

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science campus, Bengaluru — 560 012

Website: <http://www.kscst.iisc.ernet.in/spp.html> II Email: spp@kscst.iisc.ernet.in II Phone: 080-23600978

43rd Series of Student Project Programme: 2019-20

LIST OF STUDENT PROJECT PROPOSALS APPROVED FOR SPONSORSHIP

98) NAGARJUNA COLLEGE OE ENGINEERING AND TECHNOLOGY, BENGALURU

554	43S_BE_1284	APPLICATION OF BIO SYNTHESISED NANOPARTICLES USING E-WASTE FOR THE TREATMENT OF TEXTILE MILL WASTEWATER	CIVIL ENGINEERING	B.E.	STREAM A	Ms. VIDYASHREE M G	Mr. AKSHAY P Mr. BHARATH M B Mr. CHARANRAJU V Mr. KARTHIK M	4500
555	43S_BE_1285	TREATMENT OF DAIRY INDUSTRIAL WASTEWATER USING ACTIVATED GRASS AS AN ADSORBENT	CIVIL ENGINEERING	B.E.	STREAM A	Ms. SHILPA R	Ms. MADHURI K Ms. MAHALAKSHMI Mr. MANOJKUMAR C R Mr. SANJAY A	5000

Note:

- The sanctioned amount will be sent by account payee cheque to the Principal of the institution.
- The evaluation of above projects will be conducted at the nodal centers in the month of May / June 2020. Participation in the evaluation process at the nodal centers is mandatory, failing to which the sanctioned project will be withdrawn from the list and sanctioned amount shall be returned to KSCST.
- Further projects will be shortlisted for state level seminar & exhibition which will be conducted during July August 2020.
- After completion of the projects, the hard copy and soft copy (PDF format only) of the report needs to be sent to KSCST without fail.
- Any corrections with respect to the names of the guide and students should be requested at spp@kscst.iisc.ernet.in.



Varicocele treatment

AD

[Visit Site](#)

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru – 560 012

Website: <http://www.kscst.ksc.ernet.in/spg.html> | Email: spg@kscst.ksc.ernet.in | Phone: 080-26541652, 23348949/48/49

44th Series of Student Project Programme: 2020-21

List of Student Project Proposals Approved for Sponsorship

105. NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU

Sl. No.	PROJECT REFERENCE No.	PROJECT TITLE	BRANCH	COURSE	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)	SANCTIONED AMOUNT (IN Rs.)
686	44E_BE_1206	A PROPOSAL FOR STUDY AND DEVELOPMENT OF BEEDAGANAHALLY VILLAGE AS A SMART VILLAGE.	CIVIL ENGINEERING	B.E.	Ms. GEETHA S D Ms. CHAYA S	Ms. ABHIRAM K R Ms. CARSH B V Ms. K. ABHIRAM GONDIA Ms. MOHAN SADI NK	3000.00
687	44E_BE_1208	UTILIZATION OF WASTE PAPER AS COARSE AGGREGATE IN ALKALI ACTIVATED CONCRETE	CIVIL ENGINEERING	B.E.	Dr. RAJAVU V R Ms. CHAYA S	Ms. YOTURURU RACHIRAM SW Ms. SAMPAKJI YADDE SALAGANGACHAR Ms. SHRUTI DEBPAUL Ms. S. V. SURESH KUMAR REDDY	4000.00
688	44E_BE_1209	DESIGN AND DEVELOPMENT OF AUTOMATED EMISSION MONITORING FOR GENERAL VEHICLES	INFORMATION SCIENCE AND ENGINEERING	B.E.	Prof. SUBRAMANIA S G.	Ms. LAVANYA J R Ms. NAVEN KUMAR S R Ms. NIRMALA R Ms. RAJYA BAGUM	3000.00
689	44E_BE_1204	IoT BASED CAMOUFLAGE SURVEILLANCE ROBOT	COMPUTER SCIENCE AND ENGINEERING	B.E.	M. SRINANTH S R S	Ms. DEEKSHITHA S R Ms. BHARATH KUMAR D Ms. DIVYA KHANDEKAR Ms. J. V. S. MANESH KARRA	5000.00
690	44E_BE_1208	DESIGN AND DEVELOPMENT OF VERTICAL TAKEOFF AND LANDING (VTOL) UAV	MEDICAL ENGINEERING	B.E.	MR. SHASHIKANTH G S	Ms. RAJEEV PATRA Ms. PRAJWAL D S Ms. RAJANSHAR NAVNEET CHOLDAU Ms. SUMAN K	3000.00
691	44E_BE_1204	IoT BASED AIR AND SOUND POLLUTION MONITORING SYSTEM	ELECTRONICS AND COMMUNICATION ENGINEERING	B.E.	Ms. JYOTHI S K	Ms. SATROSHAN D Ms. MONIKA N Ms. TANUSHREE M Ms. REEKTA BHARATH KUMAR REDDY	5500.00
692	44E_BE_1207	REAL-TIME FACE MASK IDENTIFICATION USING AI DEEP LEARNING NEURAL NETWORK	ELECTRONICS AND COMMUNICATION ENGINEERING	B.E.	Ms. GREENSHADU K H	Ms. HARSHITHA C Ms. ASHARITHA S R Ms. CHANDAN L Ms. GIREESH B	3800.00

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
Indian Institute of Science Campus, Bengaluru 560012

LIST OF BE BIOFUEL PROJECTS SANCTIONED UNDER 40th SERIES OF STUDENT PROJECT PROGRAMME: 2016-2017

23) NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU

Proj. proposal Ref. No.	TITLE OF THE PROJECT	BRANCH	NAME OF THE GUIDE/S	STUDENT 1 & TEAM LEADER	Sectioned Amount(Rs.)
40S_B_BE_001	EXPERIMENTAL STUDY OF REDUCTION OF NOx EMISSION OF BIODIESEL FUELLED DIESEL ENGINE USING UREA INJECTION	MECHANICAL ENGINEERING	DR. N. KAPILAN	MR. SANDEEP R	5,000.00
40S_B_BE_059	SUSTAINABLE ENERGY GENERATION BY BIOFUEL CELL FROM SEPTIC TANK	CIVIL ENGINEERING	DR. K. KUMAR	MS. YOGASHREE G.	7,000.00

LIST : 40th Series of Student Project Programme (Biofuel/Bioenergy) : List of Projects sanctioned : 2016-2017

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru - 560 012

Website: <http://www.ksct.iisc.emet.in/spp.html> || Email: spp@ksct.iisc.emet.in || Phone: 080-23600978

LIST OF PROJECTS SANCTIONED UNDER THE 41ST SERIES OF STUDENT PROJECT PROGRAMME: 2017-18

82. NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU

	PROJECT REFERENCE NO.	PROJECT TITLE	BRANCH	DEGREE	NAME OF THE GUIDE	NAME OF THE TEAM LEADER	SANCTIONED AMOUNT (In Rs.)
307.	41S_BE_1821	AQUIFER MAPPING, MONITORING AND ANALYSIS	CIVIL ENGINEERING	BE	Mr. SANATH KUMAR K R	Mr. RAKESH P R	4000.00
308.	41S_BE_1828	EARTHQUAKE BID USING IOT FOR HUMAN PROTECTION	COMPUTER SCIENCE AND ENGINEERING	BE	Dr. SHANTAKUMAR PATIL	Mr. VIKYATH N	3500.00
309.	41S_BE_2493	PREVENTION OF ACCIDENTS CAUSED BY POTHOLES AND HUMPS USING ULTRASONIC SENSORS	COMPUTER SCIENCE AND ENGINEERING	BE	Prof. B.ROOPASHRI TANTRI	Ms. RAMYA P L	3000.00

Karnataka State Council for Science and Technology,

Indian Institute of Science Campus, Bengaluru 560012

LIST OF BE BIOFUEL PROJECTS SANCTIONED UNDER 41st SERIES OF STUDENT PROJECT PROGRAMME: 2017-2018

23. NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU

Sl No.	Proj. proposal Ref. No.	TITLE OF THE PROJECT	BRANCH	NAME OF THE GUIDES	STUDENT1 & TEAM LEADER	Sanctioned Amount (Rs.)
29.	41S_B_BE_042	PILOT PLANT STUDY FOR SUSTAINABLE ENERGY GENERATION IN SEPTIC TANK USING BIO-FUEL CELL	CIVIL ENGINEERING	Dr.K.KUMAR	MAYANA ISMAIL KHAN	10000.00



VISVESVARAYA TECHNOLOGICAL UNIVERSITY

ವಿಶ್ವವಿದ್ಯಾರಣ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

"Jnana Sangama" Belagavi-560018, Karnataka State, INDIA

Phone : (0831) 2405468
Fax : (0831) 2405467
Email : registrar@vtu.ac.in
Website : www.vtu.ac.in

Dr. H. N. Jagannatha Reddy, B.E., M.E., Ph.D.

Registrar

Ref No.: VTU/Aca/2017-18/ 9702.

Date: 18 JAN 2018

Circular

By the directions of the Hon'ble Vice Chancellor, I am pleased to inform you that, the University shall provide Financial Assistance to the deserving projects of Under Graduate final year students.

The following are the salient features of the proposed assistance

1. The Financial Assistance shall be for the projects of Under Graduate final year students only. A sum of Rs.5,000/- (Rupees Five Thousand only) per project with a maximum of Two projects per branch / programme shall be given by the University.
2. The Financial Assistance shall be available for all branches at Under Graduate level.
3. The top two deserving projects (in each branch) shall be chosen by a committee in each college.
4. The college shall form the committees (Branch wise) and the composition shall be as follows
 - i) Principal Chairman
 - ii) HoD of the respective branch Member
 - iii) Three Subject experts / Senior Professors/ Industrialists as deemed fit by the Institution in each branch.

You are requested to send the details of the number of branches (UG) and the monetary demand to this effect on or before 10-02-2018.

A detailed report on the adjudication and the students chosen may be sent to the undersigned at the end of the semester.

Registrar

To

All the Principal's
of VTU affiliated Colleges.

Copy for information to:

The Secretary to VC, VTU, Belagavi.
The Finance Officer, VTU, Belagavi.

For
Circulation
15/1/18

SI No	Title	Dept	Members	USN	Guide	Budget (Rs.)	Fund requested in Rs.
1	Effect of curing temperature on strength properties of concrete.	CV	Madan M N Prasanna Kumar S Sagar S Samartha B	1NC14CV068 1NC14CV098 1NC14CV117 1NC14CV119	Mrs. Chaitra D M	20,860.00	5,000.00
2	Study on the interface stress development due to different soil interaction with the concrete structure	CV	Deepak Kumarbrajesh Kumar Roy Avi Kumar Shuvam Kumar Shukla	1NC14CV030 1NC14CV022 1NC14CV109 1NC14CV124	Mrs. Vidyashree. M	10,600.00	5,000.00
3	An efficient navigator for autonomous vehicles using ac-gps technology	CSE	Deepthi M S Reginald Antony	1NC14CS027 1NC14CS067	Mr. John J P	12,000.00	5,000.00
4	Anti-poaching system for trees using IoT	CSE	Tunuguntla Kalki Rajesh Harini Uranduru Varsha B Reddy Yashaswini R	1NC14CS089 1NC14CS091 1NC14CS095 1NC14CS099	Mr. Bhargava R	9,900.00	5,000.00
5	feasibility study of using waster tyres and tubes as fuel in diesel engine	ME	Vamshi Gunnam Kiran Kumar C M V.Chandrashekar Rao Manjunath	1nc14me161 1nc14me068 1nc14me159 1nc14me087	Mr.L.J.Naik	19,000.00	5,000.00
6	Development and evaluation of highway wind turbine	ME	Shaikkhalander A Nawaz Pasha C A. Murali S Mujeer Khan	INC15ME42 5 INC14ME10 6 INC15ME43 5 INC14ME09 8	Dr.N.Kapilana	21,500.00	5,000.00
7	Talking plant:	ISE	Lakshmi L	1nc14is018 1nc14is032	Dr. Mamatha G	8,500.00	5,000.00

All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org

RPS - Sanction Order

To

The Drawing and Disbursing Officer
All India Council for Technical Education
Nelson Mandela Marg,
Vasant Kunj, New Delhi-110070.Sub : Release of a sum of Rs. 1679425/- being the 1st installment of the total grant of Rs. 1705000/- for conduct of Project under Research Promotion Scheme (RPS) during the financial year 2018-19.

Sir,

This is to convey the sanction of the Council for payment of Rs. 1679425/- (Rupees Sixteen Lakh Seventy Nine Thousand Four Hundred Twenty Five only) as 1st installment out of a total approved grant-in-aid of Rs. 1705000/- for conduct of a Project under the Research Promotion Scheme (RPS), as per details given below:-

- | | | | |
|------|--|---|--|
| I. | Name and address of the Beneficiary Institution (University / College / Institution) | : | NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY
MUDUGURKI
VENKATAGIRI KOTE
DEVANAHALLI BANGALORE RURAL
BENGALURU- 562110 |
| II. | Principal Investigator's Name & Dept./Course | : | Dr. KUMAR K CIVIL ENGINEERING |
| III. | Grant-in-aid Sanctioned | : | Rs. 1705000/- (Rs. 1449250/- for non-recurring and Rs. 255750/- for recurring expenditure) |
| IV. | Grant-in-aid Released as 1 st Instalment during the year 2018-19 | : | Rs. 1679425/- [(Rs. 1449250/- Full amount of non-recurring)+(Rs. 230175/- 90 % of recurring sanctioned)] |
| V. | Duration | : | 3 Years |
| VI. | Title of the Project | : | Study on the corrosion assessment and mitigation methods for concrete infrastructures. |

Terms and conditions1. General:

1. The sanctioned grant-in-aid is debitable to the major "601.1(a) (RPS)" Gen. and is valid for payment during the financial year 2018-19.
2. The grant-in-aid shall be drawn by the Drawing and Disbursing Officer (DDO), All India Council for Technical Education, New Delhi on the Grants-in-aid bill and shall be disbursed to and credited to the Registrar/Director/Principal of NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY through RTGS/PFMS.
3. The grantee institution shall open a separate account in a Bank to keep and maintain grant-in-aid released under Research Promotion Scheme. This would enable to keep a track of funds received, drawn by the Institute, interest earned.
4. The accounts of the grantee will be opened for test check by the Council or Comptroller & Auditor General of India or by any officer designated by them.
5. The Principal and PI of the institute are requested to verify the correctness of the under mentioned bank account/RTGS/PFMS details submitted by them along with the Proposal, in which the grant is being released. In case of any omission/deletion, the same should be reported to AICTE immediately along with refund of entire grant -

Institute PAN No.	Bank Name	Bank Branch Name	Bank Branch Address	Account Holder Name	Account Type	Account Number	IFSC Code
AAAA N0370 M	VIJAYA BANK	yelahanka new town	yelahanka new town bengaluru 560064	principal of nagarjuna college of Engineering and Technology	Saving Account	138001010007377	VLIB0001380

II. Disbursement of grant-in-aid to the Institute

1. First installment comprising 100% of the non-recurring grant with 90% of sanctioned recurring grant is being released with this letter. The remaining 10% of the recurring grant shall be reimbursed to the beneficiary Institute only after Institute has submitted all the mandatory documents for each financial years (details given below) and submitted Project Completion Report in AICTE prescribed formats and other documents and on verification of utilization of grant Head-wise.

III. Utilization of grant-in-aid

1. The date of receipt of the grant by Institute shall be taken as the date of commencement of the project. The Registrar/Director/Principal of the Institute shall intimate receipt of the grant to AICTE. If the Institute/ PI do not take-up the project work within 6 months of the receipt of the grant, approval shall *pro facto* lapse and the Institute shall become liable to refund the entire grant to AICTE along with interest.
2. Any Expenditure, incurred prior to issuance of this Sanction Order, is not allowed to be adjusted. The Institute/University shall not charge any overheads on this Project and will provide all the administrative support and timely release of grant to PI for completion of the Project.
3. The grantee shall utilize grants strictly for the purpose as specified and only on approved items as mentioned in the Sanction letter and maintain proper accounts of expenditure as per norms / procedures of AICTE / Government of India.
4. Grantee institution must follow GFR guidelines and rules in procuring sanctioned items and maintain an audited record of assets acquired wholly or substantially out of the grant-in-aid and a register for assets by the Institute in the prescribed form i.e. GFR-19. GOI GFR rules are at <https://doe.gov.in/order-circular/general-financial-rules2017-0>.
5. Re-appropriation of funds from one Head to another i.e. from Non-recurring to recurring and vice versa is strictly not permitted.
6. The equipment(s)/item(s) purchased from out of non-recurring should be as per the specifications and individual item-wise costs sanctioned by AICTE. Item-wise purchase cost shall be matched with the sanctioned cost while settling the accounts. The purchase cost below the sanction cost shall be restricted to actual cost, and in vice versa restricted to sanctioned cost and over and above cost shall be met by the Institute from its own resources.
7. Similarly, the recurring grant shall be utilized for the items sanctioned by the AICTE. This should not be used for travel abroad to attend Conference / seminars. However, for presenting a Paper in a Seminar / Conference within the country, the travel expenses may be met from the recurring grant. Further, expenditure incurred towards hiring of staff on contract basis shall be considered only if the same was recommended by the Experts and approved by AICTE. No budget be utilized for hiring permanent staff.
8. Interest accrued on the sanctioned grant-in-aid will be reported and refunded back to AICTE and not adjusted against the subsequent second installment. Similarly, unspent amount should also be refunded. Both should be refunded to AICTE through a demand draft in favour of 'Member Secretary AICTE' payable at New Delhi.

