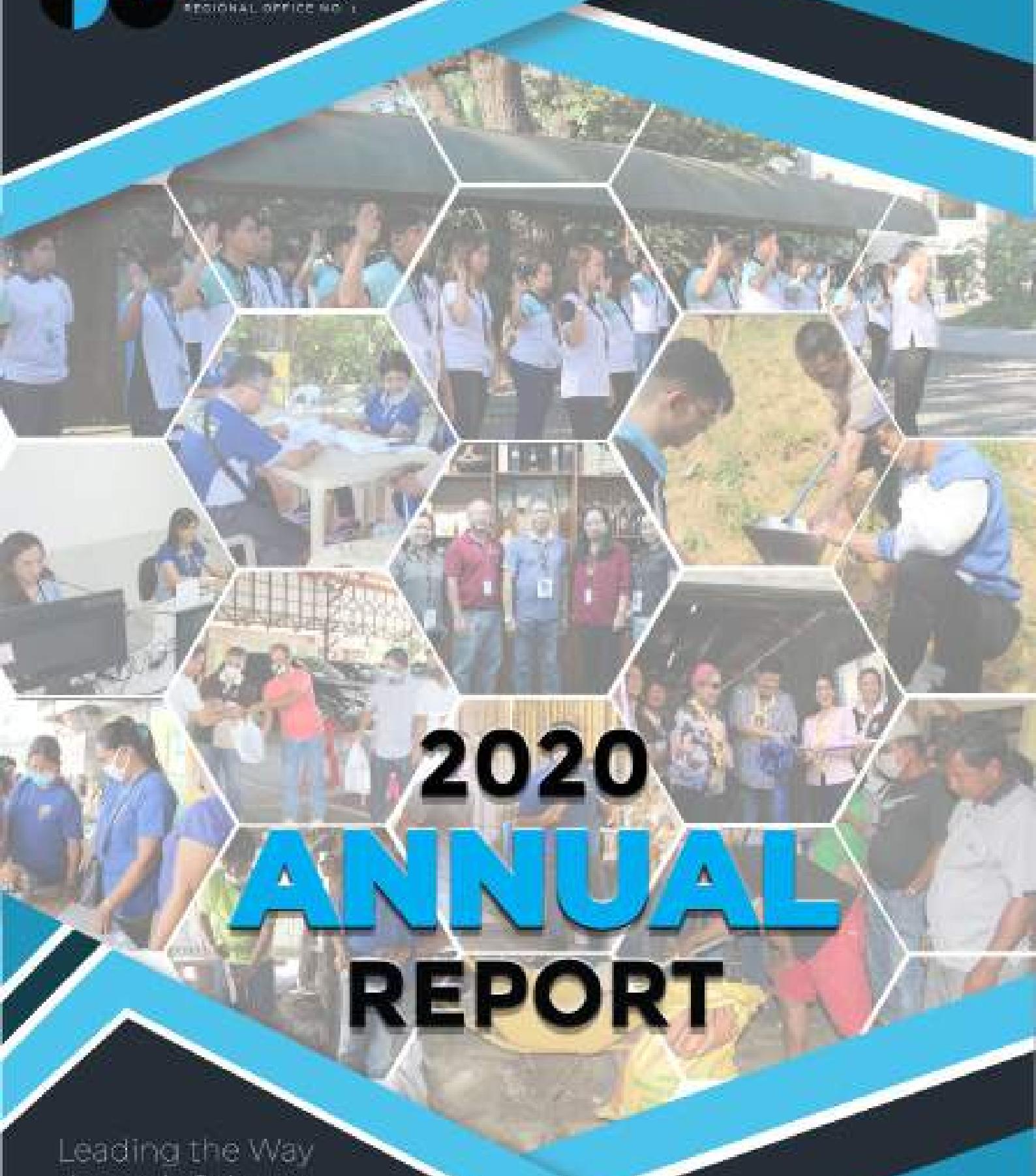


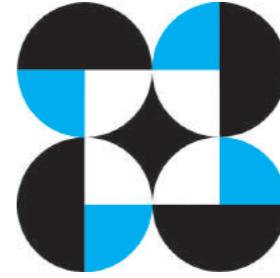


DEPARTMENT OF  
SCIENCE AND  
TECHNOLOGY  
REGIONAL OFFICE NO. 1



# 2020 **ANNUAL REPORT**

Leading the Way  
through Science,  
Technology and  
Innovation in Region 1



**DEPARTMENT OF SCIENCE AND TECHNOLOGY  
REGIONAL OFFICE I**

## **Quality Policy**

We are committed to provide products and services to both government and private sectors in Region 1 with highest standards of quality and reliability within our capabilities and resources according to customer and all regulatory and statutory requirements; and, to continually improve the effectiveness of our QMS at all times by ensuring the risks and opportunities, that can affect conformity of products and services, are determined and addressed to enhance customer satisfaction.



**2020  
Annual Report**

## MESSAGE FROM THE REGIONAL DIRECTOR



### Vision

By 2022, a leader in the application of scientific and technological innovations and services in Region I for better quality of life and sustainable development.

### Mandate

Executive Order No. 128 mandates the Department to "provide central direction, leadership and coordination of scientific and technological efforts and ensure that the results therefrom are geared and utilized in areas of maximum economic and social benefits for the people".

### Core Values

We believe in demonstrated effort in Innovation, Excellence, Leadership, Integrity, Team Work, Empowerment and a deep sense of nationalism. These core values are the fundamental belief and the guiding principles that dictate our behavior and helps better understand the difference of right and wrong.

The Year 2020 was a roller coaster ride for the Philippines, that includes its people, economy, and industry.

Albeit this and through collective efforts, the DOST 1 has continuously lived up being the prime mover of scientific and technological efforts in Region 1. The agency unceasingly implemented its programs, projects and activities notwithstanding the challenges brought by the COVID-19 pandemic, among others.

Furthermore, the Agency continued to work with integrity and excellence for its target clients in close collaboration with its stakeholders.

This Annual Report contains the accomplishments carried out by DOST 1 for the year, featuring the various programs, projects and activities that we are making available to the public to better the communities and in the long run, push us towards national progress.

We continue to work and be guided with our Quality Management System and Core Values (i-nnovation, E-xcellence, L-eadership, I-negrity, T-eamwork, E-mpowerment) in all our endeavors. And as our tagline says, we are "Leading the Way through Science, Technology and Innovation in Region 1."



  
**ARMANDO Q. GANAL, Ph.D., CESO III**  
Regional Director

 We continue to work and be guided with our Quality Management System and Core Values (i-nnovation, E-xcellence, L-eadership, I-negrity, T-eamwork, E-mpowerment) in all our endeavors. And as our tagline says, we are "Leading the Way through Science, Technology and Innovation in Region 1." 

# Table of Contents

Quality Policy  
Vision, Mission, Core Values  
Message of the Regional Director  
Table of Contents  
Executive Summary

## Outcome 1 - Innovation Stimulated

Regional Research, Development, and Innovation Committee (RRDIC)  
Region 1 Health Research and Development Consortium (R1HRDC)  
Ilocos Consortium for Industry, Energy and Emerging Technology Research and Development (ICIEERD)  
Ilocos Agriculture, Aquatic, and Natural Resources Research and Development Consortium (ILAARRDEC)

## Outcome 2 – Technology Adoption Promoted and Accelerated

Regional Science and Technology Week (RSTW)  
Technology webinars

## Outcome 3 – Critical Mass of Globally Competitive STI Human Resources Developed

Promotional Activities  
Scholarship Program  
Science and Technology Learning Assistance Program  
S&T Learning Resource Center  
Invent School Program (ISP)  
Science and Technology Academic and Research Based Openly Operated Kiosks (STARBOOKS)

## Outcome 4 – Productivity and Efficiency of Communities and the Production Sector, particularly the MSMEs Improved

Small Enterprise Technology Upgrading Program (SETUP)  
Community-Based Projects  
Community Empowerment Through Science and Technology (CEST)  
Testing and Calibration  
Technical Assistance & Consultancy Services  
Food Safety  
HALAL  
One Expert  
Packaging and Labeling Services  
Technology Training  
Technology Fora

## Outcome 5 – Resiliency to Disaster Risks and Climate Change Ensured

Disaster Risk Reduction Management  
Covid-19 Response/Initiatives

## Outcome 6 – Inequality in STI Capacities and Opportunities Reduced

Niche Centers in the Regions for R&D (NICER) Program  
Innovation Centers

## Outcome 7 – Effective STI Governance Achieved

Financial Resources  
Internal Processes  
- Information Technology Service Management  
- Quality Management System  
- Gender and Development

Human Resources

### DOST 1 in photos

### DOST 1 Organizational Structure

### DOST 1 Directory and Key Officials

# EXECUTIVE SUMMARY

## ENHANCING CUSTOMER SATISFACTION

### OUTCOME 1 INNOVATION STIMULATED

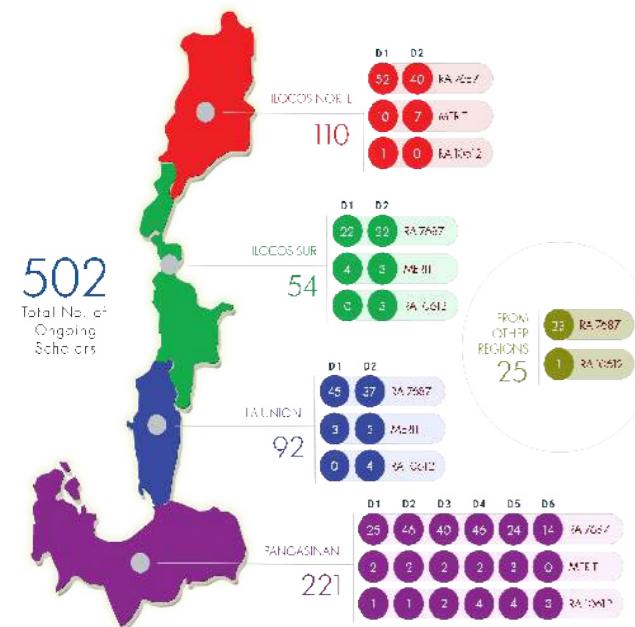
 33 R&D proposals, from the health, agriculture, and industry sectors, were evaluated and endorsed by the respective regional consortia for funding and 3 R&D proposals funded for the year.

