

## ***NIH\_ReSyP (NIH\_Reservoir-System-Package)***

NIH\_ReSyP is a WINDOWS based software package that has been developed at NIH for various kind of reservoir analysis. Different modules of the software include capacity computation, storage-yield analysis, statistical analysis of flow data, initial rule curves derivation, operation analysis of a multi-purpose multi-reservoir system for conservation and flood control purposes, hydropower analysis, reservoir routing, interpolation and approximation of elevation-area-capacity table, and reservoir inflow computation including negative flow adjustment. The software is being named as *NIH\_ReSyP* which expands as NIH\_Reservoir-System-Package.

The software has been developed in Visual Basic and various computer programs developed in FORTRAN language at NIH have been linked. The software can be installed by double-clicking on the NIH\_ReSyP-2018.msi file. Various forms have been developed for easy preparation of data files. The help files are associated with each module and there is no separate user manual. Further upon installation, sample input and output files get stored in C:\Program Files (x86)\NIH\_ReSyP Package\sample\_files folder which can be initially worked with. It is easy for the users to select the data files and take the model runs. Results can be viewed in tabular as well as graphical form. It is aimed that the package will help the field engineers in India in carrying out various kind of reservoir analysis.