IV. Submission of mandatory documents by the Institute / PI:

1. The following documents, in the prescribed format, are required to be submitted to AICTE by the PI/Institute, as per time schedule given below: -
 - (i) Acknowledgement of receipt of grant and letter of acceptance of terms and conditions.
 - (ii) Documents to be submitted within one month of completion of each financial year.
 - a. Annual Progress Report, indicating therein the number of patents, publications or any other achievement.

- b. Utilization Certificate, Audited Utilization Certificate, Receipt & Payments, Statement of Expenditure.
 - c. Audited record of assets acquired wholly or substantially out of the grant-in-aid and a register for assets in the prescribed form i.e. GFR-19.
 - d. Separate Bills/Vouchers related to Non-recurring and recurring expenditures duly signed & stamped by the PI & Head of the institution.
 - e. Stock entry register duly verified by the Store-in-charge and PI & counter signed by Head of institution.
- (iii) Documents to be submitted within two month of completion of the Project.
- a. Consolidated Utilization Certificate (UC), duly audited.
 - b. Duly audited statement of expenditure mentioning Head-wise break up of expenditure made from the grant-in-aid provided by the Council.
 - c. Project Completion Report duly signed & stamped by PI & Head of the institution with PEC recommendation.
 - d. Feedback form in AICTE format.

*Prescribed formats of mandatory documents may be downloaded from www.aicte-india.org/schemes/research-innovations-development-schemes.

V. Request for Recast / Additional grant:

1. No request for additional grant over and above the sanctioned grant shall be considered by the AICTE. The additional amount, if any, expended beyond the sanctioned grant shall be met by the Institute from its own resources.
2. In case the grantee wishes to recast the Project, approval of Council must be obtained for the revise item of expenditure. The revise proposal should be within the total grant sanctioned by AICTE and duly supported with reasons and recommendations of the Project Evaluation Committee.

VI. Constitution of Project Evaluation Committee:

1. The Institute must constitute a Project Evaluation Committee in the manner and for the purpose as defined in the RPS guidelines. PEC must regularly vouch progress of RPS project as also make recommendation etc. in APRs and PCR furnished by the Institute / PI.

VII. Others:

1. The assets acquired wholly or substantially out of All India Council for Technical Education's grant shall not be disposed or encumbered or utilized for the purpose other than those for which the Grant was given without proper sanction of the All India Council for Technical Education.
2. RPS project must be completed within the sanctioned time-limit. No extension shall be granted otherwise recommended by the PEC and approved by AICTE. Expenditure incurred beyond the project period shall not be entertained and claims shall accordingly be settled.
3. For all other issues including issues concerning change of PI or Institute etc., the grantee shall follow the terms and conditions of Research Promotion Scheme (RPS) as laid down by the Council from time to time.
4. The sanction issues in exercise of the powers delegated to the Council. It is also certified that grant-in-aid is being released in conformity with the rules and principles of the Scheme.
5. The institute should strictly observe all the terms & conditions contained in the Scheme details under AICTE AQIS 2017-18.

VIII. List of approved equipments :

S.No.	Name of sanctioned equipment(s)
1	Equipments
2	Consumables
3	Contingencies
4	T/DA

Yours sincerely,

Page No: 3



15/1/19

Dileep N. Malkhede
Advisor (RIFD)

Copy forwarded for information and necessary action to:

1. Registrar / Director / Principal
Dr S G Gopala Krishna
NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY
MUDUGURKI
VENKATAGIRI KOTE
DEVANAHALLI BANGALORE RURAL
BENGALURU- 562110
2. Name and Address of Principal Investigator
Dr. KUMAR K
NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY
MUDUGURKI
VENKATAGIRI KOTE
DEVANAHALLI BANGALORE RURAL
BENGALURU- 562110
3. OFFICE OF DIRECTOR GENERAL OF AUDIT
GENERRAL REVENUES, AGCR BUILDING
LP. ESTATE, NEW DELHI- 110002
4. Guard File

AQIS Application Id: 1-3568784164

		GAS TURBINE RESEARCH ESTABLISHMENT Research & Development Organization Ministry of Defence Post Box No. 9302, C.V. Raman Nagar Bangalore – 560 093, INDIA
TEL (OFF): 91-80-2504 0076	Our Ref: GTRE / GATET / CS33 / 1617 / 114 / 16 / 01	
FAX : 91 – 080 – 2524 1507	Date: 30 –11 – 16	

To

Dr. K. Kumar
Nagarjuna College of Engineering and Technology,
Bangalore.

SANCTION OF A PROJECT UNDER GATET

I am happy to inform you that your project proposed under the Gas Turbine Enabling Technology (GATET) Initiative has been sanctioned by the Executive Board. Many congratulations to you and I highly appreciate your keenness to participate in this initiative.

2. Under the powers vested in the Gas Turbine Enabling Technology (GATET) Initiative vide Govt. of India, Ministry of Defence letter No. DARO/08/1102063/M/1/3078/D (R&D) dated 8th October 2009, as amended from time to time, I am directed to convey the sanction of the Executive Board – GATET during its **23rd Meeting** for the following project.

TITLE OF THE PROJECT : “Experimental Study on the Corrosion Behavior of Marine Gas Turbine Alloy using C263 for High Temperature Sulfidation”

TOTAL AMOUNT SANCTIONED : 9.75 Lakhs (Nine Lakhs Seventy Five Thousand Only)

3. Total sanctioned funds for the project is **Rs. 9.75 Lakhs**. However, the same is subject to revision based on performance and review. The head-wise break-up is given below:

Sl. No.	Head	Amount of Fund (in Lakhs)
i)	Manpower	1.50
ii)	Special Equipment	5.50
iii)	Consumables	1.00
iv)	Contingencies	0.40
v)	TA/DA	0.60
vi)	Others (including overheads)	0.75
	Total	9.75

Grand Total

Rs. 9.75 Lakhs

...2/-


4. The progress of the project will be periodically reviewed by the Project Review Committee (PRC) and you are requested to submit progress reports of the project on monthly and quarterly basis along with other supporting documents relating to the project, if any, to the Programme Director in advance for the review.
5. Statement of accounts and utilization certificate duly certified by the executive financial authority of the Institution are required to be submitted at the end of current financial year as well as along with the closure report. In addition, self attested copies of statement of accounts and utilization certificate need to be submitted on monthly basis. Excess expenditure, beyond the sanction, unless authorized by GATET in writing, shall be the responsibility of the grantee institution.
6. The date of sanction letter would be reckoned as the commencement date of the project and the **project completion date shall be 31st October 2017.**
7. A separate account for the grant would be maintained by **Nagarjuna College of Engineering and Technology, Bangalore** and any interest earned thereon, if any would accrue to GATET. Unspent balance on completion of the project should be sent by the grantee institution through a cheque/Draft in the name of CDA (R&D), Bangalore to GATET Programme Cell for doing the needful. A list of inventory of equipment purchased out of GATET grant shall be intimated year-wise, along with its cost and source of procurement to GATET Programme Cell. On completion of the project, the grantee institution would forward the consolidated list with request if any, for retention of any equipment for another project or in-house R&D with due recommendations of their executive authority and the concerned PRC.
8. Instructions and Conditions of Ownership of intellectual properties generated by this project are attached herewith for reference and necessary action.
9. Instructions and Conditions of Publication of Technical papers related to this project is available at www.drdo.gov.in/drdo/boards/ardb/rules&grants_reports3.htm
10. A closure report along with copies of technical report may be submitted within thirty days of completion of project along with the Statement of Expenditure and the Utilisation Certificate duly audited by the Audit Authority of Institution, signed in ink (in duplicate) by all concerned.
11. CDA (R&D), Bangalore will make disbursement of money as sanctioned and the acknowledgment for the receipt of payment may please be sent to the Programme Director.
12. The expenditure will be debited to the relevant Major Head 2080, Minor Heads 004 and Code head 852/02 of the Defence Services Estimates, Research & Development.
13. Additional information about this initiative is available at www.drdo.gov.in/drdo/boards/ardb/gatet.htm.

...3/-



14. All the relevant invoices and bills (in triplicate) duly completed and stamped may please be forwarded to The Programme Director, GATET for countersignature, ratification by PRC and onward transmission to CDA for payment.

15. Please feel free to contact the undersigned for any techno-commercial clarifications.

With best regards.



G. Sivaramakrishna
Sc 'F'
PGD, GATET

Sanction Code: PD (GATET) / AERO / GTRE / GIA / 16-17 / 15 Dated 30.11.2016

Copy to:

CDA (R&D), CV Raman Nagar, Bangalore – 560093

Principal Director of Audit
Air Force & Navy, 'M'Block, New Delhi – 110001

Secretary, AR&DB, DRDO, New Delhi

Addl. IFA, Bangalore

KPG (FIN), GTRE

भारतीय अन्तरिक्ष अनुसंधान संगठन

अन्तरिक्ष विभाग

भारत सरकार

अन्तरिक्ष भवन

न्यू वी ई एल रोड, बेंगलूर - 560 231, भारत

दूरभाष : +91 80 2341 5474

फैक्स :

Dr. M.A. Paul

Dy. Director, RESPOND



Indian Space Research Organisation

Department of Space

Government of India

Antariksh Bhavan

New BEL Road, Bangalore - 560 231, India

Telephone : +91 80 2341 5474

Fax :

☎ : 080 2341 5269/22172269

FAX: 080 -23412471

Email: ddrespond@isro.gov.in

No. ISRO/RES/3/722/18-19

June 25, 2018

Dear Dr. Kumaraswamy,

Subject: RESPOND Project - "Software Framework for hosting Application Programming Interface/modules for Artificial Intelligence, Heterogeneous Parallel Computing and Device Drivers for various scientific equipments in ex-planetary vehicles to the end/remote user" - reg.

This has reference to the submission of the First Year Annual progress report of the above-mentioned RESPOND project and your request to renewal for Second year. The domain experts in Department of Space have reviewed the progress of the project. I wish to inform you that, Chairman, ISRO/Secretary, DOS has approved the following:

1. Renewal of the project for the Second Year
2. Release of grant of ₹4.62 Lakhs (Rupees Four Lakh and Sixty Two Thousand only) for meeting the expenditure of the project during the second year (Budget enclosed).

In this context, DOS has already issued Financial Sanction Order (copy enclosed). Further,

- (a) You will have to submit a comprehensive report (hard copy and soft copy) covering total project activities at the end of the project. The copies of reports should be sent to Director, SAC, Ahmedabad (Attn: Dr (Smt) Parul Patel, RESPOND Coordinator, SAC, Ahmedabad) and two copies to the undersigned.
- (b) You will have to submit the Final Fund Utilization Certificate and Audited Accounts Statement for the total expenditure incurred in the project. The FUC and AAS should be sent to the Pay & Accounts Officer, Department of Space, Antariksh Bhavan, New BEL Road, Bengaluru 560 231; Director, SAC, Ahmedabad (Attn: Dr (Smt) Parul Patel, RESPOND Coordinator, SAC, Ahmedabad) with a copy to the undersigned.



ACS/HCS/Dr YSK
2.7.18

भारतीय अन्तरिक्ष अनुसंधान संगठन / Indian Space Research Organisation

You are requested to submit the enclosed grant-in-aid bill and the Electronic Transfer Mandate Form duly filled and signed in original to the Pay and Accounts Officer, Department of Space, Antariksh Bhavan, New BEL Road, Bengaluru 560 231 with a copy to the undersigned for releasing the grants (to The Principal, Nagarjuna College of Engg. & Tech., Bengaluru) at the earliest.

With Best Regards,

Yours Sincerely,

M A Paul
for (M A Paul)

Dr. Y.S. Kumaraswamy
Prof and Dean (R&D)
Department of Computer Science & Engineering
Nagarjuna College of Engineering & Technology
Devanahalli
Bengaluru:562 164
Karnataka.

CC: Scientific Secretary, ISRO
Director, SAC, Ahmedabad
→ Principal, Nagarjuna College of Engg. & Tech., Bengaluru
Shri Neeraj Mathur, MESA/OPMG/OMDD, SAC, Ahmedabad
Shri Anurag S Verma, MESA/OPMG/OMDD, SAC, Ahmedabad
Dr.(Smt) Parul Patel, RESPOND Coordinator, SAC, Ahmedabad

Budget for second year of project : "Software Framework for hosting Application Programming Interface/modules for Artificial Intelligence, Heterogeneous Parallel Computing and Device Drivers for various scientific equipments in ex-planetary vehicles to the end/remote user" by Dr. Y S Kumaraswamy, Prof. and Dean (R & D), Dept. of Computer Science and Engineering, Nagarjuna College of Engineering & Technology, Devanahalli, Bengaluru, Karnataka

(₹ in Lakhs)

Sl. No	Item of Expenditure	2 nd Yr
1	Manpower: 1 JRF (@25,000 pm + 8% HRA for 2 nd Year)	3.24
2	Equipments	----
3	Consumables and Supplies	0.10
4	Contingency	0.10
5	Travel	0.40
	Sub Total	3.84
6	Overheads @ 20%	0.78
	Total	4.62

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru - 560 012

**List of projects selected for “PROJECT OF THE YEAR” award
during the Seminar and Exhibition of Student Projects – 39th SERIES: 2015-16
held on 19th and 20th August 2016 at**

BLDEA’s Vachana Pitamaha Dr. P. G. Halakatti College of Engineering & Technology, Vijayapura

BEST PERFORMING COLLEGE AWARD : 2015-16 : 39TH SERIES OF SPP

The Best Performing College Award goes to **VSM INSTITUTE OF TECHNOLOGY, NIPANI, BELAGAVI**. This award has been decided based on the following parameters of projects demonstrated by students such as;

1. Participation in Seminar and Exhibition projects
2. Project Presentation
3. Projects Awarded
4. Innovation and creativeness in the concept

BEST PROJECTS OF THE YEAR (Seminar projects)

MECHANICAL ENGINEERING

1) BIO-DESIGN AND FABRICATION OF BIO-COMPOSITE HELMET

- ACS COLLEGE OF ENGINEERING, BENGALURU
GUIDE : MR. SUNIL RAJ B.A
STUDENTS : MR. BHARATH B., MR. CHETHAN KUMAR G., MR. SHIVANNA G and MR.SYED SAJJAD HUSSAIN

2) MECHANICAL BEHAVIOUR OF WOOD PLASTIC COMPOSITES

- BASAVESHWAR ENGINEERING COLLEGE (AUTONOMOUS), BAGALKOT
GUIDE : MR. H. M. KADLIMATTI
STUDENTS : MS. KRUTIKA NAGADA, MR. AMIT DESAI, MR. MALLIKARJUN V M and MR. LOHIT RATHOD

3) HEAT TRANSFER STUDY OF SYNTHETIC AIR JET FOR EFFECTIVE COOLING

- KLS'S VISHWANATHRAO DESHPANDE RURAL INSTITUTE OF TECHNOLOGY, HALIYAL
GUIDE : MR. NAVEEN C S
STUDENTS : MR. PRAJWAL DODDAMANI, MR. VINAYAK B., MR. RAJANI HIREMATH and MR. SANTOSH JADHAV

4) EXPERIMENTAL STUDIES ON CUTTING PARAMETERS DURING DRILLING OPERATION OF MILD STEEL USING ECO FRIENDLY VEGETABLE OIL AS CUTTING FLUID

- K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BENGALURU
GUIDE : DR.JYOTHI.PN
STUDENTS : MS. M.SUSMITHA and MR.SHARAN P

BIOTECHNOLOGY

5) EXTRACTION AND SCREENING OF GLUCANSUCRASE (GLUCOSYLTRANSFERASE) SPECIFIC INHIBITOR FROM PLANT SOURCE TO PREVENT DENTAL CARIES

- SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY, BANGALORE
GUIDE : MS. PRIYA NARAYAN
STUDENTS : MR. SRINIDHI UPENDRA BHUJANG

CIVIL ENGINEERING

21) WATSE PLASTIC PYROLYSIS

- BLDEA'S DR. PGH COLLEGE OF ENGINEERING AND TECHNOLOGY, BIJAPUR
GUIDE : MS. ANURADHA. S. TANKSALI
STUDENTS : MR. RUNAL DESAI, MR. SACHIN PAWAR, MR. HANAN AHMED and
MR. BASAVARAJ BALKUNDE

