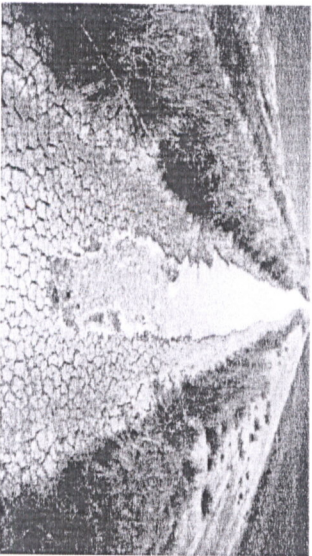


A Two day workshop on  
**“Water Resources in Rayalaseema Region:  
Issues, Challenges and Solutions”**  
(7/3/18 & 8/3/18)



**ABOUT THE WORKSHOP:**

Rayalaseema region is located in the southern part of Andhra Pradesh State surrounded by Tamilnadu, Karnataka and, Telangana States. This region consists of four districts namely Anantapur, Chittoor, Kadapa, and Kurnool. The entire Rayalaseema region is a drought prone area with very minimal natural water resources and very low rainfall. Because of this reason, the ground water levels are at abnormally higher depths such as nearly 21 meters on an average whereas it is about 12 meters for coastal Andhra Pradesh region.

Average rainfall for the Rayalaseema region is 646 mm whereas for the coastal AP region it is 949 mm and for the entire AP State it is 855 mm. These statistics reflect the deplorable situation of water resources in Rayalaseema region. The major rivers flowing in this region are Krishna, Tungabhadra, Pennar, Chitravathi and Swarnamukhi. In addition, there are minor rivers like Papagni, Cheyyeru, Sagileru, and Kunderu etc. The tragic situation is that most of these minor rivers are dry throughout the year and in summer even major rivers like Krishna will be flowing with a very low level of water. The cultivable land is decreasing day by day because of scarcity of water thereby making the farmers to migrate to distant places as labourers. The status of availability of potable drinking water and the quality are also alarming.

The major irrigation projects existing in the region are Telugu Ganga Project, Galeri Nagari, Sujala Stravanthi (GNSS), Handri-Neeva Sujala Stravanthi (HNSS), Tunga Bhadra High Level Canal (TBPHLC), Tunga Bhadra Low Level Canal (TBPLLC), and Kurnool-Cuddapah (KC) Canal etc. In addition to the above projects, there are many medium and minor irrigation storage reservoirs existing in the region. In spite of the availability of these and erratic rainfall, Realizing the need to address this serious problem and to evolve suitable solutions either in terms of new technologies or new agricultural practices, a two day workshop is planned with the following objectives:

1. To invite the eminent experts from the academics and experienced field engineers to share their expertise on Water Resources management
2. To discuss about the possible solutions and the challenges in implementing the solutions.
3. To discuss about the best irrigation practices in arid zones throughout the world and also the role of technology in alleviating the problem.

4. To discuss about the frame work and role of different Government and NGOs in the effective implementation of the workshop outcomes.

**The State Government is keen on conducting the workshops of this kind to invite solutions for realistic problems. It is expected that the Ministers of Concerned departments from AP State Government may take active role in this workshop.**

**About the College:**

JNTUA College of Engineering, established in the year 1946 is one of the prestigious Institutions in India. The College has a rich history and glorious track record in academics and research. Over the years, there has been tremendous progress in facilities and infrastructure, to keep the college on par with the higher learning institutions in the country. The college is playing a vital role in producing skilled and well trained technical man power in various areas of technology, viz., Civil Engineering, Mechanical Engineering, Electrical & Electronics Engineering, Electronics & Communications Engineering, Computer Science & Engineering, and Chemical Engineering.

