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Editorial

Government or public departments can't achieve their goal without a good team of competitive and ready for action professionals. A team can perform only when its members have adequate academic background, practical skill and experience in related fields. With these academic knowledge and practical skill in mind we may have/develop our future vision to further our profession.

Getting the job done is one of the most important parts of an organization. But, the documentation of what, how, when a job was done is equally important. Study of such documents helps later generation of professionals to save time and effort. In this context, Nepalese Journal on Geoinformatics is an important asset of Survey Department. It has documentation on more than hundred topics including a wide spectrum of different aspects of surveying, mapping and geoinformation.

Realizing the value of documentation and knowledge sharing, Survey Department has been publishing its journal "Nepalese Journal on Geoinformatics" for last fourteen years. In last fourteen issues more than 100 articles in a variety of themes related to geoinformation have been published. I would like to express sincere thanks to all those incredible authors for their contributions and members of Advisory Councils and Editorial Boards of all those issues of the journal for their persistent efforts to publish the journal.

At this point, I am very much thankful to the Survey Department for entrusting me with the responsibility of the Editor-in-Chief for the fifteenth issue of the journal. Following the advice and suggestions of Advisory Council, we, the members of Editorial Board have been able to bring forth the fifteenth issue of the journal.

On behalf of all the members of the Editorial Board, I would like to express sincere thanks to all contributing authors, members of Advisory Council and all others who have contributed for the publication of this issue of the journal. Last but not the least, I feel privileged and honored to work as the Editor-in-Chief.

2073 Jeth,
Kathmandu



Suresh Man Shrestha
Editor-in-Chief

Forewords

This is indeed my immense pleasure to give my prelude on the Nepalese Journal on Geoinformatics, the publication from Survey Department. Survey Department has been making this annual publication since 2002 and the current issue is the fifteenth issue of the series. The Journal is incessantly doing its best efforts to provide a common platform of sharing the professional knowledge, researches and experiences in the field of Geo-spatial Information.


It is the matter of proud to recall the history of the Department and its contribution in the nation building as the National Mapping Agency of the country. Of course, it is continuously doing its best in the field of Topographic & Cadastral mapping, Geodetic activities, Spatial Data Infrastructure (SDI) efforts and boundary mapping as well. It has the glorious history in surveying and mapping which has been passed the way of chain survey to satellite survey.

Recently we are in the phase of technological transformation and we are now trying to adopt digital technology in district level cadastral offices for implementing digital service delivery system. Boundary survey in Nepal-India International Boundary is being done rigorously with the Joint Technical Team from Nepal and India. Furthermore, as the total Geodetic Network of the country has been disturbed due to devastating Earthquake of April 2015, the Department is initiating its efforts for strengthening the Geodetic Network by establishing the Continuously Operating Reference Stations (CORS) covering the entire country. Moreover, Department is also instigating for the large scale Multi-purpose mapping and Digital terrain Model (DTM) of the country and the initial focus will be given to the 31 earthquake affected Districts. The output will be a high resolution Ortho-photo Image and DTM that will support for many applications like Cadastral, Topographic and Land-Use mapping, Disaster Management and Infrastructure Development activities. For this, Department is coordinating with the stakeholder organizations and approaching with National Reconstruction Authority (NRA). Likewise, Department activities are focused in the rehabilitation of the maps and land records destroyed at the time of conflict, surveying and mapping of the village block areas and improving the quality of service delivery from its District Level Offices. In the modern era of Geo-ICT and increasing the social need and public expectations in Geospatial-technological transformations, the Department is lacking sufficient organizational capacity in terms of technology and resources.

Finally, I would like to express my heartiest thankfulness to the Advisory Council and Editorial Board of the Journal for their outstanding efforts to bring out this issue. Similarly, I would like to thank all the authors of the paper for their valuable professional contribution by providing the article which definitely affords a lot of knowledge, experiences and information to the readers. I am expecting such kind of professional support and contributions in the upcoming issues too.

Enjoy Reading!
Thank You!!

2073 Jeth,
Kathmandu


Krishna Raj B.C
Director General,
Survey Department.