



## Council of Science & Technology, U.P.

9, Nabiullah Road, Suraj Kund Park,

Lucknow-226 018

Webportal: [www.cst.up.gov.in](http://www.cst.up.gov.in)

Date: 22 /08/2025

No: CST/E&T/D-1129

To,

**Dr. JAYA GOPAL YADAV, (Principal Investigator)**  
ASSOCIATE PROFESSOR,  
Department of Electrical and Electronics Engineering,  
AJAY KUMAR GARG ENGINEERING COLLEGE,  
Adhyatmik Nagar, Ghaziabad- 201009

**Sub:** Sanction letter for the research project entitled " AI-based Design and Development of Power Train for a Low-Cost Ecofriendly Electric vehicle driven by Switched Reluctance Motor " (PID-5052)

Dear Sir,

This is with reference to above mentioned research project submitted to the Council of Science & Technology U.P. (CSTUP) for financial assistance. This is to inform you that CSTUP has sanctioned the above project with financial support of Rs. **17.58 lakh** under the following heads for the period of **03 years**: -

	1st Year (in lacs)	2nd year (in lacs)	3rd Year (in lacs)	Total (in lacs)
JRA/SRA (Rs. 28000/- per month) for three years. (B.E/B.Tech / M.Tech)	3.36	3.36	3.36	10.08
Prototype Development	1.00	1.00	1.00	3.00
Contingencies including Consumable and travel	1.50	1.50	1.50	4.50
<b>Total</b>	<b>5.86</b>	<b>5.86</b>	<b>5.86</b>	<b>17.58</b>

In continuation to the above, necessary action may be taken for the appointment of research staff sanctioned in the above project as per institution/university norms. However, educational qualification, age and residential eligibility of the selected research staff must be as per R&D guidelines given in the booklet, "General Information and Guidelines for Award of Research Assistantship & Grant-in-aid Regulations 1988", a copy of which is available on CSTUP's webportal. The details of the selected research staff and commencement of the project (Annexure-1) are required to be furnished to the CSTUP within 03 months from the date of this letter. The approval for the appointment of research staff shall be given by the competent authority of the institution/university for which the project is sanctioned. The duration of the project shall be counted from the date of joining of the research staff in the project. The Principal Investigator must ensure the followings:

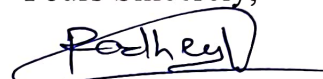
1. Institutional Ethical Clearance & Bio-safety Committee's Certificate or the waiver (as applicable) shall be submitted to the CSTUP before the start of the project.
2. Work carried out under the project is original & not duplication. If so found, CSTUP reserves the right to abandon the project immediately and in that case institution/university shall return any grant released in the project by CSTUP.
3. The institution/university shall be responsible to complete the project within the sanctioned grant; no additional grant shall be given by CSTUP. If due to any reason, there is an increase in the amount for completion of the proposed research work, such additional amount shall be borne by the institution/university.
4. No overhead charges shall be deducted from the grant by the institution/university.
5. Equipments purchased in the research projects shall be maintained & used by the institution/university for the R&D purpose only during and after of the project period and proper record of the same shall be maintained by the institution/university as per their store purchase rules. However, CSTUP has sole right to get back or transfer the equipments to other institution/university for research purpose after the completion of the project period.
6. Publications of the research results are to be made after exploring the possibility of IPR/Patent protection.
7. Patent or any other IPR, if any, shall be in the joint names of CSTUP & institution/university
8. Results of the research work must be published in peer reviewed/quality journals with due acknowledgment to CSTUP & a copy of each publication shall be submitted to CSTUP for record.
9. The prototype development under CSTUP funded research projects shall be the joint property of CSTUP & institution/university and the same shall be kept in the premises of the institution/university. Proper acknowledgement to CSTUP should be given during use or further development of the prototype. Principal Investigator shall provide the write-up/know how of the prototype developed to CSTUP.
10. In view of extending societal benefit of the scientific/ R&D work, the P.I. should plan field visits of research staff associated with the project to nearby villages/locality or schools/colleges, if required.
11. Progress report in accordance with the objectives of the project may kindly be sent to CSTUP in prescribed format within stipulated time for speedy action.
12. Project shall be completed within the stipulated time period and final report including one page of summary of outcomes/deliverables in Hindi & English shall be submitted to CSTUP alongwith other documents mentioned in the R&D guidelines.
13. The points not mentioned in this sanction letter shall be followed as given in "General Information and Guidelines for Award of Research Assistantship & Grant-in-aid Regulations 1988" (R&D Guidelines).
14. The bank account details/account mandate form of the institution/university duly signed by the authority shall be sent to CSTUP.



A copy of this sanction letter signed by Principal Investigator, Co-investigators & Head of the institution/university (VC/Director/Principal/Registrar) shall be sent to CSTUP as an acknowledgement and acceptance of the terms & conditions at the earliest.

Encl: As above.

