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**DATA PROCESSING AGREEMENT (hereinafter referred to as "AGREEMENT")**

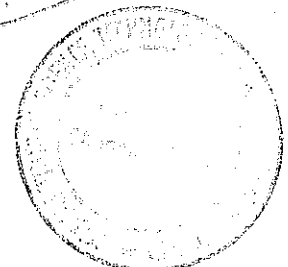
**Concluded on this date 29-08-2019 by and between:**

|                                                                                                                                                                   |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <b><u>PARTIES:</u></b>                                                                                                                                            |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |
| <b>Entity entrusting data processing (Controller):</b>                                                                                                            |                          | <b>Processor:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                          |
| Faurecia INTERIEUR INDUSTRIE with its registered office at 23-27 Avenue des Champs Pierreux 92000 Nanterre (France), hereinafter referred to as the "Controller". |                          | Vels Institute of Science Technology and Advanced Studies, a University having its registered office at PV Vaithiyalingam Rd, Velan Nagar, Krishnapuram, Pallavaram, Chennai, Tamil Nadu 600117, India hereinafter referred to as the "Processor".                                                                                                                                                                                                                                                  |                          |
| <b><u>FIXED TERMS AND CONDITIONS:</u></b>                                                                                                                         |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |
| <b>Contact persons on behalf of the Controller:</b>                                                                                                               |                          | <b>Contact persons on behalf of the Processor:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |
| <b>Jerome AVOT<br/>Data Protection<br/>Officer</b>                                                                                                                | Jerome.avot@faurecia.com | <b>Dr. A. R. Veeramani,<br/>Registrar, VISTAS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                   | registrar@velsuniv.ac.in |
| <b>Processing basis:</b>                                                                                                                                          |                          | <input type="checkbox"/> To perform the service agreement effective as of August 29 <sup>th</sup> 2019, regarding the provision by Processor of certain data collection and processing services.<br>The purpose of the experiment is to collect data from different sensors in the car and on the driver, to create Artificial Intelligence models predict different features (Drowsiness, Distraction, Stress, Mood, Size, Weight).<br><br>hereinafter referred to as: " <b>Master Agreement</b> " |                          |
| <b>Duration of Processing:</b>                                                                                                                                    |                          | <input type="checkbox"/> Fixed term, corresponding to the term of Master Agreement                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |
| <b>The purpose of entrusting data processing:</b>                                                                                                                 |                          | <input type="checkbox"/> The performance of the service agreement by Processor.                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |
| <b>Method of data processing:</b>                                                                                                                                 |                          | <input type="checkbox"/> Collecting<br><input type="checkbox"/> Recording<br><input type="checkbox"/> Organisation<br><input type="checkbox"/> Structuring<br><input type="checkbox"/> Storage<br><input type="checkbox"/> Adaptation                                                                                                                                                                                                                                                               |                          |

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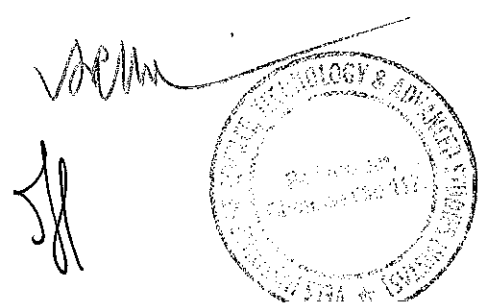
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|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                       | <ul style="list-style-type: none"> <li><input type="checkbox"/> Retrieval</li> <li><input type="checkbox"/> Viewing</li> <li><input type="checkbox"/> Use</li> <li><input type="checkbox"/> Alignment or Combination</li> <li><input type="checkbox"/> In an Electronic Form</li> <li><input type="checkbox"/> With the use of the IT Systems of the controller</li> <li><input type="checkbox"/> With the use of dedicated applications</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <p><b>Types of Personal Data:</b></p> | <ul style="list-style-type: none"> <li><input type="checkbox"/> First name and surname</li> <li><input type="checkbox"/> Eye/mouth opening, facial landmarks, head/eyes direction, body measurements, image blob, activity level,</li> <li><input type="checkbox"/> Age, size, mood and stress levels</li> <br/> <li><input type="checkbox"/> Sensitive data: breath rate, HR values, HRV, ECG, raw EEG signals</li> <br/> <li>Medical history data:             <ul style="list-style-type: none"> <li>• Cardiovascular Diseases (Heart Failure, Angina, Infraction, Surgery, etc).</li> <li>• Diseases of Senses (Deafness, Vertigo, Visual Deficiencies, etc).</li> <li>• Respiratory Diseases (Asthma, Chronic Bronchitis, Emphysema, etc).</li> <li>• Diseases of Musculo-Skeletal System (Fractures or Amputation, Arthritis, etc).</li> <li>• Metabolic Diseases (Diabetes (+)(-), Hypoglycemia, Thyroid, etc)</li> <li>• Psychiatric Disorders (Psychoneurosis, Psychosis, etc).</li> <li>• Other Diseases (Blackouts, Fainting Spells, Anemia, Cancer, Blood Dyscrasia, etc).</li> <li>• Neurological Diseases (Seizures, Cerebrovascular Diseases, Dementia, Head Injury, Mental Retardation, etc).</li> <li>• Anxiety, depression, nervousness, other mental health problems.</li> <li>• Sleep disorders, pauses in breathing while asleep, daytime sleepiness, loud snoring.</li> <li>• EYES (must specify if glasses are needed).</li> </ul> </li> </ul> |



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## GENERAL TERMS AND CONDITIONS

### §1 SUBJECT MATTER

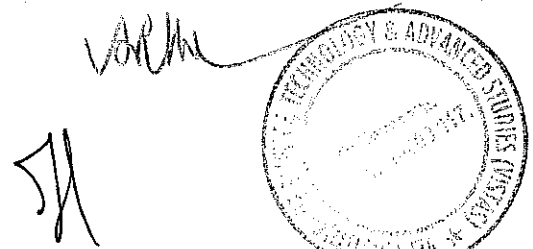
1. In connection with the performance of the Master Agreement executed by the Parties, as specified in the Specific Terms and Conditions, the Controller entrusts the Processor with the processing, on its behalf, of only the Personal Data regarding the Data Subjects specified in the Specific Terms and Conditions, for the purposes and term and with the methods as specified in the Specific Terms and Conditions.
2. The Controller, as the controller of Personal Data, maintains full control over such data, i.e., it alone determines the purposes and means of Personal Data processing.
3. Entrusting of Personal Data under the Agreement is necessary for performance of the Master Agreement.
4. The Processor guarantees the implementation of adequate technical and organisational measures – especially in terms of its expert knowledge, reliability and resources – so that the processing of Personal Data entrusted to it conforms with applicable regulation on the protection of personal data.
5. The existing terms of entrusting the Processor with the processing of Personal Data controlled by the Controller, in performance of the Master Agreement, as specified therein and, additionally, in separate agreements or contracts made by the Parties cease to be valid as of the execution date hereof.

### §2 DEFINITIONS

1. The terms used herein shall be construed in accordance with their meaning: (i) as defined in the relevant provisions of the European Union "GDPR" (Global Data Protection Regulation); and (ii) as defined herein:
  - 1) **Authorised Processing Subcontractor** – means the Processing Subcontractor of the Processor which: (i) guarantees conformance with the terms of commissioned processing as defined in

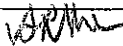
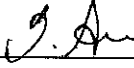
the Agreement; and (ii) was approved by the Controller at the execution hereof and is listed in Appendix 3 to the Agreement;

- 2) **Personal Data** – means information or identifiers specified in the Specific Terms and Conditions in the column entitled "Types of Personal Data", relating to an identified or identifiable natural person (hereinafter referred to as "**Data Subject**"), being the subject hereof;
- 3) **Business Day** – means any day from Monday through Friday, except for any public holidays and statutory days off work in the country of Data Controller's registered office;
- 4) **Personal Data Breach** – means any breach of security leading to the accidental and/or unlawful destruction, loss, alteration, unauthorised disclosure of, and/or access to, Personal Data transmitted, stored and/or otherwise processed;
- 5) **Supervisory Authority** – means an independent public authority appointed to protect the fundamental rights and freedoms of natural persons in relation to data processing;
- 6) **Intentionally deleted**;
- 7) **Processor** – means the entity being a party hereof, as specified in the preamble, entrusted by the Controller with the processing of Personal Data on the basis and upon the terms as specified in the Agreement;
- 8) **Processing Subcontractor** – means the processing subcontractor entrusted by the Processor with further processing of Personal Data, in compliance with the terms and conditions as specified in § 3 clause 15 and clause 17 hereof;
- 9) **Specific Terms and Conditions** – individual provisions of the Agreement relating to the scope and terms of entrusting data processing as agreed between the Controller and the Processor and specifying the types of Personal Data, the categories of Data Subjects, the purpose of entrusting data processing as well as

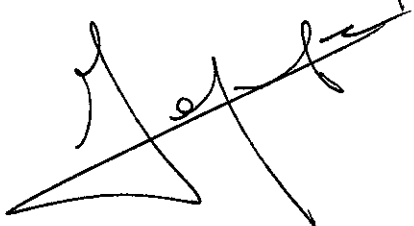


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|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                             |                                                                                                                                                                                                                                                                                                    |
| <b>Data Subject Categories</b>              | Experimentation participants                                                                                                                                                                                                                                                                       |
| <b>Authorised Processing Subcontractors</b> | <input type="checkbox"/> None                                                                                                                                                                                                                                                                      |
| SIGNATURES                                  |                                                                                                                                                                                                                                                                                                    |
| <b>Controller:</b>                          | <b>Processor:</b>                                                                                                                                                                                                                                                                                  |
| Name: _____<br>Position: _____              | <br><u>DR. A.R. VEERAMANI</u><br>Name: _____<br>Position: Registrar<br>Dr.A.R. Veeramani<br>Registrar<br>Vels Institute of Science, Technology<br>& Advanced Studies (VISTAS)<br>29 Palayam, Chennai - 600 117. |
| Name: _____<br>Position: _____              | <br>Name: DR. S. ARUN<br>Position: DIRECTOR IQAC<br>PRINCIPAL INVESTIGATOR                                                                                                                                       |

David Dequye





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If the Processor is not able to provide the Controller with all the information referred to in the items above within the time period set in the first sentence of clause 7 above, the Processor should provide the missing information, after first consulting with the Controller in Working Mode, within additional time as set by the Controller.

8. The Processor warrants that it shall actively cooperate with the Controller so that it is able to properly fulfil its obligation to notify the Personal Data Breach to the Supervisory Authority.
9. The Processor represents that it shall bear the full costs of any remedial action taken in response to the Personal Data Breach if it results from any action and/or omission on the part of the Processor, its employees, associates and/or other persons and Processing Subcontractors.
10. The Processor shall be required to document any and all circumstances of a Personal Data Breach, its effects and preventive measures taken. The Processor shall be required to provide access, at each and every request of the Controller, to the documents referred to in the foregoing sentence.

## Data Subject's Rights

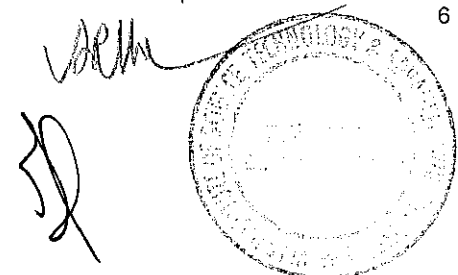
11. The Processor warrants that, where applicable, it shall:
  - 1) Each time, immediately notify the Controller in Working Mode, to the extent permitted pursuant to the provisions of law in effect, of any request received in relation to Personal Data or access to such data and consult with the Controller the contents of its response to such a request (if required), irrespective of the entity, organisation, association, authority, court or person placing the request, including Data Subjects, and, if need be, provide the Controller with necessary assistance to meet the legal requirements regarding the protection of Personal Data;
  - 2) Each time, immediately forward to the Controller, in Working Mode, the request of the Data Subjects related to the rectification or erasure of Personal Data or

restriction of processing, transfer, updating, modification or removal of Personal Data;

- 3) Each time, immediately forward to the Controller, in Working Mode, any objection of the Data Subject against his/her data being processed or any other objection so communicated;
- 4) Each time, immediately communicate to the Controller, in Working Mode, the withdrawal by Data Subject of any consent granted to the Controller for marketing communication;
- 5) At each and every request of the Controller, immediately take measures to observe the rights of the Data Subject as stipulated in as specified in Articles 12 through 23 of the GDPR with the use of adequate technical and organisational measures and taking into account the information it holds and the nature of Personal Data processing, and, in particular, the means and technologies used in such processing;
- 6) At each and every request of the Controller, immediately rectify, update, modify or remove Personal Data.

## Obligation to assist the Controller

12. If need be, at the request of the Controller, the Processor shall be required to assist the Controller in providing for the observance of the requirements set in Articles 32 through 36 of the GDPR (taking into account the nature of processing and the information available to the Processor due to the scope actions performed in Personal Data processing), relating to:
  - 1) The adequate technical and organisational measures taken;
  - 2) Personal Data Breach notification;
  - 3) Communication of a Personal Data Breach to data subjects;
  - 4) The assessment of any and all risks pertinent to Personal Data processing and possible safeguards and mechanisms to be implemented to: (i) eliminate or mitigate the aforementioned risks; (ii)



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If the Processor is not able to provide the Controller with all the information referred to in the items above within the time period set in the first sentence of clause 7 above, the Processor should provide the missing information, after first consulting with the Controller in Working Mode, within additional time as set by the Controller.

8. The Processor warrants that it shall actively cooperate with the Controller so that it is able to properly fulfil its obligation to notify the Personal Data Breach to the Supervisory Authority.
9. The Processor represents that it shall bear the full costs of any remedial action taken in response to the Personal Data Breach if it results from any action and/or omission on the part of the Processor, its employees, associates and/or other persons and Processing Subcontractors.
10. The Processor shall be required to document any and all circumstances of a Personal Data Breach, its effects and preventive measures taken. The Processor shall be required to provide access, at each and every request of the Controller, to the documents referred to in the foregoing sentence.

## Data Subject's Rights

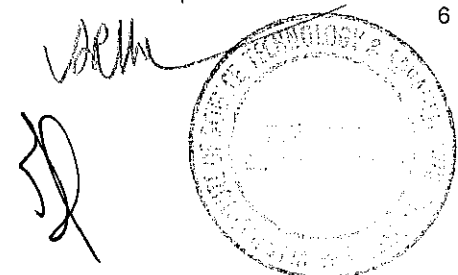
11. The Processor warrants that, where applicable, it shall:
  - 1) Each time, immediately notify the Controller in Working Mode, to the extent permitted pursuant to the provisions of law in effect, of any request received in relation to Personal Data or access to such data and consult with the Controller the contents of its response to such a request (if required), irrespective of the entity, organisation, association, authority, court or person placing the request, including Data Subjects, and, if need be, provide the Controller with necessary assistance to meet the legal requirements regarding the protection of Personal Data;
  - 2) Each time, immediately forward to the Controller, in Working Mode, the request of the Data Subjects related to the rectification or erasure of Personal Data or

restriction of processing, transfer, updating, modification or removal of Personal Data;

- 3) Each time, immediately forward to the Controller, in Working Mode, any objection of the Data Subject against his/her data being processed or any other objection so communicated;
- 4) Each time, immediately communicate to the Controller, in Working Mode, the withdrawal by Data Subject of any consent granted to the Controller for marketing communication;
- 5) At each and every request of the Controller, immediately take measures to observe the rights of the Data Subject as stipulated in as specified in Articles 12 through 23 of the GDPR with the use of adequate technical and organisational measures and taking into account the information it holds and the nature of Personal Data processing, and, in particular, the means and technologies used in such processing;
- 6) At each and every request of the Controller, immediately rectify, update, modify or remove Personal Data.

## Obligation to assist the Controller

12. If need be, at the request of the Controller, the Processor shall be required to assist the Controller in providing for the observance of the requirements set in Articles 32 through 36 of the GDPR (taking into account the nature of processing and the information available to the Processor due to the scope actions performed in Personal Data processing), relating to:
  - 1) The adequate technical and organisational measures taken;
  - 2) Personal Data Breach notification;
  - 3) Communication of a Personal Data Breach to data subjects;
  - 4) The assessment of any and all risks pertinent to Personal Data processing and possible safeguards and mechanisms to be implemented to: (i) eliminate or mitigate the aforementioned risks; (ii)



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warrant adequate level of Personal Data security; (iii) take into account the state of the art, the cost of implementation versus the aforementioned risks and the nature of the Personal Data to be protected;

- 5) Prior consultations with the Supervisory Authority.

## Cooperation with the Controller

13. The Processor shall be required to:

- 1) Provide the Controller with any and all information necessary to demonstrate the fulfilment of obligations set out in Article 28 of the GDPR;
- 2) Render it possible for the Controller or an auditor authorised by the Controller to make audits, including inspections, and take an active part in them.

14. In the event that the Controller undergoes any inspection performed by the Supervisory Authority, the Processor shall be required to actively cooperate with the Controller and the Supervisory Authority.

## Processing Subcontractor

15. The Processor may entrust its processing subcontractor with further processing of Personal Data in performance of the Agreement, subject to a prior, detailed, written consent of the Controller. The foregoing shall not apply to the Authorised Processing Subcontractors approved by the Controller at the execution hereof, as listed in Appendix 3 to the Agreement.

16. A company, being a member of the same group of companies as the Processor, which may be engaged by the Processor to render the services hereunder and obtain access to Personal Data for the purpose of processing the same shall be considered to be the Processing Subcontractor to whom the provisions of § 3 clause 15 and clause 17 hereof shall apply.

17. The Processor warrants to:

- 1) execute with the Processing Subcontractor approved by the Controller in accordance with clause 15 above, in writing, a data processing agreement in relation to the Personal Data and solely

upon the terms of, in the scope of and for the purpose of data processing under and for the term corresponding to the term of the Agreement;

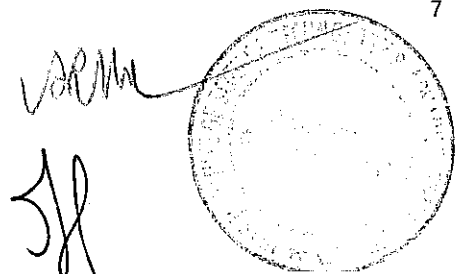
- 2) Impose on the Processing Subcontractor, on the basis of the agreement referred to in item 1) above, the obligation to process Personal Data only on behalf of and in accordance with the instructions of the Controller, and fulfil the obligation to protect Personal Data in a manner that warrants the level of security not lower than that provided hereunder, in order to warrant that the Processing Subcontractor fulfils all of its data protection obligations in compliance with the Agreement and, in particular, those related to the provision of sufficient guarantee for the implementation of adequate technical and organisational measures for ensuring processing compliance with the provisions of the GDPR and the protection of data subjects' rights;

- 3) Immediately provide a copy of the agreements referred to in item 1) above, at the request of the Controller, as well as the description of safety measures implemented by the Processing Subcontractors, subject to the option of first removing from such agreements any and all irrelevant, commercial information of no material significance in evaluating the fulfilment of the Processor's obligations related to the engagement of Processing Subcontractors.

18. The Controller shall be required to treat as confidential any and all documents, materials and information delivered by the Processor pursuant to clause 17 items 1) and 3) above, unless and to the extent that the Controller is not required to disclose the same in response to a demand by the Supervisory Authority, a court or a Data Subject.

## §4 Audit

1. The Controller reserves the right to freely perform or commission the performance, at any time, of an audit, including inspections, which it deems to be necessary to confirm the fulfilment by the Processor or its



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Processing Subcontractors of the obligations and guarantees as stipulated in the Agreement.

2. The Processor agrees, in particular, to:
  - 1) Take part in the audit at its own cost;
  - 2) Deliver, at each and every request of the Controller, within 5 Business Days of receipt of the request, in a manner agreed with the Controller in a Working Mode, any and all information, materials, documents or any other information resources held by it in relation to the Personal Data processing, as necessary for the Controller to demonstrate its compliance with the obligations arising from personal data protection legislation;
  - 3) Provide, if necessary, access to its registered office and that of its Processing Subcontractors for audit purposes;
  - 4) Provide, subject to the observance of business secrets, at the place of performing an audit, access to:
    - a) any and all information, materials, documents or any other information resources held by it in relation to the Personal Data processing, as necessary for the Controller to demonstrate its compliance with the obligations arising from personal data protection legislation; and,
    - b) if necessary, also the hardware, software, data, files, IT systems, documents and any other information resources used in Personal Data processing;
3. If the audit demonstrates that the Processor or any of its Processing Subcontractors violates any guarantee or obligation arising from personal data protection legislation, the Processor shall be required to take, without undue delay and at its own cost, necessary actions or measures to discontinue the breach and reduce any potentially adverse effects thereof. The audits completed or the results thereof do not release the Processor from its obligations under the Agreement.

#### §5 Monitoring and improving standards of Personal Data safety and confidentiality

1. The Processor shall appoint a contact person responsible for responding to any queries, requests or orders by the Controller in relation to the protection of Personal Data. If possible, the contact person so appointed should be qualified in the field of personal data protection.
2. The Processor agrees to permanently improve, if possible, its knowledge of personal data protection in order to refine the technical and organisational measures or safeguards that are designed to warranty the safety of Personal Data at the level adequate to the risk existing throughout the entire term of the Agreement.

3. Intentionally deleted

#### §6 Intentionally deleted

- 1.

#### §7 Processor's liability

1. The Processor shall be liable for any material and non-material damage inflicted upon the Controller and Data Subjects as a result of any breach of personal data protection legislation in connection with the performance of the Agreement in compliance with the provisions hereof and the provisions of the applicable regulation.
2. The Processor shall be liable for the actions and omissions of its employees, associates or other persons and Processing Subcontractors the assistance of which it uses in performing this Agreement as it is liable for its own actions and omissions.
3. In the event that any other Processing Subcontractor whom the Processor entrusted with Personal Data processing hereunder fails to fulfil its data protection obligations arising from the agreement executed with the Processor or personal data protection legislation, the Processor shall be fully liable towards the Controller on that account.
4. In the event that any fine and/or penalty payment is imposed on or adjudicated against the Controller by the Supervisory Authority, any other public administration body and/or court in connection with any

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breach of personal data protection legislation, stemming, either directly and/or indirectly, from any failure of the Processor or its Processing Subcontractor to fulfil or duly fulfil its data protection obligations, the Processor shall pay the Controller the equivalent of such fine or penalty payment made by the Controller and, additionally, cover any and all other costs incurred by the Controller in connection with the proceedings in which the fine and/or penalty payment was imposed on the Controller. Additionally, the Processor shall be required to actively cooperate with the Controller in the course of such proceedings in order to effectively dismiss claims or remove the breach and mitigate any potentially adverse effects thereof.

5. Notwithstanding clause 4 above, in the event that the Supervisory Authority imposes on the Controller any of the measures referred to in Article 58 (2) letters a) through h) of the GDPR in respect of any breach of personal data protection legislation, stemming, either directly or indirectly, from any failure of the Processor or its Processing Subcontractor to fulfil or duly fulfil its data protection obligations, the Processor shall cover any and all costs incurred by the Controller in connection with the proceedings in which the aforementioned measures were imposed on the Controller and in connection with the implementation thereof. Additionally, the Processor shall be required to actively cooperate with the Controller in the course of such proceedings in order to effectively dismiss claims and/or remove the breach and mitigate any potentially adverse effects thereof.
6. In the event that any Data Subject or third party, any other entity, organisation or association referred to in Article 80 of the GDPR asserts any claim for compensation, damages or any other amounts in court proceedings or out of court in connection with any breach of personal data protection legislation, in connection with any unlawful processing of Personal Data by the Processor or its Processing Subcontractor in breach of the Agreement, the Processor shall indemnify

the Controller against any and all claims asserted against the Controller and hold the Controller harmless of any such liability, including the reimbursement of any costs and amounts paid by the Controller to the injured party, and additionally, cover any and all losses and expenses incurred by the Controller in connection with the claims lodged against it.

7. Irrespective of the Processor's obligations as stipulated in this paragraph, the Controller shall have the right to call the Processor to pay liquidated damages for the Processor's breach of the Personal Data processing obligations and principles provided for hereunder, the event that the Supervisory Authority, any Data Subject or third party, any other entity, organisation or association referred to in Article 80 of the GDPR takes any measures as a result of such breach or exercises any powers as stipulated in the GDPR, in the amount of 50 000EUR for each and every instance of such breach. The liquidated damages so reserved do not exclude the possibility of the Controller seeking damages from the Processor on general terms, in the amount exceeding the amount of the reserved liquidated damages. The liquidated damages referred to in this clause shall be payable at first demand, within 14 Business Days of receipt of such demand.

## §8 Term of the Agreement

1. Subject to the provisions of clause 2 below, this Agreement is concluded for the term of the Master Agreement and expires upon the lapse of the notice period or upon the termination of the Master Agreement.
2. If the Processor is required to continue the processing of Personal Data in connection with the termination or cancellation of the Master Agreement (e.g. in order for the Processor to duly fulfil all of its obligations towards the Controller arising from the Master Agreement, and, in particular, within the scope of any after-sales services to the

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*J. J.*



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Controller subscribers), the Agreement shall remain valid until the time period for which the Personal Data processing is entrusted elapses, as specified in the Specific Terms and Conditions.

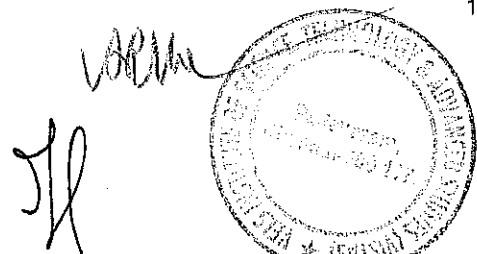
3. The termination of Master Agreement shall trigger the Agreement's termination, provided, however, that the provisions of the Agreement shall remain in full effect until the time period for which the Personal Data processing is entrusted elapses, as specified in the Specific Terms and Conditions.
4. If the Processor notifies the Controller of any obstacle preventing it from duly performing the Agreement, and, in particular, its inability to fulfil any Personal Data protection obligation as specified in the Agreement, the Controller shall have the right to suspend the Agreement performance in full or in any part, or terminate the Agreement with an immediate effect, without the Processor's right to any compensation. For the avoidance of any doubt, it is agreed that the Agreement terminated in such manner shall trigger the termination of Master Agreement, unless the Controller resolves otherwise.
5. The Controller shall have the right to terminate the Agreement in the event of the Processor's or Processing Subcontractor's failure to fulfil any Personal Data protection obligation arising pursuant to the Agreement, with an immediate effect and without the Processor's right to any compensation, upon first calling the Processor to cure the aforementioned breach of the Agreement within a prescribed time period and following the lapse of such time period. The Controller shall be entitled to suspend the Agreement performance in full or in any part for the time period set in the call referred to in the foregoing sentence. For the avoidance of any doubt, it is agreed that the Agreement terminated in such manner shall trigger the termination of Master Agreement, unless the Controller resolves otherwise.
6. If Personal Data processing is discontinued in connection with the Agreement termination or cancellation, the Processor shall be

required, at the discretion of the Controller, to:

- 1) destroy or permanently remove and provide for its Processing Subcontractors to destroy or permanently remove any and all Personal Data entrusted for processing, any and all documents and data carriers containing such data as well as any records in IT systems and software or any manual catalogues and files in which the data is stored; or
- 2) return to the Controller the Personal Data entrusted for processing in a universally used format as agreed with the Controller in Working Mode, no copy thereof being kept by the Processor or any of its Processing Subcontractors.
7. The Processor shall also be required to submit to the Controller, within 3 Business Days of completion of the actions specified in clause 6 items 1) or 2) above, a written statement to confirm the destruction or permanent removal of the Personal Data entrusted for processing or attest that neither the Processor nor any of its Processing Subcontractors hold any Personal Data obtained from the Controller, or rendered available to them via the Controller systems in connection with the Agreement performance, unless the generally applicable provisions of law impose on the Processor or its Processing Subcontractors the obligation to store Personal Data.

## §9 Miscellaneous

1. This Agreement becomes effective on the day of signing by the Parties.
2. In the event of any conflict between the wording of the General Terms and Conditions and the Specific Terms and Conditions, the Specific Terms and Conditions shall prevail.
3. Upon signing the Agreement, either Party may designate from among its employees any persons other than those designated in the Specific Terms and Conditions to be responsible for maintaining day-to-day contacts in matters falling under this



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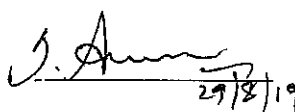
- Agreement and it shall provide the other Party (in the Working Mode) with the data of such persons including the following data: first name, surname, e-mail address, phone numbers and position. The Parties shall immediately inform each other in the Working Mode of any changes in that respect.
4. Appendix 3 shall be updated by the Parties in writing, otherwise being deemed null and void, in the form of an implementing arrangement and not an amendment to the Agreement. Statements of will in the scope in question shall be made by the Parties' authorised representatives.
  5. Paragraph and section headings are inserted for the convenience of use only and do not have any impact on the provisions hereof.
  6. Intentionally deleted.
  7. Any and all amendments or supplements to this Agreement shall be made in writing, otherwise they shall be deemed null and void.
  8. The Parties unanimously declare that in the event of any disputes arising in the course of the Agreement's performance, they shall make endeavours to resolve such disputes amicably. If the Parties fail to resolve a dispute within 30 days of it arising, the dispute shall be referred to a common court with jurisdiction over the registered office of the Controller.
  9. This Agreement is made in two identical counterparts, one for each Party hereto.
  10. The Appendices to this Agreement form an integral part hereof.

Appendix 1 – Authorised Processing Subcontractors.

