



SCMS SCHOOL OF TECHNOLOGY AND MANAGEMENT (SSTM)
SCMS Campus, Prathap Nagar, Muttom, Aluva, COCHIN- 683 106. KERALA

CRITERIA 3

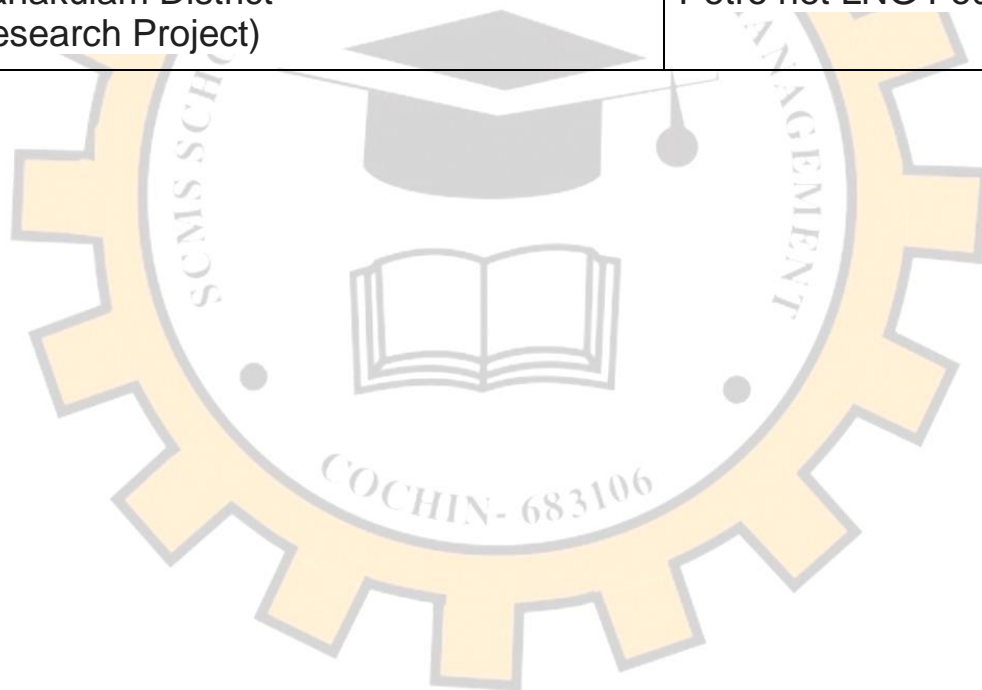
RESEARCH, INNOVATIONS AND EXTENSION

3.1: Resource Mobilization for Research.



3.1.1. Grants received from Government and non-governmental agencies for research projects, endowments in the institution during the last five years (INR in Lakhs)

| | Name of the research project/ endowment | Name of the Funding Agency |
|---|--|---|
| 1 | LAMP based point of care POC rapid and low-cost diagnostic test for COVID 19 (Research Project) | Biotechnology Industry Research Assistance Council (BIRAC) |
| 2 | Impact Assessment Study of Numma Oonu A hunger Eradication project in Eranakulam District (Research Project) | District unit of Kerala Hotel and Restaurant Association and Petro net LNG Foundation |



Ref. No. –BT/COVID0037/01/20Dated: August 03, 2020

Subject: Funding of Project entitled "LAMP based, point of care POC rapid and low cost diagnostic test for COVID-19" under strategic funding for Covid-19 Consortium under BIRAC.

GRANT-IN-AID LETTER AGREEMENT

This Grant-in-aid Letter Agreement (hereinafter called as "GLA") is between Biotechnology Industry Research Assistance Council, a Government of India enterprise, incorporated under the Companies Act, 2013 having its office at 1st Floor, MTNL Building, 9, CGO Complex, Lodhi Road, New Delhi- 110003 (the "BIRAC") and the entities mentioned below for research proposal entitled "LAMP based, point of care POC rapid and low cost diagnostic test for COVID-19" under strategic funding for Covid-19 Consortium under BIRAC.

1. Recipient(s) and Designated Project Investigator(s):

| S. N. | Recipient(s) | Designated Project Investigator |
|-------|--|---|
| 1 | M/s SCMS Institute of Bioscience and Biotechnology Research and Development, a Unit of M/s Prathap Foundation for Education and Training (Trust) having its registered office at SCMS Institute of Bioscience and Biotechnology R&D, Management House, South Kalamassery, Cochin 682033 Kerala, India. Hereinafter referred to as the "Institute" (which expression shall wherever the context so admits include its successors in interest, liquidators, administrators and permitted assignees). | Dr. C Sethulekshmy Nair Deputy Director SCMS Institute of Bioscience and Biotechnology Research and Development E-mail: sethulekshmy@scmsgroup.org Mob.: 91-9446373975 |
| 2 | M/s Malabar Cancer Center, a Society incorporated under the Societies Registration Act, 1860 having its registered office at Malabar Cancer Center, Kodyeri, Muzhikkara - MCC Rd, Illathaazha, Thalassery, 670103 Kerala India hereinafter referred to as the "Collaborator" (which expression shall wherever the context so admits include its successors in interest, liquidators, administrators and permitted assignees). | Dr Saravanan Murugesan Lecturer, Malabar Cancer Center E-mail: microbiosaravanan@gmail.com Mob. No: -91-9962651380 |

2. Aims & Objectives:

The detailed aims and the objectives that are to be executed by the aforesaid are as per the detailed Project document, submitted including revisions/ modifications incorporated therein (hereinafter called as "Project") and appended herein as **Schedule 3**.

The main objectives proposed to be achieved from the project are enumerated hereunder:

- Designing and synthesis of spike glycoprotein region nucleic acid and LAMP primers.
- Standardization of LAMP assay in synthesized nucleic acid region
- Optimization of LAMP assay using clinical samples.
- Validation of assay by ICMR/ NIV or equivalent regulatory agency.

Additional Objective may consist of effective management of health disasters or undertaking research connected therewith such as COVID-19 using the Project resources and through the implementing measures of the supported Project as may be identified in National interest and governed by a specific BIRAC Order

3. Project Duration: The Recipients shall complete the Project within the stipulated period of **6 months** from the date of execution of the Royalty agreement ("**Effective Date**"). Project Duration is subject to the Change order(s) issued by the BIRAC from time to time under this provision.

