

# What's New in NISA Version 17

The new NISA V17 has un-paralleled functionality with significant improvements in DISPLAY, NISA II solver and NISA/CIVIL. This version is the result of careful customization & development based on end user feedback, and through its time-saving, new-improved features “offers the best user experience yet”.

Some of the biggest breakthroughs in this version are;

1. Advanced Tetrahedral Meshing capabilities in DISPLAY IV
2. Improved Advanced Surface Mesher and Meshing of individual TPS
3. Tree structured menu in the workspace are for quick and easy access of menu items
4. Automatic Contact Element creation in DISPLAY
5. Pressure application on a full plane can be done selecting a plane by 3 nodes
6. Post processing of direct frequency analysis in DISPLAY IV
7. User controlled analysis report generation
8. Support for more than 1 million elements or nodes
9. Fatigue in spot welds is now supported in ENDURE
10. HEAT III is incorporated in EMAG for coupled Electromagnetic-Heat transfer analysis

New features introduced in NISA/CIVIL V17 for our Civil-Structural Engineering customers;

1. Geometry based building wizard to facilitate the user to easily model floors in a structure
2. Finite Element modeling, structural design & drawings of irregular flat slabs
3. Identification & detailing of column strip, middle strip in regular/ irregular flat slabs and their re-bar arrangement
4. Structural design of steel members conforming to IS 800:2007
5. Structural design of steel members conforming to BS EN 1993-1-1:2005 Euro code 3
6. Structural design of concrete members conforming to BS EN 1992-1-1:2004 Euro code 2
7. Computation of storey drift in pseudo static seismic analysis for framed structures
8. Scripting for FE modeling through command mode.
9. ASCII input file with extension \*.prc
10. Partial fixity at selected beam ends
11. Structural design of Gravity walls, Caissons, Bridge Piers & Bridge Bearings as per Indian Standards
12. Auto rationalization of reinforcement for shear walls

13. Automatic rationalization of RC Slabs, RC Beams (across floors and within the floor), & RC Columns

14. Improved user interface with icons introduced for most functionalities

With these enhanced features, NISA V17 promises to deliver higher computational and analytical benefits with greater ease-of-use.

**So get ready to cross new boundaries with NISA V17**