

# APPLICATIONS OF GIS IN POLICE ADMINISTRATION AND DISASTER MANAGEMENT

*J.S.Rawat*



*Participants*

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To sensitize the Officers of the Police Department regarding the applications of the Geographic Information Science and its technologies (i.e., GIS, GPS, Remote Sensing and Computer Cartography) in Police Administration and Disaster Management, and to develop a mechanism for updating and development of Police GIS system in district Almora -a workshop was organized jointly by the Police Administration District Almora and the Centre of Excellence for NRDMS (COE NRDMS) in Uttarakhand, Kumaun University SSJ Campus Almora at the Seminar Room of the Superintendent of Police Almora on 15<sup>th</sup> July 2009. About two dozen participants from Police Administration District Almora (including Superintendent of Police Almora, Station Head Officers of Kotwalis, Station Officers of Police Thanas including Mahila Tahana, Fire Station Officers, Sup-Inspector of Reporting Out Posts, Constable of Police Chaukies); and Scientists of the COE NRDMS in Uttarakhand, Kumaun University SSJ Campus Almora attended the workshop (see Annexure-I).

Sri V.K. Krishan Kumar Superintendent of Police District Almora welcomed all the participants. In his opening remark Sri Kumar briefed about the objectives of the workshop on Applications of Police GIS in Administration and Disaster Management. Underlining the need for adopting GIS in day to day works for efficient police administration, he said that in near future application of GIS shall be necessary in every sector of administration, management and planning. Sri Kumar did appreciate the GIS infrastructure developed by the COE NRDMS and said that I have personally visited the Centre and have seen the huge GIS database of district Almora which is very useful for administration, management and planning at district or below level.

Highlighting the importance of Geographic Information Science in administration and disaster management, Prof. J.S.Rawat, Director, COE NRDMS, Kumaun University SSJ Campus Almora, demonstrated (through LCD) -a detailed account of Police GIS of all the Kotwalies and Thanas, and Disaster Management GIS of 2244 villages of district Almora.

Prof. Rawat illustrated with digital map of district Almora that how the following information can be quickly obtained from the computer through GIS software by clicking only two three mouse buttons?

- i) spatial information of different Kotwalis and Thanas, Police Barriers, Reporting Chaukees, Police Line, Fire Stations and details of police personnel with their details including telephone numbers;
- ii) spatial information about different types of roads, i.e., national highway, state highways, major and minor district roads, village roads, metalled and unmettled roads, roads under construction/sanctioned/proposed etc;
- iii) about 90 spatial and non-spatial information of each village of district Almora (total 2244) which may be required at the event of any disaster or emergency such as, distance of villages from the district/tehsil headquarters, location of the nearest health centre (with names and telephone numbers of doctors), nearest shelter (with name and capacity), nearest police thana (with name and telephone number) and nearest helipad (with location and distance from the village) etc;
- iv) information of the names and telephone numbers of different public representatives (related with the effected village/s such as Gram Pradhan, Block Pramukh, Jila Panchyat Member etc) and government administrators, i.e., concerned Patwari, Kanoongo, Sadar Kanoongo, Tehsildar, Sub-Divisional Magistrate, Additional District Magistrate and District Magistrate; and
- v) information about the blood donors of the concerned village/s with their names and telephone numbers etc; and details of resources available (for management of the disaster event) at different government headquarters, i.e., at district, tehsil, block, patwari chauki and gram panchyat, etc.