**About the Department:**

The Department of Civil Engineering is one of the oldest departments of the college which was established in 1946. The department is presently offering Under Graduate, Post Graduate and Ph.D. programs in Civil Engineering. The department is having highly experienced and knowledgeable senior faculty specialized in areas like Structural Engineering, Geo-Technical Engineering, Transportation Engineering and Water Resources Engineering. The alumni of the department are occupying distinguished positions in reputed organizations and often contribute in the development activities of the department. This department is also actively involved in Industrial Consultancy Services in the areas of Material Testing, Soil Testing, Water Quality Testing and Assessment of Soundness of Old Buildings.

**TARGET PARTICIPANTS**

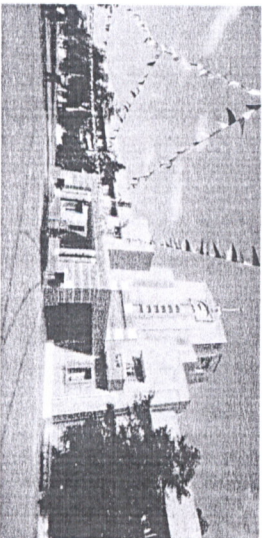
The target group of workshop comprises of Engineers from Irrigation and Ground Water Departments, Students and faculty of Civil Engineering Departments of various colleges.

**RESOURCE PERSONS**

The resource persons in the workshop are drawn from premier academic institutions like IISc, IITs, and NITs etc., and senior level field engineers from Irrigation, Water Resources and Ground Water Departments.

**ORGANIZED BY**

**Department of Civil Engineering,  
JNTUA College of Engineering  
Ananthapuramu (Autonomous)  
Ananthapuramu, Andhra Pradesh**



**REGISTRAR**

**J.N.T.U. Anantapur  
ANANTAPURAMU-515002**

REGISTRAR  
J.N.T.U. Anantapur  
ANANTHAPURAM-515002

H T A

Venue : College Auditorium, JNTUA  
Date : 08-03-2018 Time : 03-45 PM

Chief Engineer Projects, Water Resources Department, Ananthapuram  
will Preside over the function  
Principal, JNTUA CEA

**Prof. K. Prahada Rao**

**Sri B.Sudhakara Babu**

Guest of Honor

Hon'ble Vice Chancellor, JNTUA  
**Prof. S. Srinivas Kumar**

*Chief Guest*

" Water Resources in Rayalaseema Region : Issues , Challenges and Solutions "

Two Day Workshop on

of

VALEDECTORY FUNCTION

solicits your gracious presence at the

JNTUA CEA  
CIVIL ENGINEERING DEPARTMENT

Andhra Pradesh

JNTUA College of Engineering ( Autonomous ) Ananthapuramu - 515002,

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

INVITATION



Venue : College Auditorium, JNTUA  
Date : 07-03-2018 Time : 10-00 AM  
Lunch : 1.00 PM

Chief Engineer (Projects), Water Resources Department, Ananthapuram  
will Preside over the function  
Principal, JNTUA CEA

**Prof. K. Prahada Rao**

**Sri B.Sudhakara Babu**

Key Note Speaker

Hon'ble Vice Chancellor, JNTUA  
**Prof. S. Srinivas Kumar**

*Chief Guest*

" Water Resources in Rayalaseema Region : Issues , Challenges and Solutions "

Two Day Workshop on

of

INAUGURAL FUNCTION

solicits your gracious presence at the

JNTUA CEA  
CIVIL ENGINEERING DEPARTMENT

Andhra Pradesh

JNTUA College of Engineering ( Autonomous ) Ananthapuramu - 515002,

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

INVITATION



**PROGRAM SCHEDULE**

7/3/18

09.00 - 10.00 AM Registration  
 10.00 - 11.00 AM Inaugural Function  
 11.00 - 11.30 AM Tea Break  
 11.30 - 01.00 PM Session - I  
 01.00 - 02.00 PM Lunch Break  
 02.00 - 03.30 PM Session- II  
 03.30 - 03.45 PM Tea Break  
 03.45 - 05.15 PM Session- III

8/3/18

10.00 - 11.30 AM Session -IV  
 11.30 - 11.45 AM Tea Break  
 11.45 - 01.00 PM Session - V  
 01.00 - 02.00 PM Lunch Break  
 02.00 - 03.30 PM Session- VI  
 03.30 - 04.00 PM Tea Break  
 04.00 - 05.00 PM Valedictory Function

**REGISTRATION**

Registration fee is as follows:

Students: Rs.200

Faculty & Field Engineers: Rs.500

The payment shall be made in the form of DD favoring "The Convener (WRRICS), JNTUA, Anantapur. The participants are requested to send their registration forms on or before **24.02.2018**. Spot registration facility is also available.

