

Ensoft : New software packages

Ensoft Consultants, Mumbai, have developed software which are in regular use in more than 700 design offices in India and abroad. They have released new versions of the following software for civil engineering applications. A brief about each is given below.

Build-Master

It is a complete package for building design, drawing and estimation. It designs reinforced concrete (RC) beams, columns at all levels as well as the footings. Designs are based on Indian standard codes and use both limit-state and working stress methods. Building data are entered floor wise. The program carries out earthquake and wind analysis by generating two-dimensional/three-dimensional (2D/3D) frames. It generates working drawings of plans, schedules and beam details in *DXF* format which can be read by most of the *CAD* packages. It can also be used for estimating quantities of items like concrete, reinforcement, brick work, plaster, etc, automatically from the floor plans without entering data in the regular length, breadth and depth format.

Steel Master

It is used for the design of steel structures like trusses, columns, gantry girder, portal frames, platforms and towers. It automatically calculates the dead load, live load and wind loads. It has many pre-defined truss and frame configurations. Rolled sections like angles, channels, hollow box or tubular sections can be used in design. It also generates section-wise quantities of items.

Draft-aid

It is used to prepare structural drawings of trusses, columns, gantry girders, etc. The provisions of commands like draw-truss, draw-column, vvv etc unlike other drafting packages make the software unique. Numerical data from the user is converted into drawing form. It is compatible with *CAD* and supports the standard *DXF* format. It helps in calculating the exact cutting length of the members and bill of materials.

Road-master

It is used in earthwork calculations by using land survey data. It helps to generate 3D view for easy data checking and con-

tour maps for desired contour intervals. Two sets of data, one for original land profile and other for the proposed one can be given. The program helps to work out the excavation and filling quantities, for the proposed road layout for optimum road profiles.

Rate-Anly

It is basically used for rate analysis of construction items like concrete, brickwork, plaster, etc. Analysis of an item is defined in terms of materials, labour and overheads. The change in material rates will be calculated as new item rates. From the given quantities of a project, it can work out the material take off, using the same rate analysis.

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