

Telangana State Remote sensing Applications centre

Volume II Issue 1

January

CATALYST *for*

TRACR's THRIVE

A monthly e-magazine

Thought for the month: "There are no mistakes, no coincidences. All events are blessings given to us to learn from"— Elizabeth Kubler-Ross

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Kudos to best performers

Appreciations to Miss Sony for taking an initiative to compeer for Christmas celebrations.

To attender Ramesh for organising performances of children from mother care home.

From the Publisher's desk

We wish you a very happy new year 2016!

After the introduction of office magazine Catalyst Volume I. We are delighted to introduce this first edition of "catalyst for tracr's thrive". news letter Volume II. We intend to make it a monthly publication. In this and in future editions, we shall be reporting developments in the projects carried by the six divisions and events that takes place in our organization.

We encourage you to share your research with capacity building members. Any feedback on conferences attended, items of interest, publications that you have found useful or problems that you may have encountered are most welcome.

We have aimed to sign you up for our news letter in the hopes that you will find great value in its content and that it will aid us in building a communication system among our scientific and administrative divisions and also in your own goals to grow and thrive.

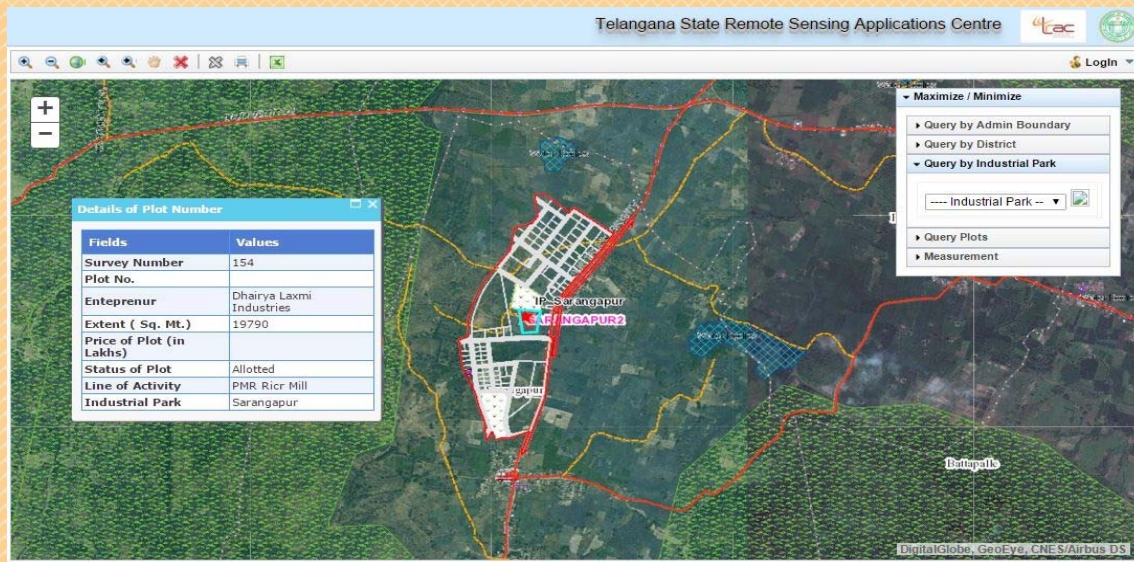
_ Capacity Building

Mapping of Industrial Infrastructure- Web based Application

Telangana State Industrial Infrastructure Corporation (TSIIC) a Telangana State government initiative for providing infrastructure through development of industrial areas, wanted TRAC to develop a web based application on Industrial Infrastructure information. This project was initiated in the month of November and TRAC successfully built the application with 34 industrial layouts mapped and overlaid with layers such as water bodies, Road, rail, fire stations, power distribution lines, airports, land Use/

Land cover information layers along with attribute information such as commercial units, common facilities, Open spaces, private land etc demarcated within the industrial layout.

This information as a web based application catered along with various search and query options will be very helpful and informative in finding open spaces, places allotted, places not available etc, within the given industrial park layouts. As seen in the image, at high zoom level these industrial spaces are shown by "star" symbols and are of different colours, where these colours represent pollution levels of each layout. TRAC now is busy in updating these layouts with necessary attribute information.



