

G/CET/318/2017-18, Dt. 19/04/2018

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No. ERIP/ER/1504754/M/01/1719
Directorate of Extramural Research &
Intellectual Property Rights (ER&IPR)
Defence Res & Dev Orgn (DRDO)
DRDO Bhawan, Rajaji Marg
New Delhi-110 011



Dated: 2 Apr 2018

To
Prof. S. Ramana Murthy
Professor
Department of Electronics and Communication Engg.
Geethanjali College of Engineering and Technology
Cheeryal (V), Keesara (M), RR District- 501 301
Telangana

To
Prof. S. Ramana
Murthy
Cheeryal
19/04/18

Sub: Grants-in-Aid for research project titled "Development of Novel Carbon Nanotube/Polymer Nanocomposite Materials for EMI Applications".

Approval of the competent authority DG (TM) is hereby conveyed for a grant of **Rs. 45.81 Lakh** (Rupees Forty Five Lakh and Eighty One Thousand Only), to Geethanjali College of Engineering and Technology, Telangana, for pursuing the research on the subject titled project by Prof. S. Ramana Murthy, Professor, Department of Electronics and Communication Engg., Geethanjali College of Engineering and Technology, Cheeryal (V), Keesara (M), RR District- 501 301, Telangana, as Principal Investigator and Shri E. Rangacharulu of the same Institute as Co-Investigator.

2. The grant shall be spent as follows:

Expenditure on ↓ (Rs in lakh) during →	Year 1	Year 2	Year 3	Line Total
a) Staff : 01 JRF @ Rs. 25000/- pm + HRA @ 30%	3.90	3.90	3.90	11.70
b) Equipment (including spares thereof) Anex 'A'	22.52	-	-	22.52
c) Operation and maintenance	-	-	-	-
d) Expendables	2.00	2.50	2.50	7.00
e) Travel (Domestic)	0.50	0.50	0.50	1.50
f) Contingencies	0.40	0.40	0.25	1.05
g) Visiting faculty or Research Consultant	0.29	0.29	0.29	0.87
h) Procured services (other than (g)) and metered utilities	-	-	-	-
i) Institutional Overheads Charge @ 10% of (a)	0.78	0.39	-	1.17
Column Totals	30.39	7.98	7.44	45.81

Grand total: **Rs. 45.81 Lakh** (Rupees Forty Five Lakh and Eighty One Thousand Only).

3) The project will last for **03 years** from the date of release of the first installment by the PCDA (R&D) and it will be governed by the terms and conditions given overleaf.

4) The deliverables of the project are:-

- An EMI shielding effectiveness (SE) upto 30 dB at the band range of 8.2-12.4 will be obtained for composites with 15%-20wt% SWCNT loading.
- Single layer absorbers with different thickness will be designed, fabricated and tested for EM absorbing properties.

5) This sanction issues in exercise of powers conferred to Sl. No. 3.1 of GOI Ministry of Defence letter No. DRDO/DBFA/IFA/83226/M/01/2031/D (R&D) dated 30th July 2010.

6) The release of funds will be authorized by Accounts Officer of the Directorate of ER&IPR.

7) The expenditure is debitable to Major Head 2080 - Defence Services - Research & Development, Minor Head 004 - Research/Research & Development, Sub-Head (C)- Extramural Research (EMR) Code Head 852/06.

8) This is issued with the concurrence of IFA(R&D) New Delhi vide their U.O. No. 1183/1557. Dated: 05.03.2018.

9) The sanction code of ER&IPR is DG/TM/ERIPR/GIA/18-19/0408/001.

10) Separate savings bank account to be maintained for the project.

11) Interest accrued to be refunded to DRDO through Demand Draft in favour of CDA (R&D), New Delhi.

PRINCIPAL
Geethanjali College of Engg. and Tech.
Cheeryal (V), Keesara (M), Medchal Dist. (T.S.)-501 301

PRINCIPAL
Geethanjali College of Engg. and Tech.
(Sh. Anil Kumar Aggarwal)
Director

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GCET/49/2019-20, Dt. 02/11/2017



No. ERIP/ER/1504754/M/01/1719
Government of India, Ministry of Defence
Defence Research & Development Orgn.
Directorate of Extramural Research and
Intellectual Property Rights
III Floor, 'B' Wing Room No 348 & 349
DRDO Bhawan, Rajaji Marg
DHQ, PO, New Delhi - 110011
24th Oct, 2019

To

✓ The Principal
Geethanjali College of Engg & Tech
Cheeryal(V), Keesara(M)
Medchal Dist. (T.S.) - 501 301

Sub: Change of PI & Addition of New Co-PIs in ER Sponsored Project under Grant-in-Aid on "Development of Novel Carbon Nanotube/Polymer Nanocomposite Materials for EMI Applications".

Ref: Your letter no. GCET/DRDO/056/2019-2020 dated 1st Oct, 2019.

The Principal Investigator (PI) for subject project is Prof. S Udaya Kumar, Geethanjali College of Engineering and Technology, Cheeryal(V), Keesara(M), Medchal Dist. (T.S.) - 501 301. The Co-Principal Investigators (Co-PIs) are:

- I. Prof OVPR Siva Kumar, Department of ECE, Geethanjali College of Engineering and Technology - 201 310
- II. Dr G Neeraja Rani, Department of Physics, Geethanjali College of Engineering and Technology - 201 310

TO
Eklb
Pradeep
Suk
3/02/11

(Anil Kumar Aggarwal)
Director (ER & IPR)

Copy to:

The Director
DMSRDE, DRDO, GT Road, Kanpur- 208 013
Dr Alok Dixit, Sc'F' : Domain Expert
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to
forward copy
Pradeep
25/11/19