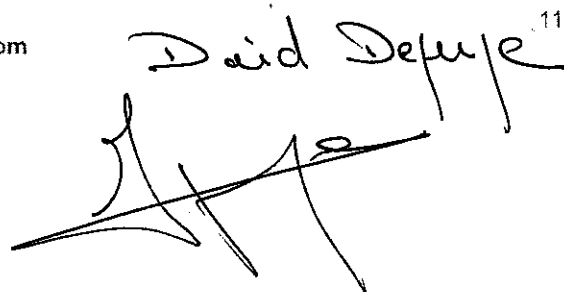
**For and on behalf of the Controller**

Name \_\_\_\_\_ Name \_\_\_\_\_  
 Signature \_\_\_\_\_ Signature \_\_\_\_\_

**For and on behalf of the Processor**

Name Dr. A.R. VEERAMANI Name DR. S. ARUN  
 Signature  Signature 

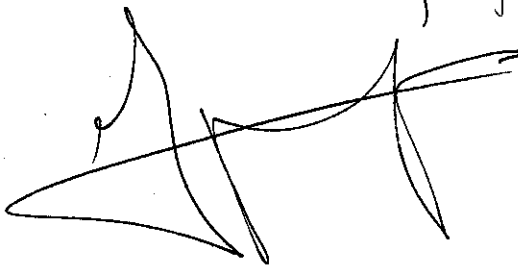
**Dr.A.R. Veeramani**  
 Registrar  
 Vels Institute of Science, Technology  
 & Advanced Studies (VISTAS)  
 Pallavaram, Chennai - 600 117.

<sup>11</sup>

Appendix 1 Authorised subcontractors



NONE

*Daid Dequye*  


*W&M*





### Order

**Subject:** Financial Sanction of the research project titled "Data collection using different sensors (camera, radar...) in order to implement artificial intelligence algorithms to predict different features (drowsiness, distraction, mood...)."

With reference to the above-mentioned research project under the guidance of **Dr. Arun Sahayadhas**, Principal Investigator and **Dr. Jerritta Selvaraj**, Co-Principal Investigator, Artificial Intelligence Research Lab, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Chennai, India; FAURECIA INTERIEUR INDUSTRIE would like to inform you its approval of funding the project, with an amount of total cost of 25 000 euros (twenty-five thousand euros) according to the attached contract and grant conditions.

| S. No | Head                                       | Total Cost (Euro) |
|-------|--------------------------------------------|-------------------|
| 1     | Data Collection experimental setup charges | 13 913            |
| 2     | Man Power charges                          | 7 274             |
| 3     | GST                                        | 3 814             |
| 4     | Overhead                                   | 2 119             |
|       | <b>Total cost of the project</b>           | <b>25 000</b>     |

Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

The release amount of 25 000 euros (twenty-five thousand euros) will be disbursed by FAURECIA INTERIEUR INDUSTRIE to the Bank details given below:

|                            |                                                           |
|----------------------------|-----------------------------------------------------------|
| Account Name               | VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES |
| Account Number             | 911010014364240                                           |
| Bank Name & Branch         | Axis Bank Madipakkam Chennai                              |
| IFSC/RTGSCode              | UTIB0000083                                               |
| Email id of Account Holder | accounts@velsuniv.ac.in                                   |
| Email id of PI             | arun.se@velsuniv.ac.in                                    |

To

1. Dr. Arun Sahayadhas, Principal Investigator, Artificial Intelligence Research Lab, VISTAS, Pallavaram, Chennai  
Email id : [arun.se@velsuniv.ac.in](mailto:arun.se@velsuniv.ac.in)  
Mobile No: +919787115195



## SERVICE AGREEMENT

**BETWEEN: FAURECIA INTERIEUR INDUSTRIE** a limited liability company under French law, having its registered office at 23-27 avenue des Champs Pierreux, 92000 Nanterre Cedex, France,

Here in after referred to as "**FAURECIA**",

represented by David DEGRANGE, Vice President Cockpit of the Future

**AND: Vels Institute of Science, Technology and Advanced Studies (VISTAS)** a deemed to be University having its registered office at PV Vaithiyalingam Rd, Velan Nagar, Krishnapuram, Pallavaram, Chennai, Tamil Nadu 600117, India.

Here in after referred to as the "**PARTNER**", represented by **Dr. A.R. Veeramani, Registrar, VISTAS**

### **1. Scope of the Service Agreement:**

PARTNER has developed a **protocol test for collecting data from different sensors**.  
FAURECIA has developed software to collect data using its sensors (Radar, Camera...).  
FAURECIA is now asking PARTNER to collect data in a way which has been specified in Appendix 1.

### **2. Term of the Service Agreement**

This Service Agreement has been concluded for a term starting on **01/10/2019** and expiring after validation by FAURECIA and at the latest on **31/12/2019**.  
This Service Agreement can only be extended in writing, by mutual consent.

### **3. Service fee - invoicing and payment**

3.1. For the performance of the Service Agreement hereunder, FAURECIA shall pay to PARTNER a sum according to Appendix 1.

### **4. PARTNER's personnel**

4.1. PARTNER represents and warrants that the personnel assigned to perform the services under this Service Agreement shall be employed by PARTNER in full compliance with all applicable laws and regulations, including labour law and social security regulations. PARTNER further warrants that its employees shall not be considered employees of FAURECIA and that it shall indemnify and hold FAURECIA harmless against all possible claims from its employees or any third party relating to the performance of this Service Agreement and more specifically the commitments and representations made in this Article 4.

4.2. If the Service Agreement is performed on FAURECIA's premises, PARTNER's personnel shall comply with all safety and other regulations applicable to visitors of FAURECIA's premises and with all related reasonable instructions of FAURECIA.

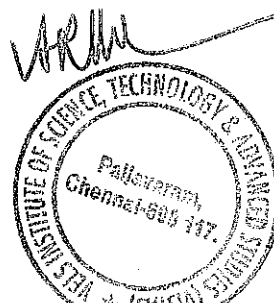
### **5. Subcontracting - Intuitu personae**

5.1. PARTNER shall not be entitled to subcontract all or part of the assignments conferred upon it under the Service Agreement, unless it obtains the prior written authorisation from FAURECIA.

5.2. The authorisation referred to in Article 5.1 above shall not release or discharge PARTNER from any liability, whether contractual or in tort, which it would otherwise have incurred as principal contractor in accordance with the terms and provisions of this Service Agreement.

### **6. Good craftsmanship and liability**

6.1. PARTNER represents and warrants that the Service Agreement shall be performed in accordance with the specifications and other technical instructions made by FAURECIA and in accordance with the highest quality standards applicable in the industry.



6.2. PARTNER shall be liable for any and all damages and/or personal injury incurred by FAURECIA, its employees and/or any third party which PARTNER or its employees have caused with regard to the performance of their obligations. PARTNER shall indemnify FAURECIA for these costs and/or damages and hold it harmless against all third party claims related thereto.

**7. Ownership and intellectual property rights**

7.1. PARTNER recognises and accepts that all results made by it alone or together with others in the performance of this Service Agreement shall irrevocably and automatically be the exclusive property of FAURECIA.

7.2. Each party shall remain the sole and exclusive owner of any and all of its background intellectual property. This Service Agreement grants neither right in, nor license of the background intellectual property of one Party to the other Party.

**8. Confidentiality**

8.1. All information regarding inventions, patents and all production or business secrets, including client lists, financial, commercial and technical information, information with regard to salaries and pay, specifications, reports and other information of whatever nature relating directly or indirectly to the business of FAURECIA, of its affiliated companies, its clients or suppliers, disclosed to PARTNER by FAURECIA or by any of its officers, auditors, employees or external advisers or of which PARTNER had knowledge during the performance of the Service Agreement, shall be considered as confidential information, unless, through no fault of PARTNER or its employees, such information already makes part of the public domain.  
Results are also considered as confidential information.

8.2. At all times, during the performance of this Service Agreement as well as after its termination, PARTNER shall keep such confidential information secret and shall refrain from disclosing them in whatever manner or for whatever reason, from making them accessible to third parties or from using them for its own benefit or for the benefit of any other person other than FAURECIA. The confidentiality obligation, imposed by this Article, shall survive three (3) years after the termination of the Service Agreement. PARTNER shall impose the above obligations on its employee or, if applicable, its employees.

8.3. PARTNER recognises that monetary damages may not be adequate in case it were to violate this Article and that FAURECIA shall have the right to obtain a cease and desist order or to prevail itself of similar legal remedies in addition to the possibility to terminate this Service Agreement, and as the case may be, to prevail itself of all of these means in their entirety. The exercise of these rights shall not constitute a waiver of any other rights which FAURECIA may have against PARTNER in accordance with statutory provisions or because of a violation by PARTNER of this Article.

**9. Data Protection:**

The Parties have agreed to conclude at the same date as this service agreement a data processing agreement, to define the terms and conditions by which FAURECIA entrusts PARTNER with the collection and processing of personal data on its behalf.

**10. Obligations of the Parties**

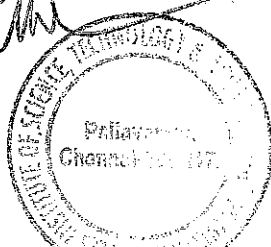
FAURECIA shall put at PARTNER's disposal all information and documents necessary to properly perform the Service Agreement.

PARTNER acknowledges and accepts that these information and documents will remain the property of FAURECIA and will promptly be returned to FAURECIA upon termination or expiration of the Service Agreement.

**11. Termination for cause**

11.1 In the event PARTNER fails to comply with any of the obligations set forth in this Service Agreement and has omitted to cure such breach within five days following receipt of a notice of default served by FAURECIA, FAURECIA may terminate the Service Agreement unilaterally, without any court intervention and without giving any further notice or paying any damages for termination.

*ACM*



2

*JH*

11.2 If any of the parties

- has filed for bankruptcy, has been declared bankrupt, enters into liquidation (whether compulsory or voluntary) or compounds or makes any voluntary arrangement with its creditors or has a receiver, administrative receiver, administrator or other encumbrances appointed of all or part of its assets or takes or suffers any similar action in consequence of debt or becomes unable to pay its debts as and when they fall due; or
- sells or intends to sell, part with or cease to carry on its business or that part of its business relating to the activities to be performed under this Service Agreement; or
- its shareholders transfer the legal or beneficial ownership in any of the shares in its capital;

the other party should be notified immediately of these actions or events in writing and such party may terminate the Service Agreement immediately by registered letter, without any obligation to pay damages for such termination.

12. **Notices**

All notices to be served in accordance with this Service Agreement, except for invoices, shall be made either by registered letter or by facsimile confirmed by registered letter at the following addresses:

For PARTNER : The Registrar, VISTAS, PV Vaithiyalingam Rd, Velan Nagar, Krishnapuram, Pallavaram, Chennai, Tamil Nadu 600117, India.

For FAURECIA: Omar BEN ABDELAZIZ 8 Rue Emile Zola - 60114 MERU - France

13. **Applicable law - jurisdiction**

The Service Agreement shall be subject to French law and all disputes regarding the interpretation, the execution or the termination of this Service Agreement shall be submitted to the exclusive jurisdiction of the commercial court of Paris.

14. **Miscellaneous**

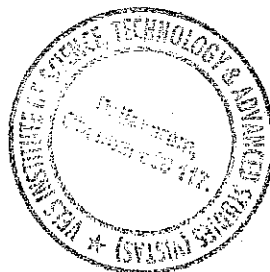
14.1. The Service Agreement supersedes all prior service agreements, general conditions, arrangements and undertakings, whether written or oral, entered into by both contracting parties, with regard to the same subject matter.

14.2. No waiver, discharge or release shall be effective unless agreed to in writing by the party against which such a waiver, discharge or release is being enforced.

The present Service Agreement has been executed in two originals. Each contracting party declares to have received one original duly signed by both parties.

Executed on 29<sup>th</sup> August, 2019.

FAURECIA



PARTNER

Dr.A.R. Veeramani  
Registrar  
Vels Institute of Science, Technology  
& Advanced Studies (VISTAS)  
Pallavaram, Chennai - 600 117.



## APPENDIX I

**Project Description:** data collection using different sensors (camera, radar...) in order to implement artificial intelligence algorithms to predict different features (drowsiness, distraction, mood...).

**Protocol to use for Data Collection:**

1. The data would be collected at High Speed / Oval Track at Global Automotive Research Centre, Chennai, India
2. Duration per session: 45 minutes
3. Environment during data collection: Good weather and clear visibility, different illumination conditions (Take data during different times of the day)
4. Driver:
  - a. Pre-conditions before starting data collection: No caffeine or alcohol consumed during the past 24 hours
  - b. Increasing sleep deprivation induced by prolonged wake: first day: normal sleep patterns, second day: approximatively 20 hours of sleep deprivation and third day: approximatively 28 hours of sleep deprivation.
  - c. Gender: 50% male and 50% female.
5. Questionnaire: Each volunteer must fill out a very comprehensive questionnaire, divided into different sections including Stanford sleepiness scale questionnaire, medical history form, Epworth sleepiness scale questionnaire and a self-report (age, size, mood, stress level.). During the test, the driver will be asked to rate his alertness based on the Karolinska sleepiness scale (KSS) in some specific time intervals.
6. Sensors to be used:
  - a. EEG sensors must be mounted on the participant's head during the driving process.
  - b. ECG, HR sensors must be placed on the driver.
  - c. A near infrared camera with 2MP resolution must be positioned on the driver A pillar level with a vertical position lower than the driver's face (exact position will be defined later). The camera will be equipped with a Band pass IR filter and an active 940nm illumination, HFOV =60°. The camera will be provided with a software to extract the landmarks, the eye opening, the eye gaze, the head position, the hand position and the HR.
  - d. A radar sensor must be fixed on the car headliner. This sensor will work @77GHz and will gather data like driver presence, driver size, driver activity, breath rate... the raw data of this sensor could be used later to validate all the previous features and develop new possible functionalities.
7. Vehicle to be used: A car would be hired for the duration of data collection and all the sensors would be placed on it and would be used for the data collection experiment.
8. The Data would be stored in the car itself and would be sent to Faurecia through dropbox or google drive.

**Cost details:**

|                       |     |
|-----------------------|-----|
| Months                | 2   |
| Days per month        | 20  |
| Kms per day           | 250 |
| working hours per day | 8   |
| Mileage               | 15  |


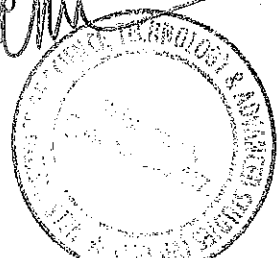

| S. No | Head                                       | Total Cost (Euro) |
|-------|--------------------------------------------|-------------------|
| 1     | Data Collection experimental setup charges | 13 913            |
| 2     | Man Power charges                          | 7 274             |
| 3     | GST                                        | 3 814             |
| 4     | Overhead                                   | 2 119             |
|       | <b>Total cost of the project</b>           | <b>25 000</b>     |

**PAYMENT CONDITIONS**

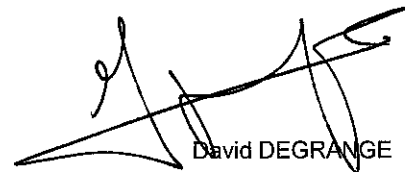
The payment shall be made in lump sum by FAURECIA to PARTNER by the 30<sup>th</sup> of September 2019.

**ONE PAGE ORDER**

The one page order signed separately shall be governed by the same terms and conditions as provided herein in the Service Agreement.

2. Dr. Jerritta Selvaraj, Co- Principal Investigator, Artificial Intelligence Research Lab,  
VISTAS, Pallavaram, Chennai  
Email id : jerritta.se@velsuniv.ac.in  
Mobile No: +919840225105
3. The Registrar, VISTAS, Pallavaram, Chennai  
Email id : registrar@velsuniv.ac.in  
Mobile No: +919962506245



Vice President Cockpit of the Future





**भारतीय नाभिकीय विद्युत निगम लिमिटेड**

BHARATIYA NABHIKIYA VIDYUT NIGAM LIMITED

(भारत सरकार का उद्यम A Government of India Enterprise)

कल्पाक्कम/ Kalpakkam - 603 102

काँचीपुरम जिला (तमिलनाडु) /Kancheepuram Dt.(TN)

वी. राजनबाबू **V. Rajan Babu,**  
निदेशक (तकनीकी) **Director (Technical)**

मोबाइल नं **Mobile No: 09442542030**  
फोन नं **Ph. No. : 044 27480053**  
फैक्स नं **Tele fax No. : 044 27480901**  
इमेल **Email : vrb@igcar.gov.in**

संख्यां No.BHAVINI/DIR(TECH)/2019/01

तिथि Date: 02.01.2019

Sub: Automatic detection of intruders using HF RADAR Data

- Ref: 1. Your Project proposal dated 5/10/2018  
2. Our letter BHAVINI/Dir (Tech)/2018/87 dated 07/12/2018  
3. Meeting at BHAVINI on 15/12/2018

Kindly refer to the above subject. The proposal to carry out the 'Feasibility Study on regression/classification by mining data using unsupervised learning process leading to identification of intruders' as described in your project proposal and subsequent meeting held at BHAVINI on 15.12.2018 is accepted herewith.

The job shall be executed within a period of SIX months from the date of signing of the Memorandum of Understanding-agreement.

The payment schedule will be as follows:

1. Rs.1,00,000/- (Rupees one lakh only) on completion of activities.
2. Travel Charges- At actuals not exceeding Rs.10,000/- (Rupees Ten Thousand only).
3. Consumables- At actuals not exceeding Rs.20,000/- (Rupees Twenty Thousand only).
4. Contingencies- At actuals not exceeding Rs.10,000/- (Rupees Ten Thousand only).

Applicable Taxes, if any, will be deducted at source.

You may kindly arrange for signing of the Memorandum of understanding - agreement (as attached herewith) by the nominated authority. Shri S. Narasimhan, Additional Chief Engineer (IT & Instrumentation) is hereby authorised to sign from BHAVINI end.

With warm regards,

वी. राजनबाबू V. RAJAN BABU

To

The Registrar  
VELS Institute of Science and Technology  
& Advanced Studies (VISTAS)  
Pallavaram, Chennai-600117

Cc: CMD – for kind information  
ACE (IT & Inst.), BHAVINI





भारतीय नाभिकीय विद्युत निगम लिमिटेड  
BHARATIYA NABHIKIYA VIDYUT NIGAM LIMITED  
(भारत सरकार का उद्यम / A Government of India Enterprise)  
कल्पाक्कम/ Kalpakkam - 603 102  
कॉचीपुरम जिला (तमिलनाडु)/ Kancheepuram Dt.(TN)

संख्या. No. BHAVINI/IT&Inst/2019/099

तिथि Date: 03.07.2019

To

The Registrar  
VELS Institute of Science and Technology  
& Advanced Studies (VISTAS)  
Pallavaram  
Chennai-600117

Dear Sir,

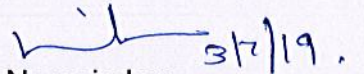
Sub: Automatic Detection of Intruders Using HF Radar Data

- Ref: 1. Your Project Proposal dated 05.10.2018  
2. Our letter BHAVINI/Dir (Tech)/2018/87 dated 07/12/2018  
3. Meeting at BHAVINI on 15/12/2018.  
4. Our Letter BHAVINI/Dir (Tech)/2019/01 dated 02/01/2019  
5. MOU Signed between VISTAS and BHAVINI on 04/01/2019  
(Reference No:WO-1694/19: SUB LEDGER-WV00891694:  
ACCOUNT NO: 78128.)  
6. Our Letter BHAVINI/IT&Inst/2019/ dated 05/01/2019  
7. Meeting at BHAVINI, Chennai Office on 20/05/2019.  
8. Your report on the study undertaken as per the MOU, prepared  
and sent by Dr.V.Rajendran dated 22/05/2019

With respect to the above subject, kindly note that competent authority in BHAVINI had reviewed and accepted the report submitted by you (vide ref-8 above) subsequent to the presentation by you on 20/05/2019.

You may now submit the bills accordingly as per the agreement vide ref-5 &6 above to process further.

Regards

  
S.Narasimhan

Additional Chief Engineer (IT&Inst.)

CC: CMD/Director (technical) - For kind information

AGM (F&A)/DGM (F&A)



**VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES (VISTAS)**

**Receipt Voucher**

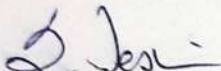
Voucher # : Rcpt/2018-19/MAR/0277

Dated : 26-MAR-2019

| Particulars                      |                      | Debit        | Credit    |
|----------------------------------|----------------------|--------------|-----------|
| To                               | Consultancy Receipts |              | 17,000.00 |
|                                  | Cash                 | Dr 17,000.00 |           |
| Party Name: Consultancy Receipts |                      | 17,000.00    |           |

**On Account of:**

Being cash received from Ms.Durgalakshmi towards the consultancy project fee for the project from Gujarat on mechanical properties of concare mix concrete on 23.11.17,dept of civil engg

  
Prepared by

Checked by

  
Authorised by

Received by

**VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES (VISTAS)**

**Receipt Voucher**

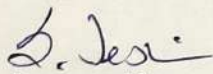
Voucher # : Rcpt/2018-19/MAR/0278

Dated : 26-MAR-2019

| Particulars                             | Debit           | Credit   |
|-----------------------------------------|-----------------|----------|
| To Consultancy Receipts                 |                 | 5,000.00 |
| Cash Dr                                 | 5,000.00        |          |
| <i>Party Name: Consultancy Receipts</i> | <b>5,000.00</b> |          |

**On Account of:**

Being cash received from Ms.Durgalakshmi towards the consultancy project fee for the project from Mr.K.Venkatesan on Duplex House ,Dept of civil Engg

  
Prepared by

Checked by

  
Authorised by

Received by

VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES (VISTAS)

Receipt Voucher

Voucher # : Rcpt/2018-19/MAR/0279

Dated : 26-MAR-2019

| Particulars                      | Debit    | Credit   |
|----------------------------------|----------|----------|
| To Consultancy Receipts          |          | 1,000.00 |
| Cash Dr                          | 1,000.00 |          |
| Party Name: Consultancy Receipts | 1,000.00 |          |

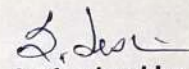
On Account of:

Being cash received from Ms.Durgalakshmi towards the consultancy project fee for the project on Water quality assessment for construction work ,Dept of civil Engg



Prepared by

Checked by



Authorised by

Received by





# TAMIL NADU STATE AIDS CONTROL SOCIETY

No. 417, Pantheon Road, Egmore, Chennai - 600 008.  
Ph: 044-2819 0467, 2819 0891 Fax No. 91-044-2819 0465  
E-mail: tnsacs@gmail.com, Website:www.tnsacs.in

## Letter No.6589/TANSACS/PROC/EHR-Piloting/2017 Dated 15/02/2018

To

M/s. Synapstics EHR Technologies PRIVATE LIMITED  
VELS University,  
1st Floor CARD Incubation Centre Building,  
P.V. Vaithiyalingam Road Pallavaram, Chennai- 600117.

Dear Sir / Madam,

Sub : TANSACS – Electronic Health Record (EHR) Software with Hardware support and installation to Piloting at Madras Medical College (MMC) & Institute of Obstetrics & Gynecology (IOG) ART Centre - Quotation called for – Regarding.

Tamil Nadu State AIDS Control Society (TANSACS) Chennai has planned to procure Software and Hardware for implementation of pilot project to introduce Electronic Health Record software at MMC, ART Centre, Chennai and at IOG, ART Centre, Chennai.

### **Software Features:**

- The purpose of this Electronic Health Record Engagement Initiative invitation exercise is to invite expression of interest with preliminary proposals for Possible Electronic Health Record (eHR) partnerships, including pilot projects and interface projects that could facilitate deployment of electronic medical/patient record activities for Tamil Nadu State Aids Control Society.
- Introduce one integrated solution which will support the clinical activities for Tamil Nadu State Aids Control Society. Provide a full electronic patient record with access to patient information at the point of care. Create paperless processes and automated workflow to reduce errors and streamline operations. Provide protection of patient data in a secure and manageable way. Provide a secure and reliable IT infrastructure. Deliver management information to consultants, clinicians and other administration and management stakeholders, facilitating greater transparency and accountability.
- Enhance workflow efficiency and provide the TANSACS staff with improved working environment and Dedicated Patient Portal which helps the patients to book appointments and need the access for Multiple ARTC Centre's to view Different records from almost any web-enabled device simultaneously.
- Patient-centred healthcare – The electronic platform will be patient-focused Electronic Health Record system allows timely sharing of essential and comprehensive medical information of patients. It provides a vital infrastructure for facilitating a seamless healthcare process.

**The specification of the hardware is as follows.**

- o Desktop System Configuration : Core i3 / i5 – 6<sup>th</sup>/7<sup>th</sup> Generation, 4GB DDR4 RAM, 1TB HDD, 18.5” LED Monitor, Multi Byte-WIFI Desktop Receiver, Window 10 Professional(64bit)/ Ubuntu OS, Kaspersky – Anti Virus, Keyboard & Mouse and accessories
- o 10 Inches TAB

Hence, you are requested to submit the quotation for Electronic Health Record software with Hardware for the above specification including GST taxes.

The sealed quotation should be submitted in this Office at Tamil Nadu State AIDS Control Society, No.417, Pantheon Road, Egmore, Chennai – 600 008 within 23/02/2018, 3.00 P.M.

The quotations will be opened on the same day 04.00 P.M. at TANSACS Office by the Committee Members. Interested suppliers are allowed to be present during the quotation opening.

  
For Project Director

15/2/18

SRI  
**Sri Ramachandra Educational and Health Trust**

New No.24 (Old No.25) Sir C.V. Raman Road, Alwarpet, Chennai - 600 018, India.  
Phone - Office : 2476 8403 Regd. Off. : 2499 3951

Founder  
Managing Trustee  
**N.P.V. RAMASAMY UDAYAR**

Managing Trustee  
**V.R. VENKATAACHALAM**

05.12.2017

To

The Managing Trustee  
Vels Institute of Science Technology and Advanced Studies  
Velan Nagar,  
Pallavaram,  
Chennai - 600 117

Dear Sir,

Further to our letter we are happy to inform that our Board of Trustees have agreed to fund the research projects subject a maximum amount of Rs.10,00,00,000/- (Rupees Ten Crores only).

Wishing you all the best in your endeavours.

Thanking You

Yours Faithfully,  
**For Sri Ramachandra Educational and Health Trust**



**Authorised Signatory**

---

GSTIN No. 33AAATS2283DIZT  
Address for correspondence : #1, Ramachandra Nagar, Porur, Chennai - 600 116.



03-05-17

2E

F. No. 3-18/2015-T.S.-I(Vol. III)  
Government of India  
Ministry of Human Resource Development  
Department of Higher Education  
Technical Section-I

Shastri Bhawan, New Delhi  
Dated the 24<sup>th</sup> April, 2017

To,

The Director,  
IIT Kanpur (National Coordinator of IMPRINT)

**Subject:- 'In- principle' approval on proposals under IMPRINT.**

Sir,

I am directed to refer to this Ministry's letter of even number dated 22-3-2017 conveying 'in- principle' approval on (7) proposals to be supported by MEITY and to convey in-principle approval on 12 proposals as per enclosed list to be supported by Industries/ Institutes/ Alumni/ other non- MHRD source to the extent of 50% of project cost.

