Hold !
[View Details](#)

127
Finished Tasks !
[View Details](#)



[Show Details](#)

To update stock of resources at specified location

Physical Stock Entry Create

Location: Kaloor

#	Resource Name	Rate	Quantity	Unit	Category	Type
13	10 mm rods	40.01	2120.00	Kg	Rebars	Material
14	10 mm rods	40.19	250.00	Kg	Rebars	Material
15	10 mm rods	41.26	0.00	Kg	Rebars	Material
16	10 mm rods	42.78	0.00	Kg	Rebars	Material
17	Mason	600.00	0.00	No	Labour resources	Man
18	Helper	450.00	0.00	No	Labour resources	Man

« < 1 2 3 4 5 ... > » Add

Save Print

Stock Transfer

Index x

localhost:3051/StockTransfer

aadspro Home Masters ▾ Entries ▾ Reports ▾ Downloads ▾ Search... Q Jith

Stock Transfer | 🔍

Date 2/15/201 📅 From Kaloor ▾ To ALUVA ▾ [Get Resources](#)

#	Resources	Unit	Rate	Cur.Stock	Quantity
1	Cement	Bags	340.61	68.00	<input type="text"/>
2	10 mm rods	Kg	39.25	103.00	<input type="text"/>
3	10 mm rods	Kg	40.01	2120.00	<input type="text"/>
4	Fine aggregate	Cu ft	34.00	235.00	<input type="text"/>
5	8 mm rods	Kg	34.76	2290.00	<input type="text"/>

[Save](#) [Print](#)

Purchase

Purchase Entry

localhost:3051/Purchase

aadspro Home Masters Entries Reports Downloads Search...

Purchase Entry Create

Order No: --Sel-- Order Date: 02-15-2016 Supplier: SHARI JAYAN Location: ALUVA [MoreDetails](#)

#	Product	Rate	Quantity	Amount	Unit	Tax	TaxAmt	NetAmt	Action
1	Cement	395.00	100.00	39500.00	Bags	Tax12.36	4882.20	44382.20	✕
2	Fine aggregate	34.00	300.00	10200.00	Cu ft	Tax12.36	1260.72	11460.72	✕
							6142.92	55842.92	+ Add

Note

P&F Amount: 0 Shipping Cost: 0 Discount(%): 0

Discount Amount: 0 Total Order Amount: 55842.92 [Create](#) [Print](#)



Quality Control

Concrete Pre-Placement Inspection

Concrete Pre-Placement Inspection | 🔍

Engineer Name: PREM KUMAR T M | Project: A.NATARAJ CHETTIAR | Level: Foundation | Task: Concreting

Inspection Date: 2/16/2016 | Location: Chennai | Construction start Date: 2/16/2016 | Contractor Name: Jose Kunju

Address: Sanjos Builders, Ernakulam

#	Check list	Requirement	Remark
1	Center line	As per drawing	Checked and found ok
2	Formwork and staging	As per drawing and in plumb	Checked
3	Construction joint location	As per drawing	
4	Steel reinforcement dia/spacing and coating	As per drawing	
5	Cover to reinforcement and overlap	As per drawing	Cover was sufficient
6	Shuttering	As per drawing and in plumb	Complaint
7	RLs and reference levels	As per drawing	Checked

Notes

Save Print Add document

Pile-During Casting Report

Pile-During Casting Report | Q

Inspector Name: PREM KUMAR T M Project: A.NATARAJ CHETTIAR S Level: Foundation Task: Pile cap

Inspection Date: 2/16/2016 Location: Chennai Construction start Date: 02/12/2016 Contractor Name: Jose Kunju

Address: Sanjos Builders, Ernakulam

#	Check list	Requirement	Remark
1	Diameter	As per specification	Checked
2	Casing Reinforcement(Main bar,Spirals)		Checked
3	Lapping Provided	As per specification	Lapping was sufficient
4	Cover	As per specification	Sufficient cover
5	Mix Design	As per specification	M25
6	Mix Ratio	As per mix	1:1:2
7	Location of pile from near by pile(x,y)	As per specification	No shift of pile

Notes

Save Print Add Document



Accounts

www.aadspro.com



Accounts Groups

localhost:3051/AccountsGroup/AccountGroup

Home Masters ▾ Entries ▾ Reports ▾ Downloads ▾

Search... Messages Basil

Account Groups

- ASSET
 - CURRENT ASSET
 - 1222
 - BANK A/C
 - CASH A/C
 - LOANS & ADVANCES
 - SUNDRY DEBTORS
 - FIXED ASSET
 - INVESTMENTS
- EXPENSE
 - DIRECT EXPENSE
 - PURCHASE OF RAW. OTHERS
 - PURCHASE OF RAW.MAIN
 - Test 2
 - expense
 - INDIRECT EXPENSE
 - MISC EXPENSES

Accounts Groups

Name: Parent:

Chart of Accounts

The screenshot shows a web application interface for managing a Chart of Accounts. The browser address bar indicates the URL is `localhost:3051/ChartofAccounts/ChartofAccounts`. The application has a navigation menu with options: Home, Masters, Entries, Reports, and Downloads. A search bar is located in the top right corner.