4. Project Implementation Site:(i). SCMS Institute of Bioscience and Biotechnology Research and Development, Management House, S Kalamassery, Cochin- 682033.
(ii). Malabar Cancer Center, Kodyeri, Muzhikkara - MCC Rd, Illathaazha, Thalassery, Kerala 670103

5. Project Cost and Contribution: The total estimated cost of the Project is **Rs. 37.00 Lakhs (Rupees Thirty Seven Lakhs Only)**. The contribution of BIRAC is **Rs. 28.00 Lakhs (Rupees Twenty Eight Lakhs Only)** as Grant-in-aid to SCMS Institute of Bioscience and Biotechnology Research and Development and **Rs. 9.00 Lakhs (Rupees Nine Lakhs Only)** as Grant-in-aid to Malabar Cancer Center on the terms and conditions detailed in this GLA.

6. BIRAC Budget break-up:**(Rs. in lakhs)**

| Budget Head | BIRAC Support to Institute (SIBB-R&D) | BIRAC Contribution to Collaborator (Malabar Cancer Center) | Total |
|--------------------|--|---|--------------|
| Non-Recurring | 9.00 | 2.00 | 11.00 |
| Recurring | 19.00 | 7.00 | 26.00 |
| Total | 28.00 | 9.00 | 37.00 |

(Rs. in lakhs)

| Heads | BIRAC Contribution to Institute (SIBB-R&D) | BIRAC Contribution to Collaborator (Malabar Cancer Center) | Total |
|------------------|--|--|--------------|
| Recurring | | | |
| Consumables | 6.00 | 2.00 | 8.00 |
| Man-power | 2.50 | 2.50 | 5.00 |
| Travel | 1.50 | 0.50 | 2.00 |
| Outsourcing | 5.00 | 0.00 | 5.00 |
| Contingency | 4.00 | 2.00 | 6.00 |
| Total | 19.00 | 7.00 | 26.00 |

(Rs. in lakhs)

| Non-Recurring | | | |
|----------------------|--|--|--------------|
| Heads | BIRAC Contribution to Institute (SIBB-R&D) | BIRAC Contribution to Collaborator (Malabar Cancer Center) | Total |
| Equipment | 8.00 | 1.00 | 9.00 |
| Accessories | 1.00 | 1.00 | 2.00 |
| Total | 9.00 | 2.00 | 11.00 |

Details of Equipment Proposed To Be Acquired Through Institute Contribution

| S. No | Infrastructure/ Equipment | Specific Requirement In The Project | Capacity | Quantity | Estimated Value (Rs. In Lakhs) |
|-------|---------------------------|-------------------------------------|----------|----------|--------------------------------|
| NA | | | | | |

Details of Equipment Proposed To Be Acquired Through BIRAC Contribution For Institute

| S. No | Infrastructure/ Equipment | Specific Requirement In The Project | Capacity | Quantity | Estimated Value (Rs. In Lakhs) |
|-------|--|--|----------|----------|--------------------------------|
| 1 | Deep Freezer, - 80°C | Exclusive for the project related specimen and chemicals storage | 340L | 1 | 6.00 |
| 2 | Refrigerated benchtop micro centrifuge | For sample processing | normal | 1 | 2.00 |
| | Total | | | | 8.00 |
| | Accessories to be Acquired (Rs. in lakhs) | | | | 1.00 |
| | Grant Total | | | | 9.00 |

Details of Equipment Proposed To Be Acquired Through BIRAC Contribution For Collaborator.

| S. No | Infrastructure/ Equipment | Specific Requirement In The Project | Capacity | Quantity | Estimated Value (Rs. In Lakhs) |
|--|---|---|----------|----------|--------------------------------|
| 1 | PCR accessories, Centrifuge accessories like rotor etc related to the project | Essential for the modification of assay for Point-of-Care | - | 1 | 1.00 |
| Total | | | | | 1.00 |
| Accessories to be Acquired (Rs. in lakhs) | | | | | 1.00 |
| Grant Total | | | | | 2.00 |

7. Milestones/ Timelines

| Instalment | Milestones | Month of end of activity | Required financial input (Rs. In Lakhs) | |
|-----------------|--|--------------------------|--|--|
| | | | Applicant | Collaborator |
| 1 st | Acceptance of Undertaking under GLA and Signing of GLA. Fulfilment of fund release requirements | 1 | 19.60 (70% of BIRAC contribution and 70 % of Applicant input) | 6.30 (70% of BIRAC contribution and 70 % of Collaborator input) |
| 2 nd | Status report on Standardization of LAMP assay in synthesized nucleic acid region And Submission of UC/SOE for the corresponding milestone certified by internal finance. | 4 | 0 (0% of BIRAC contribution and 0 % of Applicant input) | 0 (0% of BIRAC contribution and 0 % of Collaborator input) |
| 3 rd | Status report on Validation of assay by ICMR/ NIV or equivalent regulatory agency and submission of project completion report And Submission of final completion report, consolidated Utilization Certificate (UC) and Statement of Expenses (SOE) duly certified by Chartered Accountant (CA)/Auditor. | 6 | 8.40 (30% of BIRAC contribution and 30% of Applicant input) | 2.70 (30% of BIRAC contribution and 30 % of Collaborator input) |

Note:- Utilization Certificate (UC) and Statements of Expenses (SOE) duly audited by a chartered accountant for the expenditure incurred towards the Project every half yearly , ending 30th September and 31st March, to BIRAC, within a month of closure of the accounts for the respective half year should be submitted till completion of Project Duration.

The Institute and collaborator shall submit audited Annual reports along with the audited balance sheets and profit & loss accounts to BIRAC within six months of the completion of the financial year ending 31st March till the Project duration.

***Regulatory Requirements :**

- Test license from CDSCO.

8. Specific conditions of Implementation

- Sale of products out of this project in India will be subjected to negotiation of pricing by BIRAC/Government of India to promote affordability on account of the grant-in-assistance under BIRAC.
- Government orders will be given preference over private orders for all products coming out of this project.