The National Coordinator is requested to coordinate with the concerned Industries/ Alumni/ Institution/ donor, so that they release their share of funds for these projects at the earliest in order to enable MHRD to release its share

Yours faithfully,

(Kundan Nath)

Under Secretary to the Government of India  
Ph : 011-23381698

Encl. as above

Copy to:

- 1) The Director, IIT Madras
- 2) The Director, IIT Kharagpur
- 3) The Director, IIT Delhi
- 4) The Director, IIT Guwahati
- 5) The Director, IIT Hyderabad
- 6) The Director, IIT Gandhinagar
- 7) The Director, IIT Allahabad
- 8) The Director, NIT Durgapur

Dean R & D

---

Gautam Sinha

4/5/17

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AC/12/17

copy to Prof. P. M. Uthappa Kumar  
& Prof. Jambhulkar

| S. No. | Domain                                 | Project No. | Project title                                                                                                                                                                      | PI                       | Institute       | Total 1st year cost of the project | Total 2nd year cost of the project | Total 3rd year cost of the project | Total cost of the project | Ministry/Department/Institute/Agency which will support the project to the extent of cost |
|--------|----------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|------------------------------------|------------------------------------|------------------------------------|---------------------------|-------------------------------------------------------------------------------------------|
| 1      | Advanced Materials                     | 7165        | Micro wave assisted reduction of iron oxides. An innovative and cost effective approach for steel production                                                                       | Ajay Kumar Shukla        | IIT Madras      | 106.2                              | 171.4                              | 52.2                               | 330                       | JSW Steel's NMDC                                                                          |
| 2      | Healthcare                             | 6183        | Microfluidic platform for continuous monitoring of gas transmitters for early level management of Systemic Inflammatory Response Syndrome (SIRS) in Trauma patients                | Ashu Kumar Sen           | IIT Madras      | 187                                | 102                                | 97                                 | 386                       | ICMR, IITM                                                                                |
| 3      | Water Resources & River Systems        | 6291        | Reclamation of Steel Industry Wastewater through Phytoremediation Technique Using Microalgae and Assessment of Biofuel Production from Algal Biomass                               | Sumita Datta             | NIT Durgapur    | 23.44                              | 10.24                              | 11.44                              | 45.12                     | Atomic NHRI                                                                               |
| 4      | Energy                                 | 6777        | Design and development of energy efficient and environment friendly LPG and Kerosene cooking stoves with Porous Radiant Burners for household and large scale cooking applications | Sudash C. Moha           | IIT Guwahati    | 86.4                               | 54.46                              | 54.04                              | 194.90                    | PI Institute-Industry                                                                     |
| 5      | Healthcare                             | 6177        | Manufacturing Solution for the Preparation of Siddha Medicines (Traditional Medicines Originated from Tamil Nadu)                                                                  | S Sridharvelan           | IIT Guwahati    | 41.98                              | 47.82                              | 26.17                              | 115.97                    | PI Institute-Industry                                                                     |
| 6      | Energy                                 | 4508        | Development and Evaluation of an eco-friendly high temperature-gated ultrasonic wave based corrosion under simulation detection system for nuclear power plant pipes (GUMPS)       | Krishnan Balasubramanian | IIT Madras      | 185                                | 101                                | 108                                | 394                       | Govt. AP                                                                                  |
| 7      | Manufacturing                          | 6596        | Manufacture of shells for field runs with improved design and performance                                                                                                          | Pradip Kumar Ray         | IIT Kharagpur   | 110                                | 80                                 | 0                                  | 190                       | Govt. Ministry of Defense                                                                 |
| 8      | Healthcare                             | 4192        | Production of a crucial therapeutic protein for Trauma and Accident care in Escherichia Coli system                                                                                | Lajun Kumar Chaudhri     | IIT Delhi       | 37.4                               | 11.4                               | 11.2                               | 60                        | PI Institute-Industry                                                                     |
| 9      | Information & Communication Technology | 7482        | Power Aware Compiler for Embedded Processors                                                                                                                                       | Bibha Ghoshal            | IIT Allahabad   | 25.8                               | 14.66                              | 0                                  | 40.46                     | PI Institute                                                                              |
| 10     | Advanced Materials                     | 4291        | Affordable and cost effective cancer diagnosis/treatment using gold based biodegradable nanoparticles                                                                              | Arun Kumar Rengan        | IIT Hyderabad   | 87.3                               | 36.3                               | 31.8                               | 155.4                     | Industry/Institutions/Down                                                                |
| 11     | Energy                                 | 7254        | Unlocking waste gas potential in India through a reservoir green, benign approach                                                                                                  | Vikram Vishal            | IIT Bombay      | 92                                 | 38                                 | 43                                 | 173                       | DSI + IITC, IITB                                                                          |
| 12     | Nano Technology                        | 6804        | Advanced nanotracers for product life cycle assessment                                                                                                                             | Supreb Misra             | IIT Gandhinagar | 71.42                              | 46.612                             | 39.37                              | 157.426                   | Industry/A. Meeva Export                                                                  |



## Team Members

| SN | Name and Affiliation                                                                                                                                                                                                                                  | Role and Contact Details                                                                          |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 1  | <b>Dr S Senthilvelan</b><br>Associate Professor, Department of Mechanical Engineering<br><b>Indian Institute of Technology Guwahati</b><br>Guwahati 781039                                                                                            | Principal Investigator<br>Phone: 9435543129 Office: 0361-2582671<br>Email: ssvvelan@iitg.ernet.in |
| 2  | <b>Dr S Kanagaraj</b><br>Associate Professor, Department of Mechanical Engineering<br><b>Indian Institute of Technology Guwahati</b><br>Guwahati 781039                                                                                               | Co-Investigator<br>Phone: 9957469518 Office: 0361-2582676<br>Email: kanagaraj@iitg.ernet.in       |
| 3  | <b>Prof P S Robi</b><br>Professor, Department of Mechanical Engineering<br><b>Indian Institute of Technology Guwahati</b><br>Guwahati 781039                                                                                                          | Co-Investigator<br>Phone: 9957557637 Office: 0361-2582668<br>Email: psr@iitg.ernet.in             |
| 4  | <b>Prof . Kannan Pakshirajan</b><br>Professor, Department of Biosciences and Bioengineering<br><b>Indian Institute of Technology Guwahati</b><br>Guwahati 781039                                                                                      | Co-Investigator<br>Phone: 9435732706 Phone: 0 361-2582210<br>Email: pakshu@iitg.ernet.in          |
| 5  | <b>Prof G Pugazhenth</b><br>Professor, Department of Chemical Engineering<br><b>Indian Institute of Technology Guwahati</b><br>Guwahati 781039                                                                                                        | Co Investigator<br>Phone: 9435543128 Office: 0361-2582264<br>Email: pugaj@iitg.ernet.in           |
| 6  | <b>Prof R Gnanamoorthy</b><br><b>Professor , Indian Institute of Technology Madras</b><br>Currently Director, Indian Institute of Information Technology<br>Design & Manufacturing (IIITD&M) Kancheepuram<br>Melakottaiyur Village, Chennai - 600 127 | Co-Investigator<br>Phone: 9600087590 Office: 044-27476302<br>Email: gmoorthy@iiitdm.ac.in         |
| 7  | <b>Dr P Selva Shanmugam( MD Siddha), PhD</b><br><b>Siddha Consultant Physician,</b><br>President, World Siddha Trust Secretary, Health India Found<br>101, Usman Road, Thyagaraya Nagar, Chennai. 600017                                              | Co-Investigator( Siddha Doctor)<br>Phone: 98948 28968<br>E-mail: siddhaselva@yahoo.co.in          |
| 8  | <b>Dr J Raamachandran</b><br><b>(Retd.) Professor Indian Institute of Technology Madras</b><br>5, Kamakoti Nagar, Alwarthiru Nagar Chennai 600 087                                                                                                    | Co-Investigator( Siddha Practitioner)<br>Phone: 9445285066<br>Email: raamachandran@live.com       |
| 9  | <b>Prof R A Kalivani</b><br>Professor, Director School of Basic Sciences<br><b>Vels University</b><br>Chennai 600117                                                                                                                                  | Co Investigator<br>Email: rakvani@yahoo.co.in                                                     |



# B.S.V. SHIPPING AGENCIES PVT LTD

SHIPPING, NVOCC, EQUIPMENT HANDLING

No.64- IV North Beach Road,

Off Krishnan Kovil street, Chennai -600001.

Tel: +91-44-39989850 51/52/53/55 Fax: +91-44-39989899

Email: admin.che@bsvship.com

Date 01.12.17

To

**The Registrar**

**Vels Institute of Science Technology and Advanced Studies ,**

**Pallavaram,Chennai -117**

Dear Sir,

Sub: Project Sanction - Quality Improvement of Logistics Process by  
Identification of the Defects through Total Quality Management

Ref : Your proposal forwarded - dated 02.06.17

We are glad to accept the proposal cited in the reference above of  
Dr. A. Mohammed Faisal and sanction INR 5,00,000 upon successful  
completion of the project .

Thanking you.

Yours faithfully

**For B.S.V. SHIPPING AGENCIESPRIVATE LIMITED**

**R. RAJAGOPALAN**

**AUTHORISED SIGNATORY**







Since 1984

**KERRY INDEV**  
LOGISTICS

Date 04.01.18

To

**The Registrar**

**Vels Institute of Science Technology and Advanced Studies ,**

**Pallavaram, Chennai -117**

Dear Sir,

Sub: Project Sanction - Improvement of Logistics Process by  
Identification of Appropriate Lean Wastages for Implementation of Lean  
Logistics

Ref : Your proposal forwarded dated 11.12.17

We are glad to inform that you the proposal cited in the reference above  
by Dr. A. Mohammed Faisal , our board has accepted the proposal and sanctioned  
INR 10,00,000 for the said proposal . Payment will be released on the successful  
completion of the project .

Thanking you,

Yours faithfully

For **KERRY INDEV LOGISTICS PRIVATE LIMITED**



**R. RAJAGOPALAN**

**AUTHORISED SIGNATORY**



**A kinetic study and Adoption of cost effective warehouse management system**



**Ennore Cargo Container Terminal Pvt. Ltd.**  
Container Freight Station

Date 20.12.17

To

**The Registrar**

**Vels Institute of Science Technology and Advanced Studies ,  
Pallavaram, Chennai -117**

Dear Sir,

Sub: Project Sanction - Adoption of Cost Efficient Warehouse  
Management System

Ref: Your proposal forwarded- dated 17.12.17

We are glad to accept the proposal cited in the reference above of  
Dr .P.R.Ramakrishnan as the Principal Investigator and Dr.P.G.Thirumagal as  
the Co-Investigator and sanction INR 5,00,000 upon successful completion of the  
project.

Thanking you,

Yours faithfully

For **ENNORE CARGO CONTAINER TERMINAL PVT. LTD.**

A handwritten signature in black ink, appearing to read 'Rajagopalan', is written over the typed name.

**R. RAJAGOPALAN**

**AUTHORISED SIGNATORY**





# VELS UNIVERSITY



PALLAVARAM - CHENNAI - INDIA  
VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)  
(Chartered by the Government of Tamil Nadu in 1984)

## RESEARCH & DEVELOPMENT STATEMENT OF ACCOUNTS

|                         |                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------|
| PERIOD                  | From 01.06.2016 To 30.06.2017                                                                                    |
| PROJECT TITLE           | <i>Synthesis and characterization of nanocarbon sheets from hemp fiber and its application of supercapacitor</i> |
| SPONSORING AGENCY       | Bombay Hemp Company Pvt Ltd (BOHECO)- Project                                                                    |
| SANCTION LETTER DATE    | 17/06/16                                                                                                         |
| TOTAL SANCTION AMOUNT   | <b>13.5 lakh</b>                                                                                                 |
| PROJECT INVESTIGATOR    | Dr. S. Raghu                                                                                                     |
| Co-PROJECT INVESTIGATOR | Dr. R.A. Kalaivani                                                                                               |

### DETAIL OF ACTUAL BUDGET

| Serial No. | Budget Head              | Expenditure          |
|------------|--------------------------|----------------------|
| 1          | Consumable               | 6,66,000             |
| 2          | Contingency              | 30,000               |
| 3          | Equipment                | 1,00,000             |
| 4          | Institute over Head      | 1,74,000             |
| 5          | Others                   | 3,80,000             |
|            | <b>Total Expenditure</b> | <b>13, 50, 000/-</b> |

### AS PER SANCTION LETTER REFERRED TO ABOVE

|                                                  |           |
|--------------------------------------------------|-----------|
| 1 <sup>st</sup> GRANT RECEIVED on 17/06/2016     | 8,00,000  |
| 2 <sup>nd</sup> GRANT RECEIVED ON DECEMBER 2016  | 4,00,000  |
| OPENING BALANCE AS                               | nil       |
| TOTAL EXPENDITURE FROM 01.06.2016 TO 11.07.2017* | 13,51,131 |
| CLOSING BALANCE AS ON 11.07.2017*                | Nil       |

### UTILIZATION CERTIFICATE

Certified that sum of Rs.12, 00,000 sanctioned during the year of 2016-2017 grants-in-aid in the favour of **The Registrar, Vels University**, and Chennai, Rs. 8, 00,000/- has been transferred as a first installment through online RTGS transfer to VISTAS account dated 17.06.2016, Ref. No: RTGS-KKBKR52016061700778768 and Rs.4, 00,000/- has been sanctioned as a second installment to the VISTAS account dated 27.11.2016. The total amount of Rs. 13,51,131/- has been utilized for the purpose of this project.

*R. Medival*  
*S. J. J.*  
Investigators

For VELS UNIVERSITY

*[Signature]*  
Chief Financial Officer  
Finance Officer

*[Signature]*  
Registrar  
REGISTRAR  
VELS UNIVERSITY  
(VISTAS)  
Vetan Nagar,  
P.V. Vaithiyalingam Road,  
Pallavaram, Chennai-600 117.



(19)



HOD Dept of Biotechnology Vels University &lt;hodbiotech@velsuniv.ac.in&gt;

## Approval letter of pr. No. R&D/TN-01/2016-17-NMPB-IV A

1 message

**ShahidulKhair Asstt.ResearchOfficer(Phcgn)** <arophg.nmpb@gov.in>  
 To: hodbiotechnology@velsuniv.org  
 Cc: oyessvi70@rocketmail.com

Wed, Apr 27, 2016 at 2:18 PM

**F. No. Z.18017/187/CSS/R&D/TN-01/2016-17-NMPB-IV A**  
**Government of India**  
 Ministry of AYUSH  
**National Medicinal Plants Board**

...

Room No: - 309, 3<sup>rd</sup> Floor,  
 B-Block, AYUSH Bhawan,  
 GPO Complex, INA, New Delhi-110023  
 Phone: - 011-2465-1828  
 Telefax:- 011-2465-1827  
 Email:- info-nmpb@nic.in  
**Date: - 26.04.2016**

To,

**Dr. K. Rajagopal,**  
 Principal Investigator and Associate Professor,  
 Deptt. of Biotechnology,  
 School of Life Sciences, VELS University,  
 Mallika Nagar, Old Pallavaram, Chennai-600117,  
 Tamil Nadu.

**Subject:- Approval of the Project Proposal entitled "Micropropagation and phytochemical analysis of some medicinal plants used by tribals of Elagiri, Javvadu and Yercaud hills in Tamil Nadu" – reg.**

Sir/Madam,

The undersigned is directed to refer to the project proposal entitled "**Micropropagation and phytochemical analysis of some medicinal plants used by tribals of Elagiri, Javvadu and Yercaud hills in Tamil Nadu**" in favour of **VELS University, Chennai, Tamil Nadu**, and to say that the project was recommended in the 42<sup>nd</sup> PSC meeting held on 18<sup>th</sup> & 19<sup>th</sup> January, 2016 and approved by the 66<sup>th</sup> SFC for 3 years at the total cost of `14.119 lakh for the institution, where NMPB's contribution will be only **50% i.e. `7.0595 lakh** (Rupees Seven Lakh Five Thousand Nine Hundred Fifty only) and **rest 50% of the amount will be contributed by the VELS University.**

The financial break-up of the Grant-in-aid as approved by the 66<sup>th</sup> SFC is as below:-

| Components                          | Amount<br>(₹ In lakhs) |
|-------------------------------------|------------------------|
| Manpower (JRF - 1 )                 | 4.320                  |
| Travel                              | 0.80                   |
| Consumables (Chemical & galsswares) | 3.50                   |

|                                                                            |               |
|----------------------------------------------------------------------------|---------------|
| Contingency                                                                | 0.75          |
| Non-recurring (equipments)                                                 | 4.00          |
| Overhead @ 8%                                                              | 0.749         |
| <b>Total</b>                                                               | <b>14.119</b> |
| <b>NMPB's contribution is 50% of the total cost i.e.<br/>`7.0595 lakhs</b> |               |

-2-

Details of Installments will be as follows:-

| Total          | 1 <sup>st</sup> installment | 2 <sup>nd</sup> installment | 3 <sup>rd</sup> installment |
|----------------|-----------------------------|-----------------------------|-----------------------------|
| <b>`7.0595</b> | <b>`3.80</b>                | <b>`2.00</b>                | <b>`1.259</b>               |

You are requested to submit the duly filled up Performa of Agency Details (Copy enclosed) for transferring the grant-in-aid through RTGS mode & for online monitoring of the project along with the documents indicated below:

1. Pre-receipt of **1<sup>st</sup> installment** of **`3.80 lakh**, duly signed, on Rs. 1/- revenue stamp affixed.
2. A certificate stating that institute / organization is not involved in any proceeding relating to the account or conduct for any of its office bearers.
3. An undertaking that the terms and conditions of the grant are acceptable to the college / organizations.
4. A certified copy duly authenticated by a Gazetted Officer of the documents showing the Constitution of the governing Body or Managing Committee responsible for the running of the organization and that the persons signing the agreement are authorized to operate upon and bind the funds of organizations / Institute.
5. A certificate that the organization has not received any grant from State or Central Govt. or from any other agency for the same proposal.
6. An Agreement (Govt. org.)/Bond (Pvt./NGO org.) on `100/- stamp paper duly executed & signed in the prescribed Performa.

**Note:** Format copies for Agency Details and S. No. 1, 5 & 6 are attached for convenience. Rest of the certificates/undertaking at S. No. 2 to 4 shall be submitted by the grantee.

Thanking You,

Yours faithfully

-sd/-  
**(Shahidul Khair)**  
**ARO (Phcg)**

**Copy to:-**

- **The Registrar**, VELS University, Mallika Nagar, Old Pallavaram, Chennai-600117, Tamil Nadu, for information please.

---

**4 attachments**

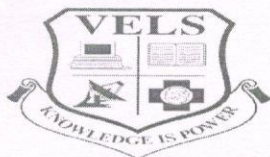
 **Agency Details.doc**  
59K

 **Pre-receipt.docx**  
12K

 **Certificate of Non-Receipt of Fund.doc**  
54K

 **Bond.docx**  
437K





# VELS

INSTITUTE OF SCIENCE, TECHNOLOGY  
& ADVANCED STUDIES (VISTAS)

(DEEMED TO BE UNIVERSITY Estd. u/s 3 OF THE UGC ACT, 1956)

**NAAC ACCREDITED**

PALLAVARAM - CHENNAI - INDIA



## Order

02-01-2018

I am by direction to inform you that the management had sanctioned seed grant for Mini Research Project work for the following faculty members against their research proposal submitted. They are further, requested to carry out the respective project with immediate effect and submit the report within the stipulated time period.

| Sl.No.                          | Name of the Faculty                                                            | Department  | Title of the Project                                                                                               | Amount Sanctioned |
|---------------------------------|--------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------|-------------------|
| <b>School of Basic Sciences</b> |                                                                                |             |                                                                                                                    |                   |
| 1                               | Dr.R.A.Kalaivani, (PI)<br>Dr.Raghu Subash<br>Chandrabose<br>Dr.A.M.Shanmugaraj | Chemistry   | Development of Prototype for the Treatment of Sewage Waste Water                                                   | 150000            |
| 2                               | Dr.G.Nithya                                                                    | Chemistry   | Development of Iron oxide Nanoconjugate with 2,2' - Dichloro Benzil and Assessment of its Biological Activity      | 100000            |
| 3                               | Dr.R.Govinda Rao                                                               | Chemistry   | Sol-gel Synthesis, Crystal Structure, Electronic, Magnetic and Optical Properties of New Series Nano Oxides        | 100000            |
| 4                               | Dr.K.Selvakumari                                                               | Mathematics | Optimization Techniques                                                                                            | 100000            |
| 5                               | Dr.S.Paulraj                                                                   | Physics     | Achieving High Figure of Merit in Sn-Chalcogenides by Introducing Sn Vacancies for Thermoelectric Power Generation | 100000            |

*APM*  
2.1.2018

Page 1 of 6



| School of Life Sciences |                      |                |                                                                                                                                                              |        |
|-------------------------|----------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 1                       | Dr.N.K.Udaya Prakash | Biotechnology  | Development of Nanosensor for Detection of Airborne Ammonia                                                                                                  | 150000 |
| 2                       | Dr.V.Vanitha         | Biochemistry   | Isolation of Novel Phyto Compound from the Sea Grass Cymodocea Serrulata and Deciphering its Anticancer Potential by an In ViVo Approach                     | 150000 |
| 3                       | Dr.R.Sangeetha       | Biochemistry   | Understanding the Epigenetic Interventions by Luteolin in Diabetes - Implications on Toll like receptor and Associated Targets                               | 100000 |
| 4                       | Dr.K.G.Kripa         | Biochemistry   | Anti inflammatory and Antioxidant Potential of Caryota Urens : an in Vitro Study                                                                             | 100000 |
| 5                       | Dr.Radha Mahendran   | Bioinformatics | Experimental Validation and in Silico Analysis for Evaluating the Efficacy of Biomolecules from Anisomeles Malabarica (L) Against Mycobacterium Tuberculosis | 100000 |

| School of Computing Sciences |                                                   |                  |                                                                                                                                                       |        |
|------------------------------|---------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 1                            | Dr.S.Prasanna (PI),<br>Dr.R.Priya (Co-PI-1)       | MCA              | An innovative Design and Development of Application Model Oriented towards Stress Level Identification Using Facial Recognition and Mining Techniques | 150000 |
| 2                            | Dr.P.Sripriya (PI),<br>Mr.S.Stephen Raj (Co-PI-1) | MCA              | An Inventive Arrangement for Accident Prevention Detection and Caution                                                                                | 125000 |
| 3                            | Dr.K.Kalaiselvi (PI)                              | Computer Science | Mobile Tracking System for Preventing the Propagation of Feminine Victim                                                                              | 125000 |

*ARM* 2-1-2014



| School of Pharmaceutical Sciences |                                                           |                                           |                                                                                                                                                                        |        |
|-----------------------------------|-----------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 1                                 | Dr.V.Santhosh Kumar, (PI)<br>Dr.T.S.Shanmugarajan (Co-PI) | Pharmacology,<br>Pharmaceutics            | Effect of N-Acetyl D-Glucosamine on STAT5B in Mice                                                                                                                     | 50000  |
| 2                                 | Dr.Binoy Varghese Cheriyan                                | Pharmaceutical<br>Chemistry               | Understanding the Ayurvedic Wisdom of "Lsheerabala 101" for the treatment of neuropathy pain                                                                           | 50000  |
| 3                                 | Dr.A.Vijayalakshmi                                        | Pharmacognosy                             | Development of Nanoparticles loaded Topical Gel Containing Plant Extract Targeting Inflammatory Cytokines for the Management of Psoriasis                              | 100000 |
| 4                                 | Dr.S.Jayakumari                                           | Pharmacognosy                             | Standardization and Evaluation of a Transdermal Patch from Tannin Enriched Fraction of PSIDIUM GUJAVA Leaves for Wound Healing Activity                                | 75000  |
| 5                                 | Dr.E.Susithra                                             | Pharmacognosy                             | Bench Top Bioassay - An Animal Sparing Method for Screening Anti-Tumour Compounds                                                                                      | 125000 |
| 6                                 | Dr.M.Vijey Aanandhi                                       | Pharmaceutical<br>Chemistry &<br>Analysis | Prevalence of Hepatitis B Among Smear Positive Tuberculosis Patients in Rural TamilNadu - Is HbsAg a Pre-requisite Screening Tool in TB Diagnostics                    | 100000 |
| 7                                 | Dr.P.Shanmugasundaram (PI), Dr.M.Vijey Aanandhi (Co-PI)   | Pharmaceutical<br>Chemistry &<br>Analysis | Anti Cancer Terpenes from Hygrophila Auriculata for Cytotoxic Activity on Hep G2 Cell Lines and Aflatoxin, Diethylnitrosamine Induced Hepatocellular Carcinoma in Rats | 100000 |

| School of Hotel & Catering Management |                                                              |     |                                                                                                                                                    |        |
|---------------------------------------|--------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 1                                     | Ms.S.Vijayalakshmi,<br>Mr.Mark Keith Faraday,<br>Mr.R.Bennet | HCM | Detection of Natural Antioxidants in Food Items by GCMS, HPLC and NMR Techniques and Evaluation of Antioxidant Potential by In VITRO and IN SILICO | 100000 |

*VAPM* 2-1-2018



| School of Engineering |                                                                     |                        |                                                                                                                                       |          |
|-----------------------|---------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------|
| 1                     | Dr.T.Ilango (PI),<br>Mr.P.R.Kalyan chakravarthy (Co-PI)             | Civil Engineering      | Durability, Strength and Binding Characteristics of Concrete Mix using Sea Water or Saline Water in Concreting                        | 100000   |
| 2                     | Dr.R.A.Karthika                                                     | CSE                    | Intelligent Monitoring System for Swachh Bharat Abhiyan using Cloud Service                                                           | 100000   |
| 3                     | Dr.N.Kumar (PI) , Mr.C.Swaraj Paul (PI), Mr.SB. Ribin Jones (Co-PI) | CSE                    | Pulse Monitoring Wearable Glove                                                                                                       | 30000    |
| 4                     | Dr.N.Kumar (PI), Mr.C.Swaraj Paul (PI), Mr.SB. Ribin Jones (Co-PI)  | CSE                    | Smart Irrigation System Using IOT                                                                                                     | 40000    |
| 5                     | Dr.M.Chandrasekaran (PI)<br>Mr.V.S.Shai Sundaram (Co-PI)            | Mechanical Engineering | Development of Novel and Affordable Windmill for Domestic Application Encompassing Coastal Area in India                              | 1,50,000 |
| 6                     | Dr.C.Dhanasekaran (PI)<br>Dr.S.Sivaganesan,Dr.A.Parthiban (CO-PI)   | Mechanical Engineering | Experimental Investigation of the effect of nano fuel additives on a C.I.engine using Biodiesel                                       | 100000   |
| 7                     | Dr.R.Pugazhenth                                                     | Mechanical Engineering | Development and Evaluation of 3D Bone Scaffolds Using UHMWPE Composite for Bio Implant Application                                    | 100000   |
| 8                     | Dr.L.Karikalan                                                      | Automobile Engineering | Concept of Designing, Building up and Fabricating an ATV(All-Terrain Vehicle) named as BAJA Vehicle                                   | 200000   |
| 9                     | Dr.P.Brindha Devi                                                   | Bio-Engineering        | Development and in-Silico Studies on Natural Inhibitors for Antibacterial Drug Discovery                                              | 150000   |
| 10                    | Ms.Josline Elsa Joseph (PI),<br>Dr.R.J.Hemalatha (Co-PI)            | Biomedical Engineering | Computer Aided Analysis of Cognitive and Behavioural Changes in Teenagers Practising Yoga as a part of Quality Improvement Program in | 100000   |



|    |                                                    |                        |                                                                                           |        |
|----|----------------------------------------------------|------------------------|-------------------------------------------------------------------------------------------|--------|
|    |                                                    |                        | Educational Institutes                                                                    |        |
| 11 | Mr.P.Chandrasekaran                                | Biomedical Engineering | Non-invasive Diagnosis of Gastroparesis in Diabetic Patients using HR-MEGG                | 100000 |
| 12 | Dr.R.Krishnakumar (PI),<br>Mr.N.AshokBabu, (Co-PI) | EEE                    | Indoor Localisation Using UWB Transceivers                                                | 50000  |
| 13 | Mr.S.Manoj (PI),<br>Dr.R.Krishnakumar (Co-PI)      | EEE                    | Design of Wireless Sensor Network Based Life Save System for Sewage and Manhole Operation | 50000  |
| 14 | Dr.E.N.Ganesh (PI),<br>Mr.S.PradeepKumar (Co-PI)   | EEE                    | Highly Secured IoT Based Health Care System for Elderly People using Body Sensor Network  | 150000 |

| School of Management Studies & Commerce |                                             |                     |                                                                                                                             |        |
|-----------------------------------------|---------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------|--------|
| 1                                       | Dr.S.Vijay<br>Dr.M.Thaiyalnayaki            | BBA                 | A Study on the Buyers Behaviour of Residential Apartments in the Emerging Real Estate Development in TamilNadu              | 150000 |
| 2                                       | Dr.G.Rajini (PI),<br>Dr.G.Madhumita (Co-PI) | MBA<br>(Integrated) | Role of Brands in Purchase of Over the Counter Medicines (OTC) Among New Age Indian Women                                   | 125000 |
| 3                                       | Dr.S.Vasantha                               | MBA                 | Determinants of Mobile Wallet Adoption and its effect on Cashless Economy                                                   | 30000  |
| 4                                       | Dr.P.Shalini                                | MBA                 | A Study on Women Empowerment                                                                                                | 50000  |
| 5                                       | Ms.R.Nisha                                  | MBA                 | Implementation of ERP in the Functional Departments of an Educational Institute                                             | 50000  |
| 6                                       | Dr.S.N.Sugumar                              | Economics           | Health Status and Academic Performance of Faculty Members in Higher Education with Special Reference to VISTAS, Chennai 117 | 75000  |

*Wah*  
2-1-2019



|   |                                                                                |     |                                                                             |        |
|---|--------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------|--------|
| 7 | Dr.P.G.Thirumagal (PI),<br>Dr.G.Madhumita(Co-PI),<br>Dr.V.Krishnapriya (Co-PI) | MBA | Impact and Awareness of Social<br>Media on Students Academic<br>Performance | 35000  |
| 8 | Dr.S.Preetha (PI)                                                              | MBA | Promotion of Solid Waste<br>Management in Gated<br>Communities in Chennai   | 125000 |

*Handwritten signature and date: 2-12-24*

**Registrar**

REGISTRAR

VELS INSTITUTE OF SCIENCE, TECHNOLOGY  
& ADVANCED STUDIES (VISTAS)

Velan Nagar, P.V. Vaithiyalingam Road,  
Pallavaram, Chennai-600 117.



