



Vidya Jyothi Institute of Technology

(An Autonomous Institution)
(Accredited by NAAC & NBA, Approved by AICTE New Delhi & Permanently Affiliated to JNTUHH)
Aziznagar Gate, C.B. Post, Hyderabad-500 075

Department of Computer Science and Engineering

Details of Research Grants

S.No	Title of the Project	Name of the Principal Investigator/ Co Investigator (if applicable)	Amount Funded (INR in lakhs)	Funding agency	Type (Government/ Non-Government)	Status of the Project (Ongoing / Completed)	Duration of the project	Year of Sanction
1	Design and Development of Routing Protocols For Cognitive Wireless Sensor Networks Using Neural Networks	Dr. K. Ramesh Babu	275000	TEQIP-III, JNTUHH	Government	Completed	2 Years	2019-20
2	Mobile Hardening-Through Hardware and Software	Dr. D. Aruna Kumari	10,00,000	RCI-DRDO	Government	Completed	3 Years	2017-18

A. V. V. V.
PRINCIPAL
Vidya Jyothi Institute of Technology
Himayalnagar (Vill), C.B. Post.,
Hyderabad-75.

B. K. S.
CSE-HOD
Head of the Department
Computer Science and Engineering
VJIT, Hyderabad-50075.

Phone: Off: +91-40-23158665
Fax: +91-40-23158665
Web: www.jntuh.ac.in
E-Mail: pa@registrar.jntuh.ac.in



PROCEEDING OF THE
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
(Established by Govt. Act No. 30 of 2008)
Kukatpally, Hyderabad - 500 085, Telangana (India)
PRESENT Dr. N. YADIAH REGISTRAR

Procs No JNTUH/TEQIP-III/CRS/2019/CSE/15

Date: 22/07/2019

Subject: Award of the project titled "Design And Development Of Routing Protocols For Cognitive Wireless Sensor Networks Using Neural Networks" under Collaborative Research Scheme, TEQIP-III, JNTUH.

Read: Note order of the Vice-Chancellor dated 22.07.2019

ORDERS:

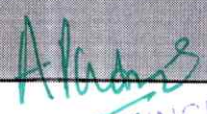
The project titled "Design And Development Of Routing Protocols For Cognitive Wireless Sensor Networks Using Neural Networks" is awarded with sanctioned amount of Rs 2,75,000/- (Rupees Two Lakh Seventy Five Thousand Only) under Collaborative Research Scheme, TEQIP-III, JNTUH to the following investigators.

- | | | |
|--------------------------------|---|--|
| 1. Principal Investigator | : | Dr. Padmalaya Nayak |
| Department Name | : | Computer Science and Engineering |
| Institute Name | : | Gokaraju Rangaraju Institute of Engineering & Technology |
| 2. Co-Principal Investigator-1 | : | Dr. K. Ramesh Babu |
| Department Name | : | Computer Science and Engineering |
| Institute Name | : | Vidya Jyothi Institute of Technology & sciences |

With the following terms and conditions to the Investigators:

1. The Institute where Principal Investigator is working becomes the lead Institute.
2. An Initial grant of Rs. 1,00,000/- will be released to the account of the principal of lead institute.
3. In case if both PI and Co-PI-1 are from affiliating institutions, a joint account should be operated by PI, Co-PI-1 and Principal of lead institute.
4. If Co-PI-1 is from the Constituent colleges of JNTUH (JNTUHCEH, JNTUHCEJ, JNTUHCEM, JNTUHCES), PI and Co-PI will operate a Joint account and fund will be transferred for lead institute Principal account.
5. In case, PI or Co-PI leave the institute for any reason or withdraw from the project (proper justification should be communicated to the University), he/she shall be treated as withdrawn from the project.
6. PI's and Co-PI's should fill the Forms A to F and submit to TEQIP-III JNTUH whenever required.
7. PI's and Co-PI's should submit Form A within 3 days after receiving the sanction letter.
8. PI's and Co-PI's should be present at the time of first Progress evaluation after 4 months and all other subsequent Progress Evaluations (once in 4 months) conducted at TEQIP-III JNTUH.
9. The Second Installment of Rs. 1,00,000 of Research grant will be released on satisfactory performance in first Progress Evaluation and submission of Form B and Form D duly filled and signed.
10. The 3rd and final installment will be released upon submission of Form C and D and satisfactory Performance in the next Progress Evaluation.