COMPUTER SCIENCE AND ENGINEERING

22) WSN BASED ADVANCED AGRICULTURALVEHICLE OPERATED USING SMART PHONE – AGRIBOT

- NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY, BENGALURU
GUIDE : DR. PREMJIYOTI PATIL
STUDENTS : MS. LAVANYA M., MS. NEHA SHARMA., MS. P SAISNIGDHA and
MS. PAVITHRA SHETTY

23) RATION DISTRIBUTED SYSTEM USING SMART CARD

- JAIN COLLEGE OF ENGINEERING, BELAGAVI
GUIDE : PROF. BHARATI CHILAD
STUDENTS : MS. SANJANA MUTALIKDESAI, MS. SABARUHEE JAHAGIRDAR
MS. ASHWINI JADHAV and MS. KARTIKI DAMANEKAR

24) IDENTIFYING THE AMOUNT OF FERTILIZATION REQUIRED FOR RICE CROPS USING IMAGE PROCESSING SYSTEM TO INCREASE THE YIELD

- CAMBRIDGE INSTITUTE OF TECHNOLOGY, BENGALURU
GUIDES : DR. SHASHIKUMAR and MRS JAYANTHI M G
STUDENTS : MS. ROMANA TAZEEN, MS. SHILPA H N., MS. USHA P and MS. YASHASWINI C

25) ADVANCED 3D IMAGE PROCESSING TECHNIQUE FOR MEDICAL FIELD

- NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY, BENGALURU
GUIDE : MR. GOPINATH A R
STUDENTS : MS. BINDUSHREE M., MS. NAVYA C R., MS. RANJITHA N., MS. THEJASWINI K M

ELECTRICAL AND ELECTRONICS ENGINEERING

26) SOLAR PHOTOVOLTAIC PESTICIDE SPRAYER

- KLE DR. M. S. SHESHGIRI COLLEGE OF ENGINEERING & TECHNOLOGY, BELAGAVI
GUIDE : PROF.P V KITTUR
STUDENTS : MS. ROHINI PATIL, MR.MANGUESH PRASAD, MS. VIJETA MAHALE
and MS. SOUMYASHREE PATIL

27) ELECTRICITY GENERATION USING MUNICIPAL SOLID WASTE

- ANGADI INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BELAGAVI
GUIDE : PROF. SUPRIYA NARVEKAR
STUDENTS : MR. DEVENDRA CHAWAN, MS. ASHVINI DESAI, MR. MAHESH JAYGONDE and
MS. SNEHA KORE

INSTRUMENTATION TECHNOLOGY

28) DESIGN OF EMBEDDED SYSTEM FOR REAL TIME TREMOR MEASUREMENT AND ANALYSIS

- MS RAMAIAH INSTITUTE OF TECHNOLOGY, BENGALURU
GUIDE : MS. K M VANITHA
STUDENTS : MR. JISHNU G., and MS. BHAVANA C

भारतीय अन्तरिक्ष अनुसंधान संगठन

अन्तरिक्ष विभाग

भारत सरकार

अन्तरिक्ष भवन

न्यू बी ई एल रोड, बेंगलूर - 560 231, भारत

दूरभाष : +91 80 2341 5474

फैक्स :

Dr. K Ganesha Raj
Director, RESPOND



Indian Space Research Organisation

Department of Space

Government of India

Antariksh Bhavan

New BEL Road, Bangalore - 560 231, India

Telephone : +91 80 2341 5474

Fax :

☎: 080-23415269/22172269

FAX-080-23412471

email:director-respond@isro.gov.in

ISRO/RES/3/722/16-17

March 10, 2017

Dear Dr. Kumaraswamy,

Subject: RESPOND Project - "Software Framework for hosting Application Programming Interface/Modules for Artificial Intelligence, Heterogeneous Parallel Computing and Device Drivers for various scientific equipment in ex-planetary vehicle to the end/remote user" – reg.

This has reference to your submission of the above mentioned research proposal for funding under RESPOND Programme. The domain experts in Department of Space have reviewed the proposal. I wish to inform you that Chairman, ISRO / Secretary, DOS has approved the following:

1. Funding of the project under RESPOND Programme for a **period of Two Years** at a total outlay of **₹16.98 Lakhs (Rupees Sixteen lakhs and Ninety Eight Thousand only)** towards meeting the expenditure of the project (budget details enclosed).
2. Release of grant of **₹12.30 Lakhs (Rupees Twelve Lakhs and Thirty Thousand only)** towards meeting the First Year expenditure of the project

The approval is subject to fulfilment of the following:

- (a) You will have to submit Annual Progress Report (APR), at the end of the year, indicating the progress of the work accomplished during the first year (to enable renewal of the project for second year). However, on conclusion of the project, you will have to send a comprehensive report covering total project activities. The copies of reports should be sent to **Director, SAC, Ahmedabad (Attn: Dr. (Mrs) Parul Patel, RESPOND Coordinator, SAC, Ahmedabad)** and two copies to the undersigned.
- (b) You will have to submit two copies of the Fund Utilization Certificate (FUC) and Audited Accounts Statement (AAS) on completion of the first year of the project (to enable renewal of the project for second year). On completion of the project, you have to send the final FUC and Audited Account Statement for the total expenditure incurred in the project.

Sl. No	Item of Expenditure	1 st Yr	2 nd Yr	Total
1	Manpower: 1 JRF (@25,000 pm + 10% HRA for 1 st & 2 nd Years)	3.30	3.30	6.60
2	Equipments* (4 wheeler Rover Design-Electric drive system)	6.35	---	6.35
3	Consumables and Supplies	0.10	0.10	0.20
4	Contingency	0.10	0.10	0.20
5	Travel	0.40	0.40	0.80
	Sub Total	10.25	3.90	14.15
6	Overheads @ 20%	2.05	0.78	2.83
	Total	12.30	4.68	16.98

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
Indian Institute of Science Campus, Bengaluru - 560012

41st SERIES OF STUDENT PROJECT PROGRAMME : 2017 - 2018

Important: Please read the guidelines to carry out the projects.

The sanction order for the project proposals listed below will be dispatched to respective engineering colleges in the name of Principal and copy to HOD and concerned Guide of the project.

The following are the guidelines to carry out the project work:

- a. The project should be performed based on the objectives of the proposal sent by you.
- b. The project should be completed in all respects and **one copy of the hardbound report along with softcopy of the full report (including coverpages, abstract and preliminary pages) in a CD (.pdf format)** should be submitted to KSCST.
Any change in the **project title and objectives, etc., or students is liable to rejection of the project** and the amount sanctioned needs to be returned back to KSCST.
- c. Please quote your project sanctioned reference number in all your future correspondences.
- d. **Important:** After completing the project, 2 to 3 page write-up (synopsis) needs to be sent via email [spp@kscst.iisc.ernet.in] consisting of the following points:
 1. Title of the project
 2. Name of the College & Department
 3. Name of the students & Guide(s) (with email id and cell no. if any)
 4. Keywords
 5. Introduction / background (with specific reference to the project, work done earlier, etc) - about 20 lines
 6. Objectives (about 10 lines)
 7. Methodology (about 30 lines) (materials, methods, details of work carried out, including drawings, diagrams etc)
 8. Results and Conclusions (about 20 lines with specific reference to work carried out)
 9. Scope for future work (about 20 lines).
- e. Projects selected for Seminar and Exhibition will be awarded with prize books & certificates.

Note: The softcopy of the above said write-up in MS Word format should be forwarded to email id (spp@kscst.iisc.ernet.in) through the project guide indicating the **project proposal reference number in the subject line.**)

THE SANCTIONED AMOUNT WILL BE SENT SEPARATELY BY KSCST ACCOUNTS DEPARTMENT TO THE COLLEGE IN THE NAME OF THE PRINCIPAL DIRECTLY BY CROSSED CHEQUE.

- The sponsored projects evaluation will be held in the Nodal Centre.
- The Nodal centre will be in one of the engineering college at the regional level.
- It is mandatory for a sponsored project to demonstrate their project out comings at the nodal centre.
- The list of nodal centre will be communicated to the Principal of respective engineering colleges and will also be announced in website.
- The project should be completed in all respects and one copy of the hardbound report along with softcopy of the full report in a CD (.pdf format) should be submitted to KSCST.
- Any change in the project title and objectives, etc., or students is liable to rejection of the project and the amount sanctioned needs to be returned back to KSCST.
- After completion of the project, brief summary (about 2 pages) as per the format indicated above (d) needs to be sent via email (spp@kscst.iisc.ernet.in).

For more details if any please contact Dr. S. G. Sreekanteswara Swamy, Executive Secretary, KSCST

Email: spp@kscst.iisc.ernet.in

Mr. K. N. Venkatesh, Programme Co-ordinator, SPP, KSCST

Email: knv@kscst.iisc.ernet.in

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru – 560 012

Website: <http://www.kscst.iisc.ernet.in/spp.html> || Email: spp@kscst.iisc.ernet.in || Phone: 080-23600978

LIST OF PROJECTS SANCTIONED UNDER THE 41ST SERIES OF STUDENT PROJECT PROGRAMME: 2017-18

82. NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU

Sl. No.	PROJECT REFERENCE NO.	PROJECT TITLE	BRANCH	DEGREE	NAME OF THE GUIDE	NAME OF THE TEAM LEADER	SANCTIONED AMOUNT (in Rs.)
307.	41S_BE_1821	AQUIFER MAPPING, MONITORING AND ANALYSIS	CIVIL ENGINEERING	BE	Mr. SANATH KUMAR K R	Mr. RAKESH P R	4000.00
308.	41S_BE_1828	EARTHQUAKE BED USING IOT FOR HUMAN PROTECTION	COMPUTER SCIENCE AND ENGINEERING	BE	Dr. SHANTAKUMAR PATIL	Mr. VIKYATH N	3500.00
309.	41S_BE_2493	PREVENTION OF ACCIDENTS CAUSED BY POTHOLES AND HUMPS USING ULTRASONIC SENSORS	COMPUTER SCIENCE AND ENGINEERING	BE	Prof. B.ROOPASHRI TANTRI	Ms. RAMYA P L	3000.00

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
Indian Institute of Science Campus, Bengaluru - 560012

40th SERIES OF STUDENT PROJECT PROGRAMME : 2016 - 2017

Important: Please read the guidelines to carry out the projects.

The sanction order for the project proposals listed below will be dispatched to respective engineering colleges in the name of Principal and copy to HOD and concerned Guide of the project.

The following are the guidelines to carry out the project work:

- a. The project should be performed based on the objectives of the proposal sent by you.
- b. The project should be completed in all respects and **one copy of the hardbound report along with softcopy of the full report (including coverpages, abstract and preliminary pages) in a CD (.pdf format)** should be submitted to KSCST.
Any change in the **project title and objectives, etc., or students is liable to rejection of the project** and the amount sanctioned needs to be returned back to KSCST.
- c. Please quote your project sanctioned reference number in all your future correspondences.
- d. **Important:** After completing the project, 2 to 3 page write-up (synopsis) needs to be sent via email [spp@kscst.iisc.ernet.in] consisting of the following points:
 1. Title of the project
 2. Name of the College & Department
 3. Name of the students & Guide(s) (with email id and cell no. if any)
 4. Keywords
 5. Introduction / background (with specific reference to the project, work done earlier, etc) - about 20 lines
 6. Objectives (about 10 lines)
 7. Methodology (about 30 lines) (materials, methods, details of work carried out, including drawings, diagrams etc)
 8. Results and Conclusions (about 20 lines with specific reference to work carried out)
 9. Scope for future work (about 20 lines).
- e. Projects selected for Seminar and Exhibition will be awarded with prize books & certificates.

Note: The softcopy of the above said write-up in MS Word format should be forwarded to email id (spp@kscst.iisc.ernet.in) through the project guide indicating the **project proposal reference number in the subject line.**)

THE SANCTIONED AMOUNT WILL BE SENT SEPARATELY BY KSCST ACCOUNTS DEPARTMENT TO THE COLLEGE IN THE NAME OF THE PRINCIPAL DIRECTLY BY CROSSED CHEQUE.

- The sponsored projects evaluation will be held in the Nodal Centre.
- The Nodal centre will be in one of the engineering college at the regional level.
- It is mandatory for a sponsored project to demonstrate their project out comings at the nodal centre.
- The list of nodal centre will be communicated to the Principal of respective engineering colleges and will also be announced in website.
- The project should be completed in all respects and one copy of the hardbound report along with softcopy of the full report in a CD (.pdf format) should be submitted to KSCST.
- Any change in the project title and objectives, etc., or students is liable to rejection of the project and the amount sanctioned needs to be returned back to KSCST.
- After completion of the project, brief summary (about 2 pages) as per the format indicated above (d) needs to be sent via email (spp@kscst.iisc.ernet.in).

For more details if any please contact Dr. S. G. Sreekanteswara Swamy, Executive Secretary, KSCST

Email: swamy@kscst.iisc.ernet.in

Mr. K. N. Venkatesh, Programme Co-ordinator, SPP, KSCST

Email: knv@kscst.iisc.ernet.in

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru - 560012

LIST OF B.E. PROJECTS SANCTIONED UNDER 40th SERIES OF STUDENT PROJECT PROGRAMME: 2016 - 2017

78) NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY DEVANAHALLI

SI No.	Project proposal Ref. No.	TITLE OF THE PROJECT	BRANCH	NAME OF THE GUIDE/S	STUDENT1 & TEAM LEADER	SANCTIONED AMOUNT (Rs.)
319)	40S_BE_1688	ENCROACHMENT OF RAJA KALUVE IN BANGALORE CITY USING GIS AND RS	CIVIL ENGINEERING	PROF. SANATH KUMAR K R	MR. RAGHAVENDRA M	4,000.00
320)	40S_BE_1175	PLATWALKFORM - TECHNIQUES WHICH BRINGS SKYWALK TO PLATFORM IN RAILWAY STATION	COMPUTER SCIENCE AND ENGINEERING	DR. SHANTAKUMAR PATIL	MR. KISHAN K S	5,500.00
321)	40S_BE_1176	VEHICLE THEFT AVOIDANCE AND DETECTION USING DTM,F AND ANDRIOD	ELECTRONICS AND COMMUNICATION ENGINEERING	PROF. ROOPA G	MR. MURALIDHARA B V	7,000.00
322)	40S_BE_1174	INTELLIGENT WSN INTERCEPTOR FOR VEHICLE	INFORMATION SCIENCE AND ENGINEERING	PROF. MAMATHA C M	MR. PRAVEEN KUMAR G	2,500.00

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
Indian Institute of Science Campus, Bengaluru - 560012

41st SERIES OF STUDENT PROJECT PROGRAMME : 2017 - 2018

Important: Please read the guidelines to carry out the projects.

The sanction order for the project proposals listed below will be dispatched to respective engineering colleges in the name of Principal and copy to HOD and concerned Guide of the project.

The following are the guidelines to carry out the project work:

- a. The project should be performed based on the objectives of the proposal sent by you.
- b. The project should be completed in all respects and **one copy of the hardbound report along with softcopy of the full report (including coverpages, abstract and preliminary pages) in a CD (.pdf format)** should be submitted to KSCST.
Any change in the **project title and objectives, etc., or students is liable to rejection of the project** and the amount sanctioned needs to be returned back to KSCST.
- c. Please quote your project sanctioned reference number in all your future correspondences.
- d. **Important:** After completing the project, 2 to 3 page write-up (synopsis) needs to be sent via email [spp@kscst.iisc.ernet.in] consisting of the following points:
 1. Title of the project
 2. Name of the College & Department
 3. Name of the students & Guide(s) (with email id and cell no. if any)
 4. Keywords
 5. Introduction / background (with specific reference to the project, work done earlier, etc) - about 20 lines
 6. Objectives (about 10 lines)
 7. Methodology (about 30 lines) (materials, methods, details of work carried out, including drawings, diagrams etc)
 8. Results and Conclusions (about 20 lines with specific reference to work carried out)
 9. Scope for future work (about 20 lines).
- e. Projects selected for Seminar and Exhibition will be awarded with prize books & certificates.

Note: The softcopy of the above said write-up in MS Word format should be forwarded to email id (spp@kscst.iisc.ernet.in) through the project guide indicating the **project proposal reference number in the subject line.**)

THE SANCTIONED AMOUNT WILL BE SENT SEPARATELY BY KSCST ACCOUNTS DEPARTMENT TO THE COLLEGE IN THE NAME OF THE PRINCIPAL DIRECTLY BY CROSSED CHEQUE.

- The sponsored projects evaluation will be held in the Nodal Centre.
- The Nodal centre will be in one of the engineering college at the regional level.
- It is mandatory for a sponsored project to demonstrate their project out comings at the nodal centre.
- The list of nodal centre will be communicated to the Principal of respective engineering colleges and will also be announced in website.
- The project should be completed in all respects and one copy of the hardbound report along with softcopy of the full report in a CD (.pdf format) should be submitted to KSCST.
- Any change in the project title and objectives, etc., or students is liable to rejection of the project and the amount sanctioned needs to be returned back to KSCST.
- After completion of the project, brief summary (about 2 pages) as per the format indicated above (d) needs to be sent via email (spp@kscst.iisc.ernet.in).

