



**Name of the Department: Electronics and Communication Engineering**  
**Brief Details of Sponsored and Consultancy Research Projects**  
**(Since Inception of the Department in Chronological Order)**

**A) Sponsored R&D Projects**

S. No.	Name of the faculty	Title of the Project	Scheme & Funding Agency	Amount Sanctioned
1.	Dr.N.V.Koteswara Rao	Analysis of Printed slots and slot Coupled Radiators using MOM	RPS AICTE, New Delhi	3.5 Lakhs
2.	Dr. D. Krishna Reddy Dr.A.D.Sarma	Data Processing Techniques to Improve Real-time Performance of GNSS Systems	SERB DST, New Delhi	9.404 Lakhs
3.	Dr. P N Sastry Dr.N.V.KoteswaraRao	Design and Development of Palm Leaf Character Recognition System	RPS AICTE, New Delhi	7.31 Lakhs
4.	Dr.N.V.Koteswara Rao Dr.A.D.Sarma	Multifunction Frequency and Time-Domain Signal Analyzer for Testing and Performance Evaluation of Cellular and Navigation Components and Systems	MODROBS AICTE, New Delhi	20 Lakhs
5.	Dr.A.D. Sarma Dr. N. V. KoteswaraRao Dr.N. Alivelu Manga	A Local Short Term Model for Forecasting Ionospheric Scintillations for GNSS Applications over Indian Region	RESPOND ISRO, Bangalore	17.66 Lakhs
6.	Dr. A. Supraja Reddy Dr. N. V. KoteswaraRao Dr. K. Suman	Investigation of the Effects of Ionospheric Spatial decorrelation on Indian GBAS	NavIC GAGAN Utilization Programme SAC, ISRO, Ahmedabad	19.37 Lakhs
7.	Dr. M. Bhanu Chandra	Development of Nanofoam based Plasmonic structures towards Photo-Electro-Chemical Water-Splitting and CO2 Reduction	CRG, SERB, DST New Delhi	56.22 Lakhs
8.	Dr.A.D. Sarma Dr. D. Krishna Reddy	A New Model for Short Term Forecasting of Scintillations using Machine Learning Approach and Generation of Regional Scintillation Maps	CRG,SERB, DST New Delhi	37, 04, 360
9.	Dr. D. Krishna Reddy Dr.A.D.Sarma Dr. P. Sathish	Analysis and Mitigation of Doppler Collision events using ML algorithms for NavIC System	RPS,AICTE, New Delhi	19, 61, 333

## Sponsored Consultancy Projects

Sl. No.	Name of the faculty	Title of the Project	Scheme & Funding Agency	Amount Sanctioned
1.	Dr. N. V. Koteswara Rao	IE 3D software Usage for Microstrip Antenna Simulation	GE India Business Center, Hyderabad	0.25 Lakhs
2.	Dr. K. SubbaRao Dr. N. V. KoteswaraRao Sri E. Chandrasekhar	Design and Development of DSP Processor Based Signal Processing Unit for Ring Laser Gyro	CARS, RCI, DRDO, Hyderabad	7.85 Lakhs
3.	Dr.A.D. Sarma Dr. D. Krishna Reddy Sri .P. Sathish	Performance Evaluation of IRNSS in the Context of user Position and Velocity	CARS, RCI, DRDO, Hyderabad	15 Lakhs
4.	Dr.K.Subba Rao Dr. N. V. Koteswara Rao	Improvement of Performance of RLG with Wavelet and S-Transform Algorithms	CARS, RCI, DRDO, Hyderabad	9.75 Lakhs
5.	Dr. N. V. Koteswara Rao	Design & Development of Multi input and Multi Frequency Antenna for Missile Applications	CARS, DRDL, DRDO, Hyderabad	9.79999 Lakhs