Head of the Department
Computer Science and Engineering
VJIT, Hyderabad-50075.


PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (Vij), C.B. Post.,
Hyderabad-75.

Phone: Off: +91-40-23158665
Fax: +91-40-23158665
Web : www.jntuh.ac.in
E Mail: jntuhteqip@jntuh.ac.in



OFFICE OF THE TEQIP - III
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
(Established by Govt. Act No.30 of 2008)
Kukatpally, Hyderabad – 500 085, Telangana (India)

PROJECT COMPLETION CERTIFICATE

SUB: - Project completion certificate – refund of unspent balance upon submission of Utilization Certificate.

Sir/Madam,

It is acknowledged that the project sanctioned to

1. **Dr. Padmalaya Nayak**, Gokaraju Rangaraju Institute of Engineering & Technology
2. **Dr.K.Ramesh Babu**, Vidya Jyothi Institute of Technology & sciences

With Procs No.JNTUH/TEQIP-III/CRS/2019/CSE/15 dated on 22-07-2019 under collaborative Research scheme; TEQIP-III JNTUH is completed. Out of the sanctioned amount of Rs 2,75,000/-, utilized (including Interest) amount is Rs 2,78,052/- and unspent amount for Rs NIL/- is refunded. In this connection Utilization certificate is submitted by Investigators in compliance to the above.

[Signature]
Head of the Department
Computer Science and Engineering
VJIT, Hyderabad-500075.

[Signature]
PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIT), C.B. Post.,
Hyderabad-75.

[Signature]
REGISTRAR
[Signature]

RCI/DCMM/LPD/CARS/378

RSQR Document Ref No.	Date of issue YY MM DD	Issuing DRDO Lab/Unit/Project	Remedy of RSQR initiator
Name of Research Service Provider (RSP) making this offer: DEPT OF COMPUTER SCIENCE - ENG VIDYA JYOTHI INSTITUTE OF TECHNOLOGY		4. RSP's Ref. No.	Judgement of OEC:

(a) RSP's address for correspondence:
**AZIZ NAGAR GATE, C.B. POST
 HYDERABAD**
 code: **500075**
 telephone: **91-8413 235300** Fax: **9849554882**
 mail: **principalvjite@vjit.ac.in**
Siddhartha@vjit.ac.in

5. (a) Key personnel of RSP to be deployed:
1. DY SIDDHARTHA GHOSH
2. DY D Aruna Kumari
 5. (b) RSP's sub-contractors/consultants:
 a) Name: **N/A**
 Institute/Company:
 b) Name: **N/A**
 Institute/Company:

Principal technical features of offer as related to RSQR (Detailed in Attachment A)
**Best solutions on hardware level, mobile app & OS level mobile
 hardening techniques and software.**
Minimum 2 research papers with SCI impact factor (0.5) 3. A Strategic Plan
 DRDO-owned equipment that RSP requires to be positioned by DRDO (Detailed, with estimated costs, in Attachment B):
N/A Not applicable **Detailed report enclosed**

Estimated time to complete provision of research services and submit Final Report	Months: 24
1.1 Estimated expenditure (as elaborated on reverse) on:	Rs. in lakhs
Personnel: Payment of Research Scholars - 2	7,20,000
Equipment: Laptop, Mobile phones	2,50,000
Others: Books, Journal, Travel	1,30,000
Total: >	10,00,000
1.2 Required schedule of payments (Rs. in lakhs)	Date Payment
a) Initial advance	Oct/Nov 16 3 lakh
b) at Performance Milestone I of RSQR	May 17 2 lakh
c) at Performance Milestone II of RSQR	Nov 17 2 lakhs
d) at Performance Milestone III of RSQR	July 18 1 lakh
e) On submission of Final Report	Oct/Nov 18 2 lakhs
Total: >	10 lakh

10. References to R&D work being performed by RSP for Armed Services (DRDO) or other S&T (including foreign) agencies:
N/A

11. Offer as above valid till (date): **Oct 2018**
 12. Signature of competent authority of RSP
S. Ghosh
 Name: **DY SIDDHARTHA GHOSH**
 Designation: **PROFESSOR-HEAD
 DEPT OF CSE, VJIT**

के पास भेजी जाती है। भविष्य में उक्त for necessary action. Further con
 Head of the Department
 Computer Science and Engineering
 VJIT, Hyderabad-50075.
A. K. S. PRINCIPAL
 Vidya Jyothi Institute of Technology
 Himayatnagar (VIII), C.B. Post,
 Hyderabad-75.

