



CSSTEAP



New Delhi

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JOSE P. DEL ROSARIO, JR  
Ambassador of the Philippines to India  
Embassy of the Philippines  
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## MESSAGE

To the Graduates of the 6th CSSTEAP Course on Remote Sensing and GIS:

On behalf of the Government of the Philippines, and on my own, I would like to convey my heartiest congratulations to you, the graduates of the 6th Post Graduate Course in Remote Sensing and GIS at the IIRS, Dehra Dun.

I have always emphasized the important role of institutions like the CSSTEAP and the IIRS in the economic and scientific development of developing countries in Asia and the Pacific. It is in courses like this that the seeds of progress and development are nurtured.

As graduates of this prestigious institution, it is incumbent upon all of you to enhance the benefits derived from the course and apply the skills learnt in order that our governments could formulate better strategies for the benefit of our people and the region as a whole.

I wish all of you success in your future undertakings.

Mahuhay

Prof. Jose P. Del Rosario, JR  
Ambassador of the Philippines



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DR. MAHDI KARTASASMITA

Chairman


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## MESSAGE

I am delighted to know that the 9 months sixth Post Graduate Course on Remote Sensing and GIS of CSSTEAP started in October 1st, 2001 has succeeded and today, June 30th, 2002 we are witnessing the closing ceremony of the Course. By completing the Course successfully, it is an indication to us that the CSSTEAP is committed itself to ever-increase amount of scientists and engineers of the Asia-Pacific countries having capability in understanding and applying space technology, one of this is remote sensing technology, for the socio-economic welfare. Certainly, such the CSSTEAP commitment can be taken into reality owing to supports and contributions of various parties. As such on this occasion I would like to thank the parties comprising the Government of India and its related institutions, the United Nations Office for Outer Space Affairs (UNOOSA) and other related regional and international organization having supported the CSSTEAP to meet with success.

For the students having completed the Course, I believe that during the Course all of you have learnt many useful things concerning applications of remote sensing and GIS in resolving real problems of natural resources and environment confronting each your country. As we all know that over times remote sensing technology is an imperative than an option in precisely handling some natural resources and environment problems. Most of countries in the region are facing the critical problems of natural resources and environment. It is therefore of you not to let your expertise gained during the Course in vain, but it should be dedicated for the maximum benefits of your respective country through your involvement in activities of resolving such the problems. In addition, I indeed hope that good relation tied to each other of the students during the Course could be maintained, which in turn, to enhance cooperation in space technology applications, in particular remote sensing and GIS applications, among countries in the region.

Finally, I would like to congratulate the students for having successfully completed the Course and wish all of you success in your future endeavours. On this occasion, my special thank goes to Chairman of Indian Space Research Organization (ISRO) as Chairman of the Governing Board and also to Director, Course Directors, faculties and staff of CSSTEAP for their untiring work in furtherance of the CSSTEAP for the benefit of human resources development of countries in the region in the fields of space technology applications.

  
Dr. Mahdi Kartasasmita  
Ch



**KAMOL M. MUMINOV**  
Director General  
O'ZBEKISTON DAVLAT KOINOTNI  
Tadqiq Etish Agentligi  
Uzbekistan State Space Agency

## MESSAGE

On behalf of "Uzbekcosmos" Agency and my own I would like to congratulate the students of the sixth nine-month postgraduate course on Remote Sensing and GIS for completing the course and wish all of them great success in their future and endeavors in native countries.

I would like to point that Remote Sensing and GIS technology has made great advance and continue to play a very important role in the development of natural resources and improvement of global environment. Rapid development of remote sensing and GIS technology requires constant upgradation of skills. That is why CSSTEAP courses are a great opportunities for all countries of Asia and the Pacific to have good high qualified specialist of space technology applications in their countries.

On this happy occasion, I would like to express my thanks to the Government of India and the Board of CSSTEAP for their support and honour work and wish CSSTEAP success in the future.

I would like also to extend my congratulations to Dr. Karl Harmsen on the occasion of his engage in position of CSSTEAP director and wish him great success in his nobal work.

Kamol M. Muminov  
"Uzbekcosmos" Agency



RANGNATH R. NAVALGUND

Director

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## MESSAGE

It is indeed delightful to see that the sixth postgraduate course on Remote " Sensing and GIS is coming to a successful conclusion on June 30, 2002. The course has attracted 20 participants from 13 countries and academic recognition is provided by Andhra University. The National Remote Sensing Agency has provided full support to the conduct of the course through the Indian Institute of Remote Sensing.

The series of remote sensing & GIS courses being conducted by CSSTEAP is of immense significance to the region of Asia-Pacific. It is common knowledge that the region is predominated by agricultural land use practices and the economies are slowly transiting into a phase of infrastructure development. This typical combination of harmonizing technology and nature, calls for deep understanding of environmental processes & vagaries in an organized manner. This is where, remote sensing and GIS have a tandem role to play. In view of this, the conduct of the said post graduate course by CSSTEAP and preparing trained manpower in the region are of profound significance. We have also seen from the professional progress of participants who have passed out from CSSTEAP on earlier occasions that the mission of the Centre has been producing timely and appropriate dividends.

I am immensely pleased with the progress and learning ability of the students of the Centre. The projects that have been pursued by the students are found to be of high relevance to their respective countries in particular and to the region in general.

While reassuring the centre and its students that the NRSA will always come forward to provide all possible professional help, I take this opportunity to congratulate the students on their success and wish them the very best for future.

*R. R. Navalgund*  
R. R. Navalgund



PROF. B. L. DEEKSHATULU  
Ex. Director, CSSTEAP

## MESSAGE

The RS & GIS 9-month CSSTEAP Course participants have certainly enriched their knowledge because of the quality and quantity of the content delivered through IIRS. Now, the country participants should utilize this knowledge in their work/organization and also promote the development of this discipline through a multiplication process. While some applications of RS & GIS are standard, there could be many areas in which GIS & RS can serve as a valuable tool and this depends on the ingenuity of the participants.

I congratulate all the participants of this course and also CSSTEAP and IIRS for successfully educating another batch of students.

With Best Wishes

PROF. B. L. DEEKSHATULU



S.M. VIRMANI,  
Ph.D.

Formerly Principal Scientist,  
Natural Resource Management Program,  
International Crops Research Institute for the Semi-Arid Tropics,  
ICRISAT

## MESSAGE

It gives me great pleasure to know that a multi-country group of scholars has successfully completed the post-graduate course on Remote Sensing (RS) and Geographic Information System (GIS) sponsored by the Centre for Space Science and Technology, Education in Asia and the Pacific (CSSTEAP) at the Indian Institute of Remote Sensing (IIRS), Dehradun, Uttaranchal, India. Remote Sensing and GIS are two critical space science tools that can be effectively used for determining the state of our environmental resource base consisting of the land, the top-soil, the water, the vegetation (including forests) and its biodiversity, the climate etc. All of these natural resources underpin our food and economic security. Yet, today we are depleting and degrading these environmental resources at rates, far surpassing their capacity to regenerate, and are thus severely impoverishing our planet. A better appreciation of our natural and environmental resources by Remote Sensing and GIS-based technologies can certainly enhance our capacity to draw up a strategy that will allow their full and sustainable utilisation. The participants of 2002 course. I am sure, are well trained to sustain our natural resources and are poised to reverse the challenges posed by environmental degradation. I trust they will take up research projects to investigate the sources of the decline of the natural resource-base in their countries during their future studies. Let me close, by congratulating the Course Coordinator, the Dean of IIRS and the Director of CSSTEAP for a job well done; and by wishing the participants a bright future.

S.M. VIRMANI