 6 in-house R&D projects funded and 1 collaborative R&D project with DMMMSU-MLUC conducted.

### OUTCOME 2 TECHNOLOGY ADOPTION PROMOTED AND ACCELERATED

 142 technologies promoted in various promotional activities with 29 DOST developed and/or funded knowledge and technologies transferred thru commercialization, extension and public good to 369 adoptors.

### OUTCOME 3 CRITICAL MASS OF GLOBALLY COMPETITIVE STI HUMAN RESOURCES DEVELOPED



There were 502 on-going scholars assisted in CY 2020 where 58.37% are male and 41.63% female. Moreover, 95% of them are based in Region 1 and the remaining 5%, came from other regions. For the year, 27 graduated with Latin honors from the 157 total scholar-graduates.



A total of 69 students from 10 High Schools and 36 students from 6 Colleges in Region 1 participated in the Invent School Program on October 20-21, 2020 (for the high school level) and October 27-28, 2020 (for the college level).

The 2-day workshop that aims to stimulate the students' creative thinking skills, challenge their imagination and ingenuity, and serve as a starting ground for future young Filipino inventors.

### OUTCOME 4 PRODUCTIVITY AND EFFICIENCY OF COMMUNITIES AND THE PRODUCTION SECTOR, PARTICULARLY THE MSMES IMPROVED

SETUP backed the technology needs of 41 micro and small enterprises through the Innovation-enabling Fund (iFund), amounting to PhP29,429,628.94 to facilitate the acquisition of technology requirements for their businesses; consultancy and technical advisory services; manpower trainings; product standards and testing; packaging and labelling assistance, and product development.



41 MSMEs assisted

PhP29,429,628.94 investments

Alongside with its assistance to MSMEs, DOST-1 also funded the technology requirements of 7 community-based organizations worth PhP3,434,220.00 through the Grants-in-Aid (GIA) Program focused in hastening the development of livelihood enterprises of community-based organizations through the adoption of technologies developed from scientific results.

### COMMUNITY-BASED PROJECTS

27 community-based organizations assisted

PhP 3,434,220.00 total investments

Going through the challenging times, the Regional Standards and Testing Laboratory (RSTL) rendered a total of 8,659 testing and calibration services, assisted 2,601 customers, 1,278 firms and generated PhP5,468,127.00. Although reports were below the expected outputs due to pandemic, RSTL continued to upgrade its services and adopt to the new normal as commitment to its customers.



8,659  
Test and calibration  
Conducted



5,468,127.00  
Fees Collected (PhP)



1,278  
Firms assisted

With the onset of the COVID-19 pandemic, CY 2020 was a tough and challenging year for the Department of Science and Technology – Region 1 (DOST-1) in its delivery of science and technology services in the region. However, DOST-1's unyielding and hardworking staff, combined with strong leadership and supportive top management, had quickly adapted to the new normal and efficiently provided interventions to its stakeholders.



DOST-1 continued to implement the Community Empowerment through Science and Technology (CEST) Program to partner communities bringing science and technology to the people.

LGU partners, such as the municipalities of Sugpon and Alilem in Ilocos Sur and the municipality of Dumalneg in Ilocos Norte, were provided with science and technology interventions addressing the concerns in livelihood, environmental protection and conservation, health and nutrition, and human resource development. For CY 2020, there were three communities assisted and 17 technologies deployed with 422 beneficiaries.

### OUTCOME 5 RESILIENCY TO DISASTER RISKS AND CLIMATE CHANGE ENSURED

In response to the fight against COVID-19 and prevent its transmission, DOST 1 implemented mitigation and response activities. These activities are the following: 1) distribution of PPEs for the frontliners; 2) distribution of other response packages like complementary foods and disinfecting materials; 3) deployment of Specimen Collection Booths to select hospitals and LGUs in the region for the health workers; 4) conduct of training and orientation on various ICT enabled tools like the FASSSTER; and 5) development and deployment of CovidDETECT and FastPass.

Moreover, DOST 1 continuously supports and joins activities of the DRRM Council of Region 1. These activities include attendance to RDRRM Council Meetings, Regional Inter-Agency Task Force on Management of Emerging Infectious Diseases (RIATF-MEID) and Regional Task Force (RTF) Meetings.

### OUTCOME 6 INEQUALITY IN STI CAPACITIES AND OPPORTUNITIES REDUCED

The DOST-1 Research & Development Management and International Linkages Unit (RDMILU) monitors and assists the activities concerning the R&D councils and projects, and these are the following: Regional Research, Development, and Innovation Committee (RRDIC), Innovation Centers (Food and Metals & engineering), Region 1 Health Research and Development Consortium (R1HRDC), Ilocos Consortium for Industry, Energy and Emerging Technology Research and Development (ICIEERD), Ilocos Agriculture, Aquatic, and Natural Resources Research and Development Consortium (ILLARDEC), and Niche Centers in the Regions for R&D (NICER) Program.

### ATTAINED OPERATIONAL EXCELLENCE THRU CONTINUAL IMPROVEMENT OF QMS

### OUTCOME 7 EFFECTIVE STI GOVERNANCE ACHIEVED

The DOST-1 Information Technology Services Management Unit (ITSMU) played a vital role in the

DOST-1's operations in CY 2020 thru the introduction of work-process innovations that were useful in the new normal. The Unit implemented six (6) work process innovations.

These work-innovations include enhancements on Office Productivity, Email Management, Cloud Data Storage, Video Tele Conference and the Cash/Check Collection and Deposit Reporting and Monitoring.

Likewise, through the introduction of the Video Conferencing tools, DOST 1 was able to conduct its meetings, seminars and orientations online and virtually. This innovation prevents the participants and the DOST 1 staff to travel in the new normal and become infected with the Covid19 Virus. The same innovation introduced less cost in the conduct of such activities. Same tool was also used in the collaboration between the DOST 1 employees during the new normal and work from home arrangements.



Moreover, DOST-1 maintained its ISO 9001:2015 and ISO/IEC 17025:2017 certifications.

The agency also strictly complied with the State's requirements on Gender and Development (GAD), Freedom of Information (FOI), Senior Citizen and Persons with Disabilities (PWD) laws, and the Citizen's Charter or Anti-Red Tape Act.

### OUTCOME 8 PROMOTED LEARNING CAPACITIES AND CULTURE FOR ORGANIZATIONAL TRANSFORMATION

The annual accomplishments were effectively and efficiently delivered by the agency's manpower complement comprised of 27 regular employees and 69 Contract of Service (COS). Of the total number of staff, 47% were assigned in field operations, 31% in technical services, 18% in financial and administrative services and 4% at the Office of the Regional Director.

### ACHIEVED FINANCIAL SUSTAINABILITY THRU JUDICIOUS MANAGEMENT OF FINANCIAL RESOURCES

For CY 2020, DOST-1 received an allotment from General Appropriations amounting to PhP102,235,461.03 with Budget Utilization rate of 99.89% and Cash Utilization rate of 96.88%. The unobligated allotment was carried over the following year while the unused cash were reverted to Bureau of Treasury.

# OUTCOME 01 INNOVATION STIMULATED



**Objectives of the Meeting**

At the end of the meeting, the participants shall have:

- approved the highlights of the 2nd RRDIC Regular Meeting, February 12, 2019
- adopted the Regional Ethics and Monitoring Board (REMB) as the regional arm of the Philippine Health Research Ethics Board (PHREB) and invited research institutions to create their Regional Ethics Committee (REC)

The Research & Development Management and International Linkages Unit (RDMILU) monitors and assists the activities concerning the R&D programs and projects from the following:

Regional Research, Development, and Innovation Committee (RRDIC), Innovation Centers, Region 1 Health Research and Development Consortium (R1HRDC), Ilocos Consortium for Industry, Energy and Emerging

Technology Research and Development (ICIEERD), Ilocos Agriculture, Aquatic, and Natural Resources Research and Development Consortium (ILAARRDEC), and Niche Centers in the Regions for R&D (NICER) Program (NICER).

Despite the challenges in 2020, the RDMILU of DOST1 continuously prosper and serve the people through science, technology, and innovation.

## Regional Research, Development, and Innovation Committee

The Regional Research, Development and Innovation Committee (RRDIC) of the Regional Development Council (RDC) of Region 1 is tasked to, among others, spearhead inter-agency collaboration and partnership on research, development and innovation and S&T activities, and promote the adoption of results of government-funded projects, innovations and other S&T-based projects.

RRDIC in Region 1 has accomplished 92% of its CY 2020 Work Program.

### I. Updating of the Harmonized Region 1 Research Agenda (HRRDA) 2017-2022

RRDIC has completed the HRRDA 2017-2022 Guidelines and has been approved by the RDC.

The HRRDA is formulated a companion document of the Regional Development Plan (RDP) to address challenges and support the strategies identified in the plan through research and development. The HRRDA was anchored on the National Harmonized Research and Development Agenda (NHRDA) of DOST and contribute towards the achievement of Ambisyon Natin 2040.

The committee also facilitated the collection of completed researches undertaken during this year. One of the researches presented to the Economic Development Sectoral Committee (EdSeCom) of RDC is from Mariano Marcos State University entitled "Local Observations, Evidences, and Adaption Strategies to Climate Change Impacts for Resilient Rice-Based Production System in Ilocos Norte".

The implementation and monitoring of HRRDA under



#### Sample policy notes



## II. Collaboration for R&D and Innovation

In terms of promoting Filipino inventions for regional development, RRDIC endorsed 3 technologies to the RDC. These technologies were identified to be worthy and of great significance to the people of region 1, also for adoption of the 125 Local Government Units in Region 1.