Web application developed on GIS platform for displaying and editing the industrial layouts and its information provided by TSIIC

Role of ISMS in "Drought declaration" by State Government in the year 2015 - A success story

Government have been reviewing the seasonal conditions from time to time in the State during the South West Monsoon 2015. During the South West Monsoon Period (1.06.2015 to 30.09.2015), the State has received an average rainfall of 610.8 mm as against normal rainfall of 713.6 mm, with a deviation of(-)14%. Several mandals spread over seven districts have received deficit rainfall along with severe dry spells that have caused withering and drying up of crops that is likely to result in drastic yield reduction of several major rain fed crops.

The District Collectors have reported that Mandals in their districts received scanty / deficit rainfall with dry-spells resulting in reduction in yield due to moisture stress to the crops sown. Government constituted a Committee for declaration of drought in the State.

Integrated seasonal condition monitoring system (ISMS) of Agriculture & Soils division of TRAC is developed for the study of cropping system

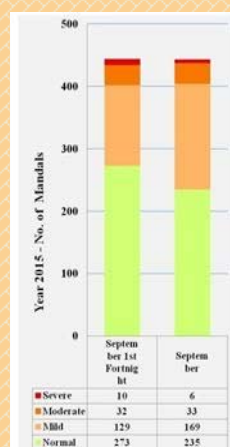
evaluation in different districts, such as, crop intensification and crop diversification, Crop Area, Production and condition Assessment, Soil Resource Mapping and Soil Informatics. ISMS rationally monitors the seasonal conditions on a fortnightly/monthly basis at State/District/ Mandal level in order to plan and implement effective drought management strategies.

Being one of the members of the committee, ISMS of TRAC played a key role in mandal level drought assessment and declaration of drought effected mandals in the state by the government of Telangana.

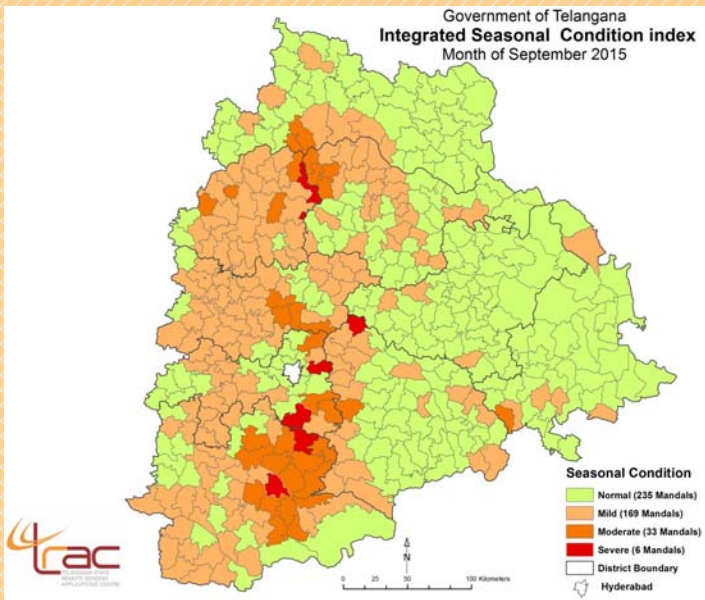
TRAC In association with NRSC, has developed a mobile app for field data collection "Bhuvan crop yield". With this, the location details along with attribute and field photograph gets stored in the server. Data from here can be displayed on the map instantly. This reduces time delays and improves efficiency.

TRAC web team also has geared up in preparing such mobile applications for few more projects for the betterment of field data collection.

