

DETAILS OF FUNCTIONAL MEMORANDUM OF UNDERSTANDING (MoU):

Memorandum of Understanding

Between Christ College (Autonomous), Irinjalakuda and Mr. Venugopan Menon, Managing Director Oasis Chemical Materials Trading Co. LLC. P.O.Box: 6974, Sharjah – UAE & Owner of GVR Industries, SIDCO Athani Industrial Estate, Perigandoor P.O, Athani, Thrissur, Kerala - India, Pin Code: 680581. This Memorandum of Understanding (MOU) sets for the terms and understanding to make and market solar dryers, cookers in the GVR Industries, owned by Mr. Venugopan Menon.

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| File No: | Not to be entered |
| Name of the Collaborating company | GVR Industries, SIDCO Athani Industrial Estate, Perigandoor P.O, Athani, Thrissur, Kerala - India, Pin Code : 680581 Phone: 91-71555490463 |
| Area of collaboration | Commercialization of the solar dryer and solar cookers |
| Date of Initiation | 22 nd February, 2021 |
| Co-ordinator Name | Dr. Joy V. T. |
| National/ International | National |
| Duration of collaboration | Five years and extendable |
| Targeting departments/ beneficiaries | Chemistry Department, Christ College, Irinjalakuda |
| Number of Students/ Faculty participated | 5 students and 2 Faculty |

Details of Activities under MoU

Introduction

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Solar drying is one of the oldest methods where the product such as vegetables, fruits, seeds, fish, and meat are dried by exposing directly to the sun. It is a simple process for removing the moisture contents from a natural or industrial product in order to reach the standard specification. This method is economical on a large scale drying because of cheaper operating costs compared to the drying machine. However, this method has many disadvantages like (i) The method is a slow (ii) Dust contamination (iii) Insect infestation (iv) Possible spoilage or loss due to unexpected rain, wind animal attack. (v) Fungi growth. In this context a solar dryer was developed in Chemistry Department to help farmers dry their agricultural products free of above mentioned limitations of open sun drying. The solar drying has many advantages like drying in clean, safe, and hygienic conditions to produce better quality and more nutritious foods. A solar dryer also can also save energy and time. Another advantage is that it needs less space for spreading the product to dry, making the process more efficient. The solar dryers were made in the GVR Industries, SIDCO Athani Industrial Estate, Perigandoor P.O, Athani, Thrissur owned by Mr. Venugopan Menon.

Activities conducted:

Many solar dryers were made and were given to farmers. We also associated with Unnath Bharath Abhiyan Unit of Christ College, Irinjalakuda and dryers were bought by Unnath Bharath Abhiyan and given to selected farmers.

SPECIFIC OUTCOMES

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| Specific Outcomes: (What, Why, Impacts) |
| 1. <i>Many solar dryers were made in the company and sold to farmers. The farmers found it to be very convenient method to dry their products.</i> |
| Any other details: (Items/Knowledge Shared) |
| ▪ <i>We are also making solar cookers in the company. We are making promotional videos to give wide publicity to our products, solar dryers and cookers.</i> |
| Photographs of the event/ YouTube link of the event may given |

DETAILS OF FUNCTIONAL MEMORANDUM OF UNDERSTANDING (MoU):

| Specific Outcomes: (What, Why, Impacts) | |
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Specific Outcomes: (What, Why, Impacts)

പ്രോഡക്ട് ലോഞ്ചിങ്ങും വെബിനാറും നടത്തി

ഇരിങ്ങാലക്കുട • ‘ഉന്നത് ഭാരത് അഭിയാൻ’ പ്രവർത്തനങ്ങളുടെ ഭാഗമായി ക്രൈസ്റ്റ് കോളജിൽ പ്രോഡക്ട് ലോഞ്ചിങ്ങും ‘സൗരോർജ്ജം കർഷകർക്ക്’ എന്ന വിഷയത്തിൽ വെബിനാറും നടത്തി. ദേശീയ പ്രൊജക്ട് കോ-ഓർഡിനേറ്റർ ഡോ. മാനവി അജിത് സിങ് ഉദ്ഘാടനം ചെയ്തു.

മികച്ച കുടുംബശ്രീ യൂണിറ്റുകൾക്ക് സോളർ ഡ്രയറുകൾ വിതരണം ചെയ്തു. വാർഡ് അംഗം ബിജി അജയകുമാർ, പടിയൂർ പഞ്ചായത്ത് പ്രസിഡന്റ് സി.എസ്.സുധൻ എന്നിവർ ഏറ്റുവാങ്ങി. പ്രിൻസിപ്പൽ ഫാ. ഡോ. ജോളി ആൻഡ്രൂസ് അധ്യക്ഷത വഹിച്ചു.

ഉന്നത് ഭാരത് അഭിയാൻ മധ്യ കേരള കോ-ഓർഡിനേറ്റർ ഡോ. ജിജു പി. അലക്സ്, ഐക്യഎസി കോ-ഓർഡിനേറ്റർ ഡോ. പി.പി. റോബിൻസൺ, ഡോ. അരുൺ ബാലകൃഷ്ണൻ എന്നിവർ പ്രസംഗിച്ചു.

സോളർ ഡ്രയറിന്റെ നിർമ്മാതാവും രസതന്ത്ര വിഭാഗം മേധാവി യുമായ ഡോ. വി.ടി.ജോയ് ക്ലാസ് നയിച്ചു.



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| Specific Outcomes: (What, Why, Impacts) | |
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| | <p>STATE-LEVEL WEBINAR UNDER BHARAT ABHIYAN HELD IN THR</p> <p>EXPRESS NEWS SERVICE @Thrissur</p> <p>AS PART OF the Unnat Bharat Abhiyan activities, Christ College here on Tuesday organised a state-level webinar on the use and making of solar energy for the farmers. The programme was inaugurated by Dr Manavee Ajith Singh, project scientist, IIT Delhi, under Unnat</p> <p>Bharat Abhiyan scheme (an MHRD initiative). She inaugurated the function and spoke on the use of solar energy and its impact on economic development in rural areas in the villages of North India. Manavee presented two solar dryers for two best Kudumbashree units. Earlier, the students of Social Work Department had conduct-</p> <p>ed a social and based on were distributed programme was Jolly Andri Christ College Unnat Bharat Abhiyan coordinator for the region and Dr IQAC coordinator Christ College, offered</p> |

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DECLARATION

We hereby declare that the above activities detailed in the current report was conducted under the MoU between our institutions.

| Christ College (Autonomous) | Solar Dryer |
|---|---|
|  Fr. Dr. Jolly Andrews Assistant Professor- In-charge of Principal Christ College (Autonomous) Irinjalakuda PRINCIPAL |  Mr. Venugopan Menon, Managing Director HEAD OF THE INSTITUTION |

DATE 09/12/2021
.....

Date: 22nd February, 2021

For M/s. GVR Industries
Sl. No. I.P. Athani, ICR.DI.680581

(Mr. Venugopan Menon, Managing Director, Oasis Chemical Materials Trading Co. LLC., Sharjah – UAE. And owner of GVR Industries, SIDCO Athani Industrial Estate, Perigandoor, P.O, Athani, Thrissur, Kerala)