**Table 1. Technologies Endorsed by RDC**

TECHNOLOGIES ENDORSED		RESEARCHER/INVENTOR
1	Carrageenan Plant Growth Promoter	National Crop Protection Center (NCPC)
2	Project SARAI (Smarter Approaches to Reinvigorate Agriculture as an Industry in the Philippines)	University of the Philippines – Los Baños (UPLB)
3	Dual Drum Composter	DOST – Industrial Technology Development (DOST-ITDI)

The committee, as the research and innovation coordinating arm of the RDC endorsed seven (7) technologies generated from government-funded researches. To introduce the features and potential benefits of these technologies to the local government units (LGUs) and other interested adopters, the committee hosted webinar series from December 1-4 and 9-11, 2020 via MS Teams, Zoom, and FB Live platforms.

**Table 2. List of Topics during the RRDIC Webinar Series**

DATE	TOPIC	PRESENTER	PURPOSE
1 December 1, 2020	Portable Solar Dryer (PORTASOL)	Filipino Inventors Society Producers Cooperative (FISPC)	Aids in addressing the use of highways and roads as palay solar dryers
2 December 2, 2020	Bioteck-M	Manila Health Tek, Inc.	Efficient diagnosis of infectious diseases such as Dengue
3 December 3, 2020	Iron Fortified Rice	Nutridense Food Manufacturing, Inc.	Aids address Iron Deficiency Problem
4 December 4, 2020	Vigormin	Envirgor Natural Products Mfg. Inc.	Water Pollution
5 December 9, 2020	Dual Drum Composter	DOST - Industrial Technology Development Institute (ITDI)	Solid Waste Management
6 December 10, 2020	Carrageenan Plant Growth Promoter	National Crop Protection Center	Agricultural Productivity
7 December 11, 2020	Project SARAI (Smarter Approaches to Reinvigorate Agriculture as an industry	University of the Philippines - Los Baños	Agricultural Productivity



The committee is Chaired by DOST Region 1, headed by Dr. Armando Q. Ganal, CESO III. The DOST recognizes the critical role of a regional research and development (R&D) agenda in addressing the needs of various sectors in the region, as well as addressing challenges of regional socio-economic development by ensuring that researches, innovations, and other science and technology-based projects are relevant, responsive, and aligned with regional development thrusts.

## III. Review and Endorsement of Proposals for Funding under the DOST Niche Centers in the Regions R&F (NICER) Program

With the limitations brought about by the covid-19 pandemic, the committee conducted three (3) regular quarterly meetings and one (1) special meeting.

Moreover, the committee has passed eight (8) Resolutions approved by the RDC.

List of RRDIC Resolutions for CY 2020

- 1** Approving The 2019 Accomplishment Report and 2020 Workplan of the Committee
- 2** Endorsing to the Regional Development Council (RDC 1) the Guidelines for the Updating of the Harmonized Regional Research and Development Agenda (HRRDA) CY 2017-2022
- 3** Confirming the List of Completed Researches for Presentation to the Concerned Sectoral Committees of the Regional Development Council 1 (RDC 1)
- 4** Endorsing to the Regional Development Council (RDC 1) the Presentation of the Dual Drum Composter and Carrageenan Plant Growth Promoter for Possible Adoption and Consideration by Concerned Stakeholders in Region 1
- 5** Encouraging All Concerned Government Instrumentalities to Adopt and Promote the Use of Crop Technologies of Sarai and Enjoining other RDCs to Endorse the Same in their Respective Areas
- 6** Approving the Membership of Saint Louis College (SLC) and Northwestern University (NWU) as Members of the RRDIC 1
- 7** Approving the Creation of a Technical Working Group for the Formulation of the Harmonized Gender and Development Guidelines Checklist (HGDG) for Research

## R1HRDC

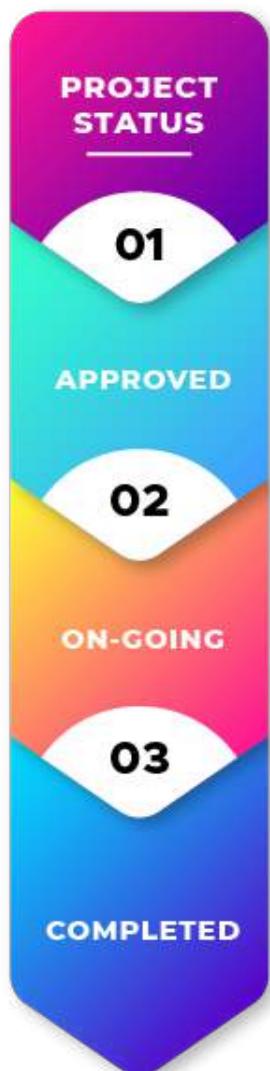
### Region 1 Health Research and Development Consortium

R1HRDC constantly assists research concerning health. It has one (1) approved, two (2) on-going, and three (3) completed projects. It also conducted trainings which are BRET Online Training and PHREB Online Training.

Under R1HRDC, there is the Regional Ethics Monitoring Board and (REMB-1) Philippine Health Research Ethics Board (PHREB) that assists in protecting the rights, safety, and welfare of participants in health-related research. The membership of REMB-1 comes from line agencies like DOST, DOH and CHED. There are also representatives coming from the academe, law, accredited Research Ethics Committees, and other important sectors in health research.

In 2020, there are a total of two (2) accredited institutions which are DOH Drug Treatment and Rehabilitation Center (DTRC) Dagupan - Research Ethics Committee(REC) at Level 2 with Mr. Eric Vincent Mamita as chair; and University of Northern Philippines - Ethics Review Committee (ERC) at Level 1 with Fr. Alfredo V. Corpuz as chair.

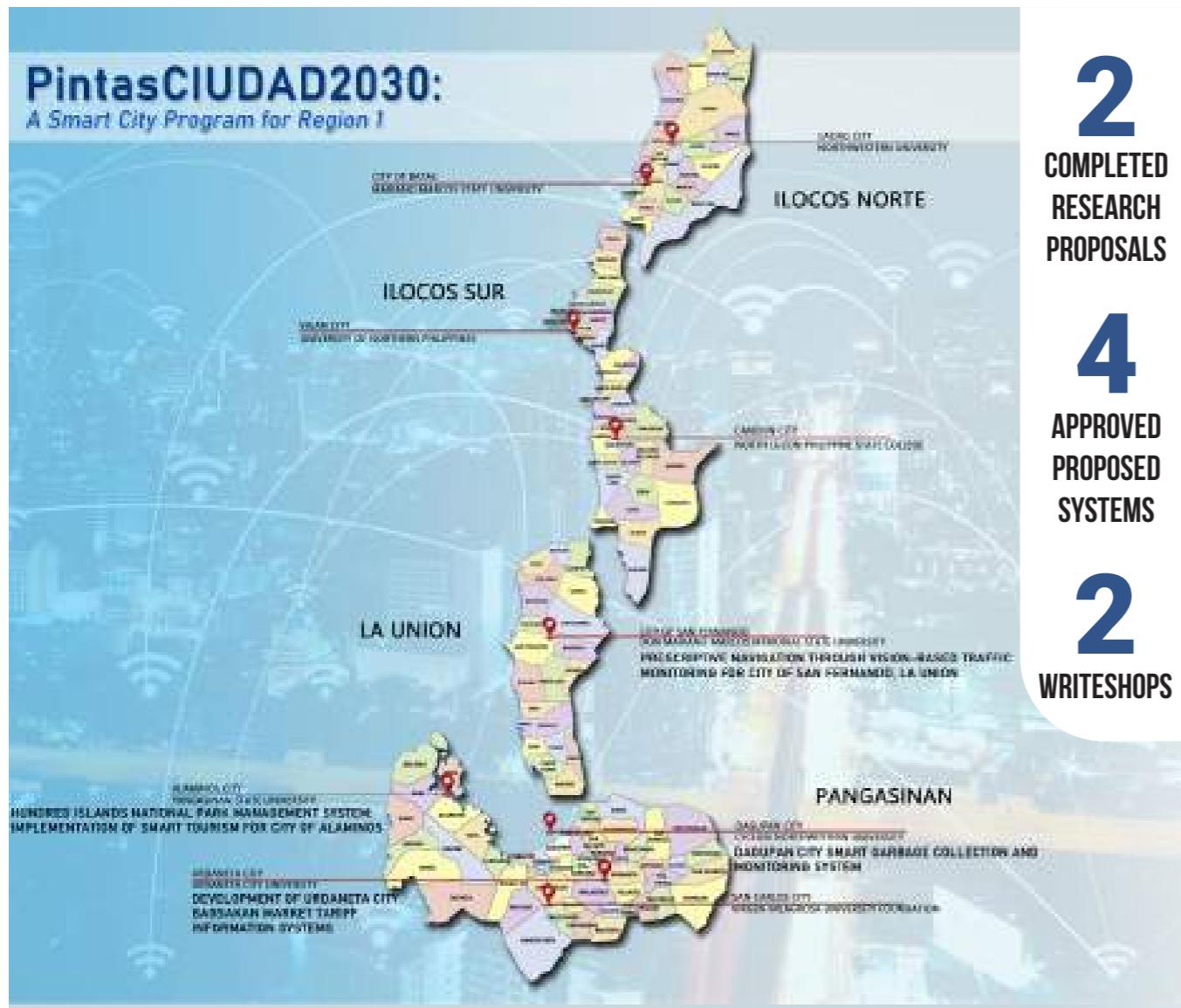
The trainings attended by the members of REMB and CSA are the "Orientation on How to Use/Manage the PHREB Accreditation Portal" on June 2, 2020, "Instructional Presentation on the Use of Philippine Health Research Ethics Portal (PHREP)" on September 3, 2020, and "Basic Research Ethics Training (BRET)" on November 16-17, 2020. The training provider of these events is PHREB.





# ICIEERD

Ilocos Consortium for Industry, Energy and Emerging Technology Research and Development



ICIEERD successfully organized programs and plans for the development of the industry and energy sectors in Region 1. It has two (2) completed research proposals, four (4) approved proposed systems, and two (2) conducted writeshops.