For more details if any please contact Dr. S. G. Sreekanteswara Swamy, Executive Secretary, KSCST

Email: spp@kscst.iisc.ernet.in

Mr. K. N. Venkatesh, Programme Co-ordinator, SPP, KSCST

Email: knv@kscst.iisc.ernet.in

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru – 560 012

Website: <http://www.kscst.iisc.ernet.in/spp.html> || Email: spp@kscst.iisc.ernet.in || Phone: 080-23600978

LIST OF PROJECTS SANCTIONED UNDER THE 41ST SERIES OF STUDENT PROJECT PROGRAMME: 2017-18

82. NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU

Sl. No.	PROJECT REFERENCE NO.	PROJECT TITLE	BRANCH	DEGREE	NAME OF THE GUIDE	NAME OF THE TEAM LEADER	SANCTIONED AMOUNT (in Rs.)
307.	41S_BE_1821	AQUIFER MAPPING, MONITORING AND ANALYSIS	CIVIL ENGINEERING	BE	Mr. SANATH KUMAR K R	Mr. RAKESH P R	4000.00
308.	41S_BE_1828	EARTHQUAKE BED USING IOT FOR HUMAN PROTECTION	COMPUTER SCIENCE AND ENGINEERING	BE	Dr. SHANTAKUMAR PATIL	Mr. VIKYATH N	3500.00
309.	41S_BE_2493	PREVENTION OF ACCIDENTS CAUSED BY POTHoles AND HUMPS USING ULTRASONIC SENSORS	COMPUTER SCIENCE AND ENGINEERING	BE	Prof. B.ROOPASHRI TANTRI	Ms. RAMYA P L	3000.00

Date: 29.11.2019

F.No.9-265/RIFD/MOD/Policy-1/2018-19

All India Council for Technical Education
(A Statutory Body under Ministry of HRD, Govt. of India)
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org



MODROB - Sanction Letter

F.No.9-265/RIFD/MOD/Policy-1/2018-19

Date: 04.12.2019

To,
The Drawing and Disbursing Officer,
All India Council for Technical Education,
Nelson Mandela Marg, Vasant Kunj,
New Delhi- 110070.

Sub: Release of a sum of **Rs.640000/-** (Rupees Six Lakh Fourty Thousand Only) being the Grant-in-Aid under the scheme Modernization and Removal of Obsolescence (MODROB) for the year 2018-19 payable during the current financial year 2019-20- reg.

Sir,
With reference to the proposal submitted by the institute, this is to convey that the sanction of the Council for payment of **Rs.800000/-** (Rupees Eight Lakh Only) as Grant-in-Aid under the Modernization and Removal of Obsolescence (MODROB) scheme, as per details given below:

1.	Name and address of the Beneficiary Institution:	Director/ Principal/ Registrar, NAGARJUNA COLEGE OF ENGINEERING & TECHNOLOGY, MUDUGURKI VENKATAGIRI KOTE DEVANAHALLI Karnataka -562110		
2.	Title of Project:	Semiconductor and Electronics System Design LAB (SES DL)		
3.	Name of Coordinator:	Dr. NAGESH K.N		
4.	Duration of the project:	2 Years		
4.	Total Grant-in-aid Sanctioned:	Total: Rs.800000/-	Non-Recurring (85%): Rs.680000/-	Recurring (15%): Rs.120000/-
5.	Amount to be released during the year 2019-20:	1st Installment Rs.640000/-	Non-Recurring (85%): Rs.544000/-	Recurring (15%): Rs.96000/-
6.	Sanctioned grant-in-aid is debitable to:	Major Head 601.18(a) Gen. (Plan Head)		

- The amount of the Grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the Grant-in-Aid bill and shall be disbursed to and credited to the account of Director/Principal/ Registrar of the Institute through RTGS/PTMS.
- This Grant-in-Aid is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.

THE INSTRUCTIONS/GUIDELINES TO BE FOLLOWED BY UNIVERSITY/INSTITUTION

I. Release of funds:

- The Principal/ Director of the institute and the Coordinator of the project are hereby requested to verify the correctness of the under mentioned bank account/ RTGS details submitted by them along with the Proposal, in which the grant is being released:

Institute PAN No.	Bank Name	Bank Branch Name	Branch Address	Account Holder Name	Account Type	Account Number	IFSC
AAJAN0370M	VIJAYA BANK	Yelahank a New Town	HEALTHY NEW TOWN YELAHANK 560075	Director Nagarjuna College of Engineering & Technology	Saving Account	158010100777	VIB0001580

In case of any omission the same should be reported to AICTE immediately.

- b. The sanction is issued in exercise of the powers delegated to the council and other terms & conditions laid down in the guidelines of the scheme.
- c. 100% grant of the sanctioned amount is being released to Government/Govt. Aided institutions. Utilization Certificate (UC) and other requisite documents are to be submitted within one month of the completion of the project.
- d. To self-financed/Pvt. Institutions 80% of the sanctioned amount is being released as first installment followed by 20% as reimbursement after receipt of UC and other requisite documents as specified in terms & Conditions of MODROB Scheme.

II. Maintenance of accounts:

- a) The Institute shall strictly follow the provisions laid down in the scheme document and sanction order No. F.No.9-265/RIFD/MOD/Policy-I/2018-19 Dated 15.11.2019 issued by this office. All correspondences related to the project must contain this number along with year of sanction of the project, failing which correspondence will not be entertained.
- b) Funds covered by this grant shall be kept separately and would not be mixed up with other funds, so as to know the amount of interest accrued on the grant AICTE.
- c) The University/College/Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure (list enclosed).
- d) The Council or its nominee shall have the right to check /verify the account to satisfy that the fund has been utilized for the purpose for it was sanctioned.
- e) The date of release of the grant by AICTE shall be taken as the date of commencement of the project. The Principal / Director / Registrar shall intimate about the receipt of the grant to AICTE. Any expenditure incurred prior to the issuance of the approval letter will not be allowed to be adjusted in the grant and if the Institution / University do not take the project work within one month of the receipt of the grant, the approval shall ipso facto lapse.
- f) After receipt of the grant from AICTE, the Institute shall send a confirmation to AICTE within 2 months of receipt of grant that the sanctioned project has been started/is in progress.

III. Refund of grant by way of a demand draft in favour of Member Secretary, AICTE, New Delhi:

- a) If the college/institute does not have the Letter of Approval (LOA) or Extension of Approval issued by AICTE for the academic year 2019-20, the fund released should be immediately refunded to AICTE with interest accrued thereon.
- b) If project is not started within six months of the issuance of this Offer Letter, the released amount, along with interest accrued thereon, has to be necessarily returned to AICTE.
- c) In any case, if the institute is required to refund the grant or interest accrued thereon or balance amount, the amount will be refunded to AICTE.
- d) It may be ensured that the project is completed within the stipulated time. If the project is not completed in time, no further extension will be granted in any case and institute has to refund the entire amount to AICTE.
- e) As AICTE needs adequate time for depositing the Demand Draft in the bank, the same be immediately dispatched to avoid any lapse of the validity period.

IV. Submission of documents by college/institution after completion of Project/Subsequent years:

The following mandatory relevant documents are required to be submitted by the college/institution within one month of the completion of the project: -

- a) Feedback form in the prescribed proforma.
- b) The Annual Progress Report (APR) in the prescribed format along with the original Statement of actual Expenditure in the prescribed proforma duly signed by the Head of the institution and shall be submitted to AICTE not later than one month after completion.
- c) The Utilization Certificate (UC) supported by Audited Statement of Expenditure to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the AICTE immediately after completion of the project. It should contain the head-wise break up of expenditure made from the grant-in-aid provided by the Council. Audited Statement of

Expenditure indicating expenditure incurred in the total duration of the project in the prescribed format and GFR-19 shall be submitted to the Council.

- e) In case of self-financing/private institutions, Statement of actual Expenditure & Utilization Certificate are required to be audited & signed by a Chartered Accountant (with membership no., full address & stamp). Photocopies of formats are enclosed.
- e) Program Evaluation Committee (PEC) is required to be constituted at Institutional level. The constitution of the PEC shall be as under:
 - i. Principal/Director/Registrar of the Institution(Chairperson)
 - ii. Coordinator of the project (Member Secretary),
 - iii. Two HODs and one subject expert(Members).
 - iv. The members of the said PEC shall not be below the rank of Associate Professor. The minutes of the meetings are to be submitted to the Council at end of the project along with other mandatory documents.
- f) Project completion report project indicating the activities undertaking, number of students benefited, laboratory works photographs of students, together with their views is to be submitted.
- g) Attested photocopies of supporting vouchers/bills of expenditure incurred for the completion of Project.
- h) Photographs of equipment's purchased.
- i) The balance amount of the grant will be reimbursed to the university/institution only on submission of the above documents. On receipt of these documents, the total amount of balance of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid shall be released, as second installment, in favour of the beneficiary institution.

V. General instructions

- a) The amount of interest accrued on the grant should be treated as part of the grant to be utilized for that particular project. However, the interest amount accrued along with grant disbursed should not exceed the total grant sanctioned for the project. The Institute receiving the grant should reflect the same in the audited statement of accounts/ utilization certificate and may either refund the interest amount to AICTE or AICTE shall adjust the same in the next installment of grant before its release.
- b) Any unavoidable circumstantial change in the project with respect to name of Project Coordinator for the MODROB project would mandatorily require prior approval of the Council. All such requests should be addressed to AICTE, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council. Kindly mention the File No.9-265/RIFD/MOD/Policy-I/2018-19 in your future correspondence.
- c) The grantee shall maintain an audited record of assets acquired wholly or substantially out of the Grant-in-Aid and a register of assets shall be maintained by the Institute in the prescribed form i.e.GFR-19.
- d) The College / Institute receiving grant under MODROB is expected to put up a plaque at the main entrance of the Lab/Department, which has been modernized using the grant. All the equipment procured through the project should be super scribed with AICTE project file number.
- e) The assets acquired wholly or substantially out of grant shall not be disposed or encumbered or utilized for the purpose other than those for which the Grant was given without proper sanction of the AICTE and should at any time the institution cease to function, such assets shall revert to the AICTE.
- f) The grantee Institution shall observe all financial norms and guidelines as prescribed by the AICTE Government of India from time to time. GOI GFR rules (<https://doe.gov.in/under-circular/general-financial-rules2017-0>) should be followed during utilization of grant.

Date:29.11.2019

F.No.9-265/RIFD/MOD/Policy-L/2018-19

List of Equipment's approved :

Name of Equipments
Eleven Lab PCB Prototyping Machine Latest Configuration High end Server Machine ORCAD PCB Software

Yours sincerely,



Prof. Dileep N. Malkhede
Advisor-1 (RIFD)

16 DEC 2019

Copy forwarded for information and necessary action to:

1. **Name and Address of the Coordinator,**
Dr. NAGESH K.N.
NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY,
MUDUGURKI VENKATAGIRI KOTE DEVANAHALLI Karnataka -562110
2. **The Registrar / Director / Principal,**
NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY,
MUDUGURKI VENKATAGIRI KOTE DEVANAHALLI Karnataka -562110
3. **Guard File**

Prof. Dileep N. Malkhede
Advisor-1 (RIFD)

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science campus, Bengaluru – 560 012

Website: <http://www.kscst.iisc.ernet.in/app.html> || Email: app@kscst.iisc.ernet.in || Phone: 080-23600978

43rd Series of Student Project Programme: 2019-20

LIST OF STUDENT PROJECT PROPOSALS APPROVED FOR SPONSORSHIP

98) NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU

324	43S_BC_124	APPLICATION OF BIO SYNTHESISED NANOPARTICLES USING D-WASTE FOR TREATMENT OF TEXTILE MILL WASTEWATER	CIVIL ENGINEERING	B.E.	STREAM A	Ms. VIDYASHREE M O	M. ACHARY P M. BHARATH SRINJAYYA BANARAJ M. CHANNARAJU V M. KARTHIC M	4500.00
325	43L_BC_125	TREATMENT OF DAIRY INDUSTRIAL WASTEWATER USING ACTIVATED GRASS AS AN ADSORBENT	CIVIL ENGINEERING	B.E.	STREAM A	Ms. SHILPRA	M. MACHURU K M. MAHALAKSHMI M. MANDUKAMMI C R M. SAKSHI A	3000.00
326	43S_BC_126	HIGH FREQUENCY RADIO USED FOR TRANSMITTING/RECEIVING AGRICULTURE MARKET INFORMATION AND EARLY WARNING COMMUNICATION FOR EMERGENCY SITUATIONS IN REMOTE VILLAGE AREAS	ELECTRONICS AND COMMUNICATION ENGINEERING	B.E.	STREAM A	Dr. H VENKATESH KUMAR	M. SOPELLA SARASWATHI REDDY M. K SRIPALANI REDDY M. K VENKATACHINN REDDY M. K YASWANTH KUMAR REDDY	5500.00
327	43L_BC_127	SMART ASSESSIVE SHOES AND CANE TO GUIDE VISUALLY CHALLENGED PEOPLE	ELECTRONICS AND COMMUNICATION ENGINEERING	B.E.	STREAM A	Dr. ROHIT S	M. MANJU KUMAR G M. SANGEET YADAV M. Y PRANAV KUNAR REDDY M. SHRAV PERCU	5500.00

Notes:

- The successful students will be sent separately by KSCST to the College in the name of the principal by NEFT transfer. The details of successful students will also be provided.
- The completion of above projects will be completed at the discretion of the student by the month of May / June 2020. Participation in the completion process of the listed student is mandatory. Delay or which the completion project will be withdrawn from the list will be considered serious matter for KSCST.
- Further projects will be announced for same level as per the completion status and the completion during July / August 2020.
- After completion of the program, the hard copy and soft copy (PDF format only) of the report should be sent to KSCST without fail.
- Any queries with respect to the details of the guide and student should be requested at app@kscst.iisc.ernet.in

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science campus, Bengaluru – 560 012

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43rd Series of Student Project Programme: 2019-20

LIST OF STUDENT PROJECT PROPOSALS APPROVED FOR SPONSORSHIP

98) NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU

324	43S_BC_124	APPLICATION OF BIO SYNTHESISED NANOPARTICLES USING D-WASTE FOR TREATMENT OF TEXTILE MILL WASTEWATER	CIVIL ENGINEERING	B.E.	STREAM A	Ms. VIDYASHREE M D	M. ACHARY P M. BHARATH SRINJAYYA BANARAJ M. CHANNARAJU Y M. KARTHICK M	4500.00
325	43S_BC_125	TREATMENT OF DAIRY INDUSTRIAL WASTEWATER USING ACTIVATED GRASS AS AN ADSORBENT	CIVIL ENGINEERING	B.E.	STREAM A	Ms. SHILPA R	M. MACHURU K M. MAHALAKSHMI M. MANDUKAMMI C R M. SAKSHI A	3000.00
326	43S_BC_126	HIGH FREQUENCY RADIO USED FOR TRANSMITTING/RECEIVING AGRICULTURE MARKET INFORMATION AND EARLY WARNING COMMUNICATION FOR EMERGENCY SITUATIONS IN REMOTE VILLAGE AREAS	ELECTRONICS AND COMMUNICATION ENGINEERING	B.E.	STREAM A	Dr. H VENKATESH KUMAR	M. SOPELLA SARASWATHI REDDY M. K SRIPALANI REDDY M. K VENKATACHINN REDDY M. K YASWANTH KUMAR REDDY	5500.00
327	43S_BC_127	SMART ASSISTIVE SHOES AND CANE TO GUIDE VISUALLY CHALLENGED PEOPLE	ELECTRONICS AND COMMUNICATION ENGINEERING	B.E.	STREAM A	Dr. ROHIT S	M. MANUJ KUMAR G M. SANGEET YADAV M. Y PRANAV KUNAR REDDY M. SHAKI PERCU	5500.00

Notes:

- The successful students will be sent separately by KSCST to the College in the name of the principal by NEFT transfer. The details of successful students will also be provided.
- The completion of above projects will be completed at the discretion of the student by the month of May / June 2020. Participation in the completion process of the listed student is mandatory. Being so, the completion project will be withdrawn from the list and successful student will be reported to KSCST.
- Further projects will be announced for same level as per the completion status and the completion during July / August 2020.
- After completion of the program, the hard copy and soft copy (PDF format only) of the report should be the given to KSCST without any.
- Any queries with respect to the details of the guide and student should be reported at app@kscst.iisc.ernet.in

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru – 560 012

Website: <http://www.kscst.iisc.ernet.in/spp.html> | Email: spp@kscst.iisc.ernet.in | Phone: 080-23341652, 23348840/48/49

