



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)

Gandipet, Hyderabad-75

Department of Electronics and Communication Engineering

Sponsored R&D Projects Completed

| S. No. | Title of the Project | Funding Agency | Name of the Scheme of Sponsored / Consultancy | Amount Sanctioned | Sanction Order | Period and Duration of Project | Name of the PI | Name of the Co-PIs | Remarks |
|--------|--|----------------------|---|-------------------|--|---|----------------------|--|-----------|
| 1. | Analysis of Printed slots and slot Coupled Radiators using MOM | AICTE, New Delhi | RPS | 3.5 Lakhs | 2004 8020/RID/NPROJ/R&D Dt. 10.03.2003 | (2003-06) 3 Years | Dr.N.V.Koteswara Rao | ----- | Completed |
| 2. | Data Processing Techniques to Improve Real-time Performance of GNSS Systems | DST, New Delhi | SERB | 9.404 Lakhs | 2012 SR/S4/AS:89/2012 (dated 25.09.2012) | (2012-14) 2 Years | Dr. D. Krishna Reddy | Dr.A.D.Sarma | Completed |
| 3. | Design and Development of Palm Leaf Character Recognition System | AICTE, New Delhi | RPS | 7.31 Lakhs | 2013 (AICTE Order No. 20/AICTE/RIFD/RPS(Policy- 1)25/2013-14) | (2013-16) 3 Years | P N Sastry | Dr.N.V.KoteswaraRao | Completed |
| 4. | Multifunction Frequency and Time-Domain Signal Analyzer for Testing and Performance Evaluation of Cellular and Navigation Components and Systems | AICTE, New Delhi | MODROBS | 20 Lakhs | 2015 (9- 89/RIFD/MODROB/Policy- 1/2014-15 dated 03 March 2015) | (2015-18) 3Years It was extended up to 2018 | Dr.N.V.KoteswaraRao | Dr.A.D.Sarma | Completed |
| 5. | A Local Short Term Model for Forecasting Ionospheric Scintillations for GNSS Applications over Indian Region | ISRO, Bangalore | RESPOND Programme | 17.66 Lakhs | 2015 ISRO/RES/2/399/15-16, dated 13 th July 2015 | (2015-18) 3 Years | Dr.A.D. Sarma | Dr. N. V. KoteswaraRao Dr.N. Alivelu Manga | Completed |
| 6. | Investigation of the Effects of Ionospheric Spatial decorrelation on Indian GBAS | SAC, ISRO, Ahmedabad | NavIC GAGAN Utilization Programme | 19.37 Lakhs | 2017 Project ID:NGP-11 dated 23 Jan 2017 | (2017-20) 3 Years | Dr. A. Supraja Reddy | Dr. N. V. KoteswaraRao Dr. K. Suman | Completed |



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|--------|--|------------------------|---|-------------------|---|--------------------------------|------------------------------|--|---------|
| 1. | Development of Nanofoam based Plasmonic structures towards Photo-Electro-Chemical Water-Splitting and CO2 Reduction | SERB, DST New Delhi | Core Research Grant | 56.22 Lakhs | SERB/F/9452/2019-2020 dated 01 Feb 2020 SERB/F/1793/2021-2022 dated 29 July 2021 | (2020-23) 3 Years | Dr. M. Bhanu Chandra | Dr. Abhishek Kumar Shrivastava | Ongoing |
| 2. | A New Model for Short Term Forecasting of Scintillations using Machine Learning Approach and Generation of Regional Scintillation Maps | SERB, DST New Delhi | Core Research Grant | 37, 04, 360 | CRG/2021/001660 | (2022-25) 3 Years | Dr. Dattatreya Sarma Achanta | Dr. D. L. S. Redd and, Dr. D. Krishna Reddy | Ongoing |
| 3. | Analysis and Mitigation of Doppler Collision events using ML algorithms for NavIC System | AICTE, New Delhi | RPS | 19, 61, 333 | 8-34/ FDC/RPS/POLICY-1/2021-22 | (2022-25) 3 Years | Dr. D. Krishna Reddy | Dr.A.D.Sarma Dr. P. Sathish | Ongoing |
| 4. | Machine Learning Based Intelligent Indian Vehicle Network with Relay Assisted mmWave BS System for 5G NR-V2X Communications | SERB, DST New Delhi | SURE | 21,23,364/- | SUR/2022/004990 | (2023-26) 3 Years | Dr. Vinodh Kumar Minchula | Dr. A. Supraja Reddy | Ongoing |



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| 1 | IE 3D software Usage for Microstrip Antenna Simulation | GE India Business Center, Hyderabad | -- | 0.25Lakhs | 2003 | 2003 0.5 Years | Dr. N. V. Koteswara Rao | --- | Completed |
| 2 | Design and Development of DSP Processor Based Signal Processing Unit for Ring Laser Gyro | RCI, DRDO, Hyderabad | CARS | 7.85 Lakhs | 2013 RCI/DCMM/LP/LPD-1/CARS/0313 (dated 03 Sep 2013) | (2013-15) 2 Years | Dr. K. SubbaRao | Dr. N. V. KoteswaraRao Sri E. Chandrasekhar | Completed |
| 3 | Performance Evaluation of IRNSS in the Context of user Position and Velocity | RCI, DRDO, Hyderabad | CARS | 15 Lakhs | 2015 ITS:CARS-336 dated 02 Feb 2015 | (2015-17) 2 Years 9 Months It was extended up to December 2017 | Dr.A.D. Sarma | Dr. D. Krishna Reddy Sri .P. Sathish | Completed |
| 4 | Improvement of Performance of RLG with Wavelet and S-Transform Algorithms | RCI, DRDO, Hyderabad | CARS | 9.75 Lakhs | 2016 RCI/DCMM/LPD/CARS-0368 dated 29 April 2016 | (2016-18) 2 Years | Dr.K.Subba Rao | Dr. N. V. Koteswara Rao | Completed |



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|---------|--|----------------------------------|--|-------------------|---|----------------------------------|-------------------------|----------------------|---------|
| 1 | Design & Development of Multi input and Multi Frequency Antenna for Missile Applications | DRDL, DRDO , Hyderabad | CARS | 9.79999 Lakhs | 2022 DRDL/23CR0004/APS/APS/DOMR/76097 | 30.12.2022-05.01.2024 (one year) | Dr. N. V. Koteswara Rao | Dr. Jeet Ghosh | Ongoing |
| 2 | Study of Static Flow Measurement Technology | SKYLARK SMARTMETRES PVT LTD, Hyd | -- | 2. 58656 | SKYLARK/PO/2022-23/2327 dated 27 March 2023 | March 2023 to Aug 2023 | Mohd Ziauddin Jahangir | G. Mallikharjuna Rao | Ongoing |