*(Prof. J.S.Rawat, Director, COE for NRDMS in Uttarakhand addressing the Participants)*

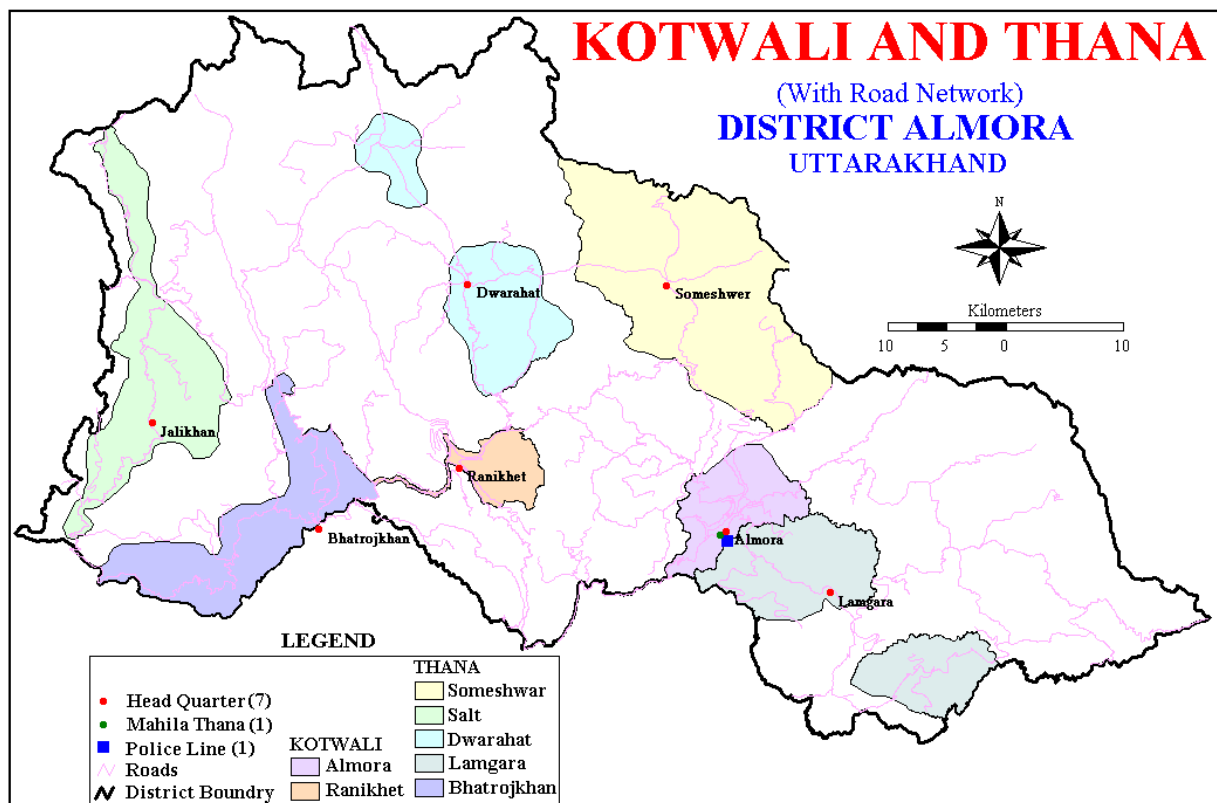
Prof. Rawat informed that development of district level Police and Disaster Management GIS is a pioneer attempt which was jointly developed by the District Administration/Police Administration and the COE NRDMS with the technical/financial support of the NRDMS Division, Department of Science and Technology, Government of India; and expressed his hope that this Police GIS will be very useful to conduct day to day works of police administration while the disaster management GIS shall prove as a powerful tool at the event of any disaster/emergency at any village in district Almora. Extending his thanks to the Police Administration Almora for organizing this workshop, Prof. Rawat expected that the Police Department Almora shall adopt GIS in their working culture and shall be an ideal source of constant inspiration for other districts not only of the Uttarakhand State but also for districts of the entire country.

## RECOMMENDATIONS

For applications of Almora GIS in police administration in district Almora, and for its updating and developing GIS management system, the following recommendations emerged by discussion and consensus.