Please read them. on the reverse. fill this sheet

File No. _____
 Date of submission _____

- Item 5(a): Offer whose expected time of completion is less than 3 months. Provide details of at least two key personnel who will engage in the work.
- Item 5(b): Consultants who are non-Indian citizens (whether or not of Indian origin) will require approval of DRDO.
- Item 6: Highlight investigation methodology and/or experimental design intended to be followed.
- Item 7: Identify equipment. Detail in Attachment B, including proposed country of origin.
- Item 9.1(a): Indicate below categories, and numbers in each category, of personnel proposed to be engaged and their monthly total emoluments.

1. Research Scholar/Associate 1 : Rs 15,000/- per month
 2. Research Scholar/Associate 2 : Rs 15,000/- " "
 TOTAL : Rs 30,000/- " "

Item 9.1(b): List below all equipment required. Prior approval of L/E/P will be required to order any equipment for which the potential supplier asks for an end-use or end-user certificate.

1. Laptop - 2
 2. Mobile phones - 3

Item 9.1(c): Enter total of expected other expenses listed below:

Expected other expenses on:		Rs. in lakhs
Sub-contracts (Details of sub-contracts must be provided in Attachment A)		N/A
Operation and maintenance of equipment required for provision of the Research Service		N/A
Expendables	Books, Journal	0.3
Travel		0.5
Contingencies		0.5
Visiting Faculty or Research Consultants		N/A
Technical support services procured from outside the RSP		N/A
Fee for use of intellectual assets (including royalties for legally protected I.P.)		N/A
Overheads (Fixed amount till completion of provision of research service)		N/A
Total		1.3


 Head of the Department
 Computer Science and Engineering
 VJIT, Hyderabad-50975.


 PRINCIPAL
 Vidya Jyothi Institute of Technology
 Himayathnagar (VII), C.B. Post.,
 Hyderabad-75.

Department of Computer Science & Engineering

Dr Siddhartha Ghosh

RSOF Document Ref. No.:

Date of Issue

Issuing DRDO Lab/Inst/Project

Date of C.A.S. Amendment

3. Name and address of Research Service Provider (RSP):

Dept of Computer Science & Engg
Vidya Jyothi Institute of Technology
Aziz Nagar, C.B. Post, Hyd-500075, TS Ind.

4. RSP's Offer Ref.

Date:

(a) This contract will require a formal amendment if the following key professionals are not available to RSP:

1. Dr Siddhartha Ghosh

2. Dr D Aruna Kumar

(b) RSP is authorized to engage these professionals as research consultants (names, institutes/companies):

Agree

6. Principal technical features of Research Service to be provided (Detailed in Attachment A)

1. Hardening through mobile
2. Comparative study report on security

7. DRDO will make available the following DRDO-owned equipment to RSP (Detailed in Attachment B):

N/A

8. The technical performance of this contract shall be complete when RSP submits the Final Report before (date):

01/Nov/18

9.1 Expenditure on items below shall not exceed sums shown against each

Rs. in lakhs

a) Personnel	(2 Research Scholar)	1.20,000
Equipment	Laptop-2, Mobile Phones-3	2.50,000
c) Others	Books, Journals, Travel, Contingencies	1.30,000
Total: >		10 Lakhs

9.2 Schedule of payments (Rs. in lakhs)

	Date	Payment*
a) Initial advance	01/Nov/16	3
b) at Performance Milestone I	May 17	2
c) at Performance Milestone II	Nov 17	2
d) at Performance Milestone III	July 18	1
e) On submission of Final Report (Refer also entry 8 above)	01/Nov/18	2
Total: >		10 Lakhs

* Payments will be made within 45 days of receipt by I/EP of Contingent Bill

10. DRDO will deem this contract, including amendments thereto, to have been consummated when signed below by the authority of the academic institution (e.g. Registrar) competent to enter into this contract:

11. Signature of I/EP contract administrator.

Name

Designation

PRINCIPAL

वीरवीरस मारायण मूर्ती/BHVS NARAYANA MURTHY

उत्कृष्ट वैज्ञानिक/Outstanding Scientist

भारत सरकार/Ministry of Defence

अवकाशित विज्ञान प्रौद्योगिकी विभाग, ए.पी. ज्योति विद्यापीठ, ए.पी. ज्योति विद्यापीठ, ए.पी. ज्योति विद्यापीठ, ए.पी. ज्योति विद्यापीठ

DRDO, Hyderabad-500075

DRDO, Hyderabad-500075

DRDO, Hyderabad-500075

DRDO, Hyderabad-500075

DRDO, Hyderabad-500075

DRDO, Hyderabad-500075

DRDO, Hyderabad-500075

DRDO, Hyderabad-500075

DRDO, Hyderabad-500075

DRDO, Hyderabad-500075

DRDO, Hyderabad-500075

DRDO, Hyderabad-500075

DRDO, Hyderabad-500075

DRDO, Hyderabad-500075

DRDO, Hyderabad-500075

DRDO, Hyderabad-500075

Please read on reverse of this contract appear

के पास भेजी जाती है। भविष्य में उक्त कार्यालय से सीधा संपर्क करने का फल

is being forwarded to for necessary action. Further correspondence

Head of the Department
Computer Science and Engineering
VJIT, Hyderabad-50075.

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C.B. Post.,
Hyderabad-75.

N/A

1. Selection of software & hardware level.
2. Research papers

11. General Conditions of this CA/VP:

1. Equipment:

1.1 All equipment of a capital nature purchased, by the Research Service Provider (RSP), to execute this contract at the property of DRDO (I) shall be returned to L/EP within 03 months of expiry of this contract, unless L/EP specifies otherwise separately.

NOTE: Should there be a difference of opinion between the RSP and L/EP on whether or not a piece of equipment is of 'capital nature', the decision of L/EP shall be final and binding on the RSP.

1.2 Equipment included in the Summary Offer of Research Services (at Entry 9.1(b)) shall be procured by the RSP.

1.3 The RSP shall be responsible for the proper maintenance of the equipment and shall not alienate them, or use them without the prior permission of L/EP for purposes other than those specified in this contract.

2. Financial provisions: By entering into this contract, the RSP agrees to make available to the L/EPs, or to any person or bodies designated by it, if required by the L/EPs, all financial documentation with records on supplies and services purchased or acquired by the RSP for executing the contract.

2.1 Advances, work-in progress and schedule of payments:

(a) Advances or milestone payments are interim payments, which shall be deducted from the total sums due to the RSP.

(b) The L/EP shall make payments for executing this contract on demands made through 'Contingent Bills' after certification by the pertinent financial authority of the RSP that the monies already released have been utilised for the purposes for which they were provided.

(c) Statements on expenditures incurred on items at 9.1 overleaf as certified by the Internal auditors of the RSP shall be submitted within 30 days of crossing of each Performance Milestone identified in the schedule of payments at 9.2 overleaf.

(d) Except with the specific written pre-agreement of the L/EP, the RSP shall not use for any purposes other than those specified in this contract, any material or services for which advances or milestone payments have been made.

2.2 Financial documentation and records:

a) For work whose estimated time for completion is six months or less, the RSP shall submit only those reports as relate to the purchase of equipment by the RSP, within thirty (30) days of such purchase.

b) For contracts whose estimated time for completion is more than six months, the RSP shall provide the L/EP, not later than thirty (30) days after the end of each half-year, with a half-yearly financial report showing the actual expenditure incurred, against each of the entries at 'Item 9.1' overleaf, for the execution of the contract up to the end of the previous half-year.

c) The L/EP, or other authority specified by DRDO, may inspect all books, bills, vouchers and other financial records at any time until the final settlement of accounts. The RSP shall supply the L/EP with such documents as are necessary for final settlement of claims, without explicit request by the L/EP, within three (3) months after the date of submission of the Final Report.

d) The documents supporting claims shall be preserved by the RSP until one year after the contract accounts are finally settled.

3. Disclosure and use of information by the RSP: The RSP will ensure that the documents supplied by the L/EP are not disclosed to any person other than a person authorised by the L/EP. Any pattern, sample or information in documentary or other physical form remains the property of the L/EP throughout the period of the contract and shall be returned to the L/EP after execution of the contract, unless their disposal is otherwise provided for in the contract.