9. Periodic Payment/Release Arrangements of the project support based on milestones

(Rs. In lakhs)

| Instalment | BIRAC Contribution to Institute | BIRAC Contribution to collaborator | Total (Rs. in Lakhs) |
|-------------------|--|---|-----------------------------|
| 1 st | 19.60 | 6.30 | 25.90 |
| 2 nd | 0.00 | 0.00 | 0.00 |
| 3 rd | 8.40 | 2.70 | 11.10 |
| Total | 28.00 | 9.00 | 37.00 |

10. *The recipient of the fund should convey their acceptance to the terms and conditions of this GLA within four (4) weeks of the issue of GLA failing which the present offer of the funding support will be considered as infructuous and the project will be treated as withdrawn*

11. Inclusion by Reference:

| | |
|---|--|
| This GLA includes and incorporates by this reference: | <ul style="list-style-type: none"> -Terms and Conditions (Schedule 1) - Acceptance and Undertaking (Schedule 2) - Project document (Schedule 3) - Intellectual Property Governing Framework (Schedule 4) |
|---|--|

12. The Expenditure is debitable to **B.0.15b** - Head of Accounts for the financial year 2020-2021.

13. This issue with the approval of competent authority vide BFD No: BFD/AO/B.15(b)/048/2020-2021 dated July 22, 2020.

14. The GLA has been noted at Serial No. 20 in the Register of Grant/Cost.

BCX1XD

THIS GLA is between Biotechnology Industry Research Assistance Council ("**BIRAC**") and "**SCMS Institute of Bioscience and Biotechnology Research and Development**" and "**Malabar Cancer Center**", and is effective as of the date of last signature. Each party to this GLA may be referred to individually as a "Party", "**SCMS Institute of Bioscience and Biotechnology Research and Development, a Unit of M/s Prathap Foundation for Education and Training(Trust)**" as "**Institute**" and "**Malabar Cancer Center**" as "**Collaborator**", Institute and collaborator together as "**Fund recipient**", and all Party together as the "Parties." As a condition of this grant, the Parties enter into this GLA by having their authorized representatives sign below:

| |
|--------------------------------------|
| I) For and on behalf of BIRAC |
| Name: Dr. P.K.S. Sarma |
| Designation: Head-Technical, BIRAC |
| Signature |
| Official Seal |

| |
|--|
| II) For and on behalf of M/s “SCMS Institute of Bioscience and Biotechnology Research and Development, a Unit of M/s Prathap Foundation for Education and Training (Trust)” “Institute” duly authorized vide Resolution No..... Dated Of its Board of Trustees. |
| Name |
| Signature |
| Designation |
| Seal of Organization |

| |
|--|
| III) For and on behalf of M/s “Malabar Cancer Center” “the Collaborator” duly authorized vide authorization letter dated..... |
| Name |
| Signature |
| Designation |
| Seal of Organization |

The terms and conditions for Project support under Grant-in-aid Letter Agreement (hereinafter called as “GLA”) are as follows;

1. FUND DISBURSEMENT

- i. First installment of the Grant-in-aid will be released after issue of the GLA subject to fulfillment of the terms and conditions for such release by the relevant Parties. Further release of funds shall be subject to satisfactory progress against the objectives, outputs, milestones and targets specified in the Project which progress shall be determined by BIRAC and on submission of audited/certified statements of accounts and utilization certificates as provided for in Point 2 (a).

2. FUND UTILISATION AND ACCOUNTING

- a. The Fund Recipient shall submit the Utilization Certificate (UC) and Statements of Expenses (SoE) duly audited by a Chartered Accountant (CA) as required for the project under the GLA.
- b. The Fund Recipient shall submit final consolidated UC and SoE duly certified by a CA/Auditor to BIRAC in the format provided on the completion of the project.
- c. The input credit for the expenditures incurred under the project out of Grant-in-aid shall be reported to BIRAC as a part of utilization certificate against the corresponding entry-“Amount of GST Input credit”. Such amount, if any, will be considered accordingly at the time of the release of the next installment.
- d. The Fund Recipient shall submit audited Annual reports along with the audited balance sheets and profit & loss accounts to BIRAC within six months of the completion of the financial year ending 31st March till the completion of the Project Duration.
- e. The fund recipient shall keep the Grant-in-aid assistance in an interest bearing account with a Scheduled Bank (as defined under the RBI Act, 1934), the withdrawals and payments from which account shall be subject to verification by BIRAC. The interest earned on the Grant-in-aid should be reported to BIRAC. The interest thus earned on the grant in aid will be adjusted towards further installment of the fund.
- f. The Fund Recipient shall ensure that the funds released for the Project are actually utilized only for the purposes of the Project and as expressly provided for in this GLA. Re-appropriation of BIRAC funds from one budget head to another shall not be effected without the specific written approval of BIRAC;
- g. The Fund Recipient shall refund such part of Grant-in-aid funds disbursed to it that remains unutilized with it upon completion of all the responsibilities, duties and functions specified in connection with the Project, within one month of such completion, to BIRAC along with consolidated accounts of the funds received and utilized and of the unutilized balance returned (UC &SOE);

- h. The Fund Recipient at their own cost shall take adequate care to maintain the capital assets acquired for the Project through BIRAC's Grant-in-aid. The capital assets acquired through BIRAC's Grant-in-aid shall not be disposed of or hypothecated without the specific approval of BIRAC till full and final settlement of all dues to the satisfaction of BIRAC.
- i. The Procurements for the Project shall be in accordance with the best commercial practices if the fund recipient is a Company/LLP and shall be in accordance with the procurement framework prescribed by BIRAC if the fund recipient is a Government/ public Institution.
- j. The Fund Recipient shall give prior information to BIRAC about additional funding from any other government/ private source (National/ International) for the same project objectives availed at any time before the project completion**

3. NATIONALLY IMPORTANT PROJECTS:

If certain Projects are determined as nationally important Projects, then BIRAC will issue a specific "Order" to make the following provisions applicable;

- A.** In such cases of national importance BIRAC shall retain a royalty-free, non-exclusive, irrevocable license to the Product developed with the funding support of BIRAC with right to sub-license for the purposes of public interest/Government of India and/or as decided by the committee. The licensor of such Product will ensure that where the Product has been produced in collaboration with entities not in receipt of BIRAC's Grant-in-aid, such collaborators will also grant license to BIRAC in the same way.
- B.** Nationally Important Projects shall mean such Projects that will serve specific purposes notified by Government of India in public interest.
- C.** In cases of national importance, if BIRAC determines that such –
 - a)** Action is necessary because the Fund Recipient or licensee/s has not taken, within the period of four (4) years from the date of completion of the Project, effective steps to commercialize the Product in such field of use;
 - b)** Action is necessary to meet requirements for public use or national interest and such requirements are not reasonably satisfied by the Fund Recipient or licensee/s;

Then, March-in-rights are applicable whereby;

- i.** BIRAC along with retainment of royalty-free, non-exclusive, irrevocable license to the Product, after taking into consideration the fund recipient's requirement for reasonable expansion and the demand supply gap at the appropriate time, shall have the right to require the Fund Recipient to transfer the technical know-how of the Product developed under the Project to other entrepreneur(s) and train them, on such terms and conditions as may be mutually agreed among BIRAC, the fund recipient and such other entrepreneur(s). Provided, BIRAC shall reserve its right to require that the Product must be manufactured and sold in India.