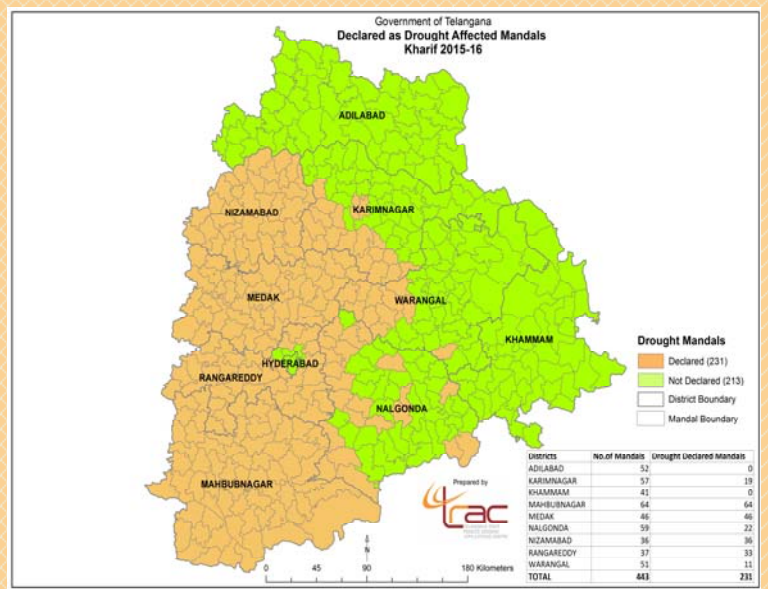
Bare graphs comparing the crop condition for the months of June and July 2015



Mobile Application for field data collection for crop yield estimations



Drought levels in the mandals of the state arrived by TRAC



Mandals declared as drought prone by Govt. of Telangana

Conference on Advanced Technology for cadastral survey and land records towards Digital India.

A recent conference participated by TRAC

Telangana government has decided to update and open up entire domain of land records to public, as a step towards bringing transparency and accountability in administration. In this regard a National conference on Advanced Technology for Cadastral Survey and Land records towards Digital India was organised on 27th and 28th of November 2015 hosted by Centre for Land Use Management (CLUMA). J Raymond Peter, chief commissioner for Land Administration (CCLA), was invited as the chief guest to the conference.



J Raymond Peter, chief commissioner for Land Administration (CCLA), invited as the chief guest

TRAC being one of the sponsors had an opportunity to display all its projects outputs and maps in a stall along with other sponsors like NRSC, IIRS, Trimble India etc. Public and Private organisations and Institutions who participated in the two day technical program gave their suggestions and displayed their advances of technology in cadastral survey techniques.



Director General of TRAC Sri B.P. Acharya visiting the stall put up by TRAC

Speaking in the conference the chief guest Mr. J Raymond Peter said that, very soon resurvey of Land records will start in Telangana as our maps and records are in bad shape and have been fragmented. Old records are not in sync with that on ground. Land grabbing has become a major threat. Resurveying would help in solving land related issues. He also stressed the need to link technology and resources with owners to avoid encroachments.

Sri B.P Acharya, Principal secretary to Government, Planning department was felicitated along with Mr V.K Dadhwal Director of NRSC. This was followed by distribution of Gold Medal and certificate of Excellence. Dr A. V Subbarao, Principal scientist received it on behalf of TRAC.



Inauguration of books released by NC Gautham



Principal scientist Dr.A. V Subbarao receiving gold medal on behalf of TRAC

Christmas and New Year celebrations at Telangana State Remote sensing Applications centre

Wave of delightfulness splash all over office on the eve of Christmas, Director General of TRAC Sri B. P. Acharya, Principal Secretary to Government. Planning department, spoke a few valuable words addressing the office staff. He advised the staff to work collectively in harmony reminding the words from The holy Bible which says, "Love others as thy loves one's self".



Director General attending the Celebrations as chief guest along with Pastor Bala Swamy



Director General addressing the gathering
Children from "Mother Care Home", Ghatkesar performed dance and carol singing in praise of the

lord. Miss Sony, Mr.P. Chiranjeevi, Mr.J Rajeshwar, D.Krishnaiah, Mr Baburao, Miss Pushpa, Mr A. Ravi, and Ramesh have organised the day. Children were given with school bags, gifts and also an amount of Rs.10,000 was sanctioned by the Director General as a token of encouragement to the needy young students.



Director General posing for a snap along with children from Mother Care Home

The program concluded with cake cutting and distribution of refreshments to staff and students. Christmas bestowed its fervours among all attendees and participants.



Director Admin. Rufus Datham along with pastor Bala swamy giving a token of appreciation to the organisers



Director Admin. Rufus Datham along with Administrative staff and Union members presenting a bouquet to the Director General of TRAC Sri B.P. Acharya in his chamber wishing the best for the New year 2016.