**ACCOMMODATION:**

Limited accommodation is available for lady participants and will be provided on first-cum-first served basis.

**CONTACT DETAILS.**

Dr. R. Bhavani,  
 Associate Professor  
 convenortwrics@gmail.com  
 9490981954

**REGISTRATION FORM**

Reg. ID (for office use only) :				
---------------------------------	--	--	--	--

**Personal Details:**

Name :  
 Designation :  
 Department/College Name:

Address:

**Communication Details:**

Mobile :  
 E-Mail :  
**Payment Details:**  
 DD No: Bank:

Accommodation Required: YES/NO

Signature of the Applicant

The application is forwarded with favourable recommendation and sponsorship of the candidate.

Signature of HOD/Higher Authority

(Note: This form may be photocopied for additional requirement)

**Chief Patron**  
 Dr. S. Srinivas Kumar,  
 Vice-Chancellor,  
 JNT University Anantapur

**Patrons**  
 Prof. D. Subba Rao  
 Rector,  
 JNT University Anantapur

**Prof. S. Krishnaiah**  
 Registrar  
 JNT University Anantapur

**Co - Patron**  
 Prof. K. Prahalada Rao  
 Principal,  
 JNTUA College of Engineering,  
 Ananthapuramu

**Chairman**  
 Prof. P.R. Bhanu Murthy  
 Head of the Civil Engineering Department  
 JNTUA College of Engineering,  
 Ananthapuramu

**Convener**  
 Dr. R. Bhavani  
 Associate Professor  
 Civil Engineering Department  
 JNTUA College of Engineering,  
 Ananthapuramu

**Organizing Committee**  
 Prof. H. Sudarsana Rao  
 Prof. V. Bhaskar Desai  
 Prof. S. Krishnaiah  
 Prof. C. Sashidhar  
 Prof. Vaishali. G. Chorpad  
 Dr. E. Arunakanthi  
 Smt. B. Ajitha

**REGISTRAR**  
 JNTUA Anantapur  
 ANANTAPUR, ANDHRA PRADESH-515002



S.No	Name with Cell number	Designation with Address	DD No./Cash/ Sponsored by	Signature
1	941806855 G. Soreda	Superintendent engineer Kadapa WPD	Sponsored	<i>G. Soreda</i>
2	9440903878 S. Dhanalakshmi	Deputy Superintendent Engineer TAPES Division, Kadapa	Sponsored	<i>S. Dhanalakshmi</i>
3	9440903341 P.V. Balaji Rao	Executive Engineer TAP Pamavathi	Sponsored	<i>P.V. Balaji Rao</i>
4	8332597785 M.V. Sushrutha	Deputy Exec. Engineer, HTP	Sponsored	<i>M.V. Sushrutha</i>
5	897748549 P.D. Mohan Gandhi	My Executive Engineer, P.B.C.	Special	<i>P.D. Mohan Gandhi</i>
6	8978103589 M.K. Kiran Kumar	Executive Engineer Chittoor	Sponsored	<i>M.K. Kiran Kumar</i>
7	6300970393 P. Madhusudhan Reddy	SF Guss/Kadapa P. Ravi Naidu Ex. Engineering Superintendent	Cash	<i>P. Madhusudhan Reddy</i>
8	9490619495 K. Sreenivasulu	Ex. Engineering Superintendent TAP. Narayanpeta	Cash	<i>K. Sreenivasulu</i>
9	9490612487 M. Jagannadha Rao	P. B. H.N.S. Guntakal	Cash	<i>M. Jagannadha Rao</i>
10	9490487033 P. Bhaskar Reddy	Formerly Executive Engineer HTP	Cash	<i>P. Bhaskar Reddy</i>
11	9490481692 K. Madhukrishna	HEE dt H.N.S. Guntakal	Cash	<i>K. Madhukrishna</i>
12	9490363460 S. Jayappa	HEE dt S. Madanavathi	Cash	<i>S. Jayappa</i>
13	7838880098 S. Sivasankar	AEE Guntakal	Sponsored	<i>S. Sivasankar</i>
14				
15				
16				
17				
18				
19				
20				

