



# TELECOM RESEARCH & DEVELOPMENT ASSOCIATION

**TRDA**

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**CERTIFICATE OF REGISTRATION  
UNDER SOCIETIES REGISTRATION ACT XXI OF 1860**

**Registration No. SI 68744 /2010**

I hereby certify that Telecom Research and Development Association

Located at A-0-21, Lajpat Nagar, New Delhi - 110024


\_\_\_\_\_ has been registered\*under  
**SOCIETIES REGISTRATION ACT OF 1860.**

Given under my hand at Delhi on this 06 day of  
May Two Thousand Ten.

**Fee of Rs. 50/- Paid**



**Registrar of Societies  
Delhi**

  
( VISHVA MOHAN )  
**REGISTRAR OF SOCIETIES  
GOVT. OF NCT OF DELHI  
DELHI**  
4/3/10

\* This document certifies registration under the Society Registration Act, 1860. However, any Govt. department or any other association/person may kindly make necessary verification (on their own) of the assets and liabilities of the society before entering into any contract/assignment with them.

## Awareness with Telecom Industry



TRDA founded in Mar'2010 by Telecom professionals with a aim to start Research & Development work in India for Telecom industry.

We are going to start research & development chapter in engg collages with the help of telecom professionals.



**EVEN WE ARE  
IN THE WORLD OF  
COMMUNICATION, STILL  
WE ARE FAR AWAY FROM  
HUMAN TO HUMAN  
COMMUNICATION**

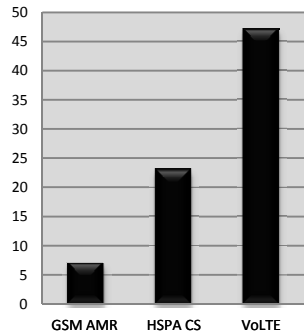
To commence the work for research & development for next generation mobile communication, aiming apex position of India in forthcoming telecom generation.

We are creating a platform for Telecom professionals to put their thoughts & voice at a common platform.

# JOINT PROGRAM WITH YOUR INSTITUTION



## TELECOM AWARENESS



- Our associates will teach students about telecom technology like 2G, 3G, LTE by taking weekly/fortnightly classes.
- will share the present telecom growth in India like mass 3G role out is just started in all circle, LTE started in 4 circle.
- share the new requirements of telecom industry like now required 3G planners in industry, LTE optimization professionals.

## PROMOTE & START RESEARCH WORK IN TELECOM



- Will start our research work with your students.
- Provide platform to enter in telecom research work.
- Teach them new technology & innovation going on in telecom industry.
- presently we are working on following research work:
  - Telecom service by using Drone.
  - Mechanical mobile charger.
  - understanding base station & MW equipments.

## PREPARE STUDENTS FOR TELECOM INDUSTRY



- will groom professional culture & awareness about official working, telecom software's, network rollouts.
- we will provides guidance to students for entering telecom companies, carrier options available in telecom industry

# Major Players in Telecom Sector – Opportunity For Students



## OPERATOR

- AIRTEL
- IDEA
- RIL
- RIL JIO
- AIRCEL
- VODAFONE
- TATA DOCOMO
- BSNL

## VENDOR

- Nokia
- Ericsson
- Huawei
- ZTE
- Samsung

## SUB-VENDOR

- Aircom
- Vedang
- IWS
- Metrotel
- GTL
- Comviva



# Indian Telecom Industry – A Lucrative carrier option



*In recent years, the Indian telecom industry has witnessed phenomenal growth.*

*A conducive business environment, favourable demographic outlook and the political stability enjoyed by the country have contributed to the growth of the industry.*

Strengthen educational and R&D activities in the country



## Indian Telecom Industry – Facts

- One of the fastest growing cellular markets in the world.
  - High Annual growth rate of the telecom subscribers worldwide.
  - Major part of GDP to be contributed by and depends on the telecommunication.
  - Govt alone cannot provide resources to meet the targets.
- Telecommunication with Morse Code : 1845-1847
  - First Telegraph office in India (Calcutta) :1852
  - First exchange in India (50 lines ) :1882
  - J. C. Bose transmits wireless In lab. :1895
  - First private landline service in India (Indore) :1998



# STARTUP IN TELECOM: DRIVE TEST ENGINEER



KIT Based

- Highly Portable
- Scripting individual tests
- Special tests sequences possible



Phone Based

Freq	CellType	SC	Ec/Io	RSCP
10812	Active	53	-10.74	-107.32
10812	Monitored	59	-15.16	-116.00
	Detected	1	-16.77	-106.77
	Detected	397	-11.23	-107.23
	Detected	2	-16.18	-106.18

Upload log

10 Minutes

Problem Analysis Layer 3 Display

Drive Test Grade data  
Automatic Test  
Vehicle Drive Test

Summarize Results  
Create Reports  
Remote script assignment

Excel report based on customer's report format





**THANKS**