

TDV : Speciality software

TDV Technische Datenverarbeitung Ges m.b.H. – Heinz Pircher und Partner, Austria, offer services in the development and sales of standard software packages in the technical sector of construction engineering and specialises in the following sectors.

- Structural analysis specialising in bridge engineering
- Finite element method (FEM), specialised applications such as geotechnical problems, tunnels, ground water etc.
- Geographic information systems (GIS), integrating planning and design of roads, railways, hydraulic analysis for water supply.

In the field of structural analysis, TDV concentrates specifically on bridge engi-

neering. The bridge engineering software package consists of a basic module which is a general space frame analysis program and a set of extensions including specific features for reinforced and pre-stressed concrete and for steel and composite structures. Particular functions for handling construction stages and traffic loading are included by implementing all relevant design code checks as per the different national design code regulations.

Specific problems related to large span bridges including cable-stayed and suspension types can be solved with the software. The applications of the finite element method has been mainly concentrated in the field of geotechnical applications such as tunnelling, analysis of large dams, deep excavations, mining and similar problem. Specific know-how in geohydraulics, for example, the development of mathematical models of

steady state and transient ground water flow is also available. The design of roads, railways and urban piping networks are implemented in the software system that is based on a CAD module oriented towards surveying and urban planning. The software supports the input of the surveying data, digitising and scanning of existing maps or aerial photographs so that it can be used as a base for all design functions.

TDV is currently establishing a local agency in India in order to guarantee professional services and support.

For further details, please contact:

*Mr Ravi Purushottaman
Kanthi Venkatapathy Engineering Pvt Ltd
1/D, 45 3rd Main Road,
Gandhi Nagar,
Adyar, Chennai 600 020.*