44th Series of Student Project Programme: 2020-21

List of Student Project Proposals Approved for Sponsorship

105. NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU

Sl. No.	PROJECT REFERENCE No.	PROJECT TITLE	BRANCH	COURSE	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)	SANCTIONED AMOUNT (IN Rs.)
686.	445_BE_1226	A PROPOSAL FOR STUDY AND DEVELOPMENT OF BEEDAGANAHALLI VILLAGE AS A SMART VILLAGE	CIVIL ENGINEERING	B.E.	Ms. GEETHA S D Ms. CHRYA S	Mr. ABHISHEK K.N Mr. GIRISH B.V Mr. K. ABHISHEK GOWDA Mr. MOHAN BABU N.K.	3000.00
687.	445_BE_1228	UTILIZATION OF WASTE PAPER AS COARSE AGGREGATE IN ALKALI ACTIVATED CONCRETE	CIVIL ENGINEERING	B.E.	Dr. NAGARAJ V.K Ms. CHATA S	Mr. VUTUKURU RACHURAM SAI Mr. SAMPAK VADDE BALAGANGADHAR Mr. SHRUTI GENNUR Mr. S.V DILEEP KUMAR REDDY	4000.00
688.	445_BE_1240	DESIGN AND DEVELOPMENT OF AUTOMATED EMISSION MONITORING FOR GENERAL VEHICLES	INFORMATION SCIENCE AND ENGINEERING	B.E.	Prof. SUBRAMANYA S G	Ms. LAVANYA J.M Mr. NAVISEN KUMAR S R Ms. NOMPIYA N Ms. RABHYA BASRI M	6000.00
689.	445_BE_1244	IOT BASED CAMOUFLAGE SURVEILLANCE ROBOT	COMPUTER SCIENCE AND ENGINEERING	B.E.	Mr. SRKANTH M S	Ms. DEEKSHITHA S N Mr. BHARATH KUMAR O Ms. DIVYA KHANDEKAR Mr. J.Y S MAHESH VARMA	5000.00
690.	445_BE_1248	DESIGN AND DEVELOPMENT OF VERTICAL TAKEOFF AND LANDING(VTOL) UAV	MECHANICAL ENGINEERING	B.E.	MR. SHASHIKANTH O S	Mr. RAJEEV PATRA Mr. PRAJWAL D G Mr. BAGHASAB MAHIBUB CHOUHARI Mr. SUMAN K	6000.00
691.	445_BE_1254	IOT BASED AIR AND SOUND POLLUTION MONITORING SYSTEM	ELECTRONICS AND COMMUNICATION ENGINEERING	B.E.	Ms. JYOTHI S K	Mr. SAI ROSHAN G Ms. MONIKA N Ms. TANUSHREE M Ms. REMATA BHARATH KUMAR REDDY	5500.00
692.	445_BE_1257	REAL-TIME FACE MASK IDENTIFICATION USING AI DEEP LEARNING NEURAL NETWORK	ELECTRONICS AND COMMUNICATION ENGINEERING	B.E.	Mr. SREENIVASULU K N	Ms. HARSHITHA C Ms. ASHWARYA S K Mr. CHANDAN L Mr. GANESH B	5500.00

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru – 560 012

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44th Series of Student Project Programme: 2020-21

List of Student Project Proposals Approved for Sponsorship

105. NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU

Sl. No.	PROJECT REFERENCE No.	PROJECT TITLE	BRANCH	COURSE	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)	SANCTIONED AMOUNT (IN Rs.)
686.	445_BE_1226	A PROPOSAL FOR STUDY AND DEVELOPMENT OF BEEDAGANAHALLI VILLAGE AS A SMART VILLAGE	CIVIL ENGINEERING	B.E.	Ms. GEETHA S D Ms. CHRYA S	Mr. ABHISHEK K.N Mr. GIRISH B.V Mr. K. ABHISHEK GOWDA Mr. MOHAN BABU N.K.	3000.00
687.	445_BE_1228	UTILIZATION OF WASTE PAPER AS COARSE AGGREGATE IN ALKALI ACTIVATED CONCRETE	CIVIL ENGINEERING	B.E.	Dr. NAGARAJ V.K Ms. CHATA S	Mr. VUTUKURU RAGHURAM SAI Mr. SAMPAK VADDE BALAGANGADHAR Mr. SHRUTI GENNUR Mr. S.V. DILEEP KUMAR REDDY	4000.00
688.	445_BE_1240	DESIGN AND DEVELOPMENT OF AUTOMATED EMISSION MONITORING FOR GENERAL VEHICLES	INFORMATION SCIENCE AND ENGINEERING	B.E.	Prof. SUBRAMANYA S G	Ms. LAVANYA J.M Mr. NAVISEN KUMAR S R Ms. NOMPIYA N Ms. RABHYA BASRI M	6000.00
689.	445_BE_1244	IOT BASED CAMOUFLAGE SURVEILLANCE ROBOT	COMPUTER SCIENCE AND ENGINEERING	B.E.	Mr. SRKANTH M S	Ms. DEEKSHITHA S N Mr. BHARATH KUMAR O Ms. DIVYA KHANDEKAR Mr. J.Y.S. MAHESH VARMA	5000.00
690.	445_BE_1248	DESIGN AND DEVELOPMENT OF VERTICAL TAKEOFF AND LANDING(VTOL) UAV	MECHANICAL ENGINEERING	B.E.	MR. SHASHIKANTH O S	Mr. RAJEEV PATRA Mr. PRAJWAL D G Mr. BAGHASAB MAHIBUB CHAUDARI Mr. SUMAN K	6000.00
691.	445_BE_1254	IOT BASED AIR AND SOUND POLLUTION MONITORING SYSTEM	ELECTRONICS AND COMMUNICATION ENGINEERING	B.E.	Ms. JYOTHI S K	Mr. SAI ROSHAN G Ms. MONIKA N Ms. TANUSHREE M Ms. REMATA BHARATH KUMAR REDDY	5500.00
692.	445_BE_1257	REAL-TIME FACE MASK IDENTIFICATION USING AI DEEP LEARNING NEURAL NETWORK	ELECTRONICS AND COMMUNICATION ENGINEERING	B.E.	Mr. SREENIVASULU K N	Ms. HARSHITHA C Ms. ASHWARYA S.K Mr. CHANDAN L Mr. GANESH B	5500.00



Karnataka State Council for Science and Technology

Indian Institute of Science Campus, Bengaluru - 560 012

Telephone: 080-23341652, 23348848, 23348849 • Telefax: 080-23348840

Email: office@kscst.iisc.ernet.in, office@kscst.org.in • Website: www.kscst.iisc.ernet.in, www.kscst.org.in

Mr. H. Hemanth Kumar
Executive Secretary

27th March 2019

Ref: 7.1.01/SPP/1333

The Principal,
Nagarjuna College of Engineering & Technology,
Mudugurki, Venkatagiri Kote,
Devanahalli, Bengaluru - 562 110.

Dear Sir/Madam,

Sub : Sanction of Student Project - 42nd Series: Year 2018-2019
Your Project Proposal Reference No. : **42S_BE_2029**

Ref : Your Project Proposal entitled " **INTELLIGENT WSN INTERCEPTOR FOR VEHICLES.**

I am happy to inform that your student project proposal referred above, has been approved by the Council for "Student Project Programme - 42nd Series" and has been sanctioned with a budgetary break-up as detailed below:

Student / s	Ms. Meghana A S and others	Budget	Amount (Rs)
		Materials/Consumables	4,000.00
Guide/s	Mr. Kasetty Rambabu	Labor	500.00
	Mr. Rohit S	Travel	500.00
Department	Electronics And Communication Engineering	Miscellaneous	500.00
		Report	500.00
		TOTAL	6,000.00
SIX THOUSAND RUPEES ONLY			

The following are the guidelines to carryout the project work :

- The project should be performed based on the objectives of the proposal sent by you.
- The project should be completed in all respects and one copy of the hardbound report along with softcopy of the full report in a CD (.pdf format) should be submitted to KSCST.
- Any change in the project title and objectives, etc., or students is liable to rejection of the project and the amount sanctioned needs to be returned to KSCST.
- Please quote your **project reference number printed above** in all your future correspondences.
- Important:** After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following ;
 - Title of the project
 - Name of the College & Department
 - Name of the students & Guide(s)
 - Keywords

HOD (EC)
H. Hemanth Kumar
8/4/19





Karnataka State Council for Science and Technology
 Indian Institute of Science Campus, Bangalore - 560 012

Telephone: 080-23341652, 23348845, 23348849 • Telefax: 080-23348840
 Email: office@kscst.iisc.ernet.in, office@kscst.org.in • Website: www.kscst.iisc.ernet.in, www.kscst.org.in

Dr. S. G. Sreekanteswara Swamy
 Executive Secretary

23rd March 2016

Ref: 7.1.03/SPP/ 1148

The Principal,
 Nagarjuna College Of Engineering & Technology
 Mudugurki, Venkatagiri Kote, Devanahalli
 Bangalore - 562 110

Dear Sir,

Sub : Sanction of Student Project - 39th Series: Year:2015-2016
 Your Project Proposal Reference No. : 395_BE_2153

Ref : Your Project Proposal entitled: **WSN BASED ADVANCED AGRICULTURALVEHICLE OPERATED USING SMART PHONE - AGRIBOT**

I am happy to inform that your project proposal referred above, has been approved by the Secretary, KSCST for "Student Project Programme - 39th Series" and has been sanctioned with a budgetary break-up as detailed below:

Student / s	Ms. Lavanya M and others	Budget		Amount (Rs)
		Materials/Consumables		3,000.00
Guide/s	Dr. Premjyoti Patil	Labor		-
		Travel		-
Department	Computer Science And Engineering	Miscellaneous		500.00
		Report		500.00
		TOTAL		4,000.00
Rupees	FOUR	ZERO		
	THOUSAND	HUNDRED		

The following are the guidelines to carryout the project work :

- The project should be performed based on the objectives of the proposal sent by you.
- The project should be completed in all respects and one copy of the hardbound report along with softcopy of the full report (including coverpages, abstract and preliminary pages) and in a CD (.pdf format) should be submitted to KSCST.
- Any change in the project title and objectives, etc., or students is liable to rejection of the project and the amount sanctioned needs to be returned to KSCST.
- Please quote your **project proposal reference number printed above** in all your future correspondences.
- Important:** After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following :
 - Title of the project
 - Name of the College & Department
 - Name of the students & Guide(s)
 - Keywords

Handwritten signature: H(C.S) / 18/14



Karnataka State Council for Science and Technology
Indian Institute of Science Campus, Bengaluru - 560 012

Telephone: 080-2334 1652, 2334 8848, 2334 8849 • Telefax: 080-2334 8840
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Dr. S. G. Sreekanteswara Swamy
Executive Secretary

27th March 2017

Ref: 7.1.03/SPP/1112

The Principal
Nagarjuna College Of Engineering & Technology,
Mudugurki, Venkatagiri Kote,
Devanahalli,
Bengaluru - 562 110.

Dear Sir,

Sub : Sanction of Student Project - 40th Series: Year 2016-2017
Your Project Proposal Reference No. : 40S_BE_1176

Ref : Your Project Proposal entitled " **VEHICLE THEFT AVOIDANCE AND DETECTION USING DTM,F AND ANDRIOD**

I am happy to inform that your project proposal referred above, has been approved by the Secretary, KSCST for "Student Project Programme - 40th Series" and has been sanctioned with a budgetary break-up as detailed below:

Student / s	Mr. Muralidhara B V and others	Budget	Amount (Rs)
		Materials/Consumables	6,500.00
Guide/s	Prof. Roopa G	Labor	-
		Travel	-
Department	Electronics And Communication Engineering	Miscellaneous	-
		Report	500.00
		TOTAL	7,000.00
	Rupees Seven Thousand		

The following are the guidelines to carryout the project work :

- The project should be performed based on the objectives of the proposal sent by you.
- The project should be completed in all respects and one copy of the hardbound report along with softcopy of the full report in a CD (.pdf format) should be submitted to KSCST.
- Any change in the project title and objectives, etc., or students is liable to rejection of the project and the amount sanctioned needs to be returned to KSCST.
- Please quote your **project sanction reference number printed above** in all your future correspondences.
- Important:** After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following :
 - Title of the project
 - Name of the College & Department
 - Name of the students & Guide(s)
 - Keywords

अखिल भारतीय तकनीकी शिक्षा परिषद्
 ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
 अधिनियम संख्या ३३ एच, संवैधानिक निकाय (A STATUTORY BODY OF THE GOVT. OF INDIA)

F. No. 2-7(SDC/PMKVY/SWRO/16-17/1-2812:12351

Dated: 30th January, 2017

The Drawing & Disbursing Officer,
 All India Council for Technical Education,
 Nelson Mandela Marg, Vasant Kunj,
 New Delhi - 110 067

Subject: Release of 1st instalment of Grant-in-Aid for the academic year 2016-17 Nagarjuna College of Engineering & Technology, Karnataka under the Pradhan Mantri Kaushal Vikas Yojana for Technical Institutes (PMKVY-TI) during the financial year 2016-17

I am directed to convey the sanction of the Council for payment of Rs.1,53,090/- (Rupees One Lakh Fifty Three Thousand Ninety Only) towards PMKVY-TI Scheme to Nagarjuna College of Engineering & Technology, Karnataka for 1st instalment of the grant (30% of the cost) for the Year 2016-17 out of the total grant-in-aid sanctioned for the academic year 2016-17 of Rs. 5,10,300/- subject to the following conditions:

- The amount of the grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the grant-in-aid bill and shall be disbursed to and credited to Nagarjuna College of Engineering & Technology, Karnataka through electronic fund transfer.
- The accounts of the Institute are liable to be audited by the Council or Comptroller and Auditor General of India or by any officer designated for the purpose.
- Separate account for the purpose to be maintained by the institute.
- The Utilization Certificate supported by audited statement of expenditure to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the All India Council for Technical Education as early as possible after the close of the current financial year (Format is enclosed at Appendix-A)
- Expenditure may be incurred under following head for the scheme:

Sr	Name of the Course	Specialization	Level	No of Intake Approved	No. of student Enroll	No. of Students approved as per minimum qualification by NSDC	Total no of hours	Rate* (Rs)	Cost (No. of Hrs x Rate) in Rs.	Amount of Grants 1st installment now to be released (in Rs)
1	Automotive	Lathe Operator	4	25	25	24	400	40.50	3,88,800	1,16,640
2	Electronics and Hardware	Pick and Place Assembly Operator	4	25	25	15	200	40.50	1,21,500	36,450
Total Cost									5,10,300	1,53,090

OS / H(M) / (EC)

13.2.17

नेल्सन मंडेला मार्ग, वसंत कुंज, नई दिल्ली - 110 067

Nelson Mandela Marg, Vasant Kunj, New Delhi - 110 067

विजया बँक VIJAYA BANK

क्र.सं. Sl. No.	दिनांक Date	व्योग Particulars	चेक सं. Cheque No.	आहरण Withdrawal ₹ पं./P	जमा Deposit ₹ पं./P	शेष Balance ₹ पं./P
2.	18-07-2017	NFFT-AICTE				2047872.30 Cr
3.	20-07-2017	RAMAKRISHNA K	38988711	7000.00		2040872.30 Cr
4.	21-07-2017	SMETATRIPATHY	75301545	10000.00		2030872.30 Cr
5.	21-07-2017	TO 127601141000125	38988765	4000.00		2026872.30 Cr
6.	21-07-2017	CG SRINIVASA MURTHY	75301536	4200.00		2022672.30 Cr
7.	21-07-2017	CG SRINIVASA MURTHY	38988774	6600.00		2016072.30 Cr
8.	21-07-2017	CG SRINIVASA MURTHY	75301501	7560.00		2008512.30 Cr
9.	22-07-2017	TO DD	38988790	995000.00		1013512.30 Cr
10.	22-07-2017	TO DD ISSUE CHARGES		3483.00		1010029.30 Cr
11.	22-07-2017	SHIVAM DHAR	38988717	2000.00		1008029.30 Cr
12.	22-07-2017	GOOD FOOD ENTERPRISES	38988789	4615.00		1003414.30 Cr
13.	22-07-2017	MELANGOWDA V	38988732	1440.00		1001974.30 Cr
14.	22-07-2017	ARHINAV KUMAR	75301513	4100.00		997874.30 Cr
15.	23-07-2017	RAMESH SHETAR	38988785	3900.00		993974.30 Cr

753090.00

5287

34969

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org



STTP- Sanction Letter

Ref. No. 14-66/97/FDC/STTP/Policy-1/2019-20

Date 10 AUG 2020

From

Director,
Faculty Development Cell,
AICTE, New Delhi-110070

To

The Drawing and Disbursing Officer,
All India Council for Technical Education,
Nelson Mandela Marg,
Vasant Kunj, New Delhi - 110070

Sub: Release of grant for conduct of Short Term Training Programme (STTP) under AQIS 2019-20 during the financial year 2020-21- reg.

