



Statistical Analysis of State's Economic Health Data for Department of Economic and Statistical Analysis, Haryana, India

CLIENT: Department of Economic and Statistical Analysis, Haryana State, India

LOCATION: Haryana, India

AREA OF WORKING: Statistical Analysis of State's Economic Health Data

CLIENT DESCRIPTION

Department of Economics and Statistical Analysis, Haryana is the NODAL AGENCY in relation to collection and analysis of all statistical data in the state and is empowered it to undertake systematic reviews of the working of the line department's statistical activities in the State. The Department of Economic and Statistical Analysis, Haryana functions under the administrative control of the State Planning Department, Haryana.

Since the functions of State Government have increased tremendously. The concept of a State has changed from that of a simply maintaining law and order to that of welfare state. Statistical data and methods are of great help in promoting human welfare, framing suitable policies and efficient functioning of various departments of state government. This Department undertakes multifarious activities pertaining to the collection, compilation and analysis of data on socio-economic aspects of the State economy, evaluation of development programmes and formulation of annual five year plans.

THE MAJOR FUNCTIONS OF DESA:

- To collect, compile analyse data regarding various socio-economic aspects of the State.
- To serve as a store-house for all types of statistics required for planning and formulation of development programmes.
- To undertake surveys and enquiries regarding various socio-economic problems of the State.
- To coordinate statistical activities of various departments of the State Government.
- To advise the Govt. on economic & statistical matters.
- To work in liaison with the Central Statistical Organisation, Govt. of India and various State Statistical quarters.
- To carry out evaluation studies of development programmes /projects/ schemes.
- To undertake formulation and implementation of Annual/ Five Year Plans.
- To monitor the progress of various programmes being implemented under 20-Point Programme.
- To implement “Decentralised Planning Scheme (District Plan)” for executing various developments works in the State.

THE MAJOR BUSINESS CHALLENGES FACED BY DESA:

- Exchange of information in soft form between central office and field offices
- Online Data availability for statistical analysis
- Multiple source systems, many failure points of data corruption / manipulation
- Individual and separate program for query or analysis
- Past data are available in CD's or CTD's, the same cannot be retrieved easily
- Unavailability of centralized intelligent single data storage system
- Sophisticated tool for Statistics Analysis (Time series analysis and rigorous)
- Publications take longer time to generate tables, graphs and statistical reports

BROAD SCOPE OF THE BUSINESS REQUIREMENT CAN BE LISTED AS BELOW:

- Provide scalable web based application that will allow the Reporting Units to report the gathered data from the districts and sub-districts
- To capture build a data bank of millions of level data records running into Terabytes
- To aggregate, sort, index and perform heavy numerical data crunching
- Provide extensive reports that would help State level planning department to take planning best decisions

- Provide the instant report to all wings like Statistical and Planning wing and their sub wings to be able to take their decisions quickly.

SOLUTION BENEFIT IN TERMS OF EASING MASS BASED AND QUICK STATISTICAL ANALYSIS:

The solution provides direct capture of data from its districts and Reporting Units in real time. The data is processed and the aggregated reports, tabulation, publications will be available through the reporting options. The proposed solution will have a facility to provide the dashboards which will display snap shots of the economic health of the state. This facility will be available to the DESA Director and/or CM access level.

KEY FEATURES OF THE SOLUTION:

- **Data Management**
 - **Data Capture** : Online mechanism to capture data section wise from geographically spread DSO's (District Statistical Office) & Line Departments
 - **Data Quality Improvement:** Validation of data collected from different sources before aggregation and analysis
 - **Consolidation of data from different Data Sets:** Price, NSS, Agriculture, State Income, Capital Formation, IIP (Index of Industrial production) Socio Economic Surveys
 - **Data Accessibility:** Availability of accurate information to different Data Processing Centers in different sections of DESA.
 - **Data Comparability:** Single version of truth across District, Sections, Departments and officials
- Release of Statistics
 - **Release of timely statistics for:** State GDP, GFCF (Gross Fixed Capital Information), Health, Education, Agriculture, Land Records, Price Indices, IIP, etc.
- Data Analysis
 - Analyze trends in the state economy:
 - economy as a whole
 - different sectors
 - different sub-sectors
 - structural changes
 - demographical changes

- Decision Support System for Planning
 - Informed and Improved decision making

TECHNOLOGY USED:

- .NET Application Framework 4.0 for Application Development
- SAS 9.2 for Statistical Analysis and Reporting
- Websphere Application Server
- SQL Server 2008
- Windows Server 2008