- ii. If the fund recipient (s) does not agree with the terms of above sub section (i), then BIRAC shall require that all rights and interests associated with the Product including Intellectual Property (IP) Rights to be assigned to BIRAC. The Fund Recipient(s) and co-owners of the IP shall undertake all necessary actions to affect the assignment.

4. PROJECT MONITORING

A Project Monitoring Committee (PMC) comprising of eminent experts from the respective field(s)/Internal BIRAC and NBM members will be constituted to monitor the progress of the objective(s) of the Project. The functions of the PMC shall be as follows:

- a. To monitor the progress of the Project in conformity with the outputs, milestones, targets objectives and other terms and conditions as contained in the GLA
- b. To keep track of funding from any other source for the Project.
- c. To assess the global developments impacting the domain of the Project.
- d. Based on the foregoing, to assess and recommend:
 - i. the release of next installment or part release thereof by the BIRAC.
 - ii. revision of Project Duration
 - iii. closing, dropping or modifying any of the components of the Project, within the overall approved objectives, budget and time-frame,
 - iv. inclusion of additional industrial/institutional partner(s), if the Fund Recipient and the Institutes requests involvement of such partner(s), in the overall interest of the Project; and
 - v. revision of the financial assistance.
- e. To advise on issues related to securing of IPR and mentor to overcome any technological problem faced in the Project implementation; and
- f. To advise on any other matter as referred to it by BIRAC and/or otherwise reasonably necessary for effective discharge of its duties and/or achievement of aims and objectives of the Schemes.

5. INDEMNIFICATION

- a. The Fund Recipient shall, at all times, indemnify and keep indemnified BIRAC against any claims or suits in respect of any losses, damages or compensation payable in consequences of any accident, death or injury sustained by their employees or by any other third party resulting from or by any act, omission or operation conducted by or on their behalf;
- b. The Fund Recipient shall, at all times, indemnify and keep indemnified BIRAC against all claims/damages etc. by any infringement of any Intellectual Property Rights (IPR) while carrying out their responsibilities/work under the Project and this GLA.
- c. The provision of Grant-in-aid funds by BIRAC does not create any liability, explicit or implicit, on BIRAC in respect of the manpower engaged in the Project.
- d. The Parties shall not be held responsible for non-fulfillment of their respective obligations in successful completion of the Project under this GLA due to the exigency of one or more force majeure events such as but not limited to acts of God, war, flood, earthquakes etc.
- e. BIRAC through the Project funding shall not be held as a “Sponsor” in terms of the Clinical Trial statutes and the Fund Recipient are entirely responsible for abiding by the relevant laws, Rules and Regulations of the land if any Phase of the Clinical Trial is a Project Component.

6. CHANGE OF CONTROL:

BIRAC shall reserve the right to reconsider further funding assistance, governance of the New Intellectual Property and consider refund of the amount of Grant-in-aid in such circumstances of change of control as mentioned the following paragraphs;

- a. The Fund Recipient shall inform BIRAC if it proposes to undertake or permit any merger, consolidation, reorganization scheme of arrangement or compromise with its creditors or shareholders or effect any scheme of amalgamation or reconstitution or substantial expansion. The word 'substantial expansion' shall have the same meaning as under the Industries (development and Regulation) Act, 1951.
- b. The Fund Recipient shall inform BIRAC within 30 (thirty) days, if it has notice of any application for winding up having been made or any statutory notice of winding up under the provisions of the Companies Act, 2013, or any other notice under any other Act or otherwise of any suit or other legal process intended to be filed or initiated against the Fund Recipient and affecting the title to the properties of the Fund Recipient or if a receiver is appointed of any of its properties or business or undertaking.
- c. The Fund Recipient shall notify BIRAC of any material change in its shareholding pattern, entity status, entity name, Project Coordinator, implementation site, registered office or any such change that would impact on performance of its obligations under the Project and this GLA.

7. FORECLOSURE AND TERMINATION

- a. In case, during the Project Duration, it is found that the Project or any Project component is not likely to lead to successful completion, BIRAC may decide to foreclose the Project or the Project component as warranted. The decision of the BIRAC shall be final in all respects. The Fund Recipient shall immediately refund any Grant-in-aid unutilized out of BIRAC's disbursements to BIRAC. BIRAC, at its discretion can allow deduction of the future committed expenses to third party vendors on pro-rata basis according to the quantum of BIRAC's funding. The Fund Recipient shall submit consolidated accounts of funds received, utilized and unutilized (UC&SOE). If the Fund Recipient likes to continue the Project at its own cost, it would be able to do so without restrictions from BIRAC after complying with these provisions.
- b. The Fund Recipient may, before the completion of the Project, terminate this GLA by giving three months' notice in writing to BIRAC. BIRAC may also terminate this GLA by written notice in the event of committing breach of any term of this GLA and either not rectifying it to the satisfaction of BIRAC or not satisfying BIRAC about its inevitability within a specified period. In the event of termination of the GLA, no further disbursement shall be made by BIRAC. The Fund Recipient shall be liable to return immediately the amount of Grant-in-aid already availed of from BIRAC with additional simple interest at the rate of 12 (twelve) per cent per annum within 30 (thirty) days of termination of the GLA. Interest on the quantum of funding assistance shall accrue from the date of release of the grant in aid assistance. In case of failure to repay, without prejudice to any other rights under this GLA, the amount can be recovered by initiating any procedure available in Law.

8. DISPUTE RESOLUTION AND ARBITRATION

In the event of any dispute or difference between the Parties hereto upon or in relation to or in connection with this GLA, such dispute or difference, shall be resolved amicably and in

good faith by mutual consultation.

If such resolution is not possible, then the unresolved dispute or difference whatsoever arising between the Parties out of or relation to the construction, meaning, scope, operation or effect of this GLA or the validity the breach thereof or in respect of any defined legal relationship associated therewith or derived there from dispute shall be submitted for arbitration to International Center for Alternate Dispute Resolution (ICADR), an autonomous organization working under the aegis of the Ministry of Law & Justice, Department of Legal Affairs, Government of India. The Authority to appoint the arbitrator(s) shall be the ICADR. The Arbitration under this Clause and provision of administrative services by ICADR shall be in accordance with the ICADR Arbitration Rules, 1996 read with The New Delhi International Arbitration Centre Act 2019. The award made in pursuance thereof shall be binding on the Parties. The venue of arbitration shall be New Delhi and the arbitration proceedings shall be conducted in English Language. The provision of this Clause shall not become inoperative notwithstanding the GLA expiring or ceasing to exist or being terminated or foreclosed.