1. The COE NRDMS shall provide hands on training on GIS/GPS to one personnel of each Kotwali/Thana of district Almora for updating Police GIS of district Almora.
2. The identification of GIS trainees from the Police Department Almora shall be done by the Superintendent of Police Almora.
3. The GIS training shall be of two weeks which shall start from 16<sup>th</sup> of August 2009.
4. GIS software shall be procured by the Police Administration, District Almora to install at the SP Office Almora and at each Kotwali (2) and Thana headquarters (6) of district Almora.
5. The COE NRDMS shall provide the available Police GIS infrastructure of district Almora to the Police Administration of District Almora for its validation and applications.
6. The responsibility of updating of Police GIS shall be of the Head of each Kotwali/Thana.
7. To facilitate the district administration, all the updated Police GIS of District Almora shall be installed at the GIS Cell at the Office of the District Magistrate Almora through the SP Office Almora.

At the end of the workshop Prof. Rawat presented a CD of the Police GIS and Disaster Management GIS of district Almora to Sri Krishna Kumar V.K., Superintendent of Police for the use of SP Office Almora, and one map of Police GIS of District Almora to each Head of Kotwali/Thana of district Almora. Sri Kumar extended vote of thanks to all the participants specifically to Prof. J.S. Rawat and his colleague Mr. Vinod Singh for excellence demonstration of Police and Disaster Management GIS.



## ANNEXURE - I

**Workshop on Applications of Police GIS in Administration and Disaster Management jointly organized by the Police Administration District Almora and the Centre of Excellence for NRDMS in Uttarakhand, Kumaun University SSJ Campus Almora at the Seminar Room, SP Office Almora on 15<sup>th</sup> July 2009.**

### *Attendance*

1. Sri Krishn Kumar, V.K. Superintendent of Police, District Almora.
2. Prof.J.S.Rawat, Director, Centre of Excellence for NRDMS in Uttarakhand, Kumaun University SSJ Campus Almora.
3. Sri Vinod Singh Rawat, Lecturer in COE for NRDMS in Uttarakhand Kumaun University, SSJ Campus Almora.
4. Sri. C.G. Goswami Station Head Officer, Kotwali Almora, District Almora.
5. Sri. V. S. Chaudhary, Station Head Officer, Kotwali Ranikhet, District Almora.
6. Sri. D. R. Tamta, Reserve Inspector, Police Sanchar Almora, District Almora.
7. Ms Rashida, Station Officer, Mahila Thana, Almora.
8. Station Officer, Someshwer, District Almora.
9. Station Officer, Dwarahat, District Almora.
10. Sri. A. L. Shah, Station Officer, Bhatraonjkan, District Almora.
11. Sri S.S. Rawat, Station Officer, Salt, District Almora.
12. Sri. Sanjay Singh, Station Officer, Lamgara, District Almora.
13. Sr. V.B.Yadav, Fire Station Officer, Fire Station, Almora
14. Sri. Kishan Ram, Fire Station Officer, Fire Station, Ranikhet
15. Sri Trilok Singh, Fire Station Officer, Fire Station, Ranikhet
16. Sri. Hira Singh, Assitant Prosecution Officer, Police Office Almora.
17. Sri. Ashutosh Kumar Singh, Reader, Superintendent of Police Office Almora.
18. Sri. Ajendra Prasad, Sub Inspector, Reporting Out Post, Bhikiyasain
19. Sri. Darwan Singh, Sub Inspector, Reporting Out Post Miskot, Ranikhet
20. Sri. Bhupendra Singh, Sub Inspector, Reporting Out Post, Jainti
21. Sri. M.C.Joshi, Local Intelligent Unit, Almora
22. Sri. Parkash Chandra, Head Constable Prmoted, Police Chauki Chaubatiya.
23. Smt. Pushpa Chauhan, Steno, Superintendent of Police, District Almora.
24. Sri Dani Ram, Constable, Superintendent of Police Office, District Almora.
25. Sri Manoj Singh Bisht COE for NRDMS in Uttarakhand Kumaun University, SSJ Campus Almora.

For more details about the workshop contact to Prof. J.S.Rawat, Director, COE NRDMS in Uttarakhand, Department of Geography, Kumaun University SSJ Campus Almora-263601, Uttarakhand for Details about COE NRDMS in Uttarakhand, visit [www.coenrdmsalmora.org](http://www.coenrdmsalmora.org)