The two completed research proposals are "Development, Standardization, and Characterization Studies of Tupig, Bukayo, and Bibingka" with Dr. Veronica Austria of PSU and "Design and Development of Processing Machineries for Honey and Intermediate Products" with Engr. Rowel Munar of DMMMSU.

In addition, the four (4)approved proposals are service-based proposed system, which are under SPARTA-GODDESS, a program of PCIEERD.

The approved proposals are: "San Fernando Smart Mobility:Vision-based Traffic Monitoring and Geo-

enabled Navigation" by DMMMSU with the Local Government unit of the City of San Fernando, La Union.

"Hundred Islands National Park Management System (HINPMS) with Real-time Motorized Banca Geolocation: Implementation of Smart Tourism" by PSU with LGU Alaminos City, "Automated Bagsakan Market Collection System" by UCU with LGU Urdaneta City, and "Digital Garbage Collection System" by Lyceum Northwestern University with LGU Dagupan City.

Furthermore, ICIEERD also organized proposal writeshop focused on the sand and gravel, and coastal engineering. Proposal writeshop on Sand & Gravel prioritize the R&D on improvement of monitoring extraction and processing of sand and gravel, and R&D Value-adding Product Development.

**2**  
COMPLETED  
RESEARCH  
PROPOSALS  
  
**4**  
APPROVED  
PROPOSED  
SYSTEMS  
  
**2**  
WRITESHOPS



# ILAARRDEC

Ilocos Agriculture, Aquatic, and Natural Resources Research and Development Consortium



ILAARRDEC manages the research and development of the region concerning the agriculture, aquatic, and natural resources. It has 13 completed projects, 33 implemented projects, five (5) technology transfer, seven (7) new linkages, eight (8) commercialized products, 12 approved proposals, six (6) publications, 16 conducted trainings, and three (3) trainings attended.

Despite the circumstances of 2020, ILAARRDEC successfully completed and implemented projects, and some were published in journals and books. Aside from the projects concerning the development of agriculture, aquatic, and natural resources, ILAARRDEC also engaged to serve the community and the frontlines through science and technology, in response to COVID-19, through its established linkages, like the Bureau of Jail and Management and Phnology (BJMP), Mr. Tirso Banay, Mr. Stephenleigh Guittap, and the CMIS.

ILAARRDEC also managed 13 skills trainings that were conducted by the CMIs in support to the ILAARRDEC Coordinated Projects. These include, DOST-PCAARRD-DMMMSU Agriculture, Aquaculture, and Food Technology Business Incubator seven (7), Sustaining MMSU's IP-TBM Office and Enhancing IP-TBM Offices among Member Agencies of ILAARRDEC three (3), Sustainable Production, Marketing and Utilization of Established and Improved Bolinao Chicken in Ilocos Region one (1), Establishment of DOST-PCAARRD Science for the Convergence of Agriculture and Tourism (SciCAT).



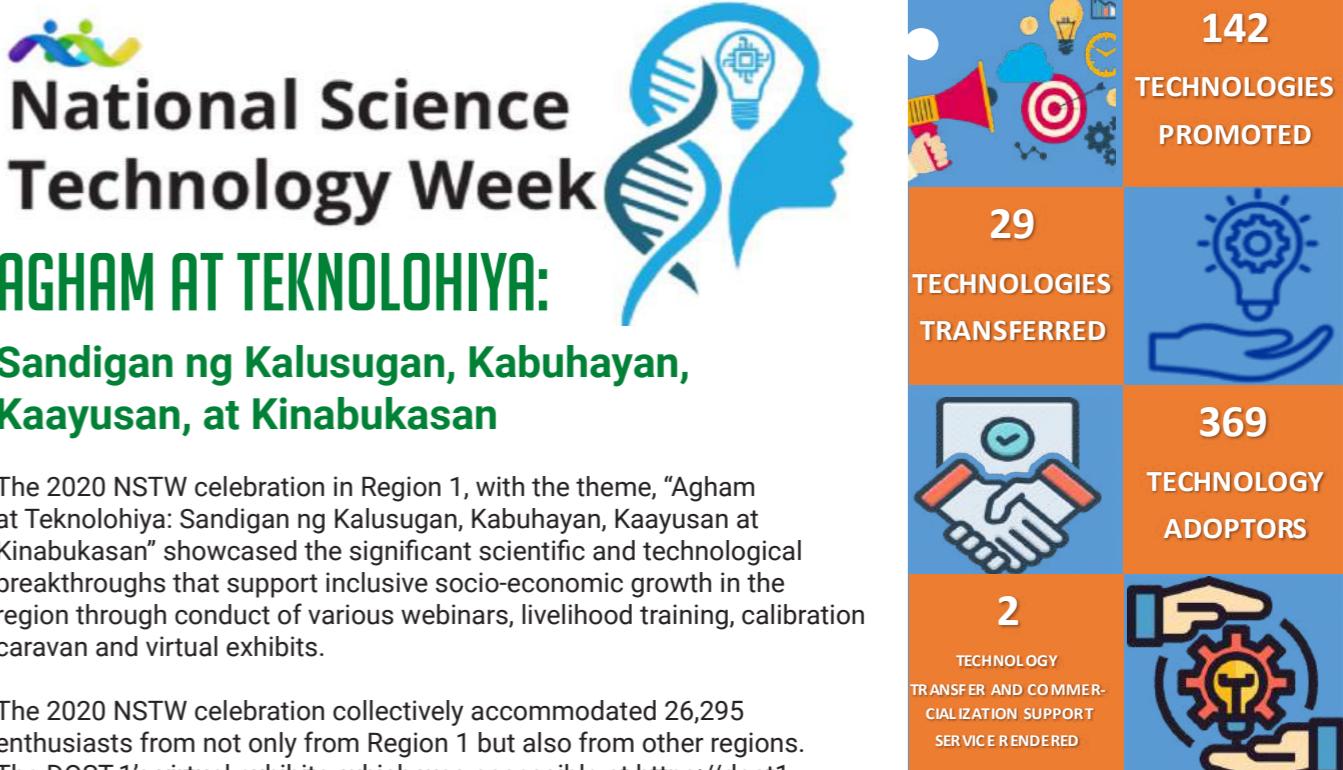
Project 7: Enhancing Pera's Farm for SciCAT Farm Development in La Union (1) and Training on Natural Food Production.

Moreover, ILAARRDEC continuously develop the competencies of the employees through attending trainings.

# OUTCOME

# 02

## TECHNOLOGY ADOPTION PROMOTED AND ACCELERATED



The 2020 NSTW celebration in Region 1, with the theme, “Agham at Teknolohiya: Sandigan ng Kalusugan, Kabuhayan, Kaayusan at Kinabukasan” showcased the significant scientific and technological breakthroughs that support inclusive socio-economic growth in the region through conduct of various webinars, livelihood training, calibration caravan and virtual exhibits.

The 2020 NSTW celebration collectively accommodated 26,295 enthusiasts from not only from Region 1 but also from other regions. The DOST-1's virtual exhibits, which was accessible at <https://dost1.com>, comprised of four (4) thematic clusters: the Kabuhayan, Kalusugan, Kaayusan, and Kinabukasan—that are aligned with the government's call for “Bayanihan to Heal as One”. The exhibits showcased different technologies and innovations generated by the DOST-attached and partner agencies, academe and industry. A total of 57 technologies were showcased in the annual S&T exhibits.

Moreover, 85 technologies, including the enhance nutribun of DOST-FNRI, were also promoted through technology trainings and seminars, technology fora, and postings at the social media accounts of DOST-1.

There were 29 technologies transferred through commercialization, extension and public good with 369 technology adoptors.

For 2020, two (2) technologies, the Indian Mango Roll and Tomato Salsa of the DOST-PSU Food Innovation Center (FIC), were adopted by the Nutridense Food Manufacturing Corp. (NFMC) of Sta. Barbara, Pangasinan.





# OUTCOME

# 03

## CRITICAL MASS OF GLOBALLY COMPETITIVE STI HUMAN RESOURCES DEVELOPED

## PROMOTIONAL ACTIVITIES

As the S&T Promotion and Advocacy Unit is mandated to carry out promotion and information activities in behalf of DOST 1, the unit has successfully released 101 Press Releases, 214 social media posts, and four (4) issues of the Ilocos S&T Trends newsletter. The unit has also conducted two (2) interviews and two (2) press conferences to promote DOST activities and programs to the public through radio and online interviews.

In total, the S&T Promotion and Advocacy Unit has conducted 655 promotional activities including those shared from other DOST agencies which is 812.22% accomplishment of its annual target of 342 promotional activities.

The Unit has also advanced DOST 1's social media presence by gaining 5,000 followers in just one year, increasing its total count to 19,000 followers. In DOST 1's Facebook account, we were able to reach 132,500 people and create 6,750 engagements.

## NATIONAL SCIENCE AND TECHNOLOGY WEEK CELEBRATION

For the first time ever, DOST celebrated the National Science and Technology Week 2020 digitally. Even with the limitations of the new normal, the DOST has still successfully commemorated this year's NSTW through webinars, online exhibits, and non-webinar activities in our provincial offices.