9. EFFECT AND AMENDMENTS TO THE GLA

- a. GLA shall remain in force for whichever of these is the longest time unless suspended sooner:
- a. For **6 Months** (Project duration) months from the above Effective Date subject to the Change Order(s) issued by the BIRAC from time to time
- b. As long as any part of the amount disbursed for the Project remains unspent; or
- c. For as long as any monitoring or recording or IP governance is required under any relevant laws and regulations.
- b. No amendment or modification of this GLA shall be valid unless the same is made in writing by the Parties or their authorized representatives specifically stating the same to be an amendment of this GLA. The modifications / changes shall be effective from the date on which they are made / executed unless otherwise agreed to.

10. SEVERABILITY

In case any one or more of the provisions or parts of a provision contained in this GLA shall, for any reason, be held to be invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceability shall not affect any other provision or part of a provision of this GLA; and this GLA shall, to the fullest extent lawful, be construed as if such invalid or illegal or unenforceable provision, or part of a provision, had never been contained herein.

11. GOVERNING LAW

This GLA and the associated undertaking shall be governed and interpreted in accordance with the laws of India subject to the exclusive jurisdiction of the Courts at New Delhi.

Acceptance & Undertaking

In consideration of the foregoing, the Company, intending to be admittedly bound by the terms set forth above, undertake as stated below;

The Fund Recipient shall;

1. Execute the activities as set out in the Project document and shall conform to the specified objectives, outputs, milestones, and targets therein at **Schedule 3**.
2. Submit periodic Progress report to BIRAC as per the Project milestones, details of activities involved in performing the Project activities
3. Submit Utilization Certificate (UC) and Statements of Accounts Expenses (SOE) as per **Schedule 1**.
4. Comply with the fund utilization and accounting requirements as per Schedule 1.
5. Obtain all the necessary requisite approvals, clearance certificates, permissions and licenses from the Government/local authorities for conducting its activities/ operations in connection with the Project.
6. Abide by the decisions of BIRAC to modify the objectives, outputs, milestones, targets, Project Grant-in-aid as also the foreclosure of the Project or any of its components as may be arrived at after mutual discussion.
7. Subject itself to Project monitoring of the Project Monitoring Committee (PMC).
8. Maintain strict confidentiality and refrain from disclosure thereof, of all or any part of such information and data exchanged/generated from the Project which is not in the public domain by use and/or publication at the time of its disclosure except for purposes in accordance with this Project or is required by public authority, by law or decree.
9. Complete the Project within the stipulated period subject to the Change Order(s) issued by the BIRAC from time to time.
10. Not sub-delegate or outsource the obligations under this GLA without express permission of BIRAC except as provided for in the Project Document
11. Manage the Intellectual Property developed through the funding Assistance of BIRAC in a manner that ascertains Global Access, regardless of whether this GLA expires, foreclosed or terminated.
12. Adhere to this GLA and the Conditions of Grant, as, violation of any provision of which shall be the reason for suspension of the Grant.
13. Consider any changes to the provisions of this GLA when made in writing only and shall consider any notice duly served if the same shall have been delivered electronically through the official mail of the Project Coordinator or delivered by post at the addresses mentioned in the GLA.
14. **The fund recipient shall** abide by the specific Institute disclosure obligations as per Schedule 1.
15. Acknowledge the assistance of BIRAC while publishing or presenting in any manner the details of the Project, its progress or its success or commercialization of the Project.

IN ACCEPTANCE WHEREOF the fund recipients hereto through their duly authorized representatives have signed this undertaking as set below:

For and on behalf of M/s **SCMS Institute of Bioscience and Biotechnology Research and Development, Unit of M/s Prathap Foundation for Education and Training (Trust), "Institute"**

Date and Place:

Signature

Name

Designation

Seal

Witnesses

Signature

Name

Address

For and on behalf of M/s **Malabar Cancer Center**, “the Collaborator”

Date and Place:

Signature

Name

Designation

Seal

Witnesses

Signature

Name

Address

Project Document:

| |
|---|
| PROPOSAL OBJECTIVES |
| Objective1: Design and standardization of loop-mediated isothermal amplification assay in synthesized spike glycoprotein region nucleic acid and validation using clinical samples |
| Methodology/Experimental Design to Accomplish The Stated Objective: |
| <p>1. Designing of LAMP primer – LAMP primers can be designed by using the primer explorer V5 software from spike region for specific identification of COVID19</p> <p>2. LAMP Assay with clinical samples – The template will be incubated at 63-65°C by treating it with LAMP primers and LAMP isothermal reaction master mix for a maximum of 50 minutes. After the reaction, the reaction mixture will be treated with LCV crystal violet solution for further 20 minutes at 65°C for developing the color. From the color change and intensity of the color, we can identify the negative as well as positive samples and from the intensity of the color, the viral load can be determined.</p> |
| Alternate Strategies: |
| Designing of LAMP primers from various regions of spike protein and LAMP assay with alternate primers |
| Process Indicators for Measuring Success: |
| PCR amplification of the region and Real time PCR for the estimation of copy number and validation of assay. |

| OBJECTIVE WISE ACTIVITIES & TIMELINES | | | |
|---|-----------------------------------|---------------------------------|-----------------------------|
| Design and standardization of loop-mediated isothermal amplification assay in synthesized spike glycoprotein region nucleic acid and validation using clinical samples | | | |
| Activities | Month of Start of Activity | Month of End of Activity | Deliverables |
| Designing and synthesis of spike glycoprotein region nucleic acid and LAMP primers. | 0 | 1 | Signing & PCR amplification |
| Standardization of LAMP assay in synthesized nucleic acid region. | 1 | 3 | Real time comparison |
| Optimization of LAMP assay using clinical samples. | 3 | 4 | Real time comparison |
| Validation of assay by ICMR/NIV or equivalent regulatory agency. | 4 | 6 | As per BIRAC suggestions |

Milestones and Timelines:

| Milestones | Month of End of Activity |
|--|---------------------------------|
| Signing of Contract | 0 |
| Standardization of LAMP assay in synthesized nucleic acid region. | 4 |
| Validation of assay by ICMR/ NIV or equivalent regulatory agency and submission of project completion report | 6 |
| Submission of Report | 6 |

INTELLECTUAL PROPERTY GOVERNING FRAMEWORK

1. SCOPE OF IP GENERATED DURING THE CONDUCT OF THE PROJECT

- a) The New Intellectual Property (IP) rights belong to fund recipients unless agreed otherwise.
 Provided, this Project is not determined as a “Nationally Important Project” to be governed through specific ‘Order of BIRAC’. Such cases of “Nationally Important Project” shall have specific terms of licensing, pricing or March-in-rights for the purposes of public interest/ demand of Government of India.
- b) It is the responsibility of the Fund Recipients to protect the New Intellectual Property (New IP). They shall bear the expenditure involved in protecting the New IP.