# VELS



INSTITUTE OF SCIENCE, TECHNOLOGY  
& ADVANCED STUDIES (VISTAS)

(DEEMED TO BE UNIVERSITY Estd. u/s 3 OF THE UGC ACT, 1956)

**NAAC ACCREDITED**  
PALLAVARAM - CHENNAI - INDIA

## Order

Date: 02.11.2016

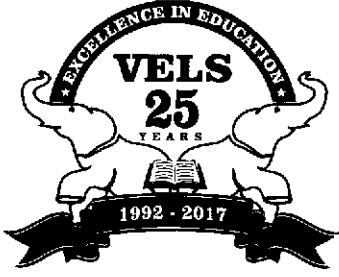
I am by direction to inform you that the management had sanctioned seed grant for Mini Research Project work for the following faculty members against their research proposal submitted. They are further, requested to carry out the respective project with immediate effect and submit the report within the stipulated time period.

| Sl.No. | Name of the Faculty   | Department             | Title of the Project                                       | Amount Sanctioned |
|--------|-----------------------|------------------------|------------------------------------------------------------|-------------------|
| 1      | Dr. R. Anandan        | CSE                    | Robosect                                                   | 200000            |
| 2      | Dr. R. Anandan        | CSE                    | Safelet                                                    | 200000            |
| 3      | Dr. S. Sathesh Kumar  | Pharmacy               | Development of Nano drug delivery system for Brain disease | 200000            |
| 4      | Dr. S. Arun           | CSE                    | AI based navigation system                                 | 200000            |
| 5      | Dr. V. Vanitha        | Biochemistry           | Assessment of Anticancer potential of Annona reticulate    | 200000            |
| 6      | Dr. M. Chandrasekaran | Mechanical Engineering | Design of Twin crown piston                                | 200000            |
| Total  |                       |                        |                                                            | 12,00,000/-       |

  
Registrar 2 11 2016

Copy To :  
1. Principal Investigators, Vels University, Chennai  
2. Chief Finance Officer, Vels University, Chennai  
3. Dean/ Directors/ HOD's

**Registrar**  
Vels Institute of Science, Technology  
& Advanced Studies (VISTAS)  
Pallavaram, Chennai - 600 117.



# VELS

INSTITUTE OF SCIENCE, TECHNOLOGY  
& ADVANCED STUDIES (VISTAS)



வேல்ஸ் அறிவியல் தொழில்நுட்ப உயர் ஆராய்ச்சி நிறுவனம்  
(DEEMED TO BE UNIVERSITY Estd. u/s 3 OF THE UGC ACT, 1956)

**NAAC ACCREDITED**  
PALLAVARAM - CHENNAI - INDIA

**Dr. A.R.VEERAMANI,**  
M.A(Eco.), M.A(Pol. Sci.), B.L., M.Phil., Ph.D.,  
REGISTRAR

02.01.2018

To

Dr.R.A.Kalaivani  
Director, School of Basic Sciences,  
VISTAS

Respected Sir,

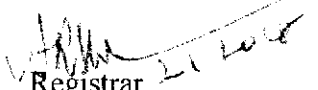
Sub: Mini Project Proposal on “Development of thermoelectric material for waste heat recovery”- sanction order – Reg  
Ref : Your letter dated 21/12/2017

\*\*\*\*\*

With reference to the letter cited, I am by direction to inform you that a sum of Rs. 150000/- (Rupees One Lakh and Fifty Thousand only) has been sanctioned towards Mini Project Proposal on “Development of thermoelectric material for waste heat recovery” with effect from 02.01.2018. You are requested to carry out the research work and submit the report within one year from the date of this sanction order and follow the rules and regulation of VISTAS.

Thanking you,

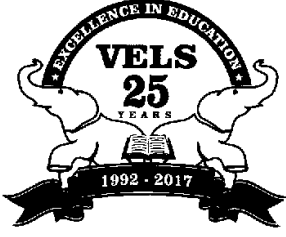
Yours faithfully,

  
Registrar

CC : Finance Section

Velan Nagar, P.V. Vaithiyalingam Road, Pallavaram, Chennai - 600 117, INDIA  
Phone: (91-44) 2266 2500, 2266 2501, 2266 2502, 2266 2503 Fax : (91-44) 2266 2513  
E-mail: vistas@velsuniv.ac.in Website: www.velsuniv.ac.in  
Admin. Office: 521/2, Anna Salai, Nandanam, Chennai - 600 035. Tele Fax : 2431 5541 / 2431 5542

o/c



# VELS

INSTITUTE OF SCIENCE, TECHNOLOGY  
& ADVANCED STUDIES (VISTAS)



வேல்ஸ் அறிவியல் தொழில்நுட்ப உயர் ஆராய்ச்சி நிறுவனம்  
(DEEMED TO BE UNIVERSITY Estd. u/s 3 OF THE UGC ACT, 1956)

**NAAC ACCREDITED**

**PALLAVARAM - CHENNAI - INDIA**

**Dr. A.R.VEERAMANI,**  
M.A(Eco.), M.A(Pol. Sci.), B.L., M.Phil., Ph.D.,  
**REGISTRAR**

### ORDER

Date : 02/01/2018

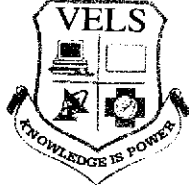
I am by direction to inform you that the management had sanctioned Seed grant for Mini Research Project work for the following faculty members against their research Proposal Submitted. They are further, requested to carry out the respective project with immediate effect and submit the report within the stipulated time period.

| S.No | Name of the Faculty    | Department    | Title of the Project                                                             | Amount Sanctioned (Rs) |
|------|------------------------|---------------|----------------------------------------------------------------------------------|------------------------|
| 1    | Dr.N.K.Udya<br>Prakash | Biotechnology | Development of Nanosensor for detection of Airborne ammonia                      | 150000                 |
| 2    | Dr.K.G.Priya           | Biochemsitry  | Anti inflammatory and Antioxidant Potential of Caryota Urens : an in Vitro Study | 100000                 |
| 3    | Dr.K.Kalaiselvi        | CSE           | Mobile Tracking System for Preventing the Propogation of Feminine Victim         | 100000                 |

  
Registrar 21/01/18

Copy to : The Principal Investigator, VISTAS Chennai  
Chief Finance Officer, VISTAS Chennai  
Dean / HOD / Director VISTAS Chennai





# VELS UNIVERSITY

CHENNAI - INDIA



VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS)  
Estd. u/s. 3 of the UGC Act. 1956 ACCREDITED BY NAAC

**Dr. B.KRISHNAMURTHY, M.A., Ph.D.,  
REGISTRAR**

05.04.2016

To

Dr.A.M.Shanmugharaj  
Senior Scientist,  
VISTAS

Respected Sir,

Sub: Mini Project Proposal on **“AKT signaling pathway studies on methotrexate and anticancer potential of agel Marmelosa ”**- sanction order – Reg.  
Ref : Your letter dated 30.03.2016.

\*\*\*\*\*

With reference to the letter cited, I am by direction to inform you that a sum of Rs. 200000/- (Rupees Two Lakhs only) has been sanctioned towards Mini Project Proposal on **“AKT signaling pathway studies on methotrexate and anticancer potential of agel Marmelosa”** with effect from 05.04.2016. You are requested to carry out the research work and submit the report within one year from the date of this sanction order and follow the rules and regulation of VISTAS.

Thanking you,

Yours faithfully,

  
Registrar

CC : Finance Section

**REGISTRAR  
VELS UNIVERSITY  
(VISTAS)**  
Velan Nagar,  
P.V. Vaithiyalingam Road,  
Pallavaram, Chennai - 600 117

Velan Nagar, P.V. Vaithiyalingam Road, Pallavaram, Chennai - 600 117, INDIA

Phone : (91-44) 226 2500 / 2501 / 2502 / 2503 Extn. 137, Fax : (91-44) 2266 2513

E-mail : [vistas@velsuniv.org](mailto:vistas@velsuniv.org) Website : [www.velsuniv.ac.in](http://www.velsuniv.ac.in)

Admn. Office : 521/2, Anna Salai, Nandanam, Chennai - 600 035. Tele Fax : 2431 5514 / 2431 5542

o/c



# VELS UNIVERSITY



**PALLAVARAM - CHENNAI - INDIA**

VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)  
(Deemed to be University Estd. u/s 3 of the UGC Act, 1956)


## Order

Date: 05-04-2016

I am by direction to inform you that the management had sanctioned seed grant for Mini Research Project work for the following faculty members against their research proposal submitted. They are further, requested to carry out the respective project with immediate effect and submit the report within the stipulated time period.

| Sl.No. | Name of the Faculty        | Department         | Title of the Project                          | Amount Sanctioned |
|--------|----------------------------|--------------------|-----------------------------------------------|-------------------|
| 1      | Dr.Vasantha and Ms.S.Deepa | Management studies | Challenges in Financial Inclusion             | 260000            |
| 2      | Ms.S.Preetha               | Management studies | Corporate Social Responsibility               | 2,00,000          |
| 3      | Dr.R.A.Kalaivanai          | Chemistry          | Conversion of waste plastics into graphene    | 2,00,000          |
| 4      | Dr. Vanitha                | Biochemistry       | Anticancer potential of Agel Marmelosa        | 2,00,000          |
| 5      | Dr. T. S. Shanmugarajan    | Pharmacy           | AKT signaling pathway studies on methotrexate | 2,00,000          |

Copy To :  
1. Principal Investigators, Vels University, Chennai  
2. Chief Finance Officer, Vels University, Chennai  
3. Dean/ Directors/ HOD's

  
REGISTRAR  
VELS UNIVERSITY  
(VISTAS)  
Velan Nagar,  
P.V. Vaithiyalingam Road,  
Pallavaram, Chennai-600 117



**VELS**  
**UNIVERSITY**



VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES [VISTAS]

(Deemed to be University Estd. u/s. 3 of the USG Act, 1956)

**NAAC ACCREDITED**  
**PALLAVARAM - CHENNAI - INDIA**

Date: 02-11-2016

To

Dr.M.Chandrasekaran  
Professor & Director  
Department of Mechanical Engineering  
VELS UNIVERSITY

Sir,

Sub: Mini Project Proposal on “Design of Twin Crown Piston”- sanction order – Reg.  
Ref : Your letter dated 26-10-2016

\*\*\*\*\*

With reference to the letter cited, I am by direction to inform you that a sum of Rs. 200000/- (Rupees Two Lakhs only) has been sanctioned towards Mini Project Proposal on “Design of Twin Crown Piston” with effect from 02.11.2016. You are requested to carry out the research work and submit the report within one year from the date of this sanction order and follow the rules and regulation of VELS UNIVERSITY.

Thanking You.

Yours faithfully,

*Handwritten signature*  
24/11/16

Registrar  
Registrar

Vels Institute of Science, Technology  
& Advanced Studies (VISTAS)  
Pallavaram, Chennai - 600 117.

CC to : Finance Section

Velan Nagar, P.V. Vaithiyalingam Road, Pallavaram, Chennai - 600 117, INDIA

Phone: (91-44) 2266 2500, 2266 2501, 2266 2502, 2266 2503 Fax : (91-44) 2266 2513

E-mail : vitas@velsuniv.ac.in Website: www.velsuniv.ac.in

Admin. Office : 521/2, Anna Salai, Nandanam, Chennai - 600 035. Tele Fax : 2431 5541 / 2431 5542

olc



தமிழ்நாடு அறிவியல் தொழில்நுட்ப மாநில மன்றம்  
**TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY**

(Established by Government of Tamilnadu)

Directorate of Technical Education Campus, Chennai – 600 025.

Ph : 044-22301428, Telefax : 044-22301552 [www.tanscst.nic.in](http://www.tanscst.nic.in)

Dr.R.SRINIVASAN, M.Sc., Ph.D., F.I.C.S., M.A.C.S.(USA),  
 Member Secretary

Lr.No.TNSCST/SPS/AR/2019-2020

To

The Registrar

Vels Institute of Science, Technology and Advanced Studies (VISTAS)  
 Pallavaram, Chennai -600 117



Sir/Madam,

Sub: TNSCST – Student Project Scheme – 2019-2020 – approval  
 intimation–grant release- reg.

With respect to the above scheme, the list of projects approved by the State Council is enclosed along with terms and conditions. You are requested to adhere to terms and conditions such as submission of UC and Seminar Paper in Time.

Herewith enclosed the cheque for the approved grant and disburse the grant to the concerned students through the guides at the earliest

Kindly send the utilisation certificate (format enclosed) and seminar paper (ref.T&C-no.5&6) on completion of the project.

Thanking you,

Yours faithfully,

*[Handwritten Signature]*  
 20/3/20  
 Member Secretary.

- Encl: a) Terms & Conditions (T&C)  
 b) Format of Utilisation Certificate (UC)  
 c) Cheque for Rs.22500/- No: 946156 dt. 20.03.2020

Copy to: Individual Guides



354. Vels Institute of Science Technology and Advanced Studies (VISTAS) (3) – 22,500/-

|                                                                                                                                                                                          |                                                                                                                    |                                         |             |                                                                                                                              |        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------|--------|
| Mr. K. V. Sabarish<br>Assistant Professor<br>Dept. of Civil Engineering<br>Vels Institute of Science<br>Technology and Advanced<br>Studies (VISTAS)<br>Pallavaram,<br>Chennai - 600 117  | An Experimental Investigation<br>on Low Calcium Fly Ash Based<br>Geopolymer Concrete in<br>Strength and Durability | M. Rahul<br>Vigneshwaran<br>G. Harinath | ECV-<br>036 | The registrar<br>Vels Institute of Science<br>Technology and Advanced<br>Studies (VISTAS)<br>Pallavaram, Chennai - 600 117   | 7500/- |
| Ms. A. Keerthana<br>Asst. Professor<br>Dept. of Biomedical<br>Engineering<br>Vels Institute of Science<br>Technology and Advanced<br>Studies (VISTAS)<br>Pallavaram<br>Chennai - 600 117 | Design and development of 3D<br>printed prosthetic socket for<br>lower limb amputees                               | Jenkins Albert.A                        | EEE-<br>077 | The registrar<br>Vels Institute of Science<br>Technology and Advanced<br>Studies (VISTAS)<br>Pallavaram<br>Chennai - 600 117 | 7500/- |
| Dr. R.A. Kalaivani<br>Director<br>Dept. of Chemistry<br>Vels Institute of Science,<br>Technology and Advanced<br>Studies (VISTAS)<br>Pallavaram,<br>Chennai -600 117                     | Synthesis and Characterization<br>of Nickel Rich Layer Cathodes<br>for High Energy Density Li-ion<br>Batteries     | Meera<br>Michael Benadict<br>S. Surya   | PS-060      | The registrar<br>Vels Institute of Science,<br>Technology and Advanced<br>Studies (VISTAS)<br>Pallavaram, Chennai -600 117   | 7500/- |

**DST/TMD/MES/2K18/139(G)**  
Government of India  
Ministry of Science and Technology  
Department of Science and Technology

Technology Bhavan  
New Mehrauli Road  
New Delhi-110 016  
Date: 17.06.2019

**Sanction Order**

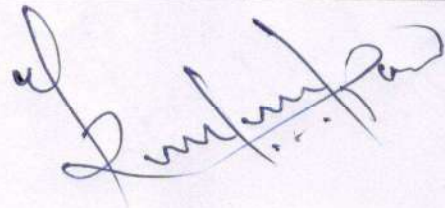
Subject: Financial support for project entitled “Mitigating Dendrite Growth using Engineered Electrolyte Layers for the Development of High Energy Density, Long Cycle Life Lithium Batteries” submitted by Dr. A. M. Shanmugaraj, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai.

Sanction of the President is hereby accorded to the approval of the above mentioned project at a total cost of **Rs. 64, 43,608/- (Rupees Sixty four Lakh Forty three Thousand Six hundred Eight only)** for a duration of 3 years. The detailed breakup of the grant for General as well as Capital Components is given below:-

General Component: Rs. 59, 43, 608/-

Capital Component: Rs. 5, 00,000/-

| S. NO     | Item Head                                           | 1 <sup>st</sup> Year (Rs. in Lakhs) | 2 <sup>nd</sup> Year (Rs. in Lakhs) | 3 <sup>rd</sup> Year (Rs. in Lakhs) | Total (Rs. in Lakhs) |
|-----------|-----------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|----------------------|
| <b>A.</b> | <b>Non-recurring(Capital Items)</b>                 |                                     |                                     |                                     |                      |
| 1.        | Permanent Equipment's                               |                                     |                                     |                                     |                      |
| 2.        | Plant cost/Fabricated systems /Demonstration models |                                     |                                     | 5,00,000                            | 5,00,000             |
|           | <i>Subtotal (capital items)</i>                     |                                     |                                     | <b>5,00,000</b>                     | <b>5,00,000</b>      |
| <b>B</b>  | <b>Recurring Items (General)</b>                    |                                     |                                     |                                     |                      |
| 1.        | Manpower                                            | 8,77,920                            | 8,77,920                            | 9,37,440                            | 26,93,280            |
| 2.        | Consumables                                         | 8,10,000                            | 7,6,000                             | 6,70,000                            | 22,40,000            |
| 3         | Contingencies                                       | 50,000                              | 50,000                              | 50,000                              | 1,50,000             |
| 4.        | Travel                                              | 50,000                              | 50,000                              | 50,000                              | 1,50,000             |
| 5.        | Other Costs(Outsource work etc.),if any             | 70,000                              | 50,000                              | 50,000                              | 1,70,000             |
|           | Institute Overhead (10 %)                           | 1,85,792                            | 1,78,792                            | 1,75,744                            | 5,40,328             |
|           | Subtotal (General)                                  | 20,43,712                           | 19,66,712                           | 19,33,184                           | 59,43,608            |
| <b>C</b>  | <b>Total cost of the project (A+B)</b>              | <b>20,43,712</b>                    | <b>19,66,712</b>                    | <b>24,33,184</b>                    | <b>64,43,608</b>     |





2. The sanction of the President is also accorded to the release of **Rs. 20,43,712/- (Rupees Twenty lakh Forty Three Thousand Seven Hundred and Twelve Only) to Vels Institute of Science, Technology and Advanced Studies (VISTAS)** being the first installment of grant under "General Components" for implementation of the above mentioned project.
3. This Sanction is subject to the conditions that the grantee organization will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the Proforma prescribed as per GFR 2017 and audited statement of expenditure (SF) along with up to date progress report at the end of each financial year duly reflecting the interest earned / accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.
4. The grantee organization will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final installment will be released only after confirmation of the acceptance of the UC by the Division and the entry of previous Utilization Certificate in the PFMS.
5. If the grant has been released under the capital head through separate sanction order under the same project for purchase of equipment(s), separate SE/UC has to be furnished for the released Capital head grant.
6. The grant-in-aid being released is subject to the condition that
  - (a) A transparent procurement procedure in the line with the Provisions of General Financial Rules 2017 will be followed by the institute /Organization under the appropriate rules of the grantee organization while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organization immediately on receipt of the grant.
  - (b) While submitting Utilisation Certificate/Statement of Expenditure, the organization has to ensure submission of supporting documentary evidences with regards to purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.
7. The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. For grants released during FY 2019-20 and onwards, all interests and other earnings, against released grant shall be remitted to Consolidated fund of India (through Non-tax Receipt Portal (NTRP), i.e. [www.Bharatkosh.gov.in](http://www.Bharatkosh.gov.in), immediately after the finalization of accounts, as it shall not be adjusted towards future release of grant. A certificate to this effect shall have to submit along with Statement of Expenditure/ Utilization Certificate for considering subsequent release of grant/closure of project accounts.
8. DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.
9. In case the scheme provides for payments of honorarium / remuneration /fellowship /scholarship to the PI, a para may suitably be incorporated in the DSO to the effect that "PI is not drawing any emoluments/salary/fellowship from any other project either supported by DST or by any other funding agency.





10. The account of the grantee organization shall be open to inspection by the sanctioning authority and audit (both by C&AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organization is called upon to do so, as laid down under rule 236(1) of General Financial Rules 2017.

11. Due acknowledgement of technical support/ financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organization in bold letters in all publications/media releases as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.

12. Failure to comply with the terms and conditions of the Bond will entail full refund with interest in terms of Rule 231(2) of GFR 2017.

13. The expenditure involved is debitable to Demand No.84, Department of science & Technology for the year 2019-20:

|          |                                                                                               |
|----------|-----------------------------------------------------------------------------------------------|
| 3425     | Other Scientific Research (Major Head)                                                        |
| 60       | Other                                                                                         |
| 60.200   | Assistance to other scientific bodies (Minor head)                                            |
| 70       | Innovation, Technology Development and Deployment                                             |
| 70.00.31 | Grants-in-aid General for the year 2019-20 (CEMI)<br>(Previous: TDP-TMD-3425.60.200.26.01.31) |

14. The amount of **Rs. 20, 43,712/- (Rupees Twenty lakh Forty Three Thousand Seven Hundred and Twelve Only)** will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to **Vels Institute of Science, Technology and Advanced Studies (VISTAS)**. The bank details for electronic transfer of funds through RTGS are given below.

1. Name of the Account Holder: - Vels Institute of Science, Technology and Advanced studies
2. Name of the Bank: - Axis Bank, Madipakam Branch
3. Bank Account Number: - 911010014364240
4. IFSC Code: - UTIB0000083
5. MICR Code: - 600211007

15. As per Rule 234 of GFR 2017, this sanction has been entered at S.No. <sup>49</sup>..... In the register of grants of grants maintained in the Division for the scheme (TMD).

16. This issues with the concurrence of IFD Vide their Concurrence Dy. No. 940 dated the 11.06.2019.

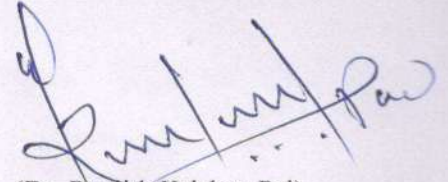
17. It is important that the information and knowledge generated through the use of these funds are made publicly available as soon as possible. In order to achieve the aforementioned objectives, each institution is encouraged to set up its own inter-operable institutional open access repository ("IR") for its research papers and review articles published in peer reviewed journals. The Ministry of Science and Technology has set up a central harvester ([www.sciencecentral.in](http://www.sciencecentral.in)) that will harvest the full text and metadata of these publications. Kindly update the findings accordingly.

18. Sanction of the grant is subject to the conditions as detailed in **Annexure-1**. The acceptance of the grant will automatically imply acceptance of DST's term and conditions of the grant. The project would be monitored by a monitoring Committee appointed by Department of Science and Technology, Govt. of India. The project team ensure that legacy functional arrangement shall be put in place during the execution of project with institution/local bodies etc so that



equipment/system can be maintained after the end of project period without DST support. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and benefits to the staff employed in the project etc. The Principal Investigator of the project has to ensure of obtaining the statutory clearances required for execution of the project

19. Darpan ID. TN/2017/0150628



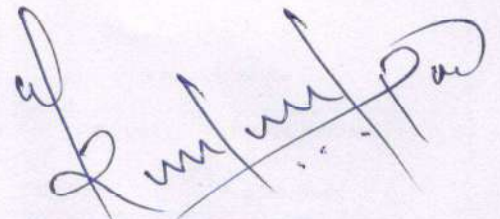
(Dr. Ranjith Krishna Pai)  
Scientist 'D'

To

The Pay and Accounts Officer,  
Department of Science & Technology,  
New Delhi

Copy for information and necessary action to:

1. Cash Section (3 copies), DST, New Delhi--for preparing the bill and remitting the amount to the grantee
2. Accounts Section, DST, New Delhi, 3. IFD, DST, New Delhi.
3. Director of Audit (CW & M-II), AGCR Building, IP Estate, New Delhi.
4. **Dr. A. M. Shanmugaraj**  
Associate Professor/Senior Scientist,  
Centre for Energy and Alternative Fuels/Chemistry  
Vels Institute of Science, Technology and Advanced Studies (VISTAS),  
Pallavaram, Chennai- 6001175.
5. Sanction folder
6. Office Copy
7. Head- TMD
8. FICCI Cell



(Dr. Ranjith Krishna Pai)  
Scientist 'D'



F. No. DST/NSTMIS/05/297/2017-18  
Government of India  
Ministry of Science and Technology  
Department of Science and Technology

Technology Bhawan  
New Mehrauli Road  
New Delhi-110016  
Dated: 31.08.2020

To,

The Pay and Accounts Officer,  
Department of Science & Technology,  
New Delhi - 110 016.

**ORDER**

**Sub:** Release of First Instalment of grant to the project entitled "Development and Evaluation of Gamification as a Strategic Selection Tool for India's S&T based Sector" by Dr. Rajini G., Professor & Head, School of Management Studies and Commerce, Vels Institute of Science Technology and Advanced Studies, P.V. Vaithiyalingam Road, Pallavaram, Chennai - 600 117 (TN)

Sanction of the President is hereby accorded to the approval of the above mentioned project at a total cost of Rs. 24,01,920/- (Rupees twenty four lakhs one thousand nine hundred twenty only) for a duration of 36 months. The items of expenditure for which the total allocation of Rs. 24,01,920/- (Rupees twenty four lakhs one thousand nine hundred twenty only) has been approved are as under:-

| S. No. | Item                                                                      | 1 <sup>st</sup> Year | 2 <sup>nd</sup> Year | 3 <sup>rd</sup> Year | Total            |
|--------|---------------------------------------------------------------------------|----------------------|----------------------|----------------------|------------------|
| 1.     | Fellowship:<br>Two Project Assistants @ Rs. 22,000/- pm<br>(consolidated) | 5,28,000             | 5,28,000             | 5,28,000             | 15,84,000        |
| 2.     | Consumables                                                               | 50,000               | 50,000               | 50,000               | 1,50,000         |
| 3.     | Other costs (including LPAC meeting)                                      | 70,000               | 60,000               | 60,000               | 1,90,000         |
| 4.     | Travel                                                                    | 1,00,000             | 1,00,000             | 1,00,000             | 3,00,000         |
|        | <b>Total - A</b>                                                          | <b>7,48,000</b>      | <b>7,38,000</b>      | <b>7,38,000</b>      | <b>22,24,000</b> |
| 6.     | Overhead @ 8% - B                                                         | 59,840               | 59,040               | 59,040               | 1,77,920         |
|        | <b>Grand Total (A+B)</b>                                                  | <b>8,07,840</b>      | <b>7,97,040</b>      | <b>7,97,040</b>      | <b>24,01,920</b> |

2. Sanction of the President is hereby accorded to the payment of Rs. 8,07,840/- (Rupees eight lakhs seven thousand eight hundred forty only) as a First instalment of grant to the above mentioned project.

3. The sanction of the President is also accorded to the release of Rs. 8,07,840/- (Rupees eight lakhs seven thousand eight hundred forty only) to the **Registrar, Vels Institute of Science Technology and Advanced Studies, P.V. Vaithiyalingam Road, Pallavaram, Chennai - 600117 (TN)** for implementation of the said project.

4. This sanction is subject to the condition that the grantee organisation will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report at the end of each financial year duly reflecting the interest earned / accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.

5. The grantee organisation will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final instalment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.

6. If the grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate SE/UC has to be furnished for the released Capital head grant.



7. The grant-in-aid being released is subject to the condition that
- a transparent procurement procedure in line with the Provisions of General Financial Rules 2017 will be followed by the Institute/Organisation under the appropriate rules of the grantee organisation while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organisation immediately on receipt of the grant:
  - While submitting Utilisation Certificate/Statement of Expenditure, the organisation has to ensure submission of supporting documentary evidences with regard to purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.
8. The goods (consumables/equipment) as available in GeM Portal are to be mandatorily procured through GeM only.
9. The grantee organisation will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. For grants released during F. Y. 2017-18 and onwards, all interests and other earnings against released Grant shall be remitted to the Consolidated Fund of India (through Non-Tax Receipt Portal (NTRP), i.e. [www.bharatkosh.gov.in](http://www.bharatkosh.gov.in)), immediately after finalisation of accounts, as it shall not be adjusted towards future release of Grant. A certificate to this effect shall have to be submitted along with Statement of Expenditure/Utilisation Certificate for considering subsequent release of Grant/closure of Project accounts."
10. Vels Institute of Science Technology and Advanced Studies, Chennai agrees to make reservations for Scheduled Castes and Scheduled Tribes or OBC in the posts or services under its control on the lines indicated by the Government of India". (ii) While sanctioning Grants-in-Aid to Institutions or Organisations referred to in (a) above, the Grant sanctioning authority should keep in view the progress made by such Institutions or Organisations in employing Scheduled Castes and Schedules Tribes or OBC candidates in their services and also as per the GFR 2017 Rule 230(17).
11. DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.
12. **PI/ Coordinator shall not draw any emoluments/ salary/fellowship from any other project either supported by DST or by any other funding agency for this project.**
13. The account of the grantee organisation shall be open to inspection by the sanctioning authority and audit (both by C&AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organisation is called upon to do so, as laid down under Rule 236(1) of General Financial Rules 2017.
14. Due acknowledgement of technical support / financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organisation in bold letters in all publications / media releases as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.
15. Failure to comply with the terms and conditions of the Bond will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.
16. The expenditure involved is debitable to Demand No.87, Department of Science & Technology for the year 2020-21:

|          |                                                                                                              |
|----------|--------------------------------------------------------------------------------------------------------------|
| 3425     | Other Scientific Research (Major Head)                                                                       |
| 60       | Others (Sub-major Head)                                                                                      |
| 60.200   | Assistance to other Scientific Bodies (Minor Head)                                                           |
| 68       | Science & Technology Institutional and Human Capacity Building                                               |
| 04       | Other Programmes                                                                                             |
| 68.04.31 | Grant-in-aid General for the year 2020-2021 (Voted)<br>(Previous: Policy Research Cell 3425.60.200.68.00.31) |

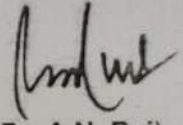
17. The amount of Rs. 8,07,840/- (Rupees eight lakhs seven thousand eight hundred forty only) to the Registrar, Vels Institute of Science Technology and Advanced Studies, P.V. Vaithiyalingam Road, Pallavaram, Chennai – 600117 (TN). The bank details for electronic transfer of funds through RTGS are given below:-

Account holder : VELS INSTITUTE OF SCIENCE TECHNOLOGY and ADVANCED STUDIES  
Name of the Bank : AXIS Bank  
Branch : Madipakkam, Chennai  
Account No. : 911010014364240  
IFSC Code : UTIB0000083

18. Continuation of the project beyond 31<sup>st</sup> March 2021 will be subject to appraisal and approval of the continuation of the Umbrella Scheme "Institutional and Human Capacity Building" under which the project is funded.

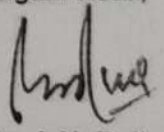
19. As per Rule 234 of GFR 2017, this sanction has been entered at S. No. **23** (E File No. 26776) in the register of grants maintained in the Division for the scheme (Science & Technology Institutional and Human Capacity Building).