Sir,

This is to convey the sanction of the Council for payment of Rs. **384933/- (Rupees Three Lakh EightyFour Thousand Nine Hundred ThirtyThree Only)** for conduct of Short Term Training Program as per details given below:-

1.	Name and address of the beneficiary University / Institution	NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY MUDUGURKIVENKATAGIRI KOTE DEVANAHALLI Karnataka 562110
2.	Permanent ID of Institute	1-2513971
3.	Institute type	Unaided - Private
4.	Name of Coordinator	Dr. MAGESH K.N
5.	Amount sanctioned	Rs. 384933/-
6.	Amount to be released	Rs.384933/- Full & final payment
7.	Head of account	601.15(a) Gen. Short Term Training Programme (Plan)
8.	The authorized officer in whose favour Cheque/ Demand Draft/ RTGS is to be made	REGISTRAR / DIRECTOR / PRINCIPAL
9.	Title of the programme	Applications of NI Labview

1. The amount of the grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the grant-in-aid bill and shall be disbursed to and credited to the Registrar/ Director/Principal of the institute through RTGS.
2. This grant in-aid is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.
3. The Principal of the Institute and the Coordinator of the Program are requested to verify the correctness of the under mentioned Bank Account / RTGS Details submitted by them alongwith the proposals, in which the grant is being released.

Institute PAN No.	Bank Name	Bank Branch Name	Bank Branch Address	Account Holder Name	Account Type	Account Number	IFSC Code
AAAAN0370M	VIJAYA BANK	Yelahanko New Town	YEI AHANK A NEW TOWN, BANGALOR E - 560064	Principal, Nagarjuna College of engineering & Technology	Saving Account	138001010007377	VIIIB0001380

Instructions/Guidelines to be followed by the University/Institution

I. Disbursement of funds to University/Institutions

- a. The full amount of the grant sanctioned is being released as advance to the University/Institute.
- b. The amount spent by the institute on the conduct of STTP shall be adjusted on the basis of utilization certificate and detailed expenditure statement submitted by the University/Institution on the prescribed format along with other mandatory documents viz feedback form, copy of proceedings and completion report etc.
- b. The above said amount of grant shall be refunded back to AICTE if the Letter of Approval (LOA) / Extension of Approval (EOA) is not issued by AICTE to the institute for the academic year 2020-21.

II Maintenance of Accounts

- a. The Institute shall strictly follow the provisions laid down in the scheme document as available on the portal.
- b. Funds covered by this grant shall be kept separately and would not be mixed up with other funds so as to know the amount of interest accrued on the grant.
- c. The University/College/Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure.
- d. The grant is intended to cover items of expenditure connected with the Short Term Training Programme such as Boarding & Lodging to the participants, TA to outstation participants, Honorarium to Course Coordinator, reading material to participants, Honorarium to resource persons, TA/DA to resource persons including two outstations resource persons & working expenses (reprographic services, postage, transport, daily wages, tea/coffee etc).

III. Conduct of test and issuance of certificate

A test shall be conducted by Program Monitoring Committee (PMC) at the end of the program and joint certificates shall be issued (by AICTE & conducting Institute) to those participants who have attended the program and have scored minimum 60% marks in the test.

IV. Submission of Documents by the University/Institutions to AICTE

- a. The following mandatory relevant documents are required to be submitted by the University/Institution within one month of the completion of the program:-
 - (i) Original Statement of actual expenditure & Utilization Certificate in the prescribed proforma duly signed by the Head of the Institution and countersigned by Registrar/Finance Officer/Govt. Auditor. In case of self-financing/private institutions, Statement of actual Expenditure & Utilization Certificate are required to be audited & signed and sealed by a Chartered Accountant endorsing the membership number and complete postal address. Format for the same is available on AICTE web portal.

The University/Institution is not required to submit bills/vouchers/invoices etc for the expenditure incurred out of recurring grants. However, such copies of bills/vouchers/invoices shall be digitized by respective institutions receiving grant and uploaded scanned copies of such bills/vouchers/invoices etc on the portal for availability and view at any point of time.

- (ii) Feedback form in the prescribed proforma.
 - (iii) Copy of the proceedings and completion report.
 - (iv) List of candidates who have successfully completed the program on the basis of the test conducted by Program Monitoring Committee (PMC).
 - (v) Report submitted by Program Monitoring Committee (PMC)
- b. The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University/Institution. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid adjusted.

v. General instructions

- a. Preferably 10% of the participants may be industry professionals deputed by industry. Further, not more than 2 participants shall be from the host institution/group of institutions.
- b. The grant released/or part thereof, if remains unutilized for any reason after expiry of stipulated time period (for any reasons to include unspent amount, interest, penalty if imposed) shall be refunded back to AICTE in the form of RTGS payable to Member Secretary, AICTE, New Delhi. The bank details of AICTE are as under:-

Account No	: 55113199952
Name of the Account Holder	: Member Secretary, AICTE, New Delhi
Bank Name	: State Bank of India
Branch Name	: Shastri Bhawan, New Delhi
IFSC Code	: SBIN0050203

- c. The STTP is a residential program of a duration of six days with minimum 40 participants. The approved STTP shall be conducted within six months from the date of release of funds.
- d. If programme is not conducted within the period of six months of the release of the 100% grant, the released amount, alongwith interest accrued thereon, has to be necessarily returned back to AICTE within a month through RTGS.
- d. The expenditure under the Heads 'Honorarium to Course Coordinator' and 'Honorarium to Resource Persons' shall not exceed 1% & 20% respectively of the total sanctioned grant for the Programme. However, overall expenditure shall not exceed the funds sanctioned for the Programme.
- e. Any extra money required to complete the programme must be borne by the institute from their own resources. But the quality of the activities should not be compromised.
- h. Any unavoidable circumstantial change in the program with respect to name of Project Coordinator, Venue and date for organizing STTP would mandatorily require prior approval of the Council. All such requests should be addressed to AICTE, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council. Kindly mention the File No. 34-66/97/FDC/STTP/Policy 1/2019-20 in your future correspondence.
- i. Steering Committee/Project Monitoring Committee (PMC) is required to be constituted at institutional level. The constitution of the PEC shall be as under:

- (i) Principal/Director/Registrar of the institution (Chairperson).
- (ii) Coordinator of the program (Member Secretary).
- (iii) Two HoDs and one subject expert (members).

The members of the said PMC shall not be below the rank of Associate Professor. A test shall be conducted by Project Monitoring Committee (PMC) at the end of the program and the certificates shall be issued to those participants who have attended the program and have qualified in the test. The minutes of the meetings, along with PMC report, are to be submitted to the Council at end of the program along with other mandatory documents.

- j. **GoI GFR** rules (@<https://doe.gov.in/order-circular/general-financial-rules2017-0>) should be followed during utilization of grant.
- k. This Sanction Order may be treated as Offer Letter for all purposes.

NOTE:- Any deviation from the above will invoke serious action against the Institute.

Yours sincerely,

(Col. B Venkat)
Director (FDC)

10 AUG 2020

Copy forwarded for information and necessary action to:-

1. **Name and Address of the Coordinator**
Dr. NAGESH K.N
NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY
MUDUGURKIVENKATAGIRI KOTE DEVANAHALLI
Karnataka562110
2. **The Registrar / Director / Principal**
NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY
MUDUGURKIVENKATAGIRI KOTE DEVANAHALLI
Karnataka562110
3. **Guard file**

ISRO RESPOND Project
Salary Expenditure 2017-18

Date	Name	Cheque no (vijaya bank yalahanka branch)	Amount in Rs.	Signature
09/05/17	Pramoda K.V	570781,570782	27500/-	
07/06/17	Pramoda K.V	570827,570828	27500/-	
15/07/17	Pramoda K.V	570296,570297	27500/-	
10/08/17	Pramoda K.V	573843,573844	27500/-	
07/09/17	Pramoda K.V	572743,572742	27500/-	
12/10/17	Pramoda K.V	576372,576371	27500/-	
16/11/17	Pramoda K.V	785139,785140	27500/-	
12/12/17	Pramoda K.V	676696,676697	27500/-	
16/01/18	Pramoda K.V	462649,462650	27500/-	
23/02/18	Pramoda K.V	786323,786322	27500/-	
14/03/18	Pramoda K.V	786353,786352	27500/-	
07/04/18	Pramoda K.V	788658,788659	27500/-	
Total			Rs. 3,30,000 /-	

12/4/18
Signature of PI

Dr. Y. S. Kumaraswamy
Prof & Dean (Acad.)
Dept. Computer Science & Engg
NCET, BENGALURU-562164

12.4.18
Signature of Principal

(Dr.S.G.Gopalakrishna)
PRINCIPAL
Nagarjuna College of Engineering & Technology
Devanahalli (Tq) Bengaluru (Dt.) Pin: 562164

Grant Sanctioned by ISRO and expenditure layout of 2017-18

Sl.No	Item of expenditure	2017-18 (1st year) In Rs	Expenditure Spent In Rs
1	Manpower:1 JRF	3,30,000 /-	3,30,000/-
2	Equipments: (Rover design)	6,35,000 /-	6,35,664/-
3	Consumables and supplies	10000/-	10589/-
4	Contingency	10000 /-	10259/-
5	Travel	40000 /-	40,018 /-
6	Overheads @ 20%	205000 /-	2,05,000/- (Deposited to college bank account)
TOTAL		12,30,000/-	12,31,530 /-

Remaining Fund : NIL

Ysu
12/4/18
Signature of PI

Dr. Y. S. KUMARA SWAMY
(Dr. Y. S. Kumaraswamy)
Prof & Dean (R&D)
Dept. Computer Science & Engg.
NCET, BENGALURU-562164

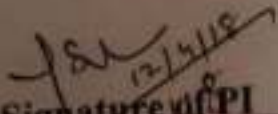
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12.4.18
Signature of Principal
PRINCIPAL

(Dr. S. G. Gopalakrishna)
Devanahalli (Tq) Bengaluru (Dt.)-Pin: 562164

ISRO RESPOND Project

Equipments Expenditure 2017-18

SL. NO	Date	Name	Cheque no	Amount in Rs.	Remarks
1	09/05/17	Biswajith Pal	570579	11740/-	Equipment details provided in FUC
2	09/05/17	College Payment	570785	74166/-	"
3	09/05/17	Pragathi & united computers	570583 617790	207735/-	"
4	09/05/17	Marcellus infotech pvt ltd	570584	17724/-	"
5	19/05/17	Biswajith Pal	570680	15846/-	"
6	07/06/17	Biswajith Pal	570829	34321/-	"
7	19/06/17	Biswajith Pal	569895	16648/-	"
8	19/07/17	Biswajith Pal	575931	24969/-	"
9	10/07/17	K.S.B Machine Tools	Paid	4853/-	"
10	09/08/17	Biswajith Pal	573868	51249/-	"
11	02/01/18	Biswajith Pal	462628	55315/-	"
12	12/01/18	Numerix technologies pvt ltd	To be paid	118000/-	"
13	13/01/18	Om technology center	To be Paid	3098/-	"
Total				Rs. 6,35,664/-	


 Signature of C/P
Dr. Y.S. Kumar Swamy
 Dept. Computer Science & Engg.
 NCET, BENGALURU-562164


 Signature of Principal
(Dr. S.G. Gopalakrishna)
PRINCIPAL
 Nagarjuna College of Engineering & Technology
 Devanahalli (Ta) Bengaluru (Dt.)-Pin: 562164

Nagarjuna College of Engineering and Technology
Mudugurki, Venkatagiri Kote Post,
Devanhalli, Bangalore- 562 164

ISRO RESPOND PROJECT ANNUAL EXPENDITURE 2017-18

Title: "Software Framework For Hosting, Application Programming Interface / Modules For Artificial Intelligence, Heterogeneous Parallel Computing And Device Drivers For Various Scientific Equipment In Ex- Planetary Vehicle To The End/Remote User " .

Ref. no: ISRO/RES/3/722/16-17 DATED 10/03/17

Principle Investigator: Dr. Y.S. Kumaraswamy, Ph.D., PDF (IISc)

Project Co-ordinator: Mr. Bishwajith Pal (Ph.D)

Junior Research Fellow: Mr. Pramoda K.V., M.Tech

Ref. No. NCET / 222 / 2017-18

Date: 12/4/18

Form of fund utilization certificate
(projects/schemes)

Name of the Nodal Institution / Nagarjuna College of Engineering and Technology

Department of Organization : Computer science and engineering

Name of Project scheme : "Software Framework For Hosting, Application Programming Interface / Modules for Artificial Intelligence, Heterogeneous Parallel Computing and Device Drivers For Various Scientific Equipment In Ex-Planetary Vehicle To The End/Remote User."

Certified that out of Rs 12,30,000 /- of grant-in-aid released during the financial year 2017-2018 in favour of Nagarjuna College of Engineering and Technology on the subject for the "Software Framework For Hosting, Application Programming Interface / Modules For Artificial Intelligence, Heterogeneous Parallel Computing And Device Drivers For Various Scientific Equipment In Ex-Planetary Vehicle To The End/Remote User" (First/Second year) by Government of India, Department of space, Bangalore as per Sanction order No. ISRO/RES/3/722/16/17 Date 12/03/17 and Rs NIL unspent balance of the previous year.

A sum of Rs 12,31,530 /- has been utilized during the period 2017-2018 on the project/scheme and the balance amount of Rs NIL remaining unutilized as the end of the year will be adjusted towards the grant-in-aid payable for the next year 2018-2019 the unspent balance if any on completion of the project will be surrendered to pay and Accounts officers, Department of Space, Bangalore duly supported by consolidated Audited statement of account, Reports, Papers, Compendium of data analysis Etc. (Sequr / DO no..... Date.....)

Y.S.K
12/4/18
Project Investigator

M
12.4.18
Head of institution

Registrar Finance office

Auditor

Dr. Y.S. KUMARA SWAMY
(with seal)
Prof & Dean (R&D)
Dept. Computer Science & Engg
NCET, BENGALURU

PRINCIPAL
(with seal)
Nagarjuna College of Engineering & Technology
Devanahalli (Tq) Bengaluru (Dt.) Pin: 562164

(with seal)

(with seal)

ISRO RESPOND Project
Salary Expenditure 2017-18

Date	Name	Cheque no (vijaya bank yalahanka branch)	Amount in Rs.	Signature
09/05/17	Pramoda K.V	570781,570782	27500/-	
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16/11/17	Pramoda K.V	785139,785140	27500/-	
12/12/17	Pramoda K.V	676696,676697	27500/-	
16/01/18	Pramoda K.V	462649,462650	27500/-	
23/02/18	Pramoda K.V	786323,786322	27500/-	
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07/04/18	Pramoda K.V	788658,788659	27500/-	
Total			Rs. 3,30,000 /-	

12/4/18
Signature of PI

Dr. Y. S. Kumaraswamy
Prof & Dean (Acad.)
Dept. Computer Science & Engg
NCET, BENGALURU-562164

12.4.18
Signature of Principal

(Dr.S.G.Gopalakrishna)
PRINCIPAL
Nagarjuna College of Engineering & Technology
Devanahalli (Tq) Bengaluru (Dt.) Pin: 562164

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru – 560 012

Website: <http://www.kscst.iisc.ernet.in/spp.html> || Email: spp@kscst.iisc.ernet.in || Phone: 080-23341652, 23346840/48/49

44th Series of Student Project Programme: 2020-21

List of Student Project Proposals Approved for Sponsorship

105. NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU

Sl. No.	PROJECT REFERENCE No.	PROJECT TITLE	BRANCH	COURSE	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)	SANCTIONED AMOUNT (IN Rs.)
686	44S_BE_1216	A PROPOSAL FOR STUDY AND DEVELOPMENT OF BEEDANGAMHALLU VILLAGE AS A SMART VILLAGE	CIVIL ENGINEERING	B.E.	MS. GEETHA S D MS. CHAYYA S	Mr. ABHISHEK K N Mr. GIRISH B V Mr. K. ABHISHEK GOWDA Mr. MOHAN BABU N K	3000.00
687	44S_BE_1228	UTILIZATION OF WASTE PAPER AS CORPSE AGGREGATE IN ALUVAL ACTIVATED CONCRETE	CIVIL ENGINEERING	B.E.	D. NAGARAJ V K Ms. CHAYYA S	Mr. VUTUKURU RAJULU RAM SAI Mr. SAMPAANGI VAODE BALGANGADHAR Ms. SHRUTI GENNUR Mr. S V DILEEP KUMAR REDDY	4000.00
688	44S_BE_1240	DESIGN AND DEVELOPMENT OF AUTOMATED EMISSION MONITORING FOR GENERAL VEHICLES	INFORMATION SCIENCE AND ENGINEERING	B.E.	Prof. SUBRAMANYA S G	Ms. LAVANYA J M Mr. NAVEN KUMAR S R Ms. MONIKA N Ms. RABHYA BASRI M	6000.00
689	44S_BE_1244	IOT BASED CAMOUFLAGE SURVEILLANCE ROBOT	COMPUTER SCIENCE AND ENGINEERING	B.E.	Mr. SRIKANTH M S	Ms. DEEKSHITHA S N Mr. BHARATH KUMAR O Ms. DIVYA KHANDEKAR Mr. I V S MAHESH VARMA	5000.00
690	44S_BE_1248	DESIGN AND DEVELOPMENT OF VERTICAL TAKEOFF AND LANDING VTOL UAV	MECHANICAL ENGINEERING	B.E.	MR. SHASHIKANTH G S	Mr. RAJEEV PATRA Mr. PRAJWAL D G Mr. BASHASAB HANUBUB CHOLUDARI Mr. SUMAN K	6000.00
691	44S_BE_1254	IOT BASED AIR AND SOUND POLLUTION MONITORING SYSTEM	ELECTRONICS AND COMMUNICATION ENGINEERING	B.E.	Ms. JYOTHI S K	Mr. SAI ROSHAN G Ms. MONIKA N Ms. TANUSHREE M Ms. REMATA BHARATH KUMAR REDDY	3500.00
692	44S_BE_1257	REAL TIME FACE MASK IDENTIFICATION USING AI DEEP LEARNING NEURAL NETWORK	ELECTRONICS AND COMMUNICATION ENGINEERING	B.E.	Mr. SREENIVASULU K N	Ms. HARSHITHA C Ms. NISHWARYA B K Mr. CHANDANIL Mr. GANESH B	5500.00
693	44S_BE_2517	EXPERIMENTAL INVESTIGATION ON INFLUENCE OF NANOMATERIALS ON PROPERTIES OF CEMENT COMPOSITES	CIVIL ENGINEERING	B.E.	Dr. NAGARAJ V. K	Ms. NAVYA R Mr. MANOJ K V Mr. KOTLAR VARJUN REDDY Mr. SANGAMESH. M. M	4200.00



Shaping Tomorrow's
Built Environment Today

Advancing HVAC&R to serve humanity and promote a sustainable world

STUDENT ACTIVITIES

1791 Tufile Circle, NE • Atlanta, GA 30329-2305 USA • Tel 678.539.1212 • Fax 678.539.2212

February 17, 2017

Dear Dr.N.Kaplan,

Congratulations! Your submission to ASHRAE's Senior Undergraduate Project Grant Program titled, "Development and evaluation of solar hybrid adsorption cooling system for rural application as a demonstration unit" was approved for funding in the amount of \$3100.