2. GLOBAL ACCESS

The Fund Recipient agree to conduct and manage the Project and the resulting products, services, processes, technologies, materials, software, data or other innovations (collectively, “Product”) and any IP that arises (New IP) in the manner that ensures “Global Access.”

Global Access requires that

- a) The knowledge and information gained from the Project be promptly and broadly disseminated or published.
- b) Project Developments and/or New IP are made available and accessible at an affordable price to people most in need within developing countries.
- c) In this regard, ensure Global Access in all present and future research and development agreements in a suitable form.

NOTE: For the purpose of this GLA, New IP means intellectual property generated during the conduct of the Project by the Company, but excluding the intellectual property generated by the Fund Recipient before execution of this GLA and any IP generated outside the scope of this GLA even during the term of this GLA.

- 1. The background Intellectual Property (IP) generated by the Fund Recipient(s) before execution of this GLA are as provided hereunder;

| | |
|--|-----------------------------------|
| I | Background IP of the Applicant |
| The applicant does not own any IP related to the proposal | |
| II | Background IP of the Collaborator |
| The collaborator does not own any IP related to the proposal | |

Utilization Certificate for collaborator for BIRAC Contribution
(For the period from 01.04.2020 to 31.03.2021 & 01.04.2021 to 31.03.2022)

| | | | |
|-----|---|---|------------|
| 1. | Project Ref. No. | BT/COVID0037/01/20 | |
| 2. | Title of the Project | LAMP based, point of care POC rapid and low cost diagnostic test for COVID-19 | |
| 3. | Name of the Company/Institute | SCMS Institute of Bioscience & Biotechnology, Research & Development | |
| 4. | Project Coordinator | Dr Sethulekshmy Nair C | |
| 5. | BIRAC sanction order No. | BT/COVID0037/01/20 | |
| 6. | Date of Sanction of Project | August 03, 2020 | |
| 7. | Bank Account No. | 856910110006912 (Bank of India) | |
| 8. | Amount brought forward from the previous period quoting BIRAC letter No. & date in which the authority to carry forward the said amount was given | Grants -in-aid | NIL |
| | | Loan | |
| | | Total | |
| 9. | Amount received from BIRAC during this period (Please give No. & dates of Sanction order showing the amounts) | Grants -in-aid | 1960000.00 |
| | | Loan | - |
| | | Total | 1960000.00 |
| 10. | Other receipts/interest earned, if any, on the BIRAC grants and/or loan | NIL | |
| 11. | Total amount that was available for expenditure during this period (Sl nos.8+ 9 + 10) | 1960000.00 | |
| 12. | Actual expenditure (excluding commitments) Incurred during the period (Statement of Expenditure is enclosed) | Grants -in-aid | 2066368.00 |
| | | Loan | |
| | | Total | 2066368.00 |
| 13. | Unspent balance refunded , if any to the BIRAC (Please give details of cheque no. etc.) | NIL | |
| 14. | Balance amount available at the end of the period | NIL | |
| 15. | Amount carried forward to the next period vide letter no. dated | Grants -in-aid | NIL |
| | | Loan | |
| | | Total | |

Certified that an amount of Rs.20,66,368/- (Rs. Twenty Lakhs Sixty Six Thousand Three Hundred Sixty Eight Only) mentioned against Sl. No. 12, was actually utilized on the project for the purpose for which it was sanctioned. Certified that the conditions on which the grants in aid and/or loan was sanctioned have been duly fulfilled / are being fulfilled and that the checks have been exercised to see that the money was actually utilized for the purpose for which it was sanctioned.

Date: _____

(Project Coordinator)

(Finance Officer of the Institute)

(Head of the Institute)

(Chartered Accountant)

For SUBHASH CHANDRAN ASSOCIATES
CHARTERED ACCOUNTANTS Form - 3



S.ABHILASH CHANDRAN B.Com, FCA
PARTNER. (M. No. 223576)
FRN 004095S

UDIN - 22223576AKVQLW7834

13.6.2022

**Statement of Expenditure
Table 1**

(For the period from 01.04.2020 to 31.03.2021 & 01.04.2021 to 31.03.2022)

| Item | Part A: Receipt details | Contribution by BIRAC during this period | Total amount available during this period | Part B: Expenditure details | Part C: Balance/Unspent amount | | (Rs. in Lakhs) |
|---|--|--|---|---|--------------------------------|---|----------------|
| | Unspent balance Carried forward from the previous period | | | Actual Expenditure incurred during the period | Balance/Unspent amount | (Amount to be carried forward to the next period) | |
| 1 | 2 | 3 | 4 (2+3) | 5 | 6 (4-5) | 7 | |
| (A) Non-Recurring (Details of items procured and/or ordered to be provided in Table 2) | | | | | | | |
| (1) Equipments & Accessories | | 630000.00 | 630000.00 | 872270.00 | -242270.00 | | |
| Total A | | 630000.00 | 630000.00 | 872270.00 | -242270.00 | | |
| (1) Manpower | | 175000.00 | 175000.00 | 243000.00 | -68000.00 | | |
| (2) Consumables | | 420000.00 | 420000.00 | 440534.00 | -20534.00 | | |
| (3) Travel | | 105000.00 | 105000.00 | 23749.00 | 81251.00 | | |
| (4) Contingency | | 280000.00 | 280000.00 | 384392.00 | -104392.00 | | |
| (5) Overheads | | 0.00 | 0.00 | 0.00 | 0.00 | | |
| (6) Outsourcing | | 350000.00 | 350000.00 | 102423.00 | 247577.00 | | |
| Total B | | 1330000.00 | 1330000.00 | 1194098.00 | 135902.00 | | |
| Total A+B | | 1960000.00 | 1960000.00 | 2066368.00 | -106368.00 | | |
| Interest Earned(C) | | 0.00 | 0.00 | 0.00 | 0 | | |
| Net Total (A+B+C) | | 1960000.00 | 1960000.00 | 2066368.00 | -106368.00 | | |