Chart of Accounts Tree View:

- ASSET
 - CURRENT ASSET
 - 1222
 - BANK A/C
 - CASH A/C
 - CASH IN HAND
 - Petty cash
 - Income Tax Refund Receivable
 - LOANS & ADVANCES
 - Sales Tax Deposit
 - Security Deposit F D- Sales Tax
 - SUNDRY DEBTORS
 - A.NATARAJ CHETTIAR SONS
 - JEWELLERY
 - Aashrami
 - Abacus Architects
 - Abad Builders

Chart of Accounts Form:

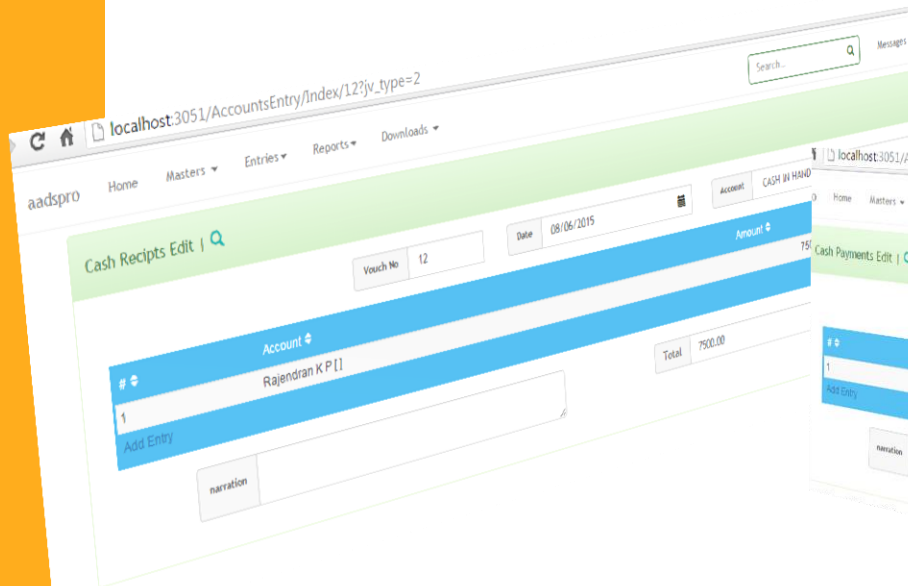
Code	Name	Parent
2159	Aashrami	SUNDRY DEBTORS

Additional form fields:

- Started Date: 04/01/2014
- Op Bal (Cr): 0
- Op Bal (Dr): 0

Buttons: New, Update, Delete

Cash/Bank Transactions



localhost:3051/AccountsEntry/Index/12?v_type=2

Search... Messages

Home Masters Entries Reports Downloads

Account CASH IN HAND

Cash Receipts Edit | Q

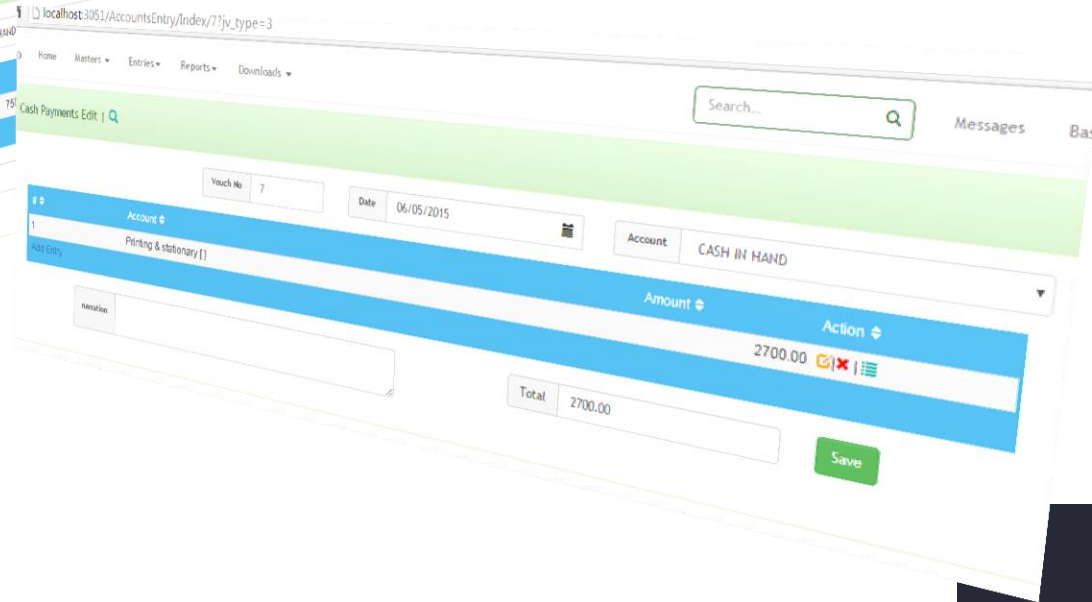
Vouch No 12 Date 08/06/2015

#	Account	Amount
1	Rajendran K P []	7500.00

Total 7500.00

Add Entry

narration



localhost:3051/AccountsEntry/Index/7?v_type=3

Search... Messages

Home Masters Entries Reports Downloads

Account CASH IN HAND

Cash Payments Edit | Q

Vouch No 7 Date 06/05/2015

#	Account	Amount	Action
1	Printing & stationary []	2700.00	[edit] [delete] [list]

Total 2700.00

Add Entry

narration

Save

Xbuild ERP Modules

- Document management
- Communication module
- Accounting
- Inventory
- Tally integration
- Revit integration
- Microsoft teams integration
- Auto 3d generation
- Planning
- HR
- Payroll
- Budgeting beta
- Ticket module
- Geotechnical modules
- Estimax integration
- Optimax integration
- Quality control
- Project management
- Asset management
- Contracts management
- Dynamic work reporting from site
- Paper review module
- Whatsapp and google integration
- Autocad/ZWCAD integration
- Etabs integration

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