### DOST 1 has conducted 28 webinars for NSTW 2020:

- ◆ Food Safety E-Series
- ◆ 5S of Good Housekeeping
- ◆ Food Safety Awareness
- ◆ Good Manufacturing Practices
- ◆ Work place and Food manufacturing Disinfection GMP Documentation
- ◆ Sanitation Standard Operating Procedures
- ◆ Food Fraud and Food defense
- ◆ Packaging and Labeling Awareness; Mandatory Labelling Requirements
- ◆ FDA Licensing and Product Registration
- ◆ HACCP Awareness
- ◆ Food Innovation and Development
- ◆ Halal Requirement and Certification
- ◆ Scholarship Webinars
- ◆ S&T Learning Assistance Program (STLAP) for on-going Undergraduate Scholars
- ◆ Webinar Orientation Series: DOST Courseware in Science and Mathematics for E-learning
- ◆ Agyamanak DOST: Mga Kwentong Tagumpay ng DOST-SEI Iskolars
- ◆ Gender and Development
- ◆ Understanding Gender Sensitivity Concepts
- ◆ Online Benchmarking of Best GAD Practices
- ◆ Gender Issues and Impact of covid-19 to MSMEs
- ◆ Waste Management
- ◆ Orientation on Conducting Waste Analysis and Characterization
- ◆ Study (WACS) and Presentation of Different DOST-ITDI Solid Waste
- ◆ Management Technologies
- ◆ Tech Talk on Waste Management System featuring Ecosep/Vigormin
- ◆ Agriculture
- ◆ Virtual Forum/Webinar on Carrageenan PGP
- ◆ Guide to Starting a Microbusiness in the Philippines: Barangay Microbusiness Enterprise (BMBE)
- ◆ Invent School Program
- ◆ Training on Aquaponics for Urban Communities in the Cities of Laoag and Batac City, Ilocos Norte
- ◆ NAST and NRCP Series: National Academy of Science and Technology (NAST) FOOD SECURITY amidst pandemic
- ◆ Seminar on Textured Vegetable Protein (TVP) Enriched Meat Processing
- ◆ SETUP Stakeholders' Summit
- ◆ STARBOOKS Online and Offline Orientation

For the non-webinar activities, DOST held a calibration caravan through the Regional Metrology Laboratory; Livelihood Training on Peanut Processing for ELCAC Communities in Sta. Lucia, Ilocos Sur; and Training on Aquaponics for Urban Communities in the Cities of Laoag and Batac City in Ilocos Norte.

DOST 1 also launched a virtual exhibit online ([dost1.com](http://dost1.com)) which showcased various technologies, programs, and innovations through our partner-agencies, colleges, and universities.

# SCIENCE AND TECHNOLOGY SCHOLARSHIPS

DOST Region I, along with other regional offices, serves as the regional arm of DOST-SEI for the planning and implementation of S&T programs and projects in the region. The regional offices provide S&T services to the local populace and coordinate with other government agencies like DepEd, CHED and other learning institutions. These programs and projects aim to produce leaders and decision-makers in various areas of S&T: government, academe and private industries.

One of the programs of DOST-SEI tailor made to accomplish the institute's mission is the implementation of the different scholarship programs both for baccalaureate and graduate programs. Scholarship programs for undergraduate students pursuing their bachelor's degree are the "Science and Technology Scholarship Act of 1994", otherwise known as the RA 7687; the "Fast-Tracked S&T Scholarship Act of 2013", otherwise known as the RA 10612; and the "Merit Scholarship Program", otherwise known as the RA 2067.

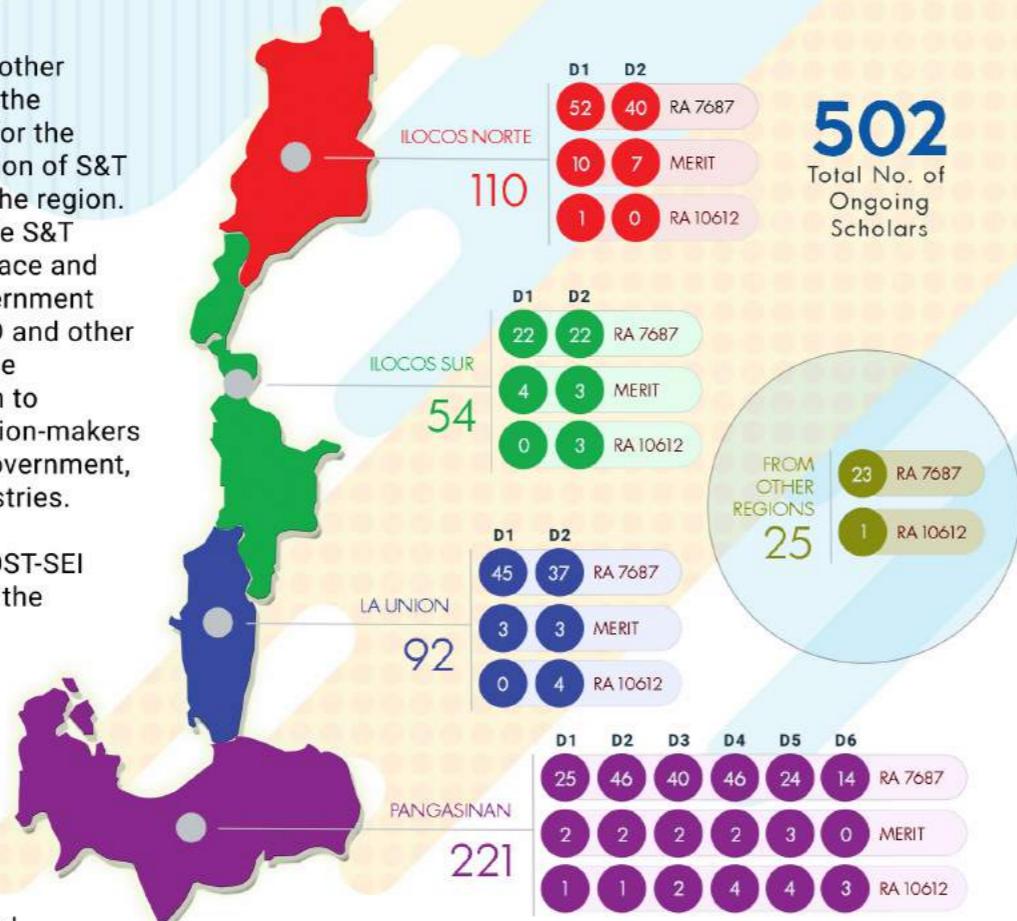


Figure 1. DOST-SEI ONGOING SCHOLARS IN REGION I AS OF DECEMBER 2020

As of December 2020, we have 502 ongoing scholars studying in the different State, Universities and Colleges (SUCs) and Higher Education Institution (HEI) in the region.

## JUNIOR LEVEL SCIENCE SCHOLARSHIP PROGRAM (JLSS)



JLSS Program is one of scholarship programs offered by the DOST-SEI, which aims to provide scholarships to finance the education of talented and deserving students who are in their third year of college and are pursuing degree programs under the science and technology priority courses.

The 2019 JLSS Examination was held last June 2, 2019 in different centers nationwide and the result was released last December 22, 2019. A total of 28 regular third year students passed the said examination from Region I. Nine (9)

qualified for the RA 7687 scholarship program; 17 qualified under the RA 10612; and two (2) qualified for the RA 2067 or the Merit Scholarship Program. These new set of scholars along with their parents or legal guardian were oriented last January 15, 2020.

On the other hand, DOST-SEI opened its online filing of application for

## S&T UNDERGRADUATE SCHOLARSHIP PROGRAM

DOST SEI has officially released the list of qualifiers of the 2020 S&T Undergraduate Scholarship Examination on March 29, 2020. In Region I, a total of 5,655 high school students took the examination. Out of the total examinees, 416 qualified for DOST-SEI Scholarships. Out of the total passers, 274 qualified for the RA 7687 Scholarship Program, scholarships for gifted students who belong to economically disadvantaged families; while 142 are eligible for the DOST-SEI Merit Scholarship Program.

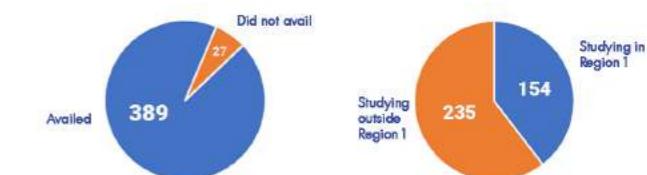
Due to the restrictions brought by the COVID-19 pandemic, DOST1 conducted scholarship orientations thru online using the Microsoft Teams platform. It was conducted by batch from June to July 2020 and a separate orientation was conducted for the approved potential qualifiers last October 2020. The qualifiers accompanied by their parents were oriented on the S&T Scholarship Policies as well as on the benefits of the scholarship program. Qualifiers who decided to avail the scholarship were scheduled by batch for the signing of the scholarship agreement with the help of our Provincial S&T Centers.

On the other hand, application for the 2021 S&T Undergraduate Examination was opened last June 2020, applicants were encouraged to file and submit requirements thru the E-scholarship Application System. In Region I, a total of 6,841 senior high school students applied for the said scholarship. Examination was also postponed and rescheduled in 2021, it will be announced once finalized.

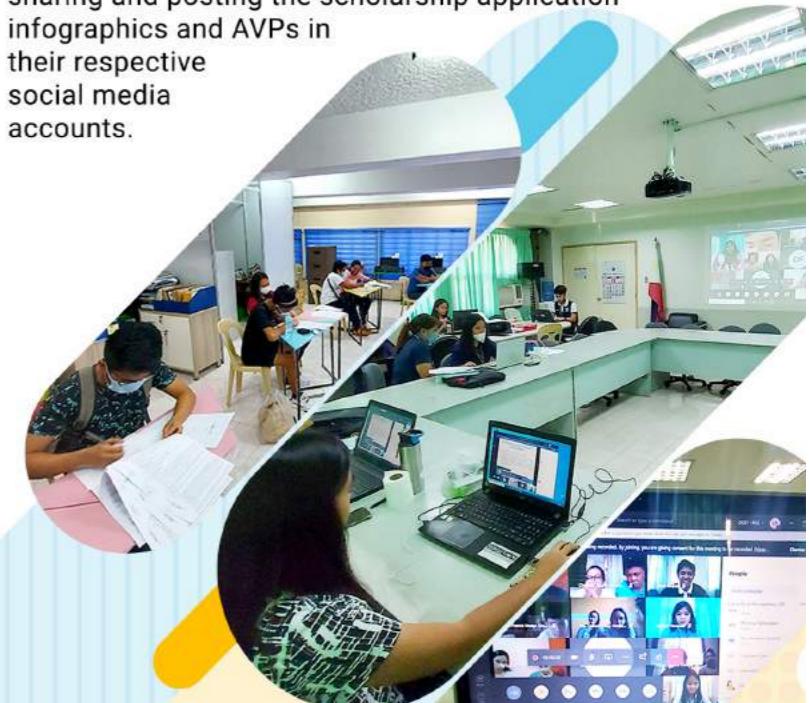
the 2020 JLSS last March 2020 through the E-Scholarship Application System. A total of 951 applicants from Region I was recorded, unfortunately the nationwide qualifying examination was postponed due to the COVID-19 Pandemic and was moved to a later date yet to be determined.