[Signature]

(Project Coordinator)
Institute



[Signature]

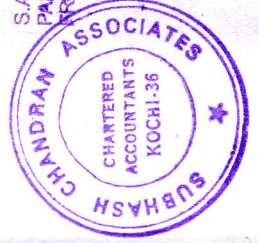
(Finance Officer of the Institute)

[Signature]

(Head of the Institute)

(Chartered Accountant)

For SUBHASH CHANDRAN ASSOCIATES
CHARTERED ACCOUNTANTS



SABHILASH CHANDRAN B.Com, FCA
PARTNER (M. No. 223576)
UDIN 13/06/2022

22223576 AKVQC W7834

Details of Committed Expenditure
Table 2

| S. No. | Head of Expenditure | Particulars | Tentative Amount (Rs. in Lakhs)* | Tentative date of Actual Expenditure |
|--------|--------------------------|--|----------------------------------|--------------------------------------|
| 1 | Equipments & Accessories | Purchase of Deep Freezer From Biovision | 666400.00 | 02.02.2021 |
| 2 | Manpower | Salary paid to Devaki Suresh & Madona Lien Paul | 63000.00 | 07.01.2021 |
| 3 | Consumables | Purchase of Lab Consumables from Vision Scientific | 213328.00 | 11.10.2021 |
| 4 | Travel | Travel Expense paid to Dr.Harish | 6399.00 | 31.03.2021 |
| 5 | Contingency | Purchase of Lab items from Vision Scientific | 74627.00 | 22.11.2021 |
| 6 | Overheads | | 0.00 | |

* Supporting documents like purchase order, quotation, performa invoice etc. has to be annexed

Detail of Capital Assets
Table 3

| S. No. | Item | Price as indicated in the original budget (Rs. in Lakhs) | Actual cost (Rs. in Lakhs) | Date of procurement | Details of Insurance | |
|--------|--------------|--|----------------------------|---------------------|----------------------|--------------------|
| | | | | | Period of Insurance | Amount Beneficiary |
| 1 | DEEP FREEZER | | 666400.00 | 15.01.2021 | | |
| 2 | CENTRIFUGE | | 205870.00 | 29.02.2021 | | |

Date:

[Signature]

(Project Coordinator)

(Finance Officer of the Institute)

[Signature]

(Head of the Institute)

For SUBHASH CHANDRAN ASSOCIATES
CHARTERED ACCOUNTANTS

S.ABHILASH CHANDRAN, B.Com, FCA
PARTNER, (M. No. 223576)
FRN 0040955

(Chartered Accountant)

VOIN 13/06/2022

22223576 AKVRC W783



ED CLUB Sur/Petronet LNG - NummaOoonu



Petronet LNG Foundation

"An Organization Committed to Sustainable Social Growth"
(A wholly owned subsidiary of Petronet LNG Limited)

Ref No.: PLF/KOCHI/CSR/SER/4358/2019-20/WO

Date: 12.08.2019

WORK ORDER

To,
M/s **SCMS Centre of research, Consultancy and Training (SCRCT)**
SCMS Campus, Prathap Nagar,
Muttom, Aluva,
Cochin-683 106
Ph: +91 484 2625004/5
Email: sstm@scmsgroup.org

Ref: Your offer dated: 06.08.2019 for Impact Assessment Study of 'Numma Oonu'- A hunger eradication project in Ernakulam district.

Sub: Carrying out Impact Assessment Study of 'Numma Oonu'- A hunger eradication project in Ernakulam district.

Dear Sir,

With reference to the above, we are pleased to issue this Work Order for the subject job as below:

1. SCOPE OF WORK:

The scope of work in brief includes "Carrying out Impact Assessment Study of 'Numma Oonu'- A hunger eradication project in Ernakulam district" as detailed in the attached Annexure-I on behalf of Petronet LNG Foundation Limited (PLF).

2. CONTRACT DURATION:

Time is the essence of the contract and the contract shall be valid for from 12.08.2019 upto 11.11.2019

3. TOTAL ORDER VALUE:

The Total Order Value for the complete scope of work as mentioned in Clause-1 above comes to Rs. 50,000.00 (Rupees Fifty Thousand Only) exclusive of all taxes as detailed below:

| Sl No | Item Description | UoM | Qty | Unit Rate in Rs. | Amount in Rs. |
|-------|--|-----|-----|------------------|-----------------|
| 1 | Student Data collection expenses (500 * 10 Teams * 4 days) | Lot | 1 | 20,000.00 | 20,000.00 |
| 2 | Data Entry expenses | Lot | 1 | 5,000.00 | 5,000.00 |
| 3 | Printing (questionnaire & Reports) Charges | Lot | 1 | 10,000.00 | 10,000.00 |
| 4 | Contingency Charges | Lot | 1 | 10,000.00 | 10,000.00 |
| 5 | Travel Charges | Lot | 1 | 5,000.00 | 5,000.00 |
| | Sub Total | | | | 50,000.00 |
| | GST @ 18% | | | | Extra @ actuals |
| | GRAND TOTAL (Exclusive of GST) | | | | 50,000.00 |



Page 1 of 2

304 - 3rd Floor, World Trade Centre, Babar Road, Connaught Place, New Delhi - 110001, INDIA

Tel : +91-11-23415512 • Email : info@petronetlngfoundation.org • Website : www.petronetlngfoundation.org

CIN : U85320DL2017NPL315422

- i. The rates mentioned here are complete, composite and firm for the entire contract period and inclusive of all the expenses necessary for continuance of the services under the contract and M/s SCMS Centre of research, Consultancy and Training (SCRCT) shall bear all tax liabilities, duties, Govt. levies etc. including Corporate and personnel taxes levied or imposed, on account of payments received from the PLF for the work done except GST.
- ii. It shall be the responsibility of M/s SCRCT to submit to the concerned Indian authorities, the returns and all other concerned documents required for this purpose and to comply in all respects with the requirements of the laws in this regard, in time.
- iii. Payment shall be made only as per above schedule of rates subject to deductions, if any. TDS would be in the scope of PLL.
- iv. M/s SCRCT shall submit Invoice under GST Rules in triplicate on pre-printed format, duly signed & stamped.
- v. PAN and GST No. of M/s SCRCT as well as of PLF shall be clearly mentioned on the invoice.
- vi. The billing shall be done as per actual work carried out certified by the OIC of PLF. The charges shall be reduced on prorata basis in case the services are not provided/availed.
- vii. The Contingency charges shall be released on actual incurrence and submission of bills.