20. This issues with the concurrence of IFD *vide* their Concurrence Dy. No. C/1698/IFD/2020-21 dated 28.08.2020.

  
(Dr. A.N. Rai)  
Scientist 'G'

Copy forwarded for information and necessary action to:

1. Director of Audit (CW&M), Indraprastha Estate, AGCR Building, New Delhi – 110 002.
2. Cash Section (Three copies including original one).
3. IFD
4. Dr. Rajini G. (PI), Professor & Head, School of Management Studies and Commerce, Vels Institute of Science Technology and Advanced Studies, P.V. Vaithiyalingam Road, Pallavaram, Chennai – 600117 (TN).  
*A format for submitting statement of expenditure and utilization certificate and terms and conditions of the grant may be downloaded from [www.nstmis-dst.org](http://www.nstmis-dst.org) Progress report on quarterly basis should e sent to this department.*
5. The Registrar, Vels Institute of Science Technology and Advanced Studies, P.V. Vaithiyalingam Road, Pallavaram, Chennai – 600117 (TN)
6. Sanction Folder/File.

  
(Dr. A.N. Rai)  
Scientist-'G'



FILE NO. TAR/2018/001114  
**SCIENCE & ENGINEERING RESEARCH BOARD(SERB)**  
(A statutory body of the Department of Science & Technology, government of India)

5 & 5A, Lower Ground Floor  
Vasant Square Mall  
Plot No. A, Community Centre  
Sector-B, Pocket-5, Vasant Kunj  
New Delhi-110070

Dated: 20-May-2019

**ORDER**

Subject: Financial Sanction under Teachers Associateship for Research Excellence (TARE) to **Ms. KEERTHANA ARULDOSS, VELS Institute Of Science, Technology & Advanced Studies (VISTAS), Velan Nagar, Pallavaram, Meenambakkam, TAMIL NADU-600043**- under the mentorship of Dr.G.Saraswathy, at **Central Leather Research Institute Sardar Patel Road, Adyar, Chennai - 600020**- Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned grant at a total cost of **Rs. 18,30,000/-** (Rs. Eighteen Lakh Thirty Thousand **Only**) for a duration of 36 months.

The date of start of the project will be 28 March, 2019. The items of expenditure for which the total allocation of **Rs. 18,30,000/-** has been approved are given below:

The following budget is proposed for

**VELS Institute Of Science, Technology & Advanced Studies (VISTAS), Velan Nagar, Pallavaram, Meenambakkam, TAMIL NADU-600043 (Parent)**

| Sl. No. | Budget Head    | Amount                                 |
|---------|----------------|----------------------------------------|
| 1.      | Fellowship     | Rs. 0 ( @0/- per month (consolidated)) |
| 2.      | Research Grant | Rs. 2,50,000/- per annum               |
| 3.      | Overheads      | Rs. 25,000/- per annum                 |

**Central Leather Research Institute Sardar Patel Road, Adyar, Chennai - 600020 (Host)**

| Sl. No. | Budget Head    | Amount                                                                                       |
|---------|----------------|----------------------------------------------------------------------------------------------|
| 1.      | Fellowship     | Rs. 60,000 ( on completion of 90 days mandatory attendance in the host institute every year) |
| 2.      | Research Grant | Rs. 2,50,000/- per annum                                                                     |
| 3.      | Overheads      | Rs. 25,000/- per annum                                                                       |

2. Sanction of the **SERB** is also accorded to the payment of **Rs. 2,75,000/-** (Rupees Two Lakh Seventy Five Thousand only) to **VELS Institute Of Science, Technology & Advanced Studies (VISTAS), Velan Nagar, Pallavaram, Meenambakkam, Rs. 3,35,000/-** (Rupees Three Lakh Thirty Five Thousand only) to **Central Leather Research Institute Sardar Patel Road, Adyar, Chennai - 600020** being the first installment of the grant for the year 2019-2020 for implementation of the said research project.

3. The expenditure involved is debitable to

**Fund for Science & Engineering Research (FSER)**

**This release is being made under Teachers Associateship For Research Excellence (TARE). (Mechanical & Manufacturing Engineering & Robotics)**

4. The Sanction has been issued with the approval of the competent authority vide Diary No. **SERB/F/612/2019-2020** dated **17 May, 2019**

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://www.serb.gov.in)).

6. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.



7. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

8. The release amount of Rs. 2,75,000/- (Rupees Two Lakh Seventy Five Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

|                                    |                                                                                  |
|------------------------------------|----------------------------------------------------------------------------------|
| Account Name                       | VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES                       |
| Account Number                     | 911010014364240                                                                  |
| Bank Name & Branch                 | AXIS BANK MADIPAKAM, CHENNAI, NO-2, MEDAVAKKAM HIGH ROAD, MADIPAKKAM, CHENNAI-91 |
| IFSC/RTGS Code                     | UTIB0000083                                                                      |
| Email address of PI                | keerthana0792@gmail.com                                                          |
| Email id of A/C Holder             | registrar@velsuniv.ac.in                                                         |
| Email address of concerned officer | ms_tare@serbonline.in                                                            |

The release amount of Rs. 3,35,000/- (Rupees Three Lakh Thirty Five Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

|                                    |                                                                                                                |
|------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Account Name                       | CENTRAL LEATHER RESEARCH INSTITUTE                                                                             |
| Account Number                     | 30225127043                                                                                                    |
| Bank Name & Branch                 | STATE BANK OF INDIA SME BRANCH, STATE BANK OF INDIA , NO.5 1ST CROSS ST, KASTURBA NAGAR, ADYAR, CHENNAI-600020 |
| IFSC/RTGS Code                     | SBIN0013361                                                                                                    |
| Email address of PI                | keerthana0792@gmail.com                                                                                        |
| Email id of A/C Holder             | director@clri.res.in                                                                                           |
| Email address of concerned officer | ms_tare@serbonline.in                                                                                          |

9. Both the institutes will furnish Utilization certificate (UCs) financial year wise to the SERB and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

10. The institute will maintain separate audited accounts for the fellowship. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.


11. The File no. TAR/2018/001114 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

12. As this is the first grant for the fellowship, no previous U/C is required.

13. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.

14. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board, a statutory body of the Department of Science & Technology (DST), Government of India should invariably be highlighted/acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.


15. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the Science & Engineering Research Board, a statutory body of Department of Science & Technology (DST), Government of India.

  
(Dr. T Thangaradjou)  
Scientist E  
ms\_tare@serbonline.in

To,  
Under Secretary  
SERB, New Delhi

Copy forwarded for information and necessary action to: -

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | The Principal Director of Audit, A.G.C.R.Building, IIIrd Floor I.P. Estate, Delhi-110002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2. | Sanction Folder, SERB , New Delhi.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3. | File Copy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 4. | <p>(i) Ms. KEERTHANA ARULDOSS<br/>Biomedical Engineering<br/>VELS Institute of Science, Technology &amp; Advanced Studies (VISTAS) , Velan Nagar,<br/>Pallavaram, Meenambakkam, TAMIL NADU-600043<br/>Email: keerthana0792@gmail.com<br/>Mobile: 919840194837</p> <p>(ii) Dr.G.Saraswathy<br/>Central Leather Research Institute Sardar Patel Road, Adyar, Chennai - 600020</p> <p>(Start date of the project may be intimated by name to the undersigned. For guidance, terms &amp; Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a>.)</p> |
| 5. | <p>(i) REGISTRAR,<br/>VELS Institute Of Science, Technology &amp; Advanced Studies (VISTAS), Velan Nagar,<br/>Pallavaram, Meenambakkam</p> <p>(ii) THE DIRECTOR<br/>Central Leather Research Institute Sardar Patel Road, Adyar, Chennai - 600020</p> <p>(Receipt of Grant may be intimated by name to the undersigned)</p>                                                                                                                                                                                                                                                  |

  
(Dr. T Thangaradjou)  
Scientist E  
ms\_tare@serbonline.in



**DST/SSTP/2018-19/401(G)**  
**E-22599**  
**Government of India**  
**Ministry of Science and Technology**  
**Department of Science and Technology**

**Technology Bhavan**  
**New Mehrauli Road**  
**New Delhi- 110 016**  
**Dated the 17.07.2019**

**ORDER**

**Subject: Financial support for the project entitled "Design a prototype configuration model for the vessel tracking system for the benefit of fishermen community and extend the configuration to the Tamil Nadu coastline from Chennai to Kanyakumari" by Dr. E. N Ganesh, Dean, School of Engineering, Vels Institute of Science, Technology & Advanced Studies, Electronics & Communication Engineering, Velan Nagar, P.V. Vaithyalingam road, Pallavaram, Chennai - 600117 - Release of the first installment regarding**

In continuation of sanction order of even number dated 31.03.2019, sanction of the President is hereby accorded for the approval of the above mentioned project at a total cost of **Rs. 99,36,800/-** (Rupees Ninety-Nine Lakh Thirty-Six Thousand Eight hundred only) with DST contribution of **Rs. 94,76,800/-** (Rupees Ninety-Four Lakh Seventy-Six Thousand Eight Hundred Only) which includes General Grant of **Rs. 53,36,800/-** and Capital grant of **Rs. 41,40,000/-** and Host Institute contribution of **Rs. 4,60,000/-** for Capital grant for a duration of 36 months along with the release of **Rs. 18,85,600/-** (Rupees Eighteen Lakh Eighty-Five Thousand Six Hundred Only) as first installment under General Component to the **Member Secretary, Tamilnadu State Council for Science and Technology (Established by Govt. of Tamilnadu), DOTE Campus, Chennai - 600 025** for onward disbursement to the **Principal, Vels Institute of Science, Technology & Advanced Studies, Electronics & Communication Engineering, Velan Nagar, P.V. Vaithyalingam road, Pallavaram, Chennai - 600117** for implementation of the project during F. Y 2019-20.

- **DST Contribution: Rs. 94,76,800/-**
- **General Component: Rs. 53,36,800/-** (Rupees Fifty-Three Lakh Thirty-Six Thousand Eight Hundred Only)
- **Capital Component: Rs. 41,40,000/-** (Rupees Forty-One Lakh Forty Thousand only)
- **Host Institute Contribution under the Capital Component: Rs. 4,60,000/-** (Rupees Four Lakh Sixty Thousand only)

**Budget Outlay**

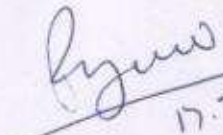
| Sl. No. | Items                         | 1 <sup>st</sup> Year | 2 <sup>nd</sup> Year | 3 <sup>rd</sup> Year | DST            | VISTAS        | Total          |
|---------|-------------------------------|----------------------|----------------------|----------------------|----------------|---------------|----------------|
|         | <b>Recurring expenses</b>     |                      |                      |                      |                |               |                |
| 1       | Salaries                      | 1215600              | 1215600              | 1215600              | 3646800        | 0             | 3646800        |
| 2       | Consumables                   | 100000               | 100000               | 100000               | 300000         | 0             | 300000         |
| 3       | Travel                        | 50000                | 50000                | 50000                | 150000         | 0             | 150000         |
| 4       | Contingency                   | 50000                | 50000                | 50000                | 150000         | 0             | 150000         |
| 5       | Other Costs                   | 300000               | 400000               | 0                    | 700000         | 0             | 700000         |
|         | <b>Sub Total (1)</b>          | <b>1715600</b>       | <b>1815600</b>       | <b>1415600</b>       | <b>4946800</b> | <b>0</b>      | <b>4946800</b> |
| 6       | Overhead expenses             | 170000               | 120000               | 100000               | 390000         | 0             | 390000         |
|         | <b>Sub Total</b>              | <b>1885600</b>       | <b>1935600</b>       | <b>1515600</b>       | <b>5336800</b> | <b>0</b>      | <b>5336800</b> |
| 7       | <b>Non Recurring expenses</b> | 540000               | 3600000              | 0                    | 4140000        | 460000        | 4600000        |
|         | <b>Grand Total</b>            | <b>2425600</b>       | <b>5535600</b>       | <b>1515600</b>       | <b>9476800</b> | <b>460000</b> | <b>9936800</b> |

**\*Salary:**

**Full time:**

1. One RA - I @ Rs. 36,000/- PM fixed + 30% HRA for 36 months (Candidate should be with PG Degree in Basic Science with NET qualification or graduate degree in Professional course with NET qualification or post graduate degree in professional course with 2 years' experience)
2. One JRF @ Rs. 25,000/- 30% HRA for 36 months (Candidate should be with PG Degree in Basic Science with NET qualification or graduate degree in Professional course with NET qualification or post graduate degree in professional course)
3. One Project Assistant/ Field Assistant @ Rs. 22,000/- (consolidated) (Candidate should have graduation in Engineering/ Medicine/ Pharma or Graduation in Science with minimum one-year experience)

Cont...2

  
17.7.2019



2. The sanction of the president is also conveyed for the Initial release of **Rs. 18,85,600/-** (Rupees Eighteen Lakh Eighty-Five Thousand Six Hundred Only) under 'General Component'.
3. This sanction is subject to the condition that the grantee organization will furnish to the Department of Science & Technology, financial year wise utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date of progress report at the end of each financial year duly reflecting the interest earned/accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.
4. The grantee organization will have to enter and upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final installment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.
5. If the grant has been released under the capital head through separate sanction order under the same project for purchase of equipment(s), separate SE/UC has to be furnished for the released Capital head grant.
6. The grant -in-aid being released is subject to the condition that:
- A transparent procurement procedure in line with the Provision of General Financial Rules 2017 will be followed by the Institute/Organization under the appropriate rules of the grantee organization while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organization immediately on receipt of the grant
  - While submitting Utilization Certificate/Statement of Expenditure, the organization has to ensure submission of supporting documentary evidences with regard to purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.
7. The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. For grants released during FY 2017-18 and onwards, all interests and other earning against released grant shall be remitted to Consolidated fund of India (through Non-Tax Receipt Portal, NTRP i.e [www.bharatkosh.gov.in](http://www.bharatkosh.gov.in)), immediately after finalization of accounts, as it shall not be adjusted towards future release of grant. A certificate to this effect shall have to be submitted along with Statement of Expenditure / Utilization Certificate for considering subsequent release of Grant/ Closure of project accounts".
8. DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.
9. In case the scheme provides for payment of honorarium/remuneration/fellowship/scholarship to the Principal Investigator, a para may be suitably be incorporated in the DSO to the effect that "PI is not drawing any emoluments/salary/fellowship from any other project either supported by DST or by any other funding agency".
10. The account of the grantee organization shall be open to inspection by the sanctioning authority and audit (both by C&AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organization is called upon to do so, as laid down under Rule 236 (1) of General Financial Rules 2017.
11. Due acknowledgment of technical support/financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organization in bold letters in all publications/media releases as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.
12. Failure to comply with the terms and conditions of the Bond will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.
13. The expenditure involved is debitable to:-  
Demand No. 84, Department of Science & Technology
- |                             |                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------|
| 3425                        | Other Scientific Research (Major Head)                                           |
| 60                          | Other (sub-major Head)                                                           |
| 60.200                      | Assistance to other Scientific Bodies (Minor Head)                               |
| 68                          | Science & Technology Institutional and Human Capacity Building                   |
| 68.00.31                    | Grant -in-aid general for the year 2019-20 (Plan Expenditure)                    |
| Budget head of F. Y 2016-17 | 3425.60.200.27.00.31 (State Science & Technology Programme Grant in Aid General) |

Cont...3

*By*  
17.7.2019



:3:

14. The amount of Rs. 18,85,600/- (Rupees Eighteen Lakh Eighty-Five Thousand Six Hundred Only) will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to the Member Secretary, Tamilnadu State Council for Science and Technology (Established by Govt. of Tamilnadu), DOTE Campus, Chennai - 600 025 for onward disbursement to the Principal, Vels Institute of Science, Technology & Advanced Studies, Electronics & Communication Engineering, Velan Nagar, P.V. Vaithyalingam road, Pallavaram, Chennai - 600117. The bank details for electronic transfer of funds through RTGS are given below:

|                    |                                                     |
|--------------------|-----------------------------------------------------|
| Name of the Agency | Tamil Nadu State Council for Science and Technology |
| Account No.        | 479135148                                           |
| Bank Name          | Indian Bank                                         |
| IFSC Code          | IDIB000D050                                         |
| MICR Code          | 600019119                                           |

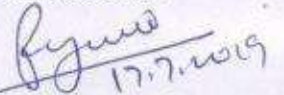
15. As per the Rule 234 of GFR 2017, this sanction has been entered at S. No. 41 in the register of grants maintained in the Division for the scheme State S&T programme.

16. This issues with the concurrence of IFD vide their Concurrence Dy. No. 1719 dated the 12.07.2019

17. PD is requested to procure consumable and permanent equipment with price implication in accordance with provision contained in GFR - 2017 as far as possible.

18. The grantee institution should also follow Rule 230(17) of GFR, 2017 concerning reservation of SC/ST/OBC, if applicable.

19. The host institute has registered itself on DARPAN Portal of NITI Aayog having Reg. No. TN/2017/0150628

  
(Er. Ravinder Gaur)  
Scientist - D  
011-26590373

The Pay and Accounts Officer  
Department of Science and Technology  
New Delhi- 110 016

Copy for information and necessary action to:

1. Cash Section (3 copies) for preparing the bill and remitting the amount to the above grantee.
2. Accounts Section, DST, New Delhi.
3. IFD, Department of Science & Technology, New Delhi.
4. Director of Audit (CW& M-II), AGCR Building, IP Estate, New Delhi.
5. The Principal, Vels Institute of Science, Technology & Advanced Studies, Electronics & Communication Engineering, Velan Nagar, P.V. Vaithyalingam road, Pallavaram, Chennai - 600117
6. Dr. E. N Ganesh, Dean, School of Engineering, Vels Institute of Science, Technology & Advanced Studies, Electronics & Communication Engineering, Velan Nagar, P.V. Vaithyalingam road, Pallavaram, Chennai - 600117 (with a request to intimate the undersigned on receipt of the funds in the bank account)
7. Office Copy
8. Sanction Folder
9. Head (TDT)

  
(Er. Ravinder Gaur)  
Scientist - D  
011-26590373





# Public Financial Management System-PFMS

(Formerly CPMS)

O/o Controller General of Accounts, Ministry of Finance

Welcome: **Ravinder Gaur**  
 User Type: **PD**  
 Financial Year: **2019-2020**



[rgaur1] Logout  
 Change Password

Help

AdhocReports

SchemeWiseContactDetails

Home

CAM Reports

Masters

Users

Agency

Sanctions

PreSanction

Sanction Custom Fields

Printing Templates

Sanction Templates

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Reports

Masters

My Schemes

Agencies

Scheme Allocation

Register/ Track Issue

Utilisation Certificate

OLD UC

## Payee Details

**Controller:** 037-SCIENCE AND TECHNOLOGY  
**Sanction Status:** Approved  
**Sanction Number:** DST/SSTP/2018-19/401(G)  
**Sanction Date:** 17/07/2019  
**Sanction Type:** Transfer (ODO Bill)  
**Sanction Amount:** 1885600  
**IFD Number:** 1719  
**IFD Date:** 12/07/2019  
**Scheme:** 1817-Science and Technology Institutional and Human Capacity Building  
**PAO:** 058296-PAO(DST), New Delhi  
**DDO:** 258297-DEPARTMENT OF SCIENCE & TECHNOLOGY (INCLUDING, NCST)  
**Remarks:** 1st installment\_General\_SSTP\_23

## Account Details:

| Grant                                      | Department (For UT Grants Only) | Function Head                                                                  | Object Head                | Category  | Amount  | External PAO | Available Budget |
|--------------------------------------------|---------------------------------|--------------------------------------------------------------------------------|----------------------------|-----------|---------|--------------|------------------|
| 084 - Department of Science and Technology |                                 | 3425602006800 - SCIENCE & TECHNOLOGY INSTITUTIONAL AND HUMAN CAPACITY BUILDING | 31 - GRANTS-IN-AID GENERAL | 5 - VOTED | 1885600 |              | 33320615         |

| Agency                                             | Bank Account No                       | Amount       | Instrument Type                       |
|----------------------------------------------------|---------------------------------------|--------------|---------------------------------------|
| Tamilnadu State Council for Science and Technology | 479135148 - Tamilnadu State Council f | 1,885,600.00 | <input checked="" type="radio"/> RTGS |

## ePayment Details

**Accredited Bank** : \* UNION BANK OF INDIA Amount : 1885600 **Not Payable Before** : \* Required

| Party Name        | IFSC Code   | Party Account No | Amount  | Payee Remarks             |
|-------------------|-------------|------------------|---------|---------------------------|
| Tamilnadu State C | IDIB000D050 | 479135148        | 1885600 | 1st installment-General23 |

Note: If the IFSC Code is not automatically shown it means bank A/C is not validated. If payment process is urgent please key in the IFSC Code and process payment. Please ensure IFSC Code is correct.

[Back](#)





Shanmugaraj AM <shanmugar.ceaf@velsuniv.ac.in>

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## NRB Project recommendation-VISTAS

4 messages

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**dnrd dnrdoff** <dnrdoff@hqr.drdo.in>  
To: shanmugar.ceaf@velsuniv.ac.in, shanmugar@gmail.com  
Cc: dhindaw@iitbbs.ac.in, sverma@hqr.drdo.in

Wed, Oct 10, 2018 at 10:54 AM

Dear PI,

NRB is glad to intimate that your proposal : “**Novel Self-Healing Polymers for High Energy Density, Long Cycle Life Lithium-ion (Li-ion)/Lithium-Sulfur (Li-S) Batteries**” is **recommended** by the Panel during the review meeting on 04 Oct 2018 as exploratory study for **one year duration** with **budget of Rs. 6 Lakhs** with funds under only contingency, travel & consumables.

You are requested to forward the hard copy of the revised proposal as per the recommendation of the panel & checklist attached herewith, **within 15 days** for sanction of the project. Soft copy (word format) may sent on NRB mail.

All the justification & Quotation needs to be provided as per the checklist.

**Regards**  
**Jai Prakash**  
**Jt. Director**

### **Naval Research Board (NRB)**

**Room No.333, DRDO Bhawan**  
**Rajaji Marg, New Delhi- 110 011.**  
**Tele: 011-23007788**  
**Email : [dnrdoff@hqr.drdo.in](mailto:dnrdoff@hqr.drdo.in)**

The contents of this Email communication are confidential to the addressee. If you are not the intended recipient you may not disclose or distribute this communication in any form should immediately contact the sender. The information, images, documents and views expressed in this Email are personal to the Sender and do not expressly or implicitly represent official positions of DRDO and no authority exists on behalf of DRDO to make any agreements, or other binding commitment by means of Email.



DST/TMD/MES/2K17/39 (G)  
Government of India  
Ministry of Science and Technology  
Department of Science and Technology

Technology Bhavan  
New Mehrauli Road  
New Delhi-110 016  
Date: 25.06.2018

Sanction Order

Subject: Financial support for project entitled "Development of high energy and high power density fuel cell supercapacitor" submitted by Dr. Raghu Subash Chandrabose, Vels Institute of Science, Technology and Advanced Studies (VISTAS) chemistry, Pallavaram, Chennai.

Sanction of the President is hereby accorded to the approval of the above mentioned project at a total cost of Rs. 66,88,000/- (Rupees Sixty six Lakh Eighty eight Thousand Only) for a duration of 2 years. The detailed breakup of the grant for General as well as Capital Components is given below:-

General Component: Rs. 31,88,000/-

Capital Component: Rs. 35,00,000/-

| S.NO | Item Head                                           | 1 <sup>st</sup> Year | 2 <sup>nd</sup> Year | Total (Rs.) |
|------|-----------------------------------------------------|----------------------|----------------------|-------------|
| A.   | Non-recurring (Capital Items)                       |                      |                      |             |
| 1.   | Permanent Equipment's                               | 32.0 lakhs           |                      | 32.0 lakhs  |
| 2.   | Plant cost/Fabricated systems /Demonstration models |                      | 3.0 lakhs            | 3.0 lakhs   |
|      | <i>Subtotal (capital items)</i>                     | 32.0 lakhs           | 3.0 lakhs            | 35.0 lakhs  |
| B.   | Recurring Items (General)                           |                      |                      |             |
| 1.   | Manpower                                            | 3.90 Lakhs           | 3.90 Lakhs           | 7.8 Lakhs   |
| 2.   | Consumables                                         | 8.00 Lakhs           | 7.00 Lakhs           | 15.00 Lakhs |
| 3.   | Contingencies                                       | 0.5 lakhs            | 0.5 lakhs            | 1.0 lakhs   |
| 4.   | Travel                                              | 0.5 lakhs            | 0.5 lakhs            | 1.0 lakhs   |
| 5.   | Other Costs(Outsource work etc.),if any             | 0.5 lakhs            | 0.5 lakhs            | 1.0 lakhs   |
|      | Institute Overhead (10 %)                           | 4.54 lakhs           | 1.54 lakhs           | 6.08 lakhs  |
|      | <i>Subtotal(General)</i>                            | 17.94 lakhs          | 13.94 lakhs          | 31.88 lakhs |
| C.   | Total cost of the project (A+B)                     | 49.94 lakhs          | 16.94 lakhs          | 66.88 Lakhs |



Subject: [WARNING: ATTACHMENT(S) MAY CONTAIN MALWARE]Sanction Order -  
DST/TMD/MES/2k17/39

---

From: ranjith.krishnapai@gov.in  
To: subraghu\_0612@yahoo.co.in  
Cc: rakvani@yahoo.co.in; hodchemistry@velsuniv.org  
Date: Tuesday, June 26, 2018, 12:34:15 PM GMT+5:30

---

Dear Dr. Raghu,

Ref No. DST/TMD/MES/2k17/39

I am happy to inform you that the project proposal reference number DST/TMD/MES/2K17/39 has been sanctioned by the DST for the implementation. Please find the attached copy of Sanction Order for Capital and General. The hard copies will be sent today via surface mail.

Please note that whenever activities organised by yourself may kindly to inform this Department. We have also enclosed the terms and conditions of the grants please follow them while implementing the project.

Please also inform the DST about following as they become applicable:

1. Date of receipt of funds.
2. Project commencement date.
3. Undertaking that the PI will agree to the norms of the sanction order.
4. Recruitment of the manpower as per the approved norms.
5. Actual work plan for implementing the project indicating various milestones.
6. Quarterly progress report of the project.
7. Statement of Expenditure (SE) and Utilization Certificate (UC) as per the DST format.
8. As per the new instructions of the ministry, the PI is requested to deposit the whole project grant in an interest earning account and inform the interest earned from the grant while sending the



08/08/2017

The Electronic Project Proposal Management System, For StHtd

FILE NO. ECR/2017/000915  
**SCIENCE & ENGINEERING RESEARCH BOARD(SERB)**  
 (a statutory body of the Department of Science & Technology, Government of India)  
 S & SA, Lower Ground Floor  
 Vasant Square Mall  
 Plot No. A, Community Centre  
 Sector-B, Pocket-5, Vasant Kunj  
 New Delhi-110070

Dated: 08 Aug 2017

**ORDER**

Subject: Financial Sanction of the research project titled "Fundamental Studies of Na<sup>+</sup> Ion Storage Mechanisms in Amorphous Carbon (Hard & Soft) Materials" under the guidance of Dr. Baghu Subash Chandrabose, Vels Institute of Science, Technology and Advanced Studies(VISTAS)/chemistry, VELS UNIVERSITY, Vels university, pv. vaithiyalingam road, velan nagar, pallavaram, Kanchipuram, Tamil nadu-600117 - Release of 1st grant

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of Rs. 2802000/- (Rs. Twenty Eight Lakh Two Thousand Only) with break-up of Rs. 1000000/- under Capital (Non-recurring) head and Rs. 1802000/- under General (Recurring) head for a duration of 36 months. The items of expenditure for which the total allocation of Rs. 2802000/- has been approved are given below

The following budget may be considered for VELS UNIVERSITY, VELS UNIVERSITY, PV. VAITHIYALINGAM ROAD, VELAN NAGAR, PALLAVARAM

| S. No     | Head                                                          | Total (in Rs.) |
|-----------|---------------------------------------------------------------|----------------|
| <b>A</b>  | <b>Non-recurring</b>                                          |                |
| 1         | Equipment<br>-> Potentio stat- 2 channels)                    | 1000000        |
| <b>A'</b> | <b>Total (Non-Recurring)</b>                                  | <b>1000000</b> |
| <b>B</b>  | <b>Recurring Items</b>                                        |                |
| 1         | Recurring - A ( Manpower, Consumables, Travel, Contingencies) | 1548000        |
| 2         | Recurring - B (Overhead Charges)                              | 254000         |
| <b>B'</b> | <b>Total (Recurring)</b>                                      | <b>1802000</b> |
| <b>C</b>  | <b>Total cost of the project (A' + B')</b>                    | <b>2802000</b> |

2. Sanction of the SERB is also accorded to the payment of

- Rs. 1000000/- (Rupees Ten Lakh only) under 'Grants for creation of capital assets' and Rs. 590000/- (Rupees Five Lakh Ninety Thousand only) under 'Grants-in-aid General' to The Registrar, Vels University, VELS UNIVERSITY, VELS UNIVERSITY, PV. VAITHIYALINGAM ROAD, VELAN NAGAR, PALLAVARAM being the first installment of the grant for the year 2017-2018 for implementation of the said research project.
3. The expenditure involved is debit to Fund for Science & Engineering Research (FSER). This release is being made under Early Career Research Award. (EC Chemical Sciences)

4. The Sanction has been issued to VELS UNIVERSITY, VELS UNIVERSITY, PV. VAITHIYALINGAM ROAD, VELAN NAGAR, PALLAVARAM with the approval of the competent authority under delegated powers on 01 August, 2017 and vide Diary No. SERB/F/4298/2017-2018 dated 03 August, 2017.

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://www.serb.gov.in))

6. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

7. While providing operational flexibility among various subheads under head Recurring-A, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.

8. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

9. The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.

10. The release amount of Rs. 1590000/- (Rupees Fifteen Lakh Ninety Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below

|                    |                                                                                          |
|--------------------|------------------------------------------------------------------------------------------|
| Account Name       | Vels Institute of Science Technology and Advanced studies.                               |
| Account Number     | 911010014364240                                                                          |
| Bank Name & Branch | Axis Bank Axis Bank, Madipakam Branch No.2, Medavakkam high road, Madipakam, Chennai-91. |
| IFSC/RTGS Code     | UTIB0000083                                                                              |

The Electronic Project Proposal Management System, For SERB

|                        |                           |
|------------------------|---------------------------|
| Email id of A/C Holder | accounts@velsuniv.ac.in   |
| Email id of PI         | subraghu_0612@yahoo.co.in |

11. The institute will furnish to the SERB, New Delhi, separate Utilization certificate(UCs) financial year wise to the SERB for Recurring (Grants-in-aid General) & Non-Recurring (Grants for creation of capital assets) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.
12. The institute will maintain separate audited accounts for the project. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.
13. The project File no. ECI/2017/000815 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.
14. The manpower sanctioned in the project, if any is co-terminus with the duration of the project and SERB will have no liability to meet the fellowship and salary of supporting staff if any, beyond the duration of the project.
15. As this is the first grant being released for the project, no previous U/C is required.
16. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.
17. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board, a statutory body of the Department of Science & Technology (DST), Government of India should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.
18. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the Science & Engineering Research Board, a statutory body of Department of Science & Technology (DST), Government of India.

  
(Dr. S. V. Prasanna)  
Scientist  
prasanna@serb.gov.in

To,  
Under Secretary  
SERB, New Delhi

Copy forwarded for information and necessary action to :-

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | The Principal Director of Audit, A G C R Building, 11th Floor I P Estate, Delhi-110002                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2. | Sanction Folder, SERB, New Delhi                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3. | File Copy                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 4. | Dr. Raghav Subash Chandrabose<br>Vels Institute of Science, Technology and Advanced Studies(VISTAS)/chemistry<br>VELS UNIVERSITY, Vels university, pv. vaidhiyalangam road, velan nagar, pallavaram,<br>Kanchipuram, Tamil nadu-600117<br>Email: subraghu_0612@yahoo.co.in<br>Mobile: 919790995822<br>(Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a> ) |
| 5. | The Registrar, Vels University,<br>VELS UNIVERSITY, VELS UNIVERSITY, P.V. VAITHIYALINGAM ROAD, VELAN NAGAR,<br>PALLAVARAM<br>(Receipt of Grant may be intimated by name to the undersigned)                                                                                                                                                                                                                                                                                             |

  
(Dr. S. V. Prasanna)  
Scientist  
prasanna@serb.gov.in



**Subject:** SERB-Notification  
**From:** Dr. S. V. Prasanna (prasanna@serb.gov.in)  
**To:** info@serbonline.in"@imsva02.cdacnoida.in;  
**Date:** Monday, May 8, 2017 3:54 PM

Rs. 30,00,000/-  
23

SERB  
India

**Science and Engineering Research Board**  
(Statutory Body Established Through an Act of Parliament : SERB Act 2008)  
Department of Science and Technology, Government of India

**SCIENCE & ENGINEERING RESEARCH BOARD (SERB)**

(Statutory Body Established Through an Act of Parliament : SERB Act 2008)

Science and Engineering Research Board  
5 & 5A. Lower Ground Floor  
Vasant Square Mall  
Sector-B, Pocket-5  
Vasant Kunj  
New Delhi - 110 070

Approval Letter

File Number: ECR/2017/000815

Dated: 08-May-2017

Subject: Project titled "Fundamental Studies of Na<sup>+</sup> Ion Storage Mechanisms in Amorphous Carbon (Hard & Soft) Materials".

Dear Dr. Raghu Subash Chandrabose,

The project cited above has been approved by Science and Engineering Research Board (SERB) for funding. The following are the approved items for a period of 3 years. The final budget to be sanctioned would be based on quotations received, existing norms etc.

**The committee recommended the following budget**

**Manpower : Emoluments as per norms**

-> Project Assistant or JRF - 1

**Equipment Details : Rs. 10 Lakhs (BET Surface Area-pore size Analyser is not recommended)**

-> Potentio stat- 2 channels) - 1

**Consumables : Rs. 600000**

**Travel Cost : As per norms**

**Contingencies : As per norms**

**Overhead : As per norms**

Kindly follow the below steps only then you will be able to acknowledge the approval letter :

दुस्वामी / Phone : 044 - 26364013

Fax / फॅक्स : 044 - 26383661



25  
भारत सरकार, रक्षा मंत्रालय  
अनुसंधान तथा विकास संगठन  
संग्राम वाहन अनुसंधान तथा विकास स्थापना  
आवडी, चेन्नई - ६०० ०५४

Govt. of India, Min of Defence  
Defence Research & Dev. Orgn.  
Combat Vehicles Res. & Dev. Estt.  
Avadi, Chennai - 600 054

सभी पत्रों/निदेशों को प्रते से भेजे जाने चाहिए  
और कोई अन्य अधिकारी के नाम से नहीं।

All Correspondence should be  
addressed to DIRECTOR and not  
to any Officer by Name

पत्र संख्या/Letter No. CVRDE/ MMG/ SPC/ 104 / 17-18

दिनांक / Date : 15 Nov 2017

To,

THE DIRECTOR,  
VELS UNIVERSITY,  
VELS INTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES,  
VELAN NAGAR, P.V. VAITHIYALINGAM ROAD,  
PALLAVARAM, CHENNAI - 600 117.

Kind Attn: - Dr. M. Chandrasekaran, Professor and Director, Dept. of Mechanical Engg. /  
Dr. S. Arun, Director, IQAC

Sub:- STUDY, DESIGN AND DEVELOPMENT OF PERFORATED ARMOUR SYSTEM FOR  
AFV APPLICATIONS

RSQR for "Study, Design and Development of Perforated Armour System for AFV  
applications - Qty 01 Job" is enclosed herewith.

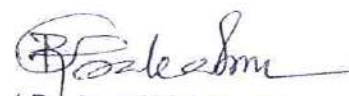
2. You are requested to submit Summary Offer for Provision of Research Services in the enclosed  
format (Annexure - 1) in duplicate duly signed and sealed along with GST and RSQR for our further  
necessary action.

3. It is also intimated that Income tax as applicable shall be deducted from the bills against the  
subject contract. The current rate of Income Tax is 10%.

Thanking you,

Yours faithfully,

Encls : as above

  
( Dr. R. SIVABALAN )  
SCIENTIST 'E'  
FOR DIRECTOR



Research Service Qualitative Requirement (RSQR) for " Study, Design and Development of Perforated Armour system for AFV applications"

1. Title of the proposal : Study, Design and Development of Perforated Armour system for STANAG - 4569 threat level - 3 for AFV applications
  
2. Principal Investigator : **Dr. M. Chandrasekaran**  
Professor and Director,  
Dept. of Mechanical Engineering,  
Vels University, Chennai – 600117  
Email: director.mech@velsuniv.ac.in  
Ph: 9962506351, 9790857137
  
3. Co-Investigator-1 : **Dr.S. Arun**  
Director, IQAC, Vels University,  
Chennai – 600117  
Email: arun.se@velsuniv.ac.in  
Ph: 9962506209
  
3. Co-Investigator-2 : **Mr.T.Vinod Kumar**  
Asst. Prof, Dept. of Mechanical Engineering  
Vels University, Chennai – 600117  
Email: vinodkmmrmech@gmail.com  
Ph: 9840418468
  
4. Co-Investigator-CVRDE : **Dr. M.A. Muthu Manickam**  
Scientist F  
CVRDE, Avadi, Chennai-600054.

Dated: 03-Jun-2017

**ORDER**

Subject: Financial Sanction of the research project titled "An Ecofriendly Technology for the Enhancement of Rheological and Filtration Properties of Water Based Drilling Mud " under the guidance of Dr. PONMANI SWAMINATHAN, Petroleum Engineering, VELS Institute of Science, Technology & Advanced Studies (VISTAS), Velan nagar, pallavaram, meenambakkam, Chennai, Tamil nadu-600043 - Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of Rs. 2212100/- (Rs. Twenty Two Lakh Twelve Thousand One Hundred Only) with break-up of Rs. 0/- under Capital (Non-recurring) head and Rs. 2212100/- under General (Recurring) head for a duration of 36 months. The items of expenditure for which the total allocation of Rs. 2212100/- has been approved are given below: The following budget may be considered for VELS Institute Of Science, Technology & Advanced Studies (VISTAS), Velan Nagar, Pallavaram, Meenambakkam

| S. No | Head                                                                        | Total (in Rs.) |
|-------|-----------------------------------------------------------------------------|----------------|
| A     | Non-recurring                                                               |                |
| 1     | Equipment                                                                   |                |
| A'    | Total (Non-Recurring)                                                       | 0              |
| B     | Recurring Items                                                             |                |
| 1     | Recurring - A : ( Manpower, Consumables, Travel, Contingencies, Other Cost) | 2011000        |
| 2     | Recurring - B : (Overhead Charges)                                          | 201100         |
| B'    | Total (Recurring)                                                           | 2212100        |
| C     | Total cost of the project (A' + B')                                         | 2212100        |

2. Sanction of the SERB is also accorded to the payment of
  - and Rs. 737370/- (Rupees Seven Lakh Thirty Seven Thousand Three Hundred and Seventy only) under 'Grants-in-aid General' to REGISTRAR, VELS Institute Of Science, Technology & Advanced Studies (VISTAS), Velan Nagar, Pallavaram, Meenambakkam being the first installment of the grant for the year 2017-2018 for implementation of the said research project.
3. The expenditure involved is debitable to Fund for Science & Engineering Research (FSER) This release is being made under Early Career Research Award. (EC Engineering Sciences)
4. The Sanction has been issued to VELS Institute Of Science, Technology & Advanced Studies (VISTAS), Velan Nagar, Pallavaram, Meenambakkam with the approval of the competent authority under delegated powers on 01 June, 2017 and vide Diary No. SERB/F/1276/2017-18 dated 02 June, 2017
5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://www.serb.gov.in)).
6. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.
7. While providing operational flexibility among various subheads under head Recurring-A, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.
8. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.
9. The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.
10. The release amount of Rs. 737370/- (Rupees Seven Lakh Thirty Seven Thousand Three Hundred and Seventy only) will be drawn by the Finance & Budget Officer of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:



|                        |                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------|
| Account Name           | VELS INSISTUTE OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES                               |
| Account Number         | 911010014364240                                                                         |
| Bank Name & Branch     | AXIS BANK MADIPAKKAM BRANCH 083, No 2, Medavakkam High Road, Madipakkam, Chennai-600091 |
| IFSC/RTGS Code         | UTIB0000083                                                                             |
| Email id of A/C Holder | accounts@velsuniv.ac.in                                                                 |
| Email id of PI         | ponumane@gmail.com                                                                      |

11. The institute will furnish to the SERB, New Delhi, separate Utilization certificate (UCs) financial year wise to the SERB for Recurring (Grants-in-aid General) & Non-Recurring (Grants for creation of capital assets) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

12. The institute will maintain separate audited accounts for the project. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.

13. The project File no. ECR/2017/000291 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

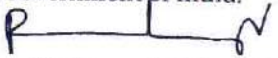
14. The manpower sanctioned in the project, if any is co-terminus with the duration of the project and SERB will have no liability to meet the fellowship and salary of supporting staff if any, beyond the duration of the project.

15. As this is the first grant being released for the project, no previous U/C is required.

16. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.

17. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board, a statutory body of the Department of Science & Technology (DST), Government of India should invariably be highlighted/acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

18. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the Science & Engineering Research Board, a statutory body of Department of Science & Technology (DST), Government of India.



(Dr. Ramesh Vijayan)  
SCIENTIST-C

drvramesh@serb.gov.in

To,  
Finance & Budget Officer  
SERB, New Delhi

Copy forwarded for information and necessary action to :-

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002                                                                                                                                                                                                                                                                                                                                                  |
| 2. | Sanction Folder, SERB, New Delhi.                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3. | File Copy                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 4. | <b>Dr. PONMANI SWAMINATHAN</b><br>Petroleum Engineering<br>VELS Institute of Science, Technology & Advanced Studies (VISTAS), Velan nagar, pallavaram, meenambakkam, Chennai, Tamil nadu-600043<br>Email: ponumane@gmail.com<br>Mobile: 918939416548<br>(Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a> .) |
| 5. | <b>REGISTRAR,</b><br>VELS Institute Of Science, Technology & Advanced Studies (VISTAS), Velan Nagar, Pallavaram, Meenambakkam<br><br>(Receipt of Grant may be intimated by name to the undersigned)                                                                                                                                                                                                                                        |



(Dr. Ramesh Vijayan)  
SCIENTIST-C

drvramesh@serb.gov.in



Vels Institute of Science and Technology

|  |                                                                                                                                                                                |                                                                                                                      |                                             |                |                                                                                                             |               |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------|---------------|
|  | <p>Mrs.M.Meena<br/>Assistant Professor<br/>Dept. of ECE<br/>Vels Institute of Science<br/>and Technology<br/>Velan Nagar<br/>Chennai - 600 117</p>                             | <p>Cognitive home automation<br/>system with sensor network<br/>and its implementation usign<br/>FPGA controller</p> | <p>Salma Fathima.T<br/>Kanieswari.B</p>     | <p>EEE-029</p> | <p>The Registrar<br/>Vels Institute of Science and<br/>Technology<br/>Velan Nagar<br/>Chennai - 600 117</p> | <p>7500/-</p> |
|  | <p>Ms.A.Keerthana<br/>Assistant Professor<br/>Dept. of Biomedical<br/>Engineering<br/>Vels Institute of Science,<br/>Technologyand Advanced<br/>Studies<br/>Chennai-600117</p> | <p>Intelligent walking stick for<br/>deafblind people</p>                                                            | <p>Shweta ashok<br/>Syed uzma farheen</p>   | <p>BS-048</p>  | <p>The Registrar<br/>Vels Institute of Science,<br/>Technologyand Advanced Studies<br/>Chennai-600117</p>   | <p>7500/-</p> |
|  | <p>S S Meenambiga<br/>Associate Professor<br/>Dept. of Bio-Engineering<br/>Vels Institute of Science,<br/>Technologyand Advanced<br/>Studies<br/>Chennai-600117</p>            | <p>NANOPARTICLE<br/>SYNTHESIS FROM OLEA<br/>EUROPAEA (FRUIT) AND<br/>ITS ACTIVITY AGAINST<br/>ORAL PATHOGENS</p>     | <p>S Ananth Vikranth<br/>R Krishna Veni</p> | <p>CHE-013</p> | <p>The Registrar<br/>Vels Institute of Science,<br/>Technologyand Advanced Studies<br/>Chennai-600117</p>   | <p>7500/-</p> |
|  | <p>Ms.S S Meenambiga<br/>Associate Professor<br/>Dept.of Bio-Engineering<br/>Vels Institute of Science,<br/>Technologyand Advanced<br/>Studies<br/>Chennai-600117</p>          | <p>A Study Of The Anti-<br/>Bacterial Activity Of,<br/>Epiphyllum Oxypentalum<br/>Flowe And Its Applications</p>     | <p>P Jayashree<br/>M Shalini</p>            | <p>PS-015</p>  | <p>The Registrar<br/>Vels Institute of Science,<br/>Technologyand Advanced Studies<br/>Chennai-600117</p>   | <p>7500/-</p> |



FILE NO. EMR/2016/000515  
**SCIENCE & ENGINEERING RESEARCH BOARD(SERB)**  
 (a statutory body of the Department of Science & Technology, government of India)

5 & 5A, Lower Ground Floor  
 Vasant Square Mall  
 Plot No. A, Community Centre  
 Sector-B, Pocket-5, Vasant Kunj  
 New Delhi-110071

Dated: 03-Mar-2017

**ORDER**

Subject: Financial Sanction of the research project titled "Effect of stress inducer on the morphology of riboflavin producer *Eremothecium ashbyii* and the preliminary studies on the Nucleotide Excision Repair (NER) pathway gene expression," under the guidance of Dr. Vijayalakshmi Subramaniam, Biotechnology, VELS Institute of Science, Technology & Advanced Studies (VISTAS), Velan Nagar, Pallavaram, Meenambakkam, Chennai, Tamil Nadu-600043 and by Dr. Rajagopal Kalyanaraman, Professor And Head, Biotechnology, VELS Institute Of Science, Technology & Advanced Studies (VISTAS) - Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of Rs. 3248759/- (Rs. Thirty Two Lakh Forty Eight Thousand Seven Hundred and Fifty Nine Only) with break-up of Rs. 891311/- under Capital (Non-recurring) head and Rs.2357448/- under General (Recurring) head for a duration of Three years. The items of expenditure for which the total allocation of Rs. 3248759/- has been approved are given below:

The following budget may be considered for VELS Institute Of Science, Technology & Advanced Studies (VISTAS), Velan Nagar, Pallavaram, Meenambakkam

| S. No     | Head                                                                              | Total (in Rs.) |
|-----------|-----------------------------------------------------------------------------------|----------------|
| <b>A</b>  | <b>Non-recurring</b>                                                              |                |
| 1         | Equipment<br>-> Electroporator<br>-> Fluorescence Microscope with Epifluorescence | 891311         |
| <b>A'</b> | <b>Total (Non-Recurring)</b>                                                      | <b>891311</b>  |
| <b>B</b>  | <b>Recurring Items</b>                                                            |                |
| 1         | Recurring - A: (Manpower, Consumables, Travel, Contingencies)                     | 2116000        |
| 2         | Recurring - B: (Overhead Charges)                                                 | 240648         |
| <b>B'</b> | <b>Total (Recurring)</b>                                                          | <b>2357448</b> |
| <b>C</b>  | <b>Total cost of the project (A' + B')</b>                                        | <b>3248759</b> |

- Sanction of the SERB is also accorded to the payment of Rs. 891311/- (Rupees Eight Lakh Ninety One Thousand Three Hundred and Eleven only) under 'Grants for creation of capital assets' and Rs. 150000/- (Rupees One Lakh Fifty Thousand only) under 'Grants-in-aid General' to REGISTRAR, VELS Institute Of Science, Technology & Advanced Studies (VISTAS), Velan Nagar, Pallavaram, Meenambakkam being the first installment of the grant for the year 2016-2017 for implementation of the said research project
- The expenditure involved is debitible to Fund for Science & Engineering Research (FSER). This release is being made under Extra Mural Research Funding (Individual Centric). (PAC Plant Sciences)
- The Sanction has been issued to VELS Institute Of Science, Technology & Advanced Studies (VISTAS), Velan Nagar, Pallavaram, Meenambakkam with the approval of the competent authority under delegated powers on 23 February, 2017 and vide Diary No. SERB/F/8891/2016-17 dated 02 March, 2017
- Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://www.serb.gov.in))
- Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.
- While providing operational flexibility among various subheads under head Recurring-A, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.
- As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.
- The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB
- The release amount of Rs. 1041311/- (Rupees Ten Lakh Forty One Thousand Three Hundred and Eleven only) will be drawn by the Finance & Budget Officer of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

|                        |                                                            |
|------------------------|------------------------------------------------------------|
| Account Name           | VELS UNIVERSITY OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES |
| Account Number         | 911010014364240                                            |
| Bank Name & Branch     | AXIS BANK Madipakkam Chennai-600091                        |
| IFSC/RTGS Code         | UTIB0000083                                                |
| Email id of A/C Holder | accounts@velsuniv.ac.in                                    |
| Email id of PI         | vijayaitn@gmail.com                                        |

11. The institute will furnish to the SERB, New Delhi, separate Utilization certificate (UCs) financial year wise to the SERB for Recurring (Grants-in-aid General) & Non- Recurring (Grants for creation of capital assets) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

12. The institute will maintain separate audited accounts for the project. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.

13. The project File no. EMR/2016/000915 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

14. The manpower sanctioned in the project, if any is co-terminus with the duration of the project and SERB will have no liability to meet the fellowship and salary of supporting staff if any, beyond the duration of the project.

15. As this is the first grant being released for the project, no previous U/C is required.

16. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.

17. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board, a statutory body of the Department of Science & Technology (DST), Government of India should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

18. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the Science & Engineering Research Board, a statutory body of Department of Science & Technology (DST), Government of India.

(Dr. Shilpi Paul)  
Scientist E  
ms\_ps@serbonline.in

To,  
Finance & Budget Officer  
SERB, New Delhi

Copy forwarded for information and necessary action to:-

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | The Principal Director of Audit, A.G.C.R. Building, 11th Floor I.P. Estate, Delhi-110002                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 2. | Sanction Folder, SERB, New Delhi.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3. | File Copy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 4. | Dr. Vijayalakshmi Subramaniam<br>Biotechnology<br>VELS Institute of Science, Technology & Advanced Studies (VISTAS), Velan Nagar, Pallavaram, Meenambakkam, Chennai,<br>Tamil Nadu-600043<br>Email: vijayalitm@gmail.com<br>Mobile: 919445168222<br><br>Dr. Rajagopal Kalyanaraman<br>Biotechnology<br>VELS Institute Of Science, Technology & Advanced Studies (VISTAS)<br>(Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please<br>visit <a href="http://www.serb.gov.in">www.serb.gov.in</a> .) |
| 5. | REGISTRAR,<br>VELS Institute Of Science, Technology & Advanced Studies (VISTAS), Velan Nagar, Pallavaram, Meenambakkam<br><br>(Receipt of Grant may be intimated by name to the undersigned)                                                                                                                                                                                                                                                                                                                                                                      |

(Dr. Shilpi Paul)  
Scientist E  
ms\_ps@serbonline.in



03-05-17

2E

F. No. 3-18/2015-T.S.-I(Vol. III)  
Government of India  
Ministry of Human Resource Development  
Department of Higher Education  
Technical Section-I

Shastri Bhawan, New Delhi  
Dated the 24<sup>th</sup> April, 2017

To,

The Director,  
IIT Kanpur (National Coordinator of IMPRINT)

**Subject:- 'In- principle' approval on proposals under IMPRINT.**

Sir,

I am directed to refer to this Ministry's letter of even number dated 22-3-2017 conveying 'in- principle' approval on (7) proposals to be supported by MEITY and to convey in-principle approval on 12 proposals as per enclosed list to be supported by Industries/ Institutes/ Alumni/ other non- MHRD source to the extent of 50% of project cost.

The National Coordinator is requested to coordinate with the concerned Industries/ Alumni/ Institution/ donor, so that they release their share of funds for these projects at the earliest in order to enable MHRD to release its share.

Yours faithfully,

(Kundan Nath)

Under Secretary to the Government of India  
Ph : 011-23381698

Encl. as above

Copy to:

- 1) The Director, IIT Madras
- 2) The Director, IIT Kharagpur
- 3) The Director, IIT Delhi
- 4) The Director, IIT Guwahati
- 5) The Director, IIT Hyderabad
- 6) The Director, IIT Gandhinagar
- 7) The Director, IIT Allahabad
- 8) The Director, NIT Durgapur

Dean R & D  
Gautam Sinha  
4/5/17

AC/TE  
+ copy to Prof. P. M. Uthappa  
+ Prof. Anshu Kumar

| S. No. | Domain                                 | Project No. | Project title                                                                                                                                                                          | PI                     | Institute       | Total 1st year cost of the project | Total 2nd year cost of the project | Total 3rd year cost of the project | Total cost of the project | Memory Department/ Institute/ Institution which will support the project to the extent of 40% |
|--------|----------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------|------------------------------------|------------------------------------|------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------|
| 1      | Advanced Materials                     | 7165        | Membrane assisted reduction of iron oxides: An innovative and cost effective approach for steel production.                                                                            | Ajay Kumar Shukla      | IIT Madras      | 109.2                              | 171.4                              | 52.2                               | 332.8                     | JyW Steel's NMDC                                                                              |
| 2      | Healthcare                             | 6153        | Microfluidic platform for continuous monitoring of gas concentrations for early level management of Systemic Inflammatory Response Syndrome (SIRS) in Trauma patients.                 | Ashu Kumar Sen         | IIT Madras      | 187                                | 102                                | 07                                 | 296                       | IISR, IITM                                                                                    |
| 3      | Water Resources & River Systems        | 6291        | Reclamation of Steel Industry Wastewater through Phytoremediation Technique Using Microalgae and Assessment of Biofuel Production from Algal Biomass                                   | Sumita Dutta           | NIT Durgapur    | 23.44                              | 10.24                              | 11.44                              | 45.12                     | Abanm, NCH                                                                                    |
| 4      | Energy                                 | 6777        | Design and development of energy efficient and environment friendly L.P.G. and Kerosene cooking stoves with Porous Radiant Burners for household and large scale cooking applications. | Nehash C. Mishra       | IIT Guwahati    | 86.4                               | 58.46                              | 58.93                              | 203.79                    | Industry-Industry                                                                             |
| 5      | Healthcare                             | 6177        | Manufacturing Solution for the Preparation of Siddha Medicines (Traditional Medicines Originated from Tamil Nadu)                                                                      | S Sridharvelan         | IIT Guwahati    | 41.98                              | 47.82                              | 26.17                              | 115.97                    | PI Industry-Industry                                                                          |
| 6      | Energy                                 | 4504        | Development and Evaluation of an eco-friendly temperature-gated ultrasonic wave based corrosion under insulation detection system for nuclear power plant pipes (CUMPS)                | Krishan Balakrishnaiah | IIT Madras      | 185                                | 101                                | 108                                | 394                       | Govt. AI                                                                                      |
| 7      | Manufacturing                          | 6596        | Manufacture of shells for field runs with improved design and performance.                                                                                                             | Pradip Kumar Ray       | IIT Kharagpur   | 110                                | 80                                 | 0                                  | 190                       | Govt. Ministry of Defense                                                                     |
| 8      | Healthcare                             | 4292        | Production of a critical therapeutic system for Trauma and Accident care in Escherichia Coli system                                                                                    | Lajun Kumar Chaudhri   | IIT Delhi       | 37.4                               | 31.4                               | 11.2                               | 80                        | PI Industry-Industry                                                                          |
| 9      | Information & Communication Technology | 7482        | Power Aware Compiler for Embedded Processors                                                                                                                                           | Bibha Ghoshal          | IIT Allahabad   | 25.8                               | 14.66                              | 0                                  | 40.46                     | PI Institute                                                                                  |
| 10     | Advanced Materials                     | 4291        | Affordable and cost effective cancer diagnosis/treatment using gold based biodegradable nanoparticles.                                                                                 | Ajayand Kumar Rengan   | IIT Hyderabad   | 87.3                               | 36.2                               | 31.8                               | 155.3                     | Industry/Industry Govt. Dstn                                                                  |
| 11     | Energy                                 | 5254        | Unlocking waste gas potential in India through a reservoir-geochemical approach                                                                                                        | Vikram Vohal           | IIT Bombay      | 92                                 | 38                                 | 43                                 | 173                       | DST + DRDC, IITB                                                                              |
| 12     | Auto Technology                        | 6804        | Advanced macromer for product life cycle assessment                                                                                                                                    | Suprabh Misra          | IIT Gandhinagar | 71.42                              | 46.632                             | 39.37                              | 157.426                   | Industry & Mest. Expt                                                                         |



## Team Members

| SN | Name and Affiliation                                                                                                                                                                                                                                  | Role and Contact Details                                                                         |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 1  | <b>Dr S Senthilvelan</b><br>Associate Professor, Department of Mechanical Engineering<br><b>Indian Institute of Technology Guwahati</b><br>Guwahati 781039                                                                                            | Principal Investigator<br>Phone: 9435543129 Office: 0361-2582674<br>Email: ssvvelan@iitgernet.in |
| 2  | <b>Dr S Kanagaraaj</b><br>Associate Professor, Department of Mechanical Engineering<br><b>Indian Institute of Technology Guwahati</b><br>Guwahati 781039                                                                                              | Co-Investigator<br>Phone: 9957469518 Office: 0361-2582676<br>Email: kanagaraaj@iitgernet.in      |
| 3  | <b>Prof P S Robi</b><br>Professor, Department of Mechanical Engineering<br><b>Indian Institute of Technology Guwahati</b><br>Guwahati 781039                                                                                                          | Co-Investigator<br>Phone: 9957557637 Office: 0361-2582668<br>Email: psr@iitgernet.in             |
| 4  | <b>Prof . Kannan Pakshirajan</b><br>Professor, Department of Biosciences and Bioengineering<br><b>Indian Institute of Technology Guwahati</b><br>Guwahati 781039                                                                                      | Co-Investigator<br>Phone: 9435732706 Phone: 0 361-2582210<br>Email: pakshu@iitgernet.in          |
| 5  | <b>Prof G Pugazhenthi</b><br>Professor, Department of Chemical Engineering<br><b>Indian Institute of Technology Guwahati</b><br>Guwahati 781039                                                                                                       | Co-Investigator<br>Phone: 9435543128 Office: 0361-2582264<br>Email: pugil@iitgernet.in           |
| 6  | <b>Prof R Gnanamoorthy</b><br><b>Professor , Indian Institute of Technology Madras</b><br>Currently Director, Indian Institute of Information Technology<br>Design & Manufacturing (IIITD&M) Kancheepuram<br>Melakottaiyur Village, Chennai - 600 127 | Co-Investigator<br>Phone: 9600087590 Office: 044-27476302<br>Email: gmoorthy@iitdmi.ac.in        |
| 7  | <b>Dr P Selva Shanmugam( MD Siddha), PhD</b><br>Siddha Consultant Physician,<br>President, World Siddha Trust Secretary, Health India Found<br>101, Usman Road, Thyagaraya Nagar, Chennai. 600017                                                     | Co-Investigator( Siddha Doctor)<br>Phone: 98948 28968<br>E-mail: siddhaselva@yahoo.co.in         |
| 8  | <b>Dr J Raamachandran</b><br>(Retd.) Professor Indian Institute of Technology Madras<br>5, Kamakoti Nagar, Alwarthiru Nagar Chennai 600 087                                                                                                           | Co-Investigator( Siddha Practitioner)<br>Phone: 9445285066<br>Email: raamrclandran@glbc.com      |
| 9  | <b>Prof R A Kalivani</b><br>Professor, Director School of Basic Sciences<br><b>Vels University</b><br>Chennai 600117                                                                                                                                  | Co-Investigator<br>Email: rakvanit@yahoo.co.in                                                   |

20

SCIENCE & ENGINEERING RESEARCH BOARD (SERB)  
(Statutory Body Established Through an Act of Parliament : SERB Act 2008)  
Science and Engineering Research Board,  
5 & 5A, Lower Ground Floor, Vasant Square Mall, Sector-B, Pocket-5, Vasant  
Kunj, New Delhi - 110 070

Approval Letter

File Number: EMR/2016/000055

Dated: 18-Jun-2016

Subject: Project titled "Synthesis, characterization of novel polyactive site onium salts and their applications in medicinally important organic reactions – A kinetic study".