4. Delivery schedule:

4.1 The interim outcomes of the contract shall be delivered at the time or times and in the manner specified in I above.

4.2 The RSP shall inform the L/EP promptly of any occurrence that is likely to cause delay in delivery of above contracted outcomes. The L/EP shall determine, in the light of circumstances reported, the extent of change(s) required in the delivery schedule of the contract.

Note: The above covers only unexpected technical difficulties, gross delays in deliveries by suppliers of purchased equipment or consumables, illness or other justifiable cause of unavailability of research personnel and similar unforeseen circumstances.

4.3 An extension of the time limit for execution of the contract, or a postponement of delivery of outcomes shall require the explicit approval of the L/EP, which approval shall be contractually valid only when this contract is formally amended by the L/EP, as recorded on top right-hand corner overleaf.

5. Short-closure of contract: The contract may be short-closed at any time during the currency of its execution if the L/EP feels that no useful purpose will be served by continuing its implementation. The short closure will be effective from the day the short closure order is received by the RSP. Subsequent to this short-closure the RSP will submit a technical report on the work done till short-closure. The monies left unspent on the date of receipt of short-closure order by the RSP shall be returned to L/EP. All equipment/stores acquired out of contract monies shall also be returned to L/EP.

6. Reports: Reports giving details of the progress of the work shall be sent to the L/EP at intervals as specified in I above. On completion of the contract, the RSP will submit a final report (Contractor Report). All reports shall be in a format conforming to Indian Standard IS:1064-1980, bound with Bibliographic Description sheet conforming to IS: 9403-1980.

7. Ownership of Intellectual Property (IP):

7.1 The ownership of Intellectual property, whether or not legally protected, generated by contract research performed under this contract shall vest in DRDO. However, the RSP shall receive, upon demand by it, a royalty-free license from DRDO to use those Intellectual properties for its own purposes, which purposes specifically exclude sale or licensing to third parties.

7.2 Notwithstanding the above, all documents and information detailing the technical performance of this contract (including pertinent laboratory notebooks, sketches, photographs, video tapes of experiments, electronic data acquisition records and other similar) shall be the property of DRDO, whether or not in the physical possession of DRDO.

8. Publications: Interim technical results and the outcome of the contract, intellectual or physical, are the property of DRDO. If the Investigator intends publishing the technical outcome, he shall send a written request to L/EP for permission to publish along with a copy of the manuscript. Within 60 (sixty) days of the receipt of such request, the L/EP will inform the Investigator(s) about its decision. If no communication is received from the L/EP by the Investigator/RSP within this period of 60 (sixty) days, the Investigator/RSP shall be free to publish the material as proposed by him.

9. Confidentiality: All information relating to the contract or the status of their execution shall not be publicised by the RSP in the media, or in any form, without the prior written approval of the L/EP. The L/EP shall specify the text relating to this contract that may be made public.

10. Communications: All communications affecting the performance of the contract, or its terms and conditions, shall be contractually valid only if signed by a person authorised to this contract under the signed signature to the contract, and recorded in the book at the top right hand corner overleaf.

11. Compliance: All terms and conditions regarding compliance contained in this contract, the RSP shall be wholly responsible for complying with all terms and conditions.

12. Termination: All disputes relating to the contract shall be referred to the Vice-Chancellor, DRDO, for the resolution. The RSP shall be responsible for the cost of the arbitration.

13. Assignment: The RSP shall not assign or sub-contract the contract to any other person without the prior written approval of the L/EP.

14. Force Majeure: In the event of a force majeure, the RSP shall be responsible for the cost of the arbitration.

15. Governing Law: The contract shall be governed by the laws of India.

16. Dispute Resolution: In the event of a dispute, the RSP shall be responsible for the cost of the arbitration.

17. Signatures: The contract shall be signed by the RSP and the L/EP.

18. Date: The contract shall be dated as of the date of signing.

19. Place: The contract shall be signed at the place of signing.

20. Other: Any other terms and conditions shall be as per the contract.

Head of the Department
Computer Science and Engineering
VJIT, Hyderabad-50075.

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (Vij), C.B. Post,
Hyderabad-75.