4. PAYMENT TERMS:

100 % Payment shall be made within 15 (fifteen) days of completion of work duly verified by OIC subject to recoveries, if any.

5. OFFICER-IN-CHARGE:

Mr. Dilip Madhavan (Manager- Fire) shall be the Officer-In-Charge (OIC) for the subject

This work order is being issued to you in duplicate. You are requested to return one copy, duly signed and stamped on each page, in token of your acceptance of the same within 7 (seven) days from the date of this work order.

Thanking you,

For and on behalf of

Petronet LNG Foundation Limited





AUTHORIZED SIGNATORY

Enclosures:

1) Annexure-I: 3 Pages



**PETRONET LNG FOUNDATION
LOCATION - KOCHI
Scope of Work**

Ref No.: PLF/KOCHI/CSR/SER/4358/2019-20/WO

Date: 08.08.2019

Annexure-I

Scope of Work for Impact Assessment Study of 'Numma Oonu'- A hunger eradication project in Ernakulam district

(Effectiveness Study of the project during the year 2018-19)

1. Project Details:

'Numma Oonu' is a hunger eradication project initiated by Ernakulam District Administration and jointly supported by Petronet LNG Foundation and Kerala Hotel & Restaurant Association (KHRA). The project strives to keep alive the dream of a hunger free Kochi by providing one free meal to anyone hungry without sacrificing their dignity in the selected hotels enlisted in the project. It was the good will and humaneness of all and dream of making Kochi, the city of benevolence where no one goes to bed on an empty stomach.

More than 1 lakh people are benefitted till now from the inception of the project in January 2018. From the response and statistics of the project, 'Numma Oonu' is further extended to 2019 and continues to serve meals for large number of people. The targeted population are mostly from the rural and semi-urban areas accommodating the needy people like migrant workers and other poor segments which are closely populated. The project intends to provide free meals to anyone who is denied and deprived of this basic necessity in the district of Ernakulam.

2. Objective of the study:

The overall objective of the study shall be to assess the relevance, soundness and effectiveness of the project interventions and to identify the opportunities and challenges for its continuation. A brief outline of the objectives to be covered are:

1. 20 locations and 39 hotels to be covered in the scope of study (including the nearby areas up to at least ½ km surrounding the location)
2. Interact with all the stakeholders of the project including the District administration, Petronet LNG Foundation, Kerala Hotels and Restaurant Association, Ex- Volunteers, hotels distributing the meals, the benefitted population etc.
3. Identify the benefitted population, obtain their views on the project and impact of the project in their daily life.
4. Identify the changes brought by the project in the community/district.





**PETRONET LNG FOUNDATION
LOCATION - KOCHI
Scope of Work**

Ref No.: PLF/KOCHI/CSR/SER/4358/2019-20/WO

Date: 08.08.2019

5. Mark the strengths and weakness of the project.
6. Identify the actual number of people benefitted and number of hotels serving at its best for the project.
7. Identify the accessibility of the public to the locations/ reachability of the project to the public/ their views on the project (An exploratory study).
8. Suggest a future plan for the continuation and replication of the project.

3. Deliverables & Outcomes to be covered in the Report:

The study report shall include the following:

- The socio economic impact on the community (both the beneficiaries & benefactors)
- To what extent the project has been effective in achieving its desired result (in both output & outcome levels)?
- Involvement of the stakeholders of the project.
- A quantitative analysis on:
 - a) Analysis of actual number of coupons distributed/ meals consumed in graphical representation.
 - b) Number of hotels performing well.
 - c) The number of good stories in the press.
- A qualitative analysis on:
 - a) Accessibility/availability of meals.
 - b) Opinions/views/experiences of the primary & secondary stakeholders.
 - c) Role of the stakeholders
 - d) Real life experience of people
 - e) Changes in the scenario (before and after effects)
 - f) Possibility of replication of the project
 - g) Strengths/weakness/challenges/limitations of the project
 - h) Suggestions on the possible changes to be included in the implementation
 - i) Advantages & drawbacks in the publicity of the project/website updating/press releases

4. Methodology of the study

A quasi experimental quantitative methodology by appropriate qualitative methodologies using trained and experienced field researchers shall be done for the respective study by using:

- Focus group discussions.





**PETRONET LNG FOUNDATION
LOCATION - KOCHI
Scope of Work**

Ref No.: PLF/KOCHI/CSR/SER/4358/2019-20/WO

Date: 08.08.2019

- Structured interview method / questionnaire method.
- Field observation.
- Any other

5. Sampling Design

Non probability sampling method where the researcher selects the population of the study based on the purpose and professional judgement. The minimum qualification required for the researcher is post-graduation in any discipline and minimum one year experience in developmental field (The details of the researchers shall be included in the report as a separate chapter).

6. Tools for Data Collection

- a) Structured questionnaire
- b) Interview method
- c) Observation
- d) Any other

The tools used for the study shall be clearly defined in the report.

7. Timeline

The entire study and submission of draft report (in soft copy) shall be completed within 2 months of award of work order. The final report (in soft copy and 5 nos. hard bound copies) shall be printed and submitted after confirmation by PLF within 1 week period of time.



SCMS SCHOOL OF TECHNOLOGY & MANAGEMENT

PROMOTED BY PRATHAP FOUNDATION FOR EDUCATION AND TRAINING

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Approved by the All India Council for Technical Education & Affiliated to M. G. University*

SSTM/02/19/24

14.8.2019

Petronet LNG Foundation
304-3rd floor, World Trade Centre,
Babar Road
Connaught Place , New Delhi – 110001

Dear Sir,

We thank you very much for your work order No.PLF/Kochi/CSR/SER/4358/2019-20/WO dtd. 12/8/2019 with regard to carrying out Impact Assessment study of “Numma Oonu”. A hunger eradication Project in Ernakulam District.

Dr.Praveena K, Associate Professor , MBA Department would be the Principal Investigator of the study along with Dr.Prof.Indu Nair, Professor, Department of Computer Applications.

This is for your kind information.

Thanking you,

Yours faithfully,



Dr. G SASHI KUMAR
PRINCIPAL