Two day workshop on Water Resources in Rayalaseema Region: Issues, Challenges and Solutions

Registration Forms

Completed

WRD-2

3

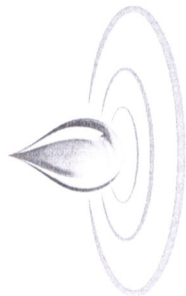


**JNTUA College of Engineering (Autonomous)**

జాతీయ విజ్ఞాన దినోత్సవం  
ఆంధ్రప్రదేశ్ ప్రభుత్వం  
ఆంధ్రప్రదేశ్ విశ్వవిద్యాలయం  
ఆంధ్రప్రదేశ్ ప్రభుత్వం  
ఆంధ్రప్రదేశ్ ప్రభుత్వం

**Ananthapuramu**

Civil Engineering Department



# Certificate

This is to certify that Mr / Ms T. HEMACHAND, SREE RAMA CLS, TPT has attended a Two day Workshop

on " **WATER RESOURCES IN RAYALASEEMA REGION : Issues, Challenges and Solutions** " conducted in

Civil Engineering Department on **07<sup>th</sup> & 08<sup>th</sup> March 2018** .

**Convener**

Convener (WRRICS)  
JNTUA, Anantapur



REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002



Chairman

HEAD

Department of Civil  
JNTU

REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPUR-515002

H  
→



## A Report on Water Resources in Rayalaseema Region Issues & Solutions

The Civil Engineering Department Organised Water Resources in Rayalaseema Region Issues Challenges & Solutions on (7/03/2018 & 8/3/2018). The Speakers are

1. Prasad Reddy N.R.S-Irrigation, kadapa, S.E
2. L. Maqbool Sahab S.E Minor Irrigation -ATP
3. Viswanathan E.E Kuenool -Minor Irrigation

subrao Retied C.E mesure to be taken to improve ground water in chittoor District

1. Conservation of Water by improving greenery.
2. Rejuvenation of ground water table through rain water harvesting by surface run-off harvesting, roof top rain water harvesting re-charging bore wells, dug wells & pits recharging of trenches soak pits with recharge shafts construction of percolation tanks & check dams, subsurface dams with recharge shafts.
3. Modernization of the system of agriculture, horticulture and sericulture
- a) Change of cropping pattern b) Reducing the extent of raising paddys crops & increasing fruit, flowers & vegetables gardens.
- d) inter linking of stream of system from micro irrigation such as sprinkler, drip etc.
2. interlinking of stream from micro to macro level. Some problems are ananthapuramu district resources from micro to macro level. 1. The population of district 40,83,315 as per 2011 census consisting of around 2.70 lakhs families are depending on agriculture.
2. the development of runoff in the district is less and hence feasibility of construction of new irrigation tanks is remote.
3. drinking water problem-At present the district administration is supply drinking water to 10 villages and may increase to around 500-1000 villages in summer.
4. unemployment-no industries to scarcity of water.
5. Helath problems-flouride content and communicable diseases.
6. ground water table -now the ground water table is at adepth of 17 meters it is to be brought to depth of 3-8 meters.

The conovor for Water Resources in Rayalaseema Region Issues Challenges & Solutions was Professor R. bhavani.

REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