Before we can process your request, we require you to review the attached Project Information Sheet, which you submitted with your application. Please indicate whether the information is still current and the grant funds are still required. Also, please complete the attached Award Information Sheet and return it with any corrections to your Project Information Sheet by April 28, 2017.

A copy of your Project Information Sheet will be forwarded to the Student Activities Chair of the ASHRAE Chapter in your area. He/she should contact you directly for a certificate/award presentation. However, this will not be a presentation of funds since your check will be mailed directly to the individual you indicate on the Award Information Sheet. If you have any questions, please contact Katie Thomson, Assistant Manager, Student Activities, at 678-539-1212 or by e-mail at kthomson@ashrae.org.

As a reminder, the students involved in the project receiving the grant funds must submit a written report to ASHRAE upon the project's completion. A project spanning more than one semester/quarter must submit a progress report at the end of each semester/quarter. Your project's progress report is due 12/31/2017 and the final report is due 4/30/2018. Delinquent reports will disqualify you from obtaining grants in the future; therefore, if your report is going to be submitted late, please contact the Assistant Manager, Student Activities. Details on the interim and final report format are listed on the Student Zone website in the Grants section.

Again, congratulations! We look forward to an opportunity to work with your institution and assist in student research.

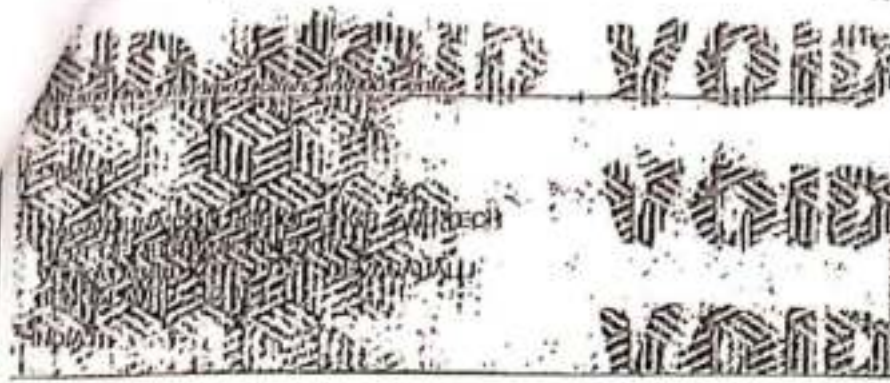
Sincerely,

Russell Marcks

Russell Marcks
2016-17 Chair, Student Activities Committee

Atlanta, GA 30302

04-06-11

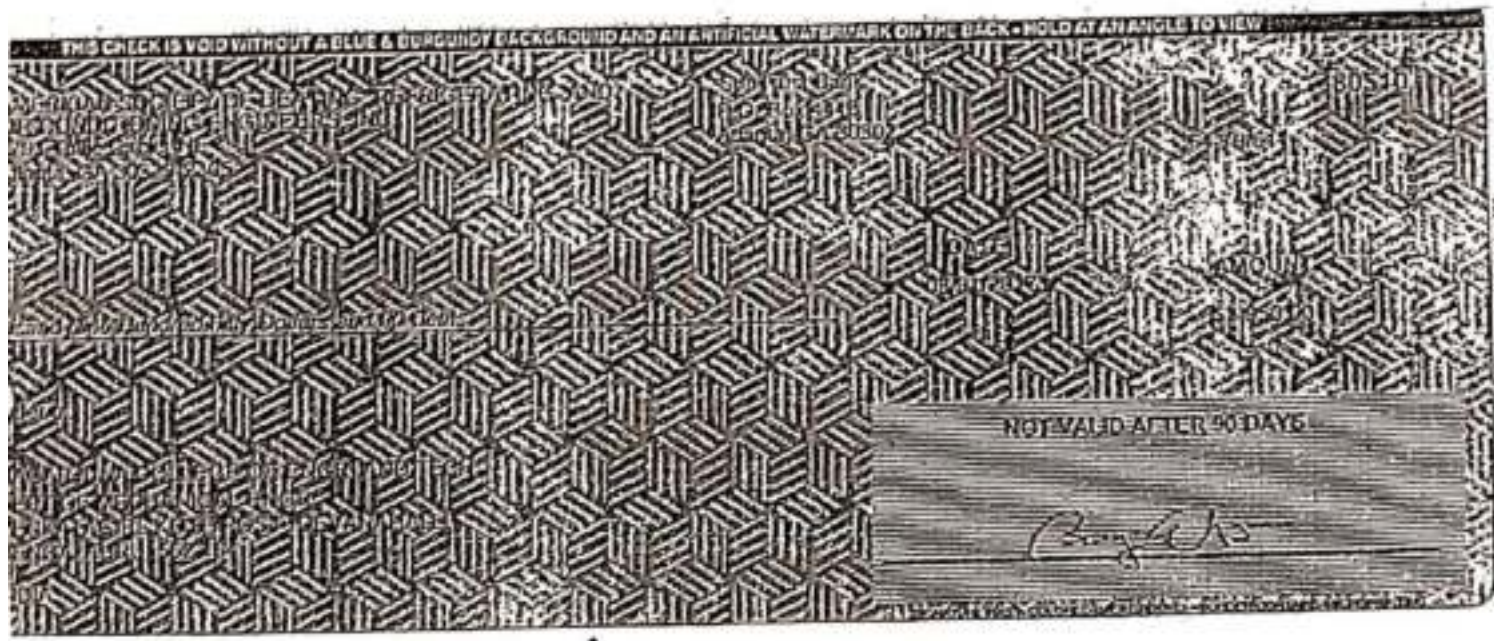


DATE
08/07/07

AMOUNT
\$3,100.00

NOT VALID AFTER 90 DAYS
[Signature]

⑈80509⑈ ⑆061100790⑆ 8800609516⑈



THIS CHECK IS VOID WITHOUT A BLUE & BURGUNDY BACKGROUND AND AN ARTIFICIAL WATERMARK ON THE BACK - HOLD AT AN ANGLE TO VIEW

NOT VALID AFTER 90 DAYS

[Signature]

⑈80510⑈ ⑆061100790⑆ 8800609516⑈



Government of Karnataka

Vision Group on Science and Technology

Department of Information Technology, Biotechnology and Science & Technology
4th Gate, 7th Floor, M.S. Building, Dr. Ambedkar Veedhi, Bengaluru - 560 001
Phone : 080-2203 2013, E-mail : visiongroup.st@gmail.com, Website : www.vgst.in

Dr. S.G. Sreekanteswara Swamy, PhD.,
Consultant, VGST

No /VGST/GRD - 228 /2013-14/2019-20/327

22-07-2019

To,
The Principal,
Nagarjuna College of Engineering and Technology
38/1, Mudugurki, Venkatagiri Kote Post,
Devana Halli, Bengaluru, 562110

Dear Sir,

Sub : Approval for the submission of PART -A for purchase the
Equipment . - GRD - 228 .

With reference to the approval of GRD - 228 Nagarjuna College of Engineering and Technology Bengaluru, 562110 under the scheme CISEE proposed by Dr. N. Kapilan , Department of Mechanical Engineering The Committee recommended to release the next instalment on the review meeting held on 29-09-2018, the project titled " Development & Evaluation of Solar & Geo- Thermal based cooling & Refrigeration systems" was released the grant of Rs 10.00 lakhs for 2nd Instalment in the FY : 2014-15 (Cheque no : 655139 Dt : 24-05-2019).

As submitted the PART - A of GRD by the Grantee Institution requesting for the purchase of Equipments for the Second Instalment the details are as follows

2nd Instalment - Non Recurring Budget Estimate under E- Tendering Process for the
FY : 2014-15.

Sl NO	Submitted in PART -A under Non -Recurring (ETP) Budget Estimate by Grantee Institution	Amount (Rs)
1	Hybrid Solar Biomass Absorption based cooling system	6,00,000.00
2	Refrigeration System which can be integrated with hybrid solar biomass system	3,00,000.00
	Total	9,00,000.00

2nd Instalment - Recurring Budget Estimate for the FY : 2014-15

SI NO	Submitted in PART -A under Recurring Budget Estimate by Grantee Institution	Amount (Rs)
1-4	Chemicals / Glassware Plastic ware / Biological Specimen	60,000.00
5	Electrical and Electronics	7,500.00
6	Mechanical Spare Parts	7,500.00
7	Contingency	20,000.00
8	Books and Journals	5,000.00
	Total	1,00,000.00

The submitted Financial status Performa (FSP) and PART - A document details are as follows

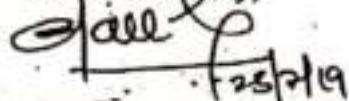
* Previous year Balance according to the UC on 28-09-2016	71,013.00
Paid to Bangalore India Nano of Rs 5,310.00 on 08-12-2017	65,703.00
Interest as per bank pass book from 31-10-2016 to 30-04-2019	3,642.00

Total in the Bank Account as on 30-04-2019	69,345.00
Grant Amount for the FY 2014-15	10,00,000.00
TOTAL	10,69,345.00
NON RECURRING	
E-tendering (ETP)	9,00,000.00
TOTAL	9,00,000.00
RECURRING	
Consumables and Contingency	1,00,000.00
Approval as per (PART - A submitted by GI / PC)	10,00,000.00
BALANCE AMOUNT CARRIED FOR THE NEXT YEAR	69,345.00

In this view, as mentioned in the procurement document (PART-A), you may purchase the equipments through E-Tendering and Manual Tendering. Please do not deviate the purchase procedure for the procurement of equipments. Please submit the PART-B (Purchase Documents) to the VGST office after completion of the process. This is for your kind information.

With thanks and regards,

Yours sincerely,



(Dr.S.G.Sreekantheshwara Swamy)

Consultant

CC : Dr. N. Kapilan, Department of Mechanical Engineering, Nagarjuna College of Engineering and Technology 38/1, Mudugurki, Venkatagiri Kote Post, Devana Halli, Bengaluru, 562110

S.K. Muttiga



भारतीय स्टेट बैंक
State Bank Of India

(40463) - RAMANASHREEARCBANASHANKARISTG
PB NO 7079 21ST MAIN OPP B D A COMPLEX
BANASHANKARI II STG, BLORE 560070
Tel: 80-26716750 IFS Code : SBIN0040463

काल 3 मासि के लिए ही (VALID FOR 3 MONTHS ONLY)
24052019
D D M M Y Y Y Y

Principal, Magarajuna College of Engineering & Technology, Bengaluru
₹ Ten Lakhs Only

अदा करें ₹ 10,00,000/-

64110830474

VALID UPTO ₹ 10 LACS AT NON-HOME BRANCH

[Signature]

MANAGING DIRECTOR, KARNATAKA SCIENCE AND TECHNOLOGY PROMOTION SOCIETY

SB ACCOUNT
PREFIX:
1515500089

Please sign above
BANK
BANK

TERANKOFENBIA
TERANKOFENBIA

⑈655139⑈ 560002380⑈ 010137⑈ 31

23 - 9 - 2019

From
Dr. N. Kapilan
Professor and Head
Department of Mechanical Engineering
NCET, Bengaluru - 562 164

To
The Principal
NCET, Bengaluru

Sir,

Sub: Crediting of ASHRAE Grant to NCET Bank Account - Reg.

Ref : 1) ASHRAE Cheque, Sun Trust Bank, No 89271, Amount : US \$ 4000
2) ASHRAE Cheque, Sun Trust Bank, No 89272, Amount : US \$ 4000

With reference to the above, We have received the research grant of US \$ 8,000 from ASHRAE and request you to credit the amount in college account and later on transfer it to NCET ASHRAE Grant. I kindly request you to do the needful.

Thanking You

Yours Sincerely


(Dr. N. Kapilan)

Enclosure : Two Original Cheques of ASHRAE

Accts
Chans
.. 23.9.19

Retained
8/24/19

After crediting to
Acct the credited
amt and Trf
to bank to
NCET ASHRAE ac
P. S. S.

692720 1000007900 8800009516

DATE	AMOUNT
01/20/2019	\$4,000.00

NOT VALID AFTER 90 DAYS

Randy A...

692720 1000007900 8800009516

DATE	AMOUNT
01/20/2019	\$4,000.00

NOT VALID AFTER 90 DAYS

Randy A...



Government of India
Department of Atomic Energy (DAE)
Board of Research in Nuclear Sciences (BRNS)

Mr. Mandar Joshi
Programme Officer (MSS)

BRNS
Secretariat, 316-C, CFB,
BARC, Trombay,
Mumbai-400085
Email:
prg4 bms@barc.gov.in

No. 57/14/12/2019-BRNS/34097

Date: 19 DEC 2019

OFFICE MEMORANDUM

Sub: R/P entitled "Development of Indirect Heating type Superconducting Liquid Helium Level Sensors" under Dr. Kapilan N, Professor and Head Department of Mechanical Engineering, Nagarjuna College of Engineering and Technology, Bengaluru, Karnataka, 562164, bearing sanction 57/14/12/2019-BRNS with MSS, BRNS.

On the recommendations of the Board of Research in Nuclear Sciences (BRNS), I am pleased to convey the administrative approval and sanction of the President of India for the captioned project for 2 years beginning from financial year 2019-2020 with a total grant of Rs. 21,51,600/- (Rupees twenty one lakh fifty one thousand six hundred only) for the project as under.

Items of expenditure	Year 1 (2019-2020)	Year 2 (2020-2021)
Equipments	400000	0
Staff Salary - JRF (1)	372000	372000
Consumables	300000	200000
Travel - PI	40000	40000
Travel - PC/DC	30000	30000
Contingencies	50000	50000
Overheads	85650	48150
Total(INR)	1277650	740150

Note: * Calibrated Superconducting LHe level Sensor, Source Measure Unit

JRF @ 31,000/- vide DAE OM no. 10/1(21)/2014/Fellowship/R&D-III/5739 dated 03/05/2019.

Please note that as per the government orders under Direct Benefit Transfer (DBT) scheme, the staff salary has to be transferred to his/her bank account. Accordingly, Aadhar Number(UID) of the appointed staff, Bank Account details and the Mobile number linked to the bank account should be obtained and it should be intimated to this office.

Overheads calculated @ 7.5% of the other heads except contingency. The remaining 7.5% towards overheads (Rs. 1,33,800/-) shall be released only on meeting the requirements specified (See Annex-B).

- I am also pleased to convey the sanction of the President of India to incur an expenditure of Rs. 12,77,650/- (Rupees twelve lakh seventy seven thousand six hundred fifty only) towards grant for the year 2019-2020
- The expenditure involved is debitible to: 04 3401 00 004 27 0231.
- This is issued with the concurrence of the competent authority in the Department.

18/12/19
Mr. Mandar Joshi

Pay & Accounts Officer, DAE, Mumbai - 400 001

Copy forwarded to:

1. Director of Audit, Scientific Department, AEAP, OYC, CSM Marg, Mumbai-400 001.
2. Joint Secretary (R&D), DAE, Anushakti Bhavan, CSM Marg, Mumbai-400 001.
3. Principal, Nagarjuna College of Engineering and Technology, Bengaluru, Karnataka, 562164..
4. Principal Investigator(PI): Dr. Kapilan N, Professor and Head Department of Mechanical Engineering , Nagarjuna College of Engineering and Technology, Bengaluru, Karnataka, 562164..