Figure 2. 2020 S&T UNDERGRADUATE QUALIFIERS IN REGION I



There's a huge increase in the number applicants in both 2020 JLSS and 2021 S&T Undergraduate compared from the previous years, as a result of the strong linkages with LGU's, SUCs, HEIs, DepEd as well as ongoing scholars and scholar-graduates for sharing and posting the scholarship application infographics and AVPs in their respective social media accounts.



## S&T LEARNING ASSISTANCE PROGRAM

DOST 1 conducted a seminar on job hunting to 149 graduating scholars last February & March 2020, topics discussed during seminar are the following Personality Development, Assertiveness in Job Hunting, Resume Writing, Career Guidance and Employment Coaching, Work Ethics, Employment Testing, Life Skills, Stages of Employment (Before, During and After Employment), Strategic Human Resource Management: Career Development, Management and Stages, Communication, Organizational Behavior, Project Jobs Fit and The Art Philosophy. Some scholars also underwent a panel interview headed by the resource speakers from DOLE and SUCs for them to experience a real scenario in the job-hunting process.

Meanwhile, an Exit conference was also conducted to 151 graduating scholars to remind them on their roles and responsibilities in nation-building and to reintegrate the values of the scholars in relation to their commitment with DOST-SEI as well as their service obligation after graduation. The Department of Education was invited to discuss their role in the implementation of RA 10612 and RA 7687. Also, the different graduate scholarship programs offered by DOST-SEI were presented.

### WEBINAR SERIES FOR DOST-SEI ONGOING SCHOLARS

Due to the current national health condition, we cannot deny the fact that the Education System is greatly affected and students on the other hand had these personal issues that may hinder their learning environments during this new normal situation.

To address the situation, DOST1 conducted a webinar series that aims to provide guidance, learnings and readiness on the new normal situation and to give proper orientation on how to handle different challenges that will arise; to prevent possible negative outcomes of this pandemic like depression, hardship in coping the new learning modalities; prioritize financial management and introduction to research and development. The webinar was conducted from September to November 2020 through Microsoft Teams platform Facebook live streams and it was attended by the ongoing scholars in the region.



## OTHER ACTIVITIES

### AGYAMANAK DOST! Mga Kwentong Tagumpay ng DOST-SEI Iskolars

DOST 1 launched, "Agyamanak DOST! Mga Kuwentong Tagumpay ng mga DOST-SEI Iskolars ng Region 1", an online talk show by the DOST 1 Scholarship Unit where graduate-scholars shared their journeys, challenges, and successes of their DOST Iskolar life.

Each episode aims to share inspirational stories of the success of DOST's graduate-scholars. DOST 1 is blessed to have graduate-scholars who are one with us in promoting and encouraging our students to become future partners in science and technology innovations. The program ran from September to December 2020, every Tuesday from 10 AM to 12 NN and it was live streamed at DOST Region 1 Scholarship Unit Facebook page.



### ORIENTATION ON DOST COURSEWARE & 21st CENTURY CLASSROOM WEBINAR SERIES INNOVATIONS IN MATHEMATICS AND SCIENCE TEACHING AND LEARNING

Webinar orientation series on the DOST Courseware and 21st Century Learning Environment Model entitled "New Practices in Science and Mathematics Teaching and Learning" was launched and 4 sessions of the said activity was successfully conducted last November 23-24, 2020 via Microsoft Teams and Facebook Live. A total of 8,302 Science and Math teachers including their supervisors, head teachers and superintendents actively joined in the webinar. This will help to optimize, streamline, and standardize educational lesson presentation in Science and Mathematics using cost-effective and high-quality solutions.

The DOST Courseware is a locally produced, all-original Filipino highly interactive multimedia educational resource packages available both in Windows and Android versions, conceptualized, digitized, and produced as spearheaded by the Science Education Institute (DOST-SEI). It is provided for free to schools and are also made available online as supplemental resources for teachers and student as an interactive approach to e-learning and blended learning. The Resource Person was Ms. Joseph S. Feliciano, the Program Lead of DOST-Courseware and 21st



### THE FILIPINO PATRIOT SCHOLARS PROJECT ACTIVITIES

Scholars from the different provinces in Region 1 volunteered and helped our frontliners as well as families who were greatly affected by the pandemic thru giving of food packs, groceries and basic personal protective equipments such face shields, masks and alcohol. Some scholars were also deployed in Department of Health as encoders/analysts for the COVIDKaya application. The conduct of a webinar series to deepen the civic leadership and humanitarianism among the patriot scholars in the new normal has helped a lot in creating and implementing the initiatives and projects in the different sectors. As for the public service sector that is headed by the Ilocos Region, three projects are already being implemented by the scholars namely: PailaJuan, YouthCheck, and YACAP.



# Invent School PROGRAM

## INVENT SCHOOL PROGRAM

The Department of Science and Technology Regional Office No. 1 (DOST-1), in partnership with the Technology Application and Promotion Institute (TAPI) conducted the Invent School Program Webinar Series for high school and college students on October 20-21, 2020 and October 27-28, 2020 respectively. This is one of the kick-off activities in the virtual celebration of the National Science and Technology Week on November 23-29, 2020.

A total of 69 attendees for the high school level and 36 in the college, the Program was participated by ten (10) high schools and six (6) colleges, where each school was given five (5) slots composed of four (4) students accompanied by one (1) adviser.



Among the high schools that participated in the Program were: Solsona National High School, Cadaratan National High School, Sta. Rosa National High School and Catacaguen National High School from Ilocos Norte; La Union National High School, Cambaly National High School, Luna National High School, Amlang-Nagtagaan National High School and Caba National High School from La Union; and Colegio de San Juan de Letran from Manaoag, Pangasinan.

For the college edition, five (5) state universities and colleges and one (1) higher education institution from the region joined the webinar-workshop. These were: Mariano Marcos State University-Batac City Campus, Don Mariano Marcos Memorial State University-South La Union Campus, Ilocos Sur Polytechnic State College, Pangasinan State University - Lingayen and Infanta Campus, and Virgen Milagrosa University Foundation.

The Invent School Program is a 2-day workshop

that aims to stimulate the students' creative thinking skills, challenge their imagination and ingenuity, and serve as a starting ground for future young Filipino inventors. The program creates and raises the students' awareness on Intellectual Property Rights and Protection and how they benefit from it.

The lectures include the concepts and principles in Creativity and Thinking, Ideation Techniques and Tools, Creative Problem Solving, Invention Development, and Intellectual Property for both levels and discussion on Prior Arts Search for the college category. To make the learning more fun and interactive, facilitators from DOST-TAPI have also provided the students with some brain teasers and logic puzzles.

Considering the government policies that discourage mass gathering and physical collaborations, the Program was facilitated through Zoom Online Platform instead of the regular on-site workshop.

S&T LRC

**504**

**NO. OF  
USERS ASSISTED**



## Promotion and Installation of **STARBOOKS**

**NO. OF  
TRAINING CONDUCTED**

**7**

**NO. OF  
PARTICIPANTS**

**232**

**NO. OF  
STARBOOKS  
INSTALLED**

**49**

**NO. OF  
MOU  
FORGED**

**8**

A total of 504 individuals, mostly students, rated the S&T Learning Resource Center a very satisfactory in catering to their need for S&T references and reading materials. The DOST Regional Office, together with the Provincial S&T Centers of Ilocos Norte, Ilocos Sur and Pangasinan, continuously upgrade their S&T Learning Resource Center to improve their services to their customers.

The S&T LRC at the regional office, PSTC Ilocos Norte, PSTC Ilocos Sur and Pangasinan likewise provided S&T information service through the S & T Academic and Research-Based Openly Operated Kiosk Stations (STARBOOKS), a stand-alone electronic library containing information on various locally developed

technologies investigatory projects, and other S&T related information. In 2020, DOST assisted 49 schools in the installation of STARBOOKS.

# TECHNOLOGY TRANSFER & COMMERCIALIZATION

Amidst the economic turmoil brought by the global COVID-19 pandemic to small scale businesses, the Small Enterprise Technology Upgrading Program (SETUP) is steadfast in providing technology transfer and commercialization assistance to micro, small and medium enterprises (MSMEs) who are the key drivers of growth in the countryside, contributing to a robust local economy through the generation of revenues and creation of employment in the community.

As the banner program of the DOST, SETUP supports MSMEs in the enhancement of their productivity and competitiveness through the infusion of technology-based solutions aimed at advancing their production facilities leading to quality products and services.

SETUP backed the technology needs of 41 micro and



small enterprises through the Innovation-enabling Fund (iFund), amounting to PhP29,429,628.94 to facilitate the acquisition of technology requirements for their businesses; consultancy and technical advisory services; manpower trainings; product standards and testing; packaging and labelling assistance, and product development.