Dear Dr. P A Vivekanand,

The project cited above has been approved by Science and Engineering Research Board (SERB) for funding. The following are the approved items for a period of three years. The final budget to be sanctioned would be based on quotations received, existing norms etc.

**Manpower -Project Assistant-01**

**Consumables: Rs. 6 lakh**

**Minor Equipments; Rs. 2 lakh**

**Travel Cost : As per norms**

**Contingencies : As per norms**

**Overhead : As per norms**

You are now requested to upload the lowest quotation for equipment/s with in the budget as approved by programme advisory committee (including freight, insurance, customs charges etc., if any) and salary structure for the project staff (including HRA, Medical Benefits, if applicable etc.) at the earliest so as to enable us to issue the financial sanction. A certificate stating that any visit abroad for a period more than eight weeks would be undertaken after due permission from SERB, may also be submitted. Kindly consider these two important points.

- (1) Quotation of equipments should not exceed the approved non-recurring budget.
- (2) HRA component in manpower will only considered after submission of endorsement letter from Dean R & D of organisation in case of unavailability of accommodation facility in institution. In absence of endorsement letter, salary of manpower will released without HRA.

Kindly quote the reference number in all future correspondence. The project's reference no. EMR/2016/000055 may also be mentioned in all research communications arising from the above project.

Yours sincerely,  
(Dr. Arvind Chaudhary)  
Scientist C



02/02/2017

Vels University Mail - SERB ECRA informations

24



Research Advisor Secretary Vels University <psadvisor@velsuniv.ac.in>

---

## SERB ECRA informations

1 message

---

Dr.B.Abitha Asst. Prof. <abithabenson.sls@velsuniv.ac.in>  
To: psadvisor@velsuniv.ac.in

Thu, Feb 2, 2017 at 12:47 PM

Dear Sir

Kindly find the information as follows,

Name : Dr. Abitha. B

Acknowledgement: ECR/2017/000151/LS

Funding agency :SERB ECRA

Budget : 30 Lakhs

Title: An innovative approach for medicinal plant cultivation in drought prone areas by endophytic bacterial strains-  
lab to land approach

Thank you



Advisor - R & D Vels University <advisorrd@v

**SERB-Notification**

Dr.B.Abitha Asst. Prof. <abithabenson.sls@velsuniv.ac.in>  
To: advisorrd@velsuniv.ac.in

Wed, Jan 25, 2

Dear Sir  
I ave enclosed the acknowledgement received from SERB.  
Abitha

PS



**Science and Engineering Research Board**  
(Statutory Body Established Through an Act of Parliament : SERB Act)  
Department of Science and Technology, Government of India

Dear Abitha B,

Your Proposal has been submitted for preliminary scrutiny. Kindly quote project's file no ECR/2017/000151/LS in all future correspondence. The project's file number should be mentioned in all research communications arising from the above project.

With Regards

SERB Portal Team.

\*\*\*\*\* LEGAL DISCLAIMER \*\*\*\*\*

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Please do not reply to this mail



18

FILE NO. ECR/2015/000449  
SCIENCE & ENGINEERING RESEARCH BOARD

5 & 5A, Lower Ground Floor  
Vasant Square Mall  
Plot No. A, Community Centre  
Sector-B, Pocket-5, Vasant Kunj  
New Delhi-110070

Dated: 08-Sep-2016

**ORDER**

Subject: Financial Sanction of the research project titled "**Development of an Intelligent Hybrid Driver Hypovigilance System**" under the guidance of Dr. Arun Sahayadhas, Computer Science and Engineering, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Vels Institute Of Science, Technology And Advanced Studies (VISTAS) Vels University Velan Nagar P.V. Vaithiyalingam Road, Pallavaram Chennai, Kanchipuram, Tamil Nadu-600117 - Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of Rs. 2507390/- (Rs. Twenty Five Lakh Seven Thousand Three Hundred and Ninety Only) with break-up of Rs. 983450/- under Capital (Non-recurring) head and Rs. 1523940/- under General (Recurring) head for a duration of Three years. The items of expenditure for which the total allocation of Rs. 2507390/- has been approved are given below: The following budget may be considered for Vels Institute Of Science, Technology And Advanced Studies (VISTAS), Vels Institute Of Science, Technology And Advanced Studies (VISTAS) Vels University Velan Nagar P.V. Vaithiyalingam Road, Pallavaram Chennai

| S. No     | Head                                                            | Total (in Rs.) |
|-----------|-----------------------------------------------------------------|----------------|
| <b>A</b>  | <b>Non-recurring</b>                                            |                |
| 1         | Equipment<br>-> Driving Simulator<br>-> ECG & EEG sensor        | 983450         |
| <b>A'</b> | <b>Total (Non-Recurring)</b>                                    | <b>983450</b>  |
| <b>B</b>  | <b>Recurring Items</b>                                          |                |
| 1         | Recurring - A : ( Manpower, Consumables, Travel, Contingencies) | 1296000        |
| 2         | Recurring - B : (Overhead Charges)                              | 227940         |
| <b>B'</b> | <b>Total (Recurring)</b>                                        | <b>1523940</b> |
| <b>C</b>  | <b>Total cost of the project (A' + B')</b>                      | <b>2507390</b> |

2. Sanction of the SERB is also accorded to the payment of

- Rs. 983450/- (Rupees Nine Lakh Eighty Three Thousand Four Hundred and Fifty only) under 'Grants for creation of capital assets' and Rs. 507980/- (Rupees Five Lakh Seven Thousand Nine Hundred and Eighty only) under 'Grants-in-aid General' to Registrar, Vels Institute Of Science, Technology And Advanced Studies (VISTAS), Vels Institute Of Science, Technology And Advanced Studies (VISTAS) Vels University Velan Nagar P.V. Vaithiyalingam Road, Pallavaram Chennai

being the first installment of the grant for the year 2016-2017 for implementation of the said research project.

3. The expenditure involved is debitable to Fund for Science & Engineering Research (FSER)  
This release is being made under Early Career Research Award. (EC Engineering Sciences)

4. The Sanction has been issued to Vels Institute Of Science, Technology And Advanced Studies (VISTAS), Vels Institute Of Science, Technology And Advanced Studies (VISTAS) Vels University Velan Nagar P.V. Vaithiyalingam Road, Pallavaram Chennai with the approval of the competent authority under delegated powers on 28 August, 2016 and vide Diary No. SERB/F/3759/2016-17 dated 06 September, 2016

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://www.serb.gov.in)).

6. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

7. While providing operational flexibility among various subheads under head Recurring-A, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.

8. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/auditor whenever



9. The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.

10. The release amount of Rs. 1491430/- (Rupees Fourteen Lakh Ninety One Thousand Four Hundred and Thirty only) will be drawn by the Finance & Budget Officer of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

|                        |                                                           |
|------------------------|-----------------------------------------------------------|
| Account Name           | VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES |
| Account Number         | 911010014364240                                           |
| Bank Name & Branch     | Axis Bank Madipakkam Chennai                              |
| IFSC/RTGS Code         | UTIB0000083                                               |
| Email id of A/C Holder | accounts@velsuniv.ac.in                                   |
| Email id of PI         | arun.se@velsuniv.ac.in                                    |

11. The institute will furnish to the SERB, New Delhi, separate Utilization certificate (UCs) financial year wise to the SERB for Recurring (Grants-in-aid General) & Non-Recurring (Grants for creation of capital assets) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

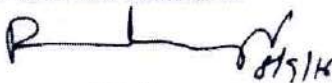
12. The institute will maintain separate audited accounts for the project. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.

13. The project File no. ECR/2015/000449 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

14. The manpower sanctioned in the project, if any is co-terminus with the duration of the project and SERB will have no liability to meet the fellowship and salary of supporting staff if any, beyond the duration of the project.

15. As this is the first grant being released for the project, no previous U/C is required.


16. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.

  
(Dr. V. Ramesh)  
SCIENTIST-C  
drvramesh@serb.gov.in

To,  
Finance & Budget Officer  
SERB, New Delhi

Copy forwarded for information and necessary action to:-

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 2. | Sanction Folder, SERB, New Delhi.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3. | File Copy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 4. | <b>Dr. Arun Sahayadhas</b><br>Computer Science and Engineering<br>Vels Institute of Science, Technology and Advanced Studies (VISTAS), Vels Institute Of Science, Technology And Advanced Studies (Vistas) Vels University Velan Nagar P.V. Vaithiyalingam Road, Pallavaram Chennai, Kanchipuram, Tamil Nadu-600117<br>Email: arun.se@velsuniv.ac.in<br>Mobile: 919787115195<br>(Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a> .) |
| 5. | <b>Registrar,</b><br>Vels Institute Of Science, Technology And Advanced Studies (VISTAS), Vels Institute Of Science, Technology And Advanced Studies (VISTAS) Vels University Velan Nagar P.V. Vaithiyalingam Road, Pallavaram Chennai<br>(Receipt of Grant may be intimated by name to the undersigned)                                                                                                                                                                                                                                                           |

  
(Dr. V. Ramesh)  
SCIENTIST-C  
drvramesh@serb.gov.in



9

राष्ट्रीय इलेक्ट्रॉनिकी एवं सूचना प्रौद्योगिकी संस्थान  
NATIONAL INSTITUTE OF ELECTRONICS AND INFORMATION TECHNOLOGY



(इलेक्ट्रॉनिकी और सूचना प्रौद्योगिकी विभाग, संचार तथा सूचना प्रौद्योगिकी मंत्रालय,  
भारत सरकार की एक स्वायत्त वैज्ञानिक संस्थान)

(An Autonomous Scientific Society of Department of Electronics & Information Technology,  
Ministry of Communications & Information Technology, Govt. of India)

आइ.एस.टी.ई. कॉम्प्लेक्स, २५ गाँधी मण्डपम् रोड, चेन्नई - ६०००२५

ISTE Complex, 25, Gandhi Mandapam Road, (Opp. Anna Centenary Library), Chennai 600 025

Phone: 044- 24421445 / 46 / 47, Fax: 044- 24421441 Website: www.nielitchennai.edu.in

(रा.इ.सू.प्रौ.सं नई दिल्ली का एक केंद्र / A Centre of NIELIT, New Delhi)

DC-CHE\XII\1(iv)\08\C - 102

29-06-2015

To

Registrar, Vels University (VISTAS),

Pallavaram, Chennai – 600 117.

*Sub: Training for DOEACC O Level Course in your campus / Signing of MoU*

Sir,

This has reference to offer provided by you on subject matter. In this regard, we are pleased to inform you that Vels university (VISTAS) is selected to impart DOEACC 'O' level Training for 37 (Thirty Seven) Candidates at your campus. The terms and conditions of the training in addition to the terms and conditions mentioned in agreement/MoU are as given below.

1. The Training should be conducted only in the premises.
2. The Total Number of candidates to be trained is 37 (Thirty Seven only) as per the list of students attached.
3. Training is to be conducted strictly as per the syllabus & Durations prescribed by the NIELIT for DOEACC 'O' Level Course.
4. Admission Process shall be done by NIELIT in coordination with SREO, CGC for SC/ST, Chennai.
5. Registration for the candidate may be done at your end through online ([www.student.nielit.in](http://www.student.nielit.in)) on or before 25-07-2015.
6. An amount of Rs.900/-(Rupees Nine Hundred only) inclusive of all shall be paid towards training per candidate per month during the period between July 2015 to June 2016. This amount excludes service tax as service tax is exempted. TDS will be debited as per GOI norms. No training fee will be applicable during the examination months (January & July). This shall be paid on a monthly basis on submission of attendance sheets for actual number of candidates present and their performance report.

मुख्यालय: इलेक्ट्रॉनिकी निकेतन, ६, सी.जी.ओ कॉम्प्लेक्स, लोदी रोड, नई दिल्ली - ११०००३

Head Office at: Electronics Niketan, 6 CGO Complex, Lodhi Road, New Delhi - 110003

दूरभाष / Tel: 011-24363936, 24363330/1/2 फॉक्स / Fax : 011-24363937, 24363335

वेबसाइट / Website: www.nielit.edu.in

7. The claim for the candidates for the month of July may be allowed from starting date of the course of prorata rate.
8. Coordinating Institute will provide information required for examination to NIELIT Chennai at least 5 working days prior to last date prescribed by NIELIT, New Delhi in all such cases.
9. Coordinating Institute shall regularly submit the claims for reimbursement of training charges with Attendance Report, Lesson Planning and Progress Report of the candidates, latest by 1<sup>st</sup> day of every month. Also the scanned copy of the attendance report needs to be mailed 15<sup>th</sup> day of every month.
10. The claim amount reimbursement when NIELIT Chennai received the training fees from CGC Chennai.
11. Training should be arranged in suitable batches so that the computer facilities for practical are in 1:1 ratio.
12. NIEIT Chennai will make arrangement to provide study materials to all the candidates.
13. On agreeing to above, you are required to start the training with immediate effect.
14. Project and Project certificate must be submit before the practical Examination.
15. The Institute shall be responsible in coordinating the candidates in placement.
16. The Institute should put full effort in placement of the candidates as per their skill set.
17. Institute shall carry out carrier guidance and motivational class for the students every month
18. The stipendiary support of Rs. 500/- per month per trainee is to be paid all the trainees undergoing the training with subject to the condition of 80% attendance to motivate them for completing the course and disbursed through DBT payment method.
19. In every working day candidate should sign in the attendance register. Also attendance should be maintained in the Excel format.

This work order is subject to signing of an agreement indicating detailed terms and conditions. Please acknowledge the receipt of this communication and confirm your acceptance.

Thanking You.

Yours Sincerely,

  
29/05/15  
O- Level Coordinator

Enclosed:

1. 37 Candidates Name list

Copy to:

1. Guard File
2. Account section of NIELIT Chennai



NIELIT Chennai  
8th Batch O Level Candidate Name list  
Training Centre: Vels University

| S.NO | NAME              |
|------|-------------------|
| 1    | P.DEEPAK          |
| 2    | S.TAMILSELVAN     |
| 3    | K.RAJESH          |
| 4    | L.NITHYA          |
| 5    | G.JEGADESH        |
| 6    | M.KAMESHWARAN     |
| 7    | S.DEVA            |
| 8    | R.NITHYA          |
| 9    | K.CHITRA          |
| 10   | S.PRADEEPA        |
| 11   | THULASI ARCHANA.J |
| 12   | USHA NANDHINI.K   |
| 13   | S.JAYANTHI        |
| 14   | SHARMILA.B        |
| 15   | SUMITHA.M         |
| 16   | MOUNIKA.M         |
| 17   | H.SANGEETHA       |
| 18   | T.SINGARAVELAN    |
| 19   | LAKSHMINARAYANI.M |
| 20   | C.T.VIMALCHRISTY  |
| 21   | R.RAGHUL          |
| 22   | DAHINESWARI.M     |
| 23   | A.ELAKIYA         |
| 24   | M.PRIYA           |
| 25   | R.GANESH          |
| 26   | SUMITHRA.U        |
| 27   | VALLI.V           |
| 28   | K.UMAMAHESHWARI   |
| 29   | B.SUNILMANIKANDAN |
| 30   | B.PRASANTH        |
| 31   | UDAYAKUMAR.J      |
| 32   | HEMAVATHY.E       |
| 33   | SANGEETHA.A       |
| 34   | R.REKHA           |
| 35   | M.GOMATHI         |
| 36   | A.KALIDAS         |
| 37   | S.DINAKAR         |

  
29/06/15

(13)

राष्ट्रीय इलेक्ट्रॉनिकी एवं सूचना प्रौद्योगिकी संस्थान  
NATIONAL INSTITUTE OF ELECTRONICS AND INFORMATION TECHNOLOGY



(इलेक्ट्रॉनिकी और सूचना प्रौद्योगिकी विभाग, संचार तथा सूचना प्रौद्योगिकी मंत्रालय,  
भारत सरकार की एक स्वायत्त वैज्ञानिक संस्थान)

(An Autonomous Scientific Society of Department of Electronics & Information Technology,  
Ministry of Communications & Information Technology, Govt. of India)

आइ.एस.टी.ई. कॉम्प्लेक्स, २५ गाँधी मण्डपम् रोड, चेन्नई - ६०००२५

ISTE Complex, 25, Gandhi Mandapam Road, (Opp. Anna Centenary Library), Chennai 600 025

Phone: 044- 24421445 / 46 / 47, Fax: 044- 24421441 Website: www.nielitchennai.edu.in

(रा.इ.सू.प्रौ.सं नई दिल्ली का एक केंद्र / A Centre of NIELIT, New Delhi)

NIELITCHE/XII/1(iv)/09/B/Eol - १३१

21-07-2016

To

HOD of MCA,

VELS University, Velan Nagar, P V Vaithiyalingam Road,

Pallavaram, Chennai - 600117.

**Sub: 9<sup>th</sup> batch (July 2016-June 2017) Training for NIELIT 'O' Level Course in your campus / Signing of MoU.**

Sir,

This has reference to above subject matter. In this regard, we are pleased to inform you that M/s Vels University is identified to impart NIELIT 'O' level Training for 25 (Twenty Five) Candidates at your campus. The terms and conditions of the training in addition to the terms and conditions mentioned in agreement/ MoU are as given below.

20. The Training should be conducted only in the premises i.e. address mentioned in the Eol Document submitted by your organization.
21. The Total Number of candidates to be trained is 25 (Twenty Five) as per the list of students attached.
22. Training is to be conducted strictly as per the syllabus & Durations prescribed by the NIELIT for NIELIT 'O' Level Course.
23. Admission Process shall be done by NIELIT in coordination with SREO, CGC for SC/ST, Chennai.
24. Registration for the candidate may be done at your end through online ([www.student.nielit.in](http://www.student.nielit.in)) on or before 25-08-2016.
25. An amount of Rs.900/- (Rupees Nine Hundred only) inclusive of all shall be paid towards training per candidate per month during the period between July 2016 to June 2017. This amount excludes service tax as service tax is exempted. TDS will be debited as per GOI

मुख्यालय: इलेक्ट्रॉनिकी निकेतन, ६, सी.जी.ओ कॉम्प्लेक्स, लोदी रोड, नई दिल्ली - ११०००३ १ अफ ३

Head Office at: Electronics Niketan, 6 CGO Complex, Lodhi Road, New Delhi - 110003

दूरभाष / Tel: 011-24363936, 24363330/1/2 फॉक्स / Fax: 011-24363937, 24363335

वेबसाइट / Website: www.nielit.edu.in



- norms. No training fee will be applicable during the examination months (January & July). This shall be paid on a monthly basis on submission of attendance sheets for actual number of candidates present and their performance report as per the format attached.
26. The claim for the candidates for the month of July may be allowed from starting date of the course of prorata rate.
  27. Coordinating Institute will provide information required for examination to NIELIT Chennai at least 5 working days prior to last date prescribed by NIELIT, New Delhi in all such cases.
  28. Coordinating Institute shall regularly submit the claims for reimbursement of training charges with Attendance Report, Lesson Planning and Progress Report of the candidates, latest by 1<sup>st</sup> day of every month. Also the scanned copy of the attendance report needs to be mailed 15<sup>th</sup> day of every month.
  29. The claim amount reimbursement when NIELIT Chennai received the training fees from CGC Chennai.
  30. Training should be arranged in suitable batches so that the computer facilities for practical are in 1:1 ratio.
  31. NIEIT Chennai will make arrangement to provide study materials to all the candidates.
  32. On agreeing to above, you are required to start the training with immediate effect.
  33. Project and Project certificate must be submit before the practical Examination.
  34. The Institute shall be provide 75% placement in coordination with local Employer / entrepreneurs. The local Employer / entrepreneurs must be registered in NCS portal.
  35. Institute shall carry out carrier guidance and motivational class for the students every month.
  36. The stipendiary support of Rs.500/- per month per trainee is to be paid all the trainees undergoing the training with subject to the condition of 80% attendance to motivate them for completing the course and disbursed through DBT payment method.
  37. In every working day candidate should sign in the attendance register. Also attendance should be maintained in the Excel format.
  38. It is requested to apply for NIELIT 'O' Accreditation within three months through online (<http://onlineaccr.nielit.in/>).

This work order is subject to signing of an agreement indicating detailed terms and conditions. Please acknowledge the receipt of this communication and confirm your acceptance.

Yours Sincerely,



31/07/16

Q- Level Coordinator

3.1.4 JRFs, SRFs, Post Doctoral fellow, Research associated enrolled during the last 5 years

| S No | Name and Designation of Research Fellow                       | Grant                                                                                     | Project Details                                                                                                                                         | Duration                                          |
|------|---------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| 1.   | <b>C.N. Hemalatha,</b><br>M.Pharm., Junior<br>Research Fellow | Department of<br>Biotechnology<br>(Bio-CARe for Women<br>Scientists),<br>New Delhi 110003 | Cytotoxic and<br>Anticancer activities of<br>Novel Perylene-di-<br>imides- <b>Ref No:</b><br><b>BT/Bio-</b><br><b>CARe/03/10047/2013-</b><br><b>14)</b> | 15.09.2014-<br>16.03.2018<br>3Yrs and 6<br>Months |

3.2.1 Grants for research projects during the last 5 years – Sanctioned letter

| S No | Name and Designation of Research Fellow                                                                                                                                                                                                                                                                                                              | Grant                                                                                      | Project Details                                                                                                         | Duration                                          | Sanctioned year and Cost                                                                                                                                                |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.   | <b>Project Investigator:</b><br><b>Dr.M. Vijey Aanandhi</b><br><b>Professor and Head</b> Department of Pharmaceutical Chemistry and Analysis, School of Pharmaceutical Sciences, Vels Institute of Science, Technology And Advanced Studies, VISTAS, Pallavaram, Chennai- 600117.<br><br><b>Junior Research Fellow: C.N. Hemalatha,</b><br>M.Pharm., | <b>Department of Biotechnology</b><br>(Bio-CARe for Women Scientists),<br>New Delhi 110003 | Cytotoxic and Anticancer activities of Novel Perylene-di-imides- <b>Ref No:</b><br><b>BT/Bio-CARe/03/10047/2013-14)</b> | 15.09.2014-<br>16.03.2018<br>3Yrs and 6<br>Months | <b>09.09.2014</b><br><br><b>&amp;</b><br><br><b>Sanctioned Cost-</b><br><b>21,83442.00</b><br><br><b>Revised and Approved Sanctioned Cost-</b><br><b>Rs.27,51342.00</b> |



**No. BT/Bio-CARe/03/10047/2013-14**  
GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE & TECHNOLOGY  
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors  
CGO Complex, Lodhi Road,  
New Delhi- 110 003  
Dated:15/09/2014

**ORDER**

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules ,1978 , for the implementation of the project entitled: "**Cytotoxic and Anticancer activities of novel Perylene -di- imides**" for a period of 3 Year 0 Month at a total cost of Rs. **2183442** (Rupees Twenty One Lakhs Eighty Three Thousand Four Hundred and Forty Two Only) on the terms and conditions detailed here under:-

**2 The Project :**

**2.1 Title :** "Cytotoxic and Anticancer activities of novel Perylene -di- imides"

**2.2 Project Investigator :**

**Dr. Vijey Aanandhi Muthukumar**  
Professor  
Department of Pharmaceutical chemistry  
Vels Institute of Science Technology and Advanced Studies,  
School of Pharmaceutical Sciences, Vels University,  
Pallavaram., Chennai - 600117, Tamilnadu

**CO-PI:**

**Ms. Shanmugapriya Senthilkumar**  
Assistant professor  
Pharmaceutical chemistry  
Vels Institute of Science, Technology and Advanced Studies,  
School Of Pharmaceutical Sciences, Vels University  
Pallavaram, Chennai - 600117, Tamilnadu

**2.3 Objectives:**

1. Lead generation and pharmacophore isolation and structure based drug design by modeling software.
2. Synthesis of some novel perylene di imides and characterizations by spectroscopy (IR, 1HNMR, 13CNMR, MASS, XRD (X-Ray diffractions)).
3. Evaluation study

**2.4 Time Schedule:**

The duration of the project is 3 Year 0 Month from the date of this sanction order.

### 2.5 Project Cost:

The total cost of the project is Rs. **2183442/-** (Rupees Twenty One Lakhs Eighty Three Thousand Four Hundred and Fourty Two Only) as per details given below :

| Budget Head        | Year I            | Year II          | Year III         | Total(Rs.)        |
|--------------------|-------------------|------------------|------------------|-------------------|
| Equipment          | 523442.00         |                  |                  | <b>523442.00</b>  |
| Manpower           | 309600.00         | 309600.00        | 340800.00        | <b>960000.00</b>  |
| Travel             |                   | 25000.00         | 25000.00         | <b>50000.00</b>   |
| Consumables        | 200000.00         |                  | 300000.00        | <b>500000.00</b>  |
| Contingency        | 50000.00          | 50000.00         | 50000.00         | <b>150000.00</b>  |
| <b>Total (Rs.)</b> | <b>1083042.00</b> | <b>384600.00</b> | <b>715800.00</b> | <b>2183442.00</b> |

### 2.6 Equipment:

The details of the equipment sanctioned for the implementation of the project at **Annexure-I**

### 2.7 Manpower:

The details of the manpower sanctioned for the implementation of the project at **Annexure-II**

### 3. Head of Account:

The **Non-Recurring** expenditure involved is debitable to:

| Demand No. 88               | Department of Biotechnology                        |
|-----------------------------|----------------------------------------------------|
| <b>3425</b>                 | Other Scientific Research 2014-2015                |
| <b>3425.60</b>              | Others (Sub Major Head)                            |
| <b>3425.60.200</b>          | Assistance to other Scientific Bodies (Minor Head) |
| <b>3425.60.200.17</b>       | Human Resource Development                         |
| <b>3425.60.200.17.08</b>    | Human Resource Development Programmes              |
| <b>3425.60.200.17.08.35</b> | Grants for creation of capital Assets              |

The **Recurring** expenditure involved is debitable to:

| Demand No. 88               | Department of Biotechnology                        |
|-----------------------------|----------------------------------------------------|
| <b>3425</b>                 | Other Scientific Research 2014-2015                |
| <b>3425.60</b>              | Others (Sub Major Head)                            |
| <b>3425.60.200</b>          | Assistance to other Scientific Bodies (Minor Head) |
| <b>3425.60.200.17</b>       | Human Resource Development                         |
| <b>3425.60.200.17.08</b>    | Human Resource Development Programmes              |
| <b>3425.60.200.17.08.31</b> | Grant-in-Aid General                               |



#### 4. Terms & Conditions:

Considering the time bound nature of the project, the project will be monitored by the Task Force / Committee constituted by DBT. In addition, the PI will submit half yearly progress report as per format in Annexure-V.

- 4.1 The other terms and conditions governing this sanction are attached at Annexure- III.
- 4.2A Memorandum of Agreement (MoA) will be signed between the Department of Biotechnology and the grantee institution on Non-Judicial stamp paper Rs. 100/- in the enclosed format and the second release/installment will be made only after signing of MoA by the grantee institutions and its acceptance by DBT. In case of NGO or Private Institution, MOA signed is mandatory first release. A format of the MoA is enclosed in Annexure-IV
- 4.3 The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilisation Certificate and Statement of Expenditure. The Interest so earned will be treated as created to the institute/Agency and shall be adjusted towards further installment of the grant and or at the time of Final Settlement of Accounts.
- 5.No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.
- 6.The Registrar, Vels Institute of Science, Technology and Advanced Studies, Vels University, Chennai, Tamilnadu would be responsible for submission of Statements of Expenditure (SoE), utilization certificates (UC), Assets Certificates, Manpower staffing & expenditure details in prescribed DBT formats to DBT in respect of grants released in this project from time to time.
- 7.PI's of DBT sponsored projects can consider appointment of JRF from Category-II merit list of DBT-BET exam so that candidates can be paid fellowships at par with NET/GATE/BET qualified candidates as per DST OM No. A.20020/11/97-IFD dated 31st March, 2010. However, there is no compulsion on PI's to select candidates for JRF in their projects from Category-II of DBT-BET.
- 8.The accounts of grantee institution shall be open to inspection by the sanctioning authority/audit whenever the institute is called upon to do so by the sanctioning authority.
- 9.This issues under the power delegated to this Department and with the concurrence of IFD vide their SAN No. **102/IFD/SAN/2382/2014-2015** dated **September, 09 2014**.
- 10.This sanction order has been noted at serial no. \_\_\_\_\_ in the Register of Grants.

