

GIS Based Decision Support System for prioritization of villages for opening New Primary and Upper Primary Schools

Year of Starting: Sept. 2004

Year of Completion: Oct. 2004

Funding Agency & Funds Received: Dept. of Basic Education, Govt. of U.P., Rs.3.0 lakhs.

Objectives:

- To create a village level GIS based spatial and digital database of Educational Infrastructure in 10 districts of U.P. and to develop a Decision Support System.
- To provide solution to some specific queries such as :-
 - * Potential villages for setup of new primary schools where population is 300 or more and distance where the school facility is not available within 1k.m., 1.5 k.m. and 2 k.m.
 - * Locations of new upper primary schools in the villages having population 800 or more and where the school facility is not available within 2k.m., 3k.m. and 4 k.m.
- To provide solution to any other query or problem related to development of educational infrastructure using Decision Support System.

Study Area: A Decision Support System was developed for 10 districts i.e. Agra, Azamgarh, Barabanki, Bareilly, Bulandshahr, Chitrakoot, Ghaziabad, Kaushambi, Raebareli, Lalitpur.

Data Used: Village boundaries, Settlement locations and names, Primary Census data and data related to Primary & Upper Primary Schools of 2004 of Education Dept.

Salient Results: Population of the state of U.P. has increased substantially in comparison to the year 1991 as revealed by the latest Census Report of 2001. Accordingly, district wise infrastructure for education is needed to be reviewed and requirement of new institutions has to be assessed for the improvement of the village level educational infrastructure for ultimate development of the educational status of the state. For this purpose accurate present status of the educational facilities at village level should be readily available along with its spatial distribution. The Decision Support System would be capable of evaluating the further requirement and location of new schools keeping in view the optimum distances and present population status and would also answer to various other queries.

Village wise data related to primary and upper primary school provided by Education Dept. have been linked with each village. The DSS has shown priority villages for opening of new primary & upper primary school in these districts. The criteria for Primary Schools was availability with in 1,1.5 and 2k.m. distance and villages having

population 300 or more. Similarly, the criteria for Upper Primary School was availability within 2,3 & 4k.m. distance and villages having population 800 or more.

Recommendation/Special Achievement: Villages for new Primary & Upper Primary schools were recommended. Project was completed in a record period of 2 months for which a certificate of appreciation was given to all the team members by Secretary, Science & Technology, Govt. of U.P.

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