## OUTCOME 04 PRODUCTIVITY AND EFFICIENCY OF COMMUNITIES AND THE PRODUCTION SECTOR, PARTICULARLY THE MSMES IMPROVED

**Table 1. Number of SETUP projects implemented per sector by province.**

SECTOR	ILOCOS NORTE		ILOCOS SUR		LA UNION		PANGASINAN						TOTAL
	District 1	District 2	District 1	District 2	District 1	District 2	District 1	District 2	District 3	District 4	District 5	District 6	
Food Processing	2	4	4	2	2	3	2	-	3	-	2	-	24
Metals & Engineering	-	-	-	1	-	-	-	-	2	2	-	-	5
Furniture	-	-	1	1	-	-	-	-	1	-	-	-	-
Agriculture	-	-	-	-	-	1	-	-	2	-	-	-	-
GDH	-	2	-	-	1	-	-	-	-	-	1	-	-
Pharma	-	-	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	1	-	-	-	-	1	-	-
<b>TOTAL</b>	<b>2</b>	<b>6</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>5</b>	<b>2</b>	<b>-</b>	<b>8</b>	<b>2</b>	<b>4</b>	<b>-</b>	<b>41</b>

**Table 2. Amount of SETUP assistance funded per Center.**

PROVINCE	AMOUNT
ILOCOS NORTE	4,874,946.60
ILOCOS SUR	2,574,014.00
LA UNION	9,194,500.00
PANGASINAN	8,230,144.67
PANGASINAN SATELLITE OFFICE	4,556,043.67
<b>TOTAL</b>	<b>29,429,628.94</b>



Online validation of technology needs assessment (TNA) is conducted to evaluate the interventions to be provided to prospective project beneficiaries.

**Table 3. Amount of community-based GIA assistance funded by Center.**

PROVINCE	AMOUNT
ILOCOS NORTE	715,320.00
ILOCOS SUR	629,000.00
LA UNION	532,260.00
PANGASINAN	657,760.00
PANGASINAN SATELLITE OFFICE	899,880.00
<b>TOTAL</b>	<b>3,434,220.00</b>

**Table 4. Number of SETUP projects implemented per sector by province.**

SECTOR	ILOCOS NORTE		ILOCOS SUR		LA UNION		PANGASINAN						TOTAL
	District 1	District 2	District 1	District 2	District 1	District 2	District 1	District 2	District 3	District 4	District 5	District 6	
Food Processing	2	3	-	-	-	3	2	-	-	-	-	-	8
Metals & Engineering	-	-	-	-	-	-	-	-	-	-	-	-	-
Furniture	-	-	-	-	-	-	-	-	-	-	-	-	-
Agriculture	-	-	1	3	2	1	-	-	2	1	-	5	16
GDH	1	-	-	-	-	-	-	-	-	-	-	-	1
Pharma	-	-	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	1	2	-	-	-	1	-	2
<b>TOTAL</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>-</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>5</b>	<b>27</b>

# PSTC - ILOCOS NORTE

SMALL ENTERPRISE TECHNOLOGY UPGRADING PROGRAM (SETUP)

## EQUIPMENT AND PRODUCTION PROCESS UPGRADING FOR PETRINA'S PASTRIES AND DELICACIES PRODUCTS

Industry Sector : Food Processing  
Implementing Firm : PETRINA'S PASTRIES AND DELICACIES  
Project Cooperator : Mr. Albert R. Tugade  
Project Location : Brgy. 10, San Vicente, Bacarra, Ilocos Norte  
Project Cost : PhP 666,208.00

### PROJECT DESCRIPTION

The **Petrina's and Delicacies** is a family-owned business that was established in 2012 and managed by spouses Albert and Connie Tugade, a Food Technology graduate and in-charge in product development. The bakery supplies various delicacies to restaurants like Kamalig, Joe10 Café, and has resellers from Baguio City, Cagayan, and La Union.

### INTERVENTIONS

- Cabinet Steamer
- Cassava Shredder
- Rice Grinder
- 3-Door Chest Freezer



In 2014, Petrina's was granted a SETUP Project amounting to PhP 857,450.00. From then, Petrina's upgraded from Micro as a business category to Small Enterprise.

In 2020, the firm availed of a second phase of DOST-SETUP assistance amounting to PhP 666,208.00 to acquire upgraded equipment essential in the production process.

### IMPACT

- Hastened production and minimized food contact.
- Increased in efficiency in production and reduced production time by 50% (from 45 mins. to 20 mins.)
- Additional product line (pitchi-pitchi, kalamay, puto, siopao and kutsinta).
- Better quality insulation resulted in minimum thermal loss and efficient energy saving.
- Eliminated the cost of outsourcing job and enable the firm to save up to PhP .300 per day.

## UPGRADING ICE CREAM EQUIPMENT OF JOE ROSS ICE CREAM PRODUCTION

Industry Sector : Food Processing  
Implementing Firm : JOE ROSS ICE CREAM PRODUCTION  
Project Cooperator : Mr. Joel J. Agustin  
Project Location : Brgy. 10 -S Batac City, Ilocos Norte  
Project Cost : PhP 94,517.35

### PROJECT DESCRIPTION

**Joe Ross Ice Cream Production** is a well-known ice cream enterprise in Dingras, Ilocos Norte and started their operations in 2010. The firm started making ice cream in 2010. The enterprise has an outlet in Solsona Public Market and it caters to the requirement of its customers within Solsona and commuters passing along the highway coming from the municipalities of Dingras, Piddig, Sarrat, and Marcos, Ilocos Norte. Mr. Joel Agustin, with his sister, Rosemelyn Agustin availed the DOST SETUP Assistance to be able to acquire technologies that would increase their production as well as product quality such as a 25-liter capacity hard ice cream machine, stainless steel ice cream tube box, coconut grater, and stainless table to conform to Food Safety Practices.

### INTERVENTIONS

- 25 liter capacity Hard Ice Cream Machine
- Stainless Steel Ice Cream Tube Box
- Coconut Grater
- Stainless Table
- Seminar on Food Safety and current Good Manufacturing Practices

### IMPACT

- Compliance to cGMP
- Eliminated the cost of outsourcing mixing job and enabled the firm to save up to Php 9.000/month
- Decreased in grating time by 50% (40 mins. to 20 minutes)
- Increase in sales by 20%
- Increase in productivity by 19%
- Maintained the texture and freezing of the product without compromising its quality



Provincial S&T Director, Engr. Benjamin S. Mercado, with Mr. Gerald Q. Gabriel of DOST-PSTC-Ilocos Norte, inspect the turned-over production equipment to the firm.



Turnover and delivery of proofing cabinet and other production equipment at the production area of Petrina's.

# PSTC - ILOCOS NORTE

## SMALL ENTERPRISE TECHNOLOGY UPGRADING PROGRAM (SETUP)

### PRODUCT UPGRADING AND PACKAGING AND LABEL ENHANCEMENT OF LARING'S MEAT AND PROCESSED FOOD PRODUCTS RETAILING IN THE CITY OF BATAC

Industry Sector : Food Processing  
 Implementing Firm : LARING'S MEAT AND PROCESSED FOOD PRODUCTS RETAILING  
 Project Cooperator : Mrs. Hilaria A. Peralta  
 Project Location : Brgy. 2 Ablan, Batac City, Ilocos Norte  
 Project Cost : PhP 512,020.00

#### PROJECT DESCRIPTION

**Laring's Meat and Processed Food Products Retailing** is one of the biggest producers of longganisa in the City in the 1990s. Mrs. Peralta started the business by selling fresh meat at the City Public Market as their family's source of income. To have additional income, she ventured into meat processing products such as longganisa which she improved and continued developing other products like tocino, sausages and bagnet.

With the heightened demand for these products, Hilaria processed higher volume of meat and the production area, she sought the assistance of DOST through the SETUP and was able to avail of laboratory test for her meat products, nutritional analysis and improvement of the products' packaging and labeling, thus conforming to FDA-LTO requirements. Moreover, the firm also acquired higher capacity types of machinery for the improvement of its production process.



Provincial S&T Director, Engr. Benjamin S. Mercado and Mr. Gerald Q. Gabriel of DOST-PSTC-Ilocos Norte conduct a food safety assessment to Laring's Meat and Processed Food Products and Retailing in preparation for its application for FDA License to Operate (LTO).

#### INTERVENTIONS

- Meat Grinder
- Meat Slicer
- Meat Mixer
- Nutritional Analysis
- Microbial Analysis for products
- Seminar on Food Safety and current Good Manufacturing Practices
- Packaging and labeling

#### IMPACT

- Uniformed/even mixing of the ingredients and reduced human contact that could cause contamination
- Decreased in grinding time by 60%-70% (shortened the grinding period by 30 mins./280 kg)
- Decreased in production time by 60% from 4 ½ hours of production time to 2 ¼ hours
- Improved label design and packaging with the inclusion of nutritional facts
- FDA-LTO approved

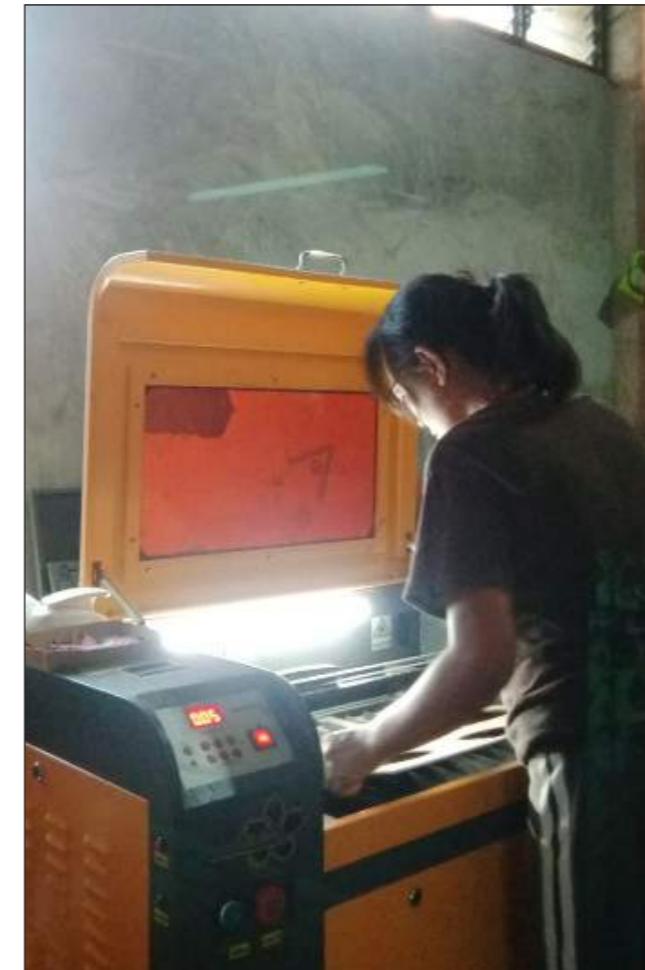
### UPGRADING OF PROCESSING TECHNOLOGY FOR IMPROVED PRODUCTIVITY AND PRODUCT QUALITY OF JACK'S PLACE VARIETY SHOP IN THE CITY OF BATAC

Industry Sector : Gifts, Decors and Handicrafts  
 Implementing Firm : JACK'S PLACE VARIETY SHOP  
 Project Cooperator : Ms. Jocelyn Tagatac  
 Project Location : Brgy. 2 Ablan, City of Batac, Ilocos Norte  
 Project Cost : Php 134,400.00

#### PROJECT DESCRIPTION

With its strategic location at the heart of the City of Batac, **Jack's Place and Variety Shop** offers various school supplies party needs, and other accessories. Established in 2001, Ms. Tagatac started to engage in personalizing, designing, and printing invitations, costumes, and other souvenir items such as mugs, ref magnets, and key chains.