A. First year grant is being released in full along with this Sanction Letter through Pay & Accounts Officer, Department of Atomic Energy, Anushakti Bhavan, CSM Marg, Mumbai-400 001 directly. You may await a Money transfer (MT) through ECS and The amount would be credited electronically to A/C No: 138001010007377, A/C Name: Principal, Nagarjuna College of Engineering and Technology, IFSC: VIJB0001380, Vijaya Bank, Yelahanka New Town Bengaluru 560064.

i) Acceptance of this sanction and the MT for the amount sanctioned for the first financial year may please be acknowledged (Form-I).

ii) A sticker of the BRNS LOGO should be pasted on all the items procured under the project.

iii) THIS SANCTION IS FURTHER SUBJECT TO THE CONDITIONS STIPULATED IN ANNEX, WHICH MAY BE GONE THROUGH CAREFULLY.

B. Second year Sanction Letter will be issued automatically in the month of April/May of the 2nd financial year, however, the grant will be released (unspent balance of previous year and interest earned will be adjusted) after the PI submits the following documents to the Programme Officer MSS:

a) Claim in Form-II quoting the reference of the sanction issued for the first year.

b) Utilisation Certificate (UC) as on 31st March of the preceding financial year in Form-III duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant.

c) Statement of Accounts (SA) as on 31st March of the preceding financial year should be updated on the website. Interest earned in previous year should be reflected in the Statement of Accounts. A printout of the same should be sent to BRNS after it is duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant.

d) Copy of appointment order and joining report of the staff appointed for the project along with minutes of the Selection Committee, alongwith HRA CLAIM (if applicable), should be uploaded in a single pdf file under the file head "Staff Appointment Details". In addition, the details of the appointed staff should also be updated in the available menu.

e) The inventory of equipment also should be updated in the menu, besides uploading the purchase order of the items costing more than 1 Lakh.

f) A One Page report on the progress of work during first year.

C. Third and subsequent years (if any) the Sanction Letter and the grant will be released on fulfilment of the following requirements:

i) Renewal/ Extension Application: Principal Investigator (PI) is required to upload by January 15 a pdf copy of duly signed renewal/ extension application in the prescribed form-(PRA) after logging into his/her account at <https://bms.res.in>. All applications received shall be examined by experts from the field and PIs will be invited to a Technical Programme Discussion Meeting (TPDM). Renewal of the project will be based on the recommendations of the TPDM, Advisory Committee and the Board.

ii) Sanction Letter: If the progress is found to be satisfactory the renewal sanction for the year will be issued in the beginning of that financial year in April/May.

iii) Claim: On receipt of the renewal sanction, the PI shall claim the funds sanctioned by submitting the following documents to Programme Officer MSS, 316-C, Common Facility Building, BARC, Trombay, Mumbai-400085:

a) Claim in Form-II quoting reference of the renewal sanction.

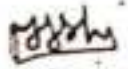
b) Utilisation Certificate (UC) as on 31st March of the preceding financial year in Form-III duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant, should be reflected in the Statement of Accounts.

c) Statement of Accounts (SA) as on 31st March of the preceding financial year including the amount of interest earned in previous year and duly audited by the Internal Auditor of the University/ Institution or a

Chartered Accountant


- d) Copy of appointment order and joining report of the staff appointed for the project along with minutes of the Selection Committee
 - e) An inventory of equipment and the copy of Purchase order of equipments costing more than 1 Lakh.
- D. At the end of Terminal Year the Settlement Grant and the Balance 7.5% Overheads will be released on fulfillment of the following requirements
- a) Claim Form-II if any
 - b) The final Consolidated Statement of Accounts (SA) and Consolidated Utilization Certificate duly audited by an external Chartered Accountant or the Statutory (Govt.) Auditor. It is mandatory to include the amount of bank interest earned on the grant released into the SA.
 - c) Final Consolidated Progress Report and a brief report as per format given in Form-VII.
5. AAO (Cheque), DAE, Anushakti Bhavan, CSM Marg, Mumbai - 400 001 - With a request that the amount granted for the first year of the project may be released
 6. Member Secretary (MS), Dr. P. C. Rout, pcrout@bata.gov.in, Ph:+91-1234
 7. Co-Investigator (CI) Srinivasan Kasturirangan, Professor Centre for Cryogenic Technology, IISc Bangalore, India Email: fantasini@gmail.com Dr. Holger Thum, Project Collaborator (PC) Dr.Holger.Thum@ipr.res.in Engineer -SG Head of Division, Large Cryogenic Plant and Cryosystem Division, Institute for Plasma Research, Bhat, Gandhinagar, Gujarat-382428, Email: aksahu@ipr.res.in, Email: dave@ipr.res.in.


You or your nominee may please be the DAE representative for selection of Research Fellow/ Research Associate for the project


18/12/19
Mr. Mandar Joshi

Note:

1. Please quote the Sanction Number 57/14/12/2019-BRNS in all your correspondence with BRNS

c/e
16/12/19



19 DEC 2019

क्रमांक ११/२०१९

३४००४

११/११

29/11/2019

Countersigned for Rs. 12776500. Twelve lakh seventy seven thousand six hundred-fifty Rupees Only

अनुमोदित
Approved



प्रोग्राम ऑफिसर

Programme Officer MSS

परमाणु ऊर्जा विभाग

DEPARTMENT OF ATOMIC ENERGY

एन.टी.ए. विभाग, अणुसंशोधन मंत्रालय

BOARD OF RESEARCH IN NUCLEAR SCIENCES

Application Number 5113

कृपया निम्नलिखित को धुंधिल करते हुए
राशि का भुगतान करने के लिए।

Please pay the amount to

A/C No: 138001010007377, JC Name: Principal, Nagarjuna College of
Engineering and Technology, IIT SC VJ00001380, Vjaya Bank, Yalahanka
New Town Bengaluru 560064

Under intimation to

Dr. Kapilan N, Professor and Head Department of Mechanical
Engineering

Mobile Number 9845418874

प्रो. एन.के.ए. विभाग, ए.टी.ए.

Pay & Accounts Officer, DAE

NAME AND ADDRESS OF DEPOSITOR
 NAME
 CANARA BANK
 Chinnayakanahalli Road
 No. 157/1A/1
 BANGALORE
 PIN 560014
 IFSC Code: CNAR0000042 MICR Code: 560015477
 Tel No: 080 29437943 No. 1
 Email: 0214042730, camrabank.com

Account details - (Banking Correspondent)
 For Banking Correspondent
 CNAR000 000000
 Corporation Road
 Bangalore
 Bangalore - 560001
 Tel No: 080 20000000
 Fax No: 01 Email: Hdbanking@camrabank.com

ACCOUNT DETAILS
 NAME:

Account No: 6427101019021
 DATE OF DEPOSIT

1.60,000

Occupation
 Address:

NAGARJUNA COLLEGE OF DENT AND TECHNIQUE
 BANGALORE RURAL 56764 KARNATAKA
 PIN 56764

Customer ID: 123720949
 e-mail address:

DATE
 24-04-2020

Mobile No: 9847932215
 PAN No:
 Signature: [Blank]
 Address: [Blank]

FD Form Date: 29-04-2020
 Email: PRINCIPAL@NCTMAR.COM
 KYC Category:
 FPO No:
 Signature: [Blank]

79 8771 805
CANARA BANK
 For Canara Bank
 (Signature)
 Branch Manager



MODROH - Sanction Letter

F.No.9-279/RIT/MOD/Policy-1/2018-19

Date: 04.12.2019

To,
 The Drawing and Disbursing Officer,
 All India Council for Technical Education,
 Nelson Mandela Marg, Vasant Kunj,
 New Delhi-110070.

Sub: Release of a sum of Rs.900000/- (Rupees Nine Lakh Sixty Thousand Only) being the Grant-in-Aid under the scheme Modernization and Removal of Obsolescence (MODROH) for the year 2018-19 payable during the current financial year 2019-20- reg.

Sir,
 With reference to the proposal submitted by the institute, this is to convey that the sanction of the Council for payment of Rs.1200000/- (Rupees Twelve Lakh Only) as Grant-in-Aid under the Modernization and Removal of Obsolescence (MODROH) scheme, as per details given below:

1.	Name and address of the Beneficiary Institution:	Director/Principal/Registrar, NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY, MUDIGURKIVENKATAGIRI KOTTE DEYANAHALLI Karnataka-562110		
2.	Title of Project:	Modernization and Removal of Obsolescence in Energy Conversion Laboratory		
3.	Name of Coordinator:	Dr. KAPILAN NAIKAR		
4.	Duration of the project:	2 Years		
4.	Total Grant-in-aid Sanctioned	Total: Rs.1200000/-	Non-Recurring (85%): Rs.1020000/-	Recurring (15%): Rs.180000/-
5.	Amount to be released during the year 2019-20	1st Installment Rs.900000/-	Non-Recurring (85%): Rs.810000/-	Recurring (15%): Rs.144000/-
6.	Sanctioned grant-in-aid is debitable to:	Major Head 001.18(a) Gen. (Plan Head)		

- The amount of the Grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the Grant-in-Aid bill and shall be disbursed to and credited to the account of Director/Principal/Registrar of the Institute through RTGS/NEFT.
- This Grant-in-Aid is being released in conformity with the terms & conditions of the scheme as already communicated, and also being communicated in this letter.

THE INSTRUCTIONS/GUIDELINES TO BE FOLLOWED BY UNIVERSITY INSTITUTION

- Release of funds:**
 - The Principal/ Director of the institute and the Coordinator of the project are hereby requested to verify the correctness of the under mentioned bank account/ RTGS details submitted by them along with the Proposal, in which the grant is being released.

Institute PAN No.	Bank Name	Bank Branch Name	Branch Address	Account Holder Name	Account Type	Account Number	IFSC
AAAAN001254	VIJAYA BANK	Vijaya Bank Town	98/10001 100, 10001 100, 10001 100, 10001	Director, Nagarjuna College of Engineering & Technology	Saving Account	10001210001 11	VJBY000 1102

In case of any omission the same should be reported to AICTE immediately.

Handwritten:
 AOD (AICTE)
 04.12.2019

Date: 29.11.2019

F.No.9-279/RIFD/MOD/Policy-1/2018-19

- b. The sanction is issued in exercise of the powers delegated to the council and other terms & conditions laid down in the guidelines of the scheme.
- c. 100% grant of the sanctioned amount is being released to Government/Govt. Aided institutions. Utilization Certificate (UC) and other requisite documents are to be submitted within one month of the completion of the project.
- d. To self-financed/Pvt. Institutions 80% of the sanctioned amount is being released as first installment followed by 20% as reimbursement after receipt of UC and other requisite documents as specified in terms & Conditions of MODROB Scheme.

II. Maintenance of accounts:

- a) The Institute shall strictly follow the provisions laid down in the scheme document and sanction order No. F.No.9-279/RIFD/MOD/Policy-1/2018-19 Dated 15.11.2019 issued by this office. All correspondences related to the project must contain this number along with year of sanction of the project; failing which correspondence will not be entertained
- b) Funds covered by this grant shall be kept separately and would not be mixed up with other funds, so as to know the amount of interest accrued on the grant AICTE.
- c) The University/College/Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure (list enclosed).
- d) The Council or its nominee shall have the right to check/verify the account to satisfy that the fund has been utilized for the purpose for it was sanctioned.
- e) The date of release of the grant by AICTE shall be taken as the date of commencement of the project. The Principal / Director / Registrar shall intimate about the receipt of the grant to AICTE. Any expenditure incurred prior to the issuance of the approval letter will not be allowed to be adjusted in the grant and if the Institution / University do not take the project work within one month of the receipt of the grant, the approval shall ipso facto lapse.
- f) After receipt of the grant from AICTE, the Institute shall send a confirmation to AICTE within 2 months of receipt of grant that the sanctioned project has been started/is in progress.

III. Refund of grant by way of a demand draft in favour of Member Secretary, AICTE, New Delhi:

- a) If the college/institute does not have the Letter of Approval (LOA) or Extension of Approval issued by AICTE for the academic year 2019-20, the fund released should be immediately refunded to AICTE with interest accrued thereon.
- b) If project is not started within six months of the issuance of this Offer Letter, the released amount, along with interest accrued thereon, has to be necessarily returned to AICTE.
- c) In any case, if the institute is required to refund the grant or interest accrued thereon or balance amount, the amount will be refunded to AICTE.
- d) It may be ensured that the project is completed within the stipulated time. If the project is not completed in time, no further extension will be granted in any case and institute has to refund the entire amount to AICTE.
- e) As AICTE needs adequate time for depositing the Demand Draft in the bank, the same be immediately dispatched to avoid any lapse of the validity period.

IV. Submission of documents by college/institution after completion of Project/Subsequent years:

The following mandatory relevant documents are required to be submitted by the college/institution within one month of the completion of the project: -

- a) Feedback form in the prescribed proforma.
- b) The Annual Progress Report (APR) in the prescribed format along with the original Statement of actual Expenditure in the prescribed proforma duly signed by the Head of the institution and shall be submitted to AICTE not later than one month after completion.
- c) The Utilization Certificate (UC) supported by Audited Statement of Expenditure to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the AICTE immediately after completion of the project. It should contain the head-wise break up of expenditure made from the grant-in-aid provided by the Council. Audited Statement of

- Expenditure indicating expenditure incurred in the total duration of the project in the prescribed format and GFR-19 shall be submitted to the Council.
- d) In case of self-financing/private institutions, Statement of actual Expenditure & Utilization Certificate are required to be audited & signed by a Chartered Accountant (with membership no., full address & stamp). Photocopies of formats are enclosed.
- e) Program Evaluation Committee (PEC) is required to be constituted at Institutional level. The constitution of the PEC shall be as under:

- i. Principal/Director/Registrar of the Institution (Chairperson)
- ii. Coordinator of the project (Member Secretary)
- iii. Two HODs and one subject expert (Members)
- iv. The members of the said PEC shall not be below the rank of Associate Professor.

The minutes of the meetings are to be submitted to the Council at end of the project along with other mandatory documents.

- i) Project completion report indicating the activities undertaken, number of students benefited, laboratory works photographs of students, together with their views is to be submitted.
- ii) Attested photocopies of supporting vouchers/bills of expenditure incurred for the completion of Project.
- iii) Photographs of equipment's purchased.
- iv) The balance amount of the grant will be reimbursed to the university/institution only on submission of the above documents. On receipt of these documents, the total amount of balance of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid shall be released, as second installment, in favour of the beneficiary institution.

V. General instructions

- a) The amount of interest accrued on the grant should be treated as part of the grant to be utilized for that particular project. However, the interest amount accrued along with grant disbursed should not exceed the total grant sanctioned for the project. The Institute receiving the grant should reflect the same in the audited statement of accounts/ utilization certificate and may either refund the interest amount to AICTE or AICTE shall adjust the same in the next installment of grant before its release.
- b) Any unavoidable circumstantial change in the project with respect to name of Project Coordinator for the MODROB project would mandatorily require prior approval of the Council. All such requests should be addressed to AICTE, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council. Kindly mention the File No. 2-279/RUP/MOD/Policy-L/2018-19 in your future correspondence.
- c) The grantee shall maintain an audited record of assets acquired wholly or substantially out of the Grant-in-Aid and a register of assets shall be maintained by the Institute in the prescribed form i.e. GFR-19.
- d) The College/ Institute receiving grant under MODROB is expected to put up a plaque at the main entrance of the Lab/Department, which has been modernized using the grant. All the equipment procured through the project should be super scribed with AICTE project file number.
- e) The assets acquired wholly or substantially out of grant shall not be disposed or encumbered or utilized for the purpose other than those for which the Grant was given without proper sanction of the AICTE and should at any time the institution cease to function, such assets shall revert to the AICTE.
- f) The grantee Institution shall observe all financial norms and guidelines as prescribed by the AICTE/ Government of India from time to time. GOI GFR rules (<https://doe.gov.in/order-circular/general-financial-rules2017-0>) should be followed during utilization of grant.

Date: 29.11.2019

F.No. 273/RIED/MOD/Policy-I/2018-19

List of Equipment's approved:

Name of Equipment
Computerized CRDI VCR Engine Test Setup 1 HPF with combustion analyser
1 Gas Analyser
Smokemeter
INCA 5TR Setup

Your sincerely,



Prof. Dilip N. Mahalingam
Advisor-I (RIED)

16 OCT 2019

Copies forwarded for information and necessary action to:

1. Name and Address of the Coordinator,
Dr. KATILAN NADAR,
NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY,
MEEDEPALLE VEDRAT AURI KITE DEVANARALLI Rayachoti -521101
2. The Registrar / Director / Principal,
NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY,
MEEDEPALLE VEDRAT AURI KITE DEVANARALLI Rayachoti -521101
3. Guard File

Prof. Dilip N. Mahalingam
Advisor-I (RIED)