

## Dr. K. V. Ramana Rao

### Brief Bio-data

#### DR. K. V. RAMANA RAO

M.Sc. (Tech) Engineering Physics, NIT, Warangal (A.P)  
Ph. D. (IIT, Mumbai)

Honorary Faculty Member,  
Department of Electronics and Computer Science,  
RTM Nagpur University Campus,  
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#### Educational Qualifications

M. Sc. (Tech) Engg. Physics, Ph. D. (IIT Mumbai)

**Research Work:** Studies on crystal morphology and sensitivity of some high energy materials

#### Positions Held

- Honorary Teaching Faculty at LIT, RTM Nagpur University, Nagpur since 2004
- Honorary Teaching Faculty at Department of Electronics and Computer Science, Nagpur University, Nagpur since 2013

#### Memberships

- Life member, Indian Institute of Mineral Engineers (IIME)
- Executive Committee member, Indian Institute of Mineral Engineers (IIME ) Local Chapter
- Executive Committee member, Indian Institute of Metals, IIM, Nagpur Chapter

#### Research Profile

##### Major R&D Projects completed:

1. Extraction, Characterization , Removal/ Control of organic impurities in Bayer Process (**35 lakhs**), Ministry of Mines, GOI
2. Establishment of downstream processing laboratory at JNARDDC, (**230 lakhs**) Ministry of Mines, GOI
3. Development of rapid analytical procedures for bauxite and semi-quantitative analysis of scrap aluminum (**25 lakhs**), Ministry of Mines, GOI
4. Grain refining of commercially available grain refiners, **Rs 10 lakhs** (NALCO)
5. Characterisation of casting and rolling defects for strip cast Al alloys **35 lakhs** (NALCO)
6. Development of Integrated Technology for processing of East Coast bauxite for the production of alumina **Rs 34.42 lakhs**, (NALCO)

7. Identification and quantification of organic impurities in Titanium Tetrachloride, DMRL,DRDO, Rs 50,000/-
8. Simulation of Die Design for aluminum extrusion products (MOM,GOI) (**50 lakhs**)

#### **Research Publications**

- Published more than 80 research papers in national journals and presented more than 10 papers at National and International Seminars

#### **Research Areas of Interest**

- Engineering Physics
- Electron Microscopy
- Solid state Electronics
- Characterization of Materials
- Aluminum technology
- Mechatronics