Yours Sincerely,



(Radhey Lal)

Joint Director

Copy forwarded for information and necessary action to:

1. **Director**, AJAY KUMAR GARG ENGINEERING COLLEGE, Lal Kuan GHAZIABAD- 201009
2. **Finance Officer**, AJAY KUMAR GARG ENGINEERING COLLEGE, Lal Kuan GHAZIABAD- 201009
3. **Dr. Lokesh Varshney, HOD**, Department of Electrical and Electronics Engineering, AJAY KUMAR GARG ENGINEERING COLLEGE, Lal Kuan GHAZIABAD- 201009
4. **Dr. Sandeep Gupta**, ASSOCIATE PROFESSOR, (Co-PI), Graphic Era (Deemed to be University), Dehradun (Uttarakhand)-248002
5. **Dr. Vani Bhargava**, Assistant Professor, (Co-PI) AJAY KUMAR GARG ENGINEERING COLLEGE, Lal Kuan GHAZIABAD- 201009
6. **Dr. Navneet Kumar**, Assistant Professor, (Co-PI), Rajkiya Engineering College Bijnor-246725



(Radhey Lal)

Joint Director

Details of the selected research staff & commencement of the research project funded by  
Council of Science & Technology U.P.

1. CSTUP Sanction Letter No. & Date:
2. Project Id:
3. Details of J.R.A./S.R.A./R.A.

Name :

Father's Name :

Permanent Address :

Mobile No. & Email Id:

Date of Joining of J.R.A./S.R.A./R.A.:

4. Educational Qualification of J.R.A./S.R.A./R.A.: -

S. No.	Exam/Degree	Subjects	Passing Year	Percentage/CGPA with division
1.	X/ High School			
2.	XII/ Intermediate			
3.	Graduation			
4.	Post-Graduation			
5.	Other			
6.	Experience (if any)			

5. Whether selected J.R.A./S.R.A./R.A. is resident of Uttar Pradesh? Yes or No
6. Date of commencement of the project:
7. Institutional Ethical Clearance & Bio-Safety Committee's Certificate Required: Yes or No

Note: -

- i. Commencement of the project shall be the same as joining date of J.R.A./S.R.A./R.A.
- ii. If no J.R.A./S.R.A./R.A. sanctioned in the project, then P.I. shall mention N.A. at S. No. 1-5 and shall mention the date of commencement at S. No. 6.
- iii. Selection of J.R.A./S.R.A./R.A. shall be done as per institution/ university norms however educational qualification, age and residential eligibility shall be in accordance with the CSTUP's R&D guidelines.
- iv. If Ethical Clearance & Bio-Safety Committee's Certificate is required for the execution of proposed research work, then certificate for the same must be attached.

Name & Sign of  
Principal Investigator  
with seal

Name & Sign of Co-  
investigator with seal

Name & Sign of Co-  
investigator with seal

Name & Sign of Co-  
investigator with seal

Sign of the Head of Institution/University  
with seal

### Eligibility criteria for selection of J.R.A./S.R.A./R.A.

1. Only Indian citizens who are resident of Uttar Pradesh are eligible for Research Asstt ships/ Associateships in the research projects funded by CST UP.

#### JUNIOR RESEARCH ASSISTANT

- i. Junior Research Asstt. ship (JRF) may be awarded to holders of M. SC. (Ag.). M. Sc., M Pharm., M.V.Sc., Bachelor of Engg./Technology (B.E./B. Tech.) or equivalent degree.
- ii. High academic attainment with 1st class in graduate and post graduate examination.
- iii. The upper age limit for a Junior Research Asstt. shall be 28 years as on 1st of April of the year in which the application is made.

#### SENIOR RESEARCH ASSISTANT

- i. Senior Research Asstt. ship (SRA) may be awarded to holders of M. Sc., M. Sc. (Ag.), M. Pharm., M.V.Sc. or equivalent degree with high academic attainment and at least two years research experience after M. Sc. etc., as evident from the published papers in reputed Journals, or 1st class M.E./M. Tech. or equivalent degree or 1st class M. B. B. S. (with completed internship in medicine.)
- ii. The upper age limit for Senior Research Asstt. shall be 32 years as on 1st April of year in which the application is made.





#### RESEARCH ASSOCIATE

- i. Persons possessing minimum Ph.D. or equivalent degree or M. Tech., M. E., M. D. with three years' research, design and development experience will be eligible for consideration for appointment as Research Associate.
- ii. The upper age limit for the appointment of Research Associate is normally 35 years.

Note:-

- i. Qualifications and age of Research Asst./Associates appointed in the scheme should normally conform the criteria specified by the CSTUP. However, the Selection Committee may marginally relax these criteria in most deserving cases where the applicants otherwise found suitable for specific research programme for special qualifications research experience.
- ii. For appointing Research Asst./Associates for short duration not exceeding 6 months the usual procedure of selection as mentioned above, may be waived off and the fellows be appointed by the Investigator Incharge of the scheme in consultation with the head of the department under intimation to CSTUP.

iii. Research guidelines can be access as below: - [www.cst.up.gov.in](http://www.cst.up.gov.in)

Path - [www.cst.up.gov.in](http://www.cst.up.gov.in)  Scientific Programme  Research & Development  How to apply  R&D Projects Guideline.