In 2020, DOST granted a SETUP assistance amounting to Php 134,000.00 in acquiring Laser Cutter and Engraving Machine. This machine enabled the firm to produce a detailed design for greeting cards, book covers, customized costumes, wood carving, etc.



The production worker operates the newly turned-over Laser cutter and Engraving machine.

#### INTERVENTIONS

- Laser Cutter and Engraving Machine

#### IMPACT

- 17% increase in productivity
- Lesser time of production by eliminating the manual cutting, gluing and/or decorating of the products.
- Increase in number of clients by 25%.
- Was able to provide intricate cuttings and designs on wood, paper and acrylic materials.

## TECHNOLOGY INNOVATION SUPPORT FOR PEANUT PROCESSING OF ALVIAR MULTI-PURPOSE COOPERATIVE

Industry Sector : Food Processing  
 Implementing Firm : ALVIAR MULTI-PURPOSE COOPERATIVE  
 Project Cooperator : Pilar A. Rosete  
 Project Location : Brgy. Alviar, Vintar, Ilocos Norte  
 Project Cost : Php 113,000.00

### PROJECT DESCRIPTION

**Alviar Multi-Purpose Cooperative** was established in 2008 and was registered with the Cooperative Development Authority in October 27, 2009. At present, the cooperative is chaired by Ms. Liza Rabi, and its members comprise of farmers, members of Pantawid Pamilyang Pilipino Program (4Ps), housewives, and barangay officials.

Since members are mostly farmers engaged in farming, peanut production has been introduced to them.

In order to add value to the products, the cooperative ventured into peanut processing in year 2017 and branded as "Siwantar" with the joint efforts of the Department of Trade and Industry (DTI) and Department of Agrarian Reform (DAR).

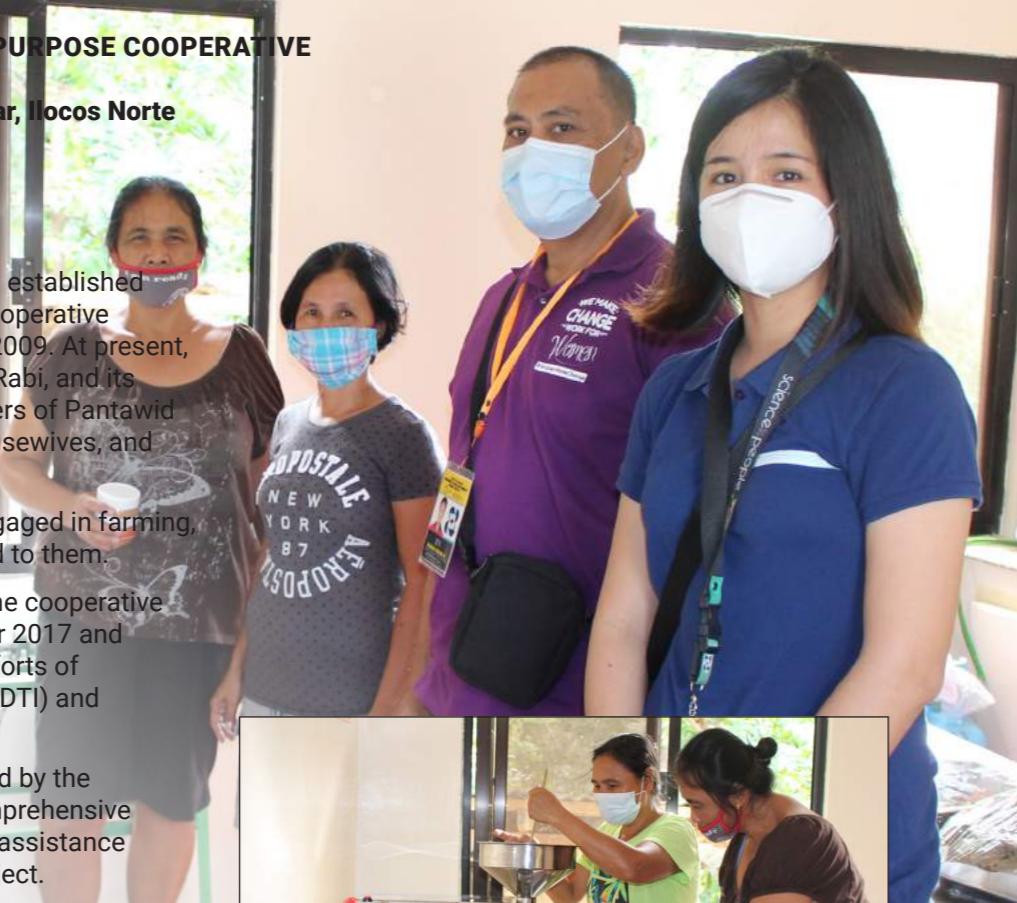
In 2020, the cooperative was introduced by the Department of Trade and Industry-Comprehensive Agrarian Reform Program for possible assistance under the DOST Community-based project.

### INTERVENTIONS

- Peanut Grinder
- Induction Sealer

### IMPACT

- Product is tamper and leak proof with the induction sealer
- Reduction in grinding time by 40% from 5 hours to 3 hours per 50 kg of roasted peanuts
- Provide intricate cuttings and designs on wood, paper and acrylic materials



AMPC members trying their newly awarded production equipment.



AMPC finished products in DOST provided packaging and labeling.

## PROCESS UPGRADING AND PACKAGING AND LABEL ENHANCEMENT FOR BANANA AND CAMOTE CHIPS PROCESSING OF BACARRA NORTE FARMERS AGRARIAN REFORM COOPERATIVE

Industry Sector : Food Processing  
 Implementing Firm : BACARRA NORTE FARMERS AGRARIAN REFORM COOPERATIVE  
 Project Cooperator : Virgilio N. Tangonan  
 Project Location : Brgy. Macupit, Bacarra, Ilocos Norte  
 Project Cost : PhP 123,000.00

### PROJECT DESCRIPTION

Formerly known as Macupit Farmers Multi-Purpose Cooperative, **Bacarra Norte Farmers Agrarian Reform Cooperative** was registered with the Cooperative Development Authority in March 2010. With the commitment for sustainable livelihood to its members, the Cooperative ventured on Banana and Camote Chips Processing through the Department of Trade and Industry (DTI). The cooperative is also one of the recipients of the Village Level Processing Enhancement Project of the Department of Agrarian Reform in cooperation with the Local Government of Bacarra.

With these joint efforts, the production building/processing building of the cooperative was built.

In 2020, through the Department of Trade and Industry, the cooperative sought assistance of the DOST-Ilocos Norte Science and Technology Center under the Community-based project, to help them improve product packaging and label as well as to improve production through the acquisition of technology interventions.

### INTERVENTIONS

- Fruit/Vegetable Cutter
- Packaging and Labelling Execution

### IMPACT

- Reduction in the slicing/cutting time from 180 minutes to 30 minutes
- Improved appearance through the new packaging, appropriate information and label design.
- cGMP compliant

DOST-PSTC Ilocos Norte Staff awarding the Fruit/Vegetable Cutter, Packaging and Labeling to the MFPC members.



## TECHNOLOGY INNOVATION SUPPORT FOR THE COCONUT SHELLCRAFTS OF DEL MAR MOTHERS MULTI-PURPOSE COOPERATIVE

Industry Sector : Gifts, Decors and Handicrafts  
 Implementing Firm : DEL MAR MOTHERS' SHELLCRAFT MULTI-PURPOSE COOPERATIVE  
 Project Cooperator : Elizabeth C. Benemerito  
 Project Location : Brgy. Saud, Pagudpud, Ilocos Norte  
 Project Cost : PhP 138,320.00

### PROJECT DESCRIPTION

Del Mar Mothers Shell Craft Multi-Purpose Cooperative is a social enterprise and CDA-registered cooperative. The group was organized in 2006 by Mrs. Imelda Benemerito-Llanes, as a livelihood program of mothers' (wives of fishermen) living in Sitio del Mar, where Mrs. Llanes' family business, Villa del Mar Beach Resort is located.

The coop was registered in 2008 and currently has 76 members. The coop is producing products made of coconut shell and over 20 products were developed.



27 DEPARTMENT OF SCIENCE AND TECHNOLOGY - REGIONAL OFFICE 1

### INTERVENTIONS

- Laser Engraving Machine

### IMPACT

- 17% increase in productivity
- Lesser time of production by eliminating the manual cutting, gluing and/or decorating of the products
- Was able to provide intricate cuttings and designs on coconut shell materials



## TECHNOLOGY INNOVATION SUPPORT FOR CAMANGA UPLAND MULTI-PURPOSE COOPERATIVE

Industry Sector : Food Processing  
 Implementing Firm : CAMANGA UPLAND FARMERS MULTI-PURPOSE COOPERATIVE  
 