**Dr. Renu Swarup**  
**(Sr. Adviser/Scientist 'H')**

**To,**  
The Pay & Accounts Officer,  
Department of Biotechnology,  
New Delhi - 110 003.

**Copy to:**

- 1 The Principal Director of Audit (Scientific Departments), DACR Building, New Delhi- 110 002.
- 2 The Registrar, Vels Institute of Science, Technology and Advanced Studies, Vels University, Velan Nagar  
P.V. Vaithiyalingam Road  
Pallavaram, Chennai - 600117, Tamilnadu
- 3 Dr. Vijey Aanandhi Muthukumar, Professor, Pharmaceutical chemistry, Vels Institute of Science, Technology and Advanced Studies, Vels University, School of Pharmaceutical Sciences, Vels University, Pallavaram., Chennai - 600117, Tamilnadu
- 4 Ms. Shanmugapriya Senthilkumar, Assistant professor, Pharmaceutical chemistry, Vels Institute of Science, Technology and Advanced Studies, Vels University, School Of Pharmaceutical Sciences  
Vels University Pallavaram, Chennai - 600117, Tamilnadu
- 5 Cash Section, DBT (2 copies).
- 6 Sanction Folder.
- 7 File Copy.



**Dr. Renu Swarup  
(Sr. Adviser/Scientist 'H')**



**Annexure -I**

Details of the Equipment sanctioned for the implementation of the project titled "**Cytotoxic and Anticancer activities of novel Perylene -di- imides**":

| <b>Vels Institute of Science,Technology and Advanced Studies,Vels University</b> |                                                          |            |                  |
|----------------------------------------------------------------------------------|----------------------------------------------------------|------------|------------------|
| <b>SNo.</b>                                                                      | <b>Name of Equipment</b>                                 | <b>No.</b> | <b>Cost(Rs.)</b> |
| 1.                                                                               | Magnetic stirrers with hot plate melting point apparatus | 1          | 54429.00         |
| 2.                                                                               | Elisa reader/Bio Rad                                     | 1          | 469013.00        |
| <b>Total</b>                                                                     |                                                          |            | <b>523442.00</b> |



**(Dr. Renu Swarup)**  
**Sr. Adviser/Scientist 'H'**

**Annexure -II**

Details of the manpower sanctioned for the implementation of the project titled "**Cytotoxic and Anticancer activities of novel Perylene -di- imides**":

| Head                                                                   | No. of Position | Year I           | Year II          | Year III         | Total (Rs.)      |
|------------------------------------------------------------------------|-----------------|------------------|------------------|------------------|------------------|
| Junior Research Fellow JRF @ Rs. 16000/- + 30% HRA for first two years | 1               | 249600.00        | 249600.00        |                  | <b>499200.00</b> |
| Other1 Honorarium to the PI @ Rs. 5000/- per month                     | 1               | 60000.00         | 60000.00         | 60000.00         | <b>180000.00</b> |
| Senior Research Fellow SRF @ Rs. 18000/- + 30% HRA for third           | 1               |                  |                  | 280800.00        | <b>280800.00</b> |
| <b>Total(Rs.)</b>                                                      |                 | <b>309600.00</b> | <b>309600.00</b> | <b>340800.00</b> | <b>960000.00</b> |

Revised emoluments shall be payable only if educational qualification or eligibility criteria as per DST OM No. A.20020/11/97-IFD dated 31.03.2010, are met by the research personnel.



**(Dr. Renu Swarup)**  
**Sr. Adviser/Scientist 'H'**



3.2.3 Research projects per teacher funded by government and non-government agencies during the last 5 years

| <b>S No</b> | <b>Name and Designation of Teacher</b>                                                                                                                                                                                                                                                                 | <b>Received Grant</b>                                                                      | <b>Project Details</b>                                                                                          | <b>Duration</b>                            | <b>Sanctioned Year and Cost</b>                                                                                                                         |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.          | <b>Dr. M. Vijey Aanandhi., M.Pharm., Ph.D. Project Investigator(PI)</b><br>Professor and Head,<br>Department of Pharmaceutical Chemistry and Analysis, School of Pharmaceutical Sciences,<br>Vels Institute of Science, Technology and Advanced Studies,<br>VISTAS,<br>Pallavaram,<br>Chennai-600 117. | <b>Department of Biotechnology</b><br>(Bio-CARe for Women Scientists),<br>New Delhi 110003 | Cytotoxic and Anticancer activities of Novel Perylene-di-imides<br><b>Ref No: BT/Bio-CARe/03/10047/2013-14)</b> | 15.09.2014-16.03.2018<br>3Yrs and 6 Months | <b>09.09.2014</b><br><br><b>&amp;</b><br><br><b>Sanctioned Cost- 21,83442.00</b><br><br><br><b>Revised and Approved Sanctioned Cost- Rs.27,51342.00</b> |

(19)



HOD Dept of Biotechnology Vels University &lt;hodbiotech@velsuniv.ac.in&gt;

## Approval letter of pr. No. R&D/TN-01/2016-17-NMPB-IV A

1 message

ShahidulKhair Asstt.ResearchOfficer(Phcgn) <arophg.nmpb@gov.in>  
 To: hodbiotechnology@velsuniv.org  
 Cc: oyessvi70@rocketmail.com

Wed, Apr 27, 2016 at 2:18 PM

**F. No. Z.18017/187/CSS/R&D/TN-01/2016-17-NMPB-IV A**  
**Government of India**  
**Ministry of AYUSH**  
**National Medicinal Plants Board**

...

Room No: - 309, 3<sup>rd</sup> Floor,  
 B-Block, AYUSH Bhawan,  
 GPO Complex, INA, New Delhi-110023  
 Phone: - 011-2465-1828  
 Telefax:- 011-2465-1827  
 Email:- info-nmpb@nic.in  
**Date: - 26.04.2016**

To,

**Dr. K. Rajagopal,**  
 Principal Investigator and Associate Professor,  
 Deptt. of Biotechnology,  
 School of Life Sciences, VELS University,  
 Mallika Nagar, Old Pallavaram, Chennai-600117,  
 Tamil Nadu.

**Subject:- Approval of the Project Proposal entitled "Micropropagation and phytochemical analysis of some medicinal plants used by tribals of Elagiri, Javvadu and Yercaud hills in Tamil Nadu" – reg.**

Sir/Madam,

The undersigned is directed to refer to the project proposal entitled "**Micropropagation and phytochemical analysis of some medicinal plants used by tribals of Elagiri, Javvadu and Yercaud hills in Tamil Nadu**" in favour of **VELS University, Chennai, Tamil Nadu**, and to say that the project was recommended in the 42<sup>nd</sup> PSC meeting held on 18<sup>th</sup> & 19<sup>th</sup> January, 2016 and approved by the 66<sup>th</sup> SFC for 3 years at the total cost of `14.119 lakh for the institution, where NMPB's contribution will be only **50% i.e. `7.0595 lakh** (Rupees Seven Lakh Five Thousand Nine Hundred Fifty only) and **rest 50% of the amount will be contributed by the VELS University.**

The financial break-up of the Grant-in-aid as approved by the 66<sup>th</sup> SFC is as below:-

| Components                          | Amount<br>(₹ In lakhs) |
|-------------------------------------|------------------------|
| Manpower (JRF - 1 )                 | 4.320                  |
| Travel                              | 0.80                   |
| Consumables (Chemical & galsswares) | 3.50                   |



|                                                                            |               |
|----------------------------------------------------------------------------|---------------|
| Contingency                                                                | 0.75          |
| Non-recurring (equipments)                                                 | 4.00          |
| Overhead @ 8%                                                              | 0.749         |
| <b>Total</b>                                                               | <b>14.119</b> |
| <b>NMPB's contribution is 50% of the total cost i.e.<br/>`7.0595 lakhs</b> |               |

**-2-**

Details of Installments will be as follows:-

| <b>Total</b>   | <b>1<sup>st</sup> installment</b> | <b>2<sup>nd</sup> installment</b> | <b>3<sup>rd</sup> installment</b> |
|----------------|-----------------------------------|-----------------------------------|-----------------------------------|
| <b>`7.0595</b> | <b>`3.80</b>                      | <b>`2.00</b>                      | <b>`1.259</b>                     |

You are requested to submit the duly filled up Performa of Agency Details (Copy enclosed) for transferring the grant-in-aid through RTGS mode & for online monitoring of the project along with the documents indicated below:

1. Pre-receipt of **1<sup>st</sup> installment** of **`3.80 lakh**, duly signed, on Rs. 1/- revenue stamp affixed.
2. A certificate stating that institute / organization is not involved in any proceeding relating to the account or conduct for any of its office bearers.
3. An undertaking that the terms and conditions of the grant are acceptable to the college / organizations.
4. A certified copy duly authenticated by a Gazetted Officer of the documents showing the Constitution of the governing Body or Managing Committee responsible for the running of the organization and that the persons signing the agreement are authorized to operate upon and bind the funds of organizations / Institute.
5. A certificate that the organization has not received any grant from State or Central Govt. or from any other agency for the same proposal.
6. An Agreement (Govt. org.)/Bond (Pvt./NGO org.) on `100/- stamp paper duly executed & signed in the prescribed Performa.

**Note:** Format copies for Agency Details and S. No. 1, 5 & 6 are attached for convenience. Rest of the certificates/undertaking at S. No. 2 to 4 shall be submitted by the grantee.

Thanking You,

Yours faithfully

-sd/-  
**(Shahidul Khair)**  
**ARO (Phcg)**

**Copy to:-**

- **The Registrar**, VELS University, Mallika Nagar, Old Pallavaram, Chennai-600117, Tamil Nadu, for information please.

---

**4 attachments**

 **Agency Details.doc**  
59K

 **Pre-receipt.docx**  
12K

 **Certificate of Non-Receipt of Fund.doc**  
54K

 **Bond.docx**  
437K



Tele : 23007320

Reg. Office  
11 MAR 2014

DARO/08/2021710/M/I  
Government of India  
Ministry of Defence  
Directorate of Aeronautics/DRDO  
Aeronautics R&D Board  
DRDO Bhawan, New Delhi-110 011

To  
Registrar  
Vel's University  
Pallavaram, Chennai-600 117

27 Feb 2014

To  
HOD Chennai

Under the powers vested in the Aeronautics R&D Board vide Govt. of India, Ministry of Defence letter No. Aero/4806/S/69/105/S/D(R&D) dated 12<sup>th</sup> Feb 1971 and DRDO/DBFA/FA/83226/ M/01/ 2031 /D(R&D) dated 30 Jul 2010 as amended from time to time I am directed to convey the sanction of the Board for the following project for the year 2013-2014.

**TITLE OF THE PROJECT** "Design, Development & prototype production of magnesium water activated battery for MAV Applications"

**AMOUNT** Rs. 8.14 lacs.

2. Total estimated funds for the project is Rs 8.14 lacs. However, the same is subject to revision based on performance and review. The year-wise break-up is given below:-

|     | <u>HEAD</u>       | <u>1st Year</u><br>(in lacs) |
|-----|-------------------|------------------------------|
| (a) | Research Staff    | 1.44                         |
| (b) | Special Equipment | 2.50                         |
| (c) | Consumables       | 3.00                         |
| (d) | Contingency       | 0.35                         |
| (e) | TA/DA             | 0.25                         |
| (f) | Overheads         | 0.60                         |
|     | Total*            | 8.14                         |

Grand Total = Rs 8.14 lacs ((Rupees Eight Lacs Fourteen Thousand only)

3. Funds for subsequent year(s) will be released on satisfactory progress and submission of annual progress report by PI to the Panel and Sectt, and based on Panel recommendation with due approval of competent authority. Statement of accounts and utilisation certificate duly certified by the executive financial authority of the Institution is also required to be submitted along with the annual report. Excess expenditure, beyond the yearly sanction, unless authorised by AR&DB in writing, shall be the responsibility of the grantee institutions.

...2/-

4. The duration of the project is One year. The date of receipt of the grant would be reckoned as the commencement date of the project which has to be intimated to this Sectt. without any ambiguity.
5. A separate account for the grant would be maintained by Vel's University Pallavaram, Chennai-600 117 and any interest earned thereon, if any, would accrue to AR&DB.
6. The grantee institution shall incorporate necessary clause to provide reservation for SC & ST or OBC in posts and services for appointing project staff under grant-in-aid scheme.
7. On completion of the project unspent balance if any should be deposited through MRO at your end against AR&DB sanction project No. "2021710" to the PCDA(R&D), New Delhi A/C No. 4055000004. Thereafter, a copy of the MRO duly received may be sent to PCDA (R&D), West Block-V, RK Puram New Delhi-110066 under intimation to AR&DB Sectt with a copy of MRO for necessary records.
8. A list of inventory of equipment purchased out of AR&DB grant shall be intimated year-wise, along with its cost and source of procurement to AR&DB Sectt. 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 of in-house R&D, with due recommendations of their executive authority and the concerned panel.
9. The grantee institution shall not disclose any information under RTI ACT, 2005 as DRDO is placed under second schedule and is exempted from disclosure of information under Sec 24(i) of the Act except information pertaining to the allegation of corruption and Human Rights Violations.  
(i) In case any application is received by the grantee institution for seeking information pertaining to DRDO project under RTI Act 2005, it may not be replied to directly and the same shall be transferred to CPIO, DRDO, HQ for necessary action and reply under sec 6(3) of the RTI Act at the following address:-  
314 A 'B' Block RTI Cell  
DRDO Bhawan, Rajaji, New Delhi-110011
10. Instruction and Conditions of Ownership of intellectual properties generated by this project is available in [www.drdo.com/boards/ardb/rules & grants-patents.htm](http://www.drdo.com/boards/ardb/rules & grants-patents.htm).
11. Instruction and Conditions of Publication of Technical Papers related to this project is available in [www.drdo.com/boards/ardb/rules & grants-report3.htm](http://www.drdo.com/boards/ardb/rules & grants-report3.htm)
12. On completion of the project, Closure Report alongwith copies of technical report for each Panel member and 3(three) copies for AR&DB Sectt alongwith one soft copy, may be submitted within sixty days of completion of project alongwith Statement-2 (Statement of Expenditure) & Statement-3 (Utilisation Certificate) as per Annexure III of Grant-in-aids rules duly audited from the Audit Authority of Institution/organization signed in ink in duplicate.
13. PCDA(R&D), West Block V, RK Puram, New Delhi-110066 will make disbursement of money as sanctioned. Payment shall be released through e-payment system and physical cheques will not be issued.
14. The expenditure will be debited to Major Head 2080 - Defence Services, R & D, Minor Head 004-Research/Research & Development and Code Head 852/02 (AR&DB Grant-in-aid) of Defence Services Estimates.



15. Contingent bill (in triplicate) duly completed and stamped along with ECS mandate form ma please be forwarded to us within 30 days for countersignature and onward transmission t PCDA(R&D), West Block V, RK Puram, New Delhi-110066 for payment.

16. This is issued with the concurrence of IFA (R&D) vide their UO No IFA/R&D/1956/1178 date 06.12.2013.

Yours faithfully,

(P K Singh)  
Addl. Director (Aero)  
O i/c Aero R&D Board  
For Secretary, AR&DB

Copy to :-

Principal CDA (R&D),  
West Block V, RK Puram,  
New Delhi-110066

IFA (R&D), DRDO Bhawan

Dy Director of Audit  
Defence Services, Southern Command, Pune

Principal Director of Audit  
Air Force & Navy, 'M' Block, N. Delhi-110 001

Dr. A.R. Upadhya (Convenor TC)  
Dr Raja Ramana DRDO Distinguished Fellow  
ADA, Vimanpura post office Bangalore - 560 017

Dr S Lakshminarayanan  
Vel's University  
Pallavaram, Chennai-600 117

Lt. Gen (Retd) VJ Sundaram  
National Design & Research Forum  
The Institution of Engineers (India) No.3  
Dr BR Ambedkar veechi  
Bangalore-560 001

Gp Capt P K Singh  
Jt. Director (Aero)  
Member Secretary, (S P)

Control No. 115 (2013-2014)



# Summary Offer of Provision of Research Services

Annex I

| <b>1. Title of DRDO's Research Service Qualitative Requirement (RSQR):</b><br><b>"Indegenous Development of Ku-band Airborne Satcom Antenna for AEW&amp;C platform"</b>                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                         | Offer Number:<br>Date received:<br>Revised on: |    |    |    |    |    |    |                                                               |  |                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----|----|----|----|----|----|---------------------------------------------------------------|--|----------------------------|
| <b>2. RSQR Document Ref. No.:</b>                                                                                                                                                                                                                                                                                                                     | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3">Date of issue</th> </tr> <tr> <th>YY</th> <th>MM</th> <th>DD</th> </tr> <tr> <td style="text-align: center;">14</td> <td style="text-align: center;">02</td> <td style="text-align: center;">15</td> </tr> </table> | Date of issue |                                                                                                                                                                                                                                                                         |                                                | YY | MM | DD | 14 | 02 | 15 | Issuing DRDO Lab/Estt/Project:<br><b>CABS,DRDO, BANGALORE</b> |  | Remarks of RSQR initiator: |
| Date of issue                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                         |                                                |    |    |    |    |    |    |                                                               |  |                            |
| YY                                                                                                                                                                                                                                                                                                                                                    | MM                                                                                                                                                                                                                                                                                                          | DD            |                                                                                                                                                                                                                                                                         |                                                |    |    |    |    |    |    |                                                               |  |                            |
| 14                                                                                                                                                                                                                                                                                                                                                    | 02                                                                                                                                                                                                                                                                                                          | 15            |                                                                                                                                                                                                                                                                         |                                                |    |    |    |    |    |    |                                                               |  |                            |
| <b>2. Name of Research Service Provider (RSP) making this offer:</b><br>CENTRE for R&D (CARD)<br>VELS University, Velan Nagar ,Pallavaram, Chennai -600 117                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                             |               | <b>4. RSP's Ref. No.</b><br>CARD/CABS/01/14<br>Date: 31 <sup>st</sup> Mar 2014                                                                                                                                                                                          | Judgement of OEC:                              |    |    |    |    |    |    |                                                               |  |                            |
| <b>3. (a) RSP's address for correspondence:</b><br>CENTRE for R&D (CARD)<br>VELS University, Velan Nagar, Pallavaram, Chennai<br><br>Pin code: 600 117<br>Telephone: (44) 2266 2500,2501,2503<br>Fax: (44) 2266 2513<br>Email: vistas@velsuniv.org                                                                                                    |                                                                                                                                                                                                                                                                                                             |               | <b>4. (a) Key personnel of RSP to be deployed:</b><br>Dr Arun Raaza Research Scientist - PI<br>Ms G Slodura, Asst. Prof - Co PI<br><br><b>5. (b) RSP's sub-contractors/consultants:</b><br>a) Name:<br>Institute/Company: Nil<br><br>b) Name:<br>Institute/Company: Nil |                                                |    |    |    |    |    |    |                                                               |  |                            |
| <b>6. Principal technical features of offer as related to RSQR (Detailed in Attachment A)</b><br>Described in attached proposal                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                         |                                                |    |    |    |    |    |    |                                                               |  |                            |
| <b>7. DRDO-owned equipment that RSP requires to be positioned by DRDO (Detailed, with estimated costs, in Attachment B):</b><br>Nil                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                         |                                                |    |    |    |    |    |    |                                                               |  |                            |
| <b>8. Estimated time to complete provision of research services and submit Final Report</b>                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                         | Months: 12 months                              |    |    |    |    |    |    |                                                               |  |                            |
| <b>9.1 Estimated expenditure (as elaborated on reverse) on:</b>                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                         | Rs. In lakhs                                   |    |    |    |    |    |    |                                                               |  |                            |
| a) Personnel                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                         | 3.24 lakhs                                     |    |    |    |    |    |    |                                                               |  |                            |
| b) Equipment                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                         | 4.50 lakhs                                     |    |    |    |    |    |    |                                                               |  |                            |
| c) Others                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                         | 2.06 lakhs                                     |    |    |    |    |    |    |                                                               |  |                            |
| Total: /                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                         | 9.80 lakhs                                     |    |    |    |    |    |    |                                                               |  |                            |
| <b>9.2 Required schedule of payments (Rs. in lakhs)</b>                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                             |               | Date                                                                                                                                                                                                                                                                    | Payment                                        |    |    |    |    |    |    |                                                               |  |                            |
| a) Initial advance                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                             |               | May 2014                                                                                                                                                                                                                                                                | 2.5 lakhs                                      |    |    |    |    |    |    |                                                               |  |                            |
| b) at Performance Milestone I of RSQR                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                             |               | Oct 2014                                                                                                                                                                                                                                                                | 4.5 lakhs                                      |    |    |    |    |    |    |                                                               |  |                            |
| c) at Performance Milestone II of RSQR                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                             |               | Feb 2015                                                                                                                                                                                                                                                                | 2.5 lakhs                                      |    |    |    |    |    |    |                                                               |  |                            |
| d) at Performance Milestone III of RSQR                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                             |               | Apr 2015                                                                                                                                                                                                                                                                | 0.30 lakhs.                                    |    |    |    |    |    |    |                                                               |  |                            |
| e) On submission of Final Report                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                             |               | Total: /                                                                                                                                                                                                                                                                | 9.80 lakhs                                     |    |    |    |    |    |    |                                                               |  |                            |
| <b>10. References to R&amp;D work being performed by RSP for Armed Services/DRDO/other S&amp;T (including foreign) agencies:</b><br>1) Design, development and prototype production of Magnesium water activated battery for MAV applications - ARDB<br>2) Synthesis and Characterisation of Graphene by chemical and Electro chemical methods-DMSEDE |                                                                                                                                                                                                                                                                                                             |               | <b>11. Offer as above valid till (date):</b> 31 <sup>st</sup> May 2014                                                                                                                                                                                                  |                                                |    |    |    |    |    |    |                                                               |  |                            |
| <b>12. Signature of competent authority of RSP:</b><br><br>Name: <b>Dr. R. Mathe</b><br>Designation: <b>REGISTRAR</b><br><b>VELS UNIVERSITY</b><br><b>(VISTAS)</b><br>Velan Nagar,<br>P.V. Vaithiyalingam Road,<br>Pallavaram, Chennai-600 117.                                                                                                       |                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                         |                                                |    |    |    |    |    |    |                                                               |  |                            |



14

No. 00109  
Registrar Office

Date: 17/10/13

**NO. SB/YS/LS-79/2013**  
**SCIENCE & ENGINEERING RESEARCH BOARD**

To  
cfo  
do.  
2/2/13

M  
17/10/13

5 & 5A, Lower Ground Floor  
Vasant Square Mall  
Plot No. A, Community Centre  
Sector-5, Pocket-5, Vasant Kunj  
New Delhi-110070

Dated: 4 October, 2013

**ORDER**

Subject: Financial Sanction of the research project titled "Development of endophytic bacterial consortium from selected medicinal plants of Western Ghats of India" under the guidance of **Dr. M. Melvin Joe, Deptt. of Microbiology, School of Biosciences, VELS University, P.V. Vaithiyalingam Road, Velan Nagar, Pallavaram, Chennai-600117, Tamil Nadu.**

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of **Rs. 18,40,000/- (Rs. Eighteen Lakh Forty Thousand Only)** with break-up of **Rs. 5,93,000/- under Capital head** and **Rs. 12,47,000/- under General head** for a duration of three years. The items of expenditure for which the total allocation of **Rs. 18,40,000/-** has been approved for a period of **three years**, are given below:

| Sl. No   | Head                                                                                                  | Total(in Rs.) for 3 years |
|----------|-------------------------------------------------------------------------------------------------------|---------------------------|
| <b>A</b> | <b>Non-recurring (Capital Items)</b>                                                                  |                           |
| 1        | Equipment<br>Gel Doc System, Computer with accessories, Micropipettes                                 | 5,93,000                  |
| A'       | Total (Capital)                                                                                       | <b>5,93,000</b>           |
| <b>B</b> | <b>Recurring Items (General)</b>                                                                      |                           |
| 1        | General - A<br>(Manpower, Consumables, Travel, Contingencies, Analytical/Biological Analysis Charges) | 10,07,000                 |
| 2        | General - B<br>(Overhead Charges)                                                                     | 2,40,000                  |
| B'       | Total (General)                                                                                       | <b>12,47,000</b>          |
| <b>C</b> | <b>Total cost of the project (A' + B') for 3 years</b>                                                | <b>18,40,000</b>          |

2. Sanction of the SERB is also accorded to the payment of **Rs. 5,93,000/- (Rs. Five Lakh Ninety Three Thousand Only)** under 'Grants for creation of Capital assets' and **Rs. 4,07,000/- (Rs. Four Lakh Seven Thousand Only)** under 'Grants-in-aid -General' to the REGISTRAR, VELS UNIVERSITY, CHENNAI being the grant for the year 2013-14 for implementation of the said research project.

3. The expenditure involved is debitable to  
Grant-in-aid for the year 2013-14 (Plan Expenditure- Capital) - Rs. 5,93,000/-  
&  
Grant-in-aid for the year 2013-14 (Plan Expenditure- General) - Rs. 4,07,000/-

This release is made under OYS Scheme.

4. The Sanction has been issued with the approval of the competent authority under delegated powers and vide Diary No. SERB/F/4207/2013-14 dated 4.10.2013.

5. Sanction of the grant is subject to the conditions as detailed in guidelines available at [www.serb.gov.in](http://www.serb.gov.in).

6. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.


Contd...2/-

Read-copy on 21/10/13

Velupillai

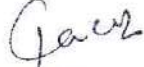
cc to S.O.

7. While providing operational flexibility among various subheads under head General-A, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.
8. The total release amount of **Rs. 10,00,000/- (Rs.Ten Lakh Only)** will be drawn by the Drawing & Disbursing Officer of the SERB and will be disbursed by means of cheque/DD favoring **"REGISTRAR, VELS UNIVERSITY, CHENNAI"** and will be sent to Registrar, VELS University, P.V. Vaithiyalingam Road, Velan Nagar, Pallavaram, Chennai-600117.
9. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.
10. The manpower sanctioned in the project, if any is co-terminus with the duration of the project and SERB will have no liability to meet the fellowship etc. beyond the duration of the project.
11. The institute will furnish to the SERB, New Delhi, Utilization certificate and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.
12. The institute will maintain separate audited accounts for the project. It is found expedient to keep a part or whole of grant in a separate bank account earning interest. The interest earned should be reported to the SERB, New Delhi. The interest thus earned will be treated as a credit to the institute to be adjusted towards further installment of the grant.
13. The sanctioned equipments would be procured as per GFR 2005 and its disposal would be done with prior approval of SERB.
14. The project File no. **SB/YS/LS-79/2013** may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.
14. As this is the first grant being released for the project, no previous U/C is required.
15. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring **"FUND FOR SCIENCE AND ENGINEERING RESEARCH"** payable at New Delhi.

  
(Jacob V.V.)  
Scientist-D

**Copy forwarded for information and necessary action to :-**

|   |                                                                                                                                                                                                                                                                                                                                                                              |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002                                                                                                                                                                                                                                                                                    |
| 2 | Copy with two spare copies of the sanction to the Drawing and Disbursing Officer, SERB, New Delhi                                                                                                                                                                                                                                                                            |
| 3 | Pay Accounts Officer, SERB, New Delhi                                                                                                                                                                                                                                                                                                                                        |
| 4 | Sanction Folder, SERB, New Delhi.                                                                                                                                                                                                                                                                                                                                            |
| 5 | File Copy                                                                                                                                                                                                                                                                                                                                                                    |
| 6 | Dr. M. Melvin Joe<br>Deptt. of Microbiology<br>School of Biosciences<br>VELS University,<br>P.V. Vaithiyalingam Road<br>Velan Nagar, Pallavaram,<br>Chennai-600117, Tamil Nadu<br><br>(Start date of the project may be intimated by name to the undersigned. Please visit website <a href="http://www.serb.gov.in">www.serb.gov.in</a> for all formats and guidelines etc.) |
| 7 | Registrar<br>VELS University<br>P.V. Vaithiyalingam Road<br>Velan Nagar, Pallavaram<br>Chennai-600117<br><br>(Receipt of Cheque/DD may be intimated by name to the undersigned.)                                                                                                                                                                                             |

  
(Jacob V.V.)  
Scientist-D





தமிழ்நாடு அறிவியல் தொழில்நுட்ப மாநில மன்றம்  
TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

(Established by Government of Tamilnadu)

Directorate of Technical Education Campus, Chennai - 600 025

Ph : 044-22301428 Telefax : 044-22301552 Web : www.tanscst.nic.in  
E-mail : enquiry.tanscst@nic.in, ms.tanscst@nic.in

S.MADHUMATHI, I.A.S.,  
Member Secretary

Ref: TNSCST/S&T Projects/RJ/SS/2013-14/

7.7.2015

To

Mrs.S.Vijayalakshmi  
Assistant Professor  
School of Hotel & Catering Management  
Vel's University  
Pallavaram, Chennai 600 117.

4321.  
Registrar Office

Date:..... 8 JUL 2015 .....

Madam,

Sub: TNSCST Project on "A study of lifestyle trends influencing processed food and impact on health among school going Children" –Recruitment of project fellow –Permission – Reg.

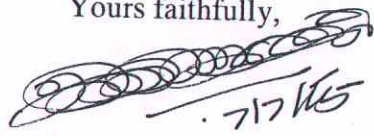
Ref: Letter received from the Principal Investigator dated 1.7.2015

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With reference to your letter cited above, you are permitted to recruit the project fellow to work in the Council sponsored S&T project by following the usual procedures adopted earlier. The date and venue of the selection meeting may be fixed after consulting the Council's Officer in-charge of the project.

Thanking you,

Yours faithfully,

  
7/7/15  
for Member Secretary.

Copy to:

1. The Registrar  
Vel's University  
Pallavaram  
Chennai 600 117.

2. Dr.Vasantha  
Professor  
School of Management  
Vel's University  
Pallavaram, Chennai 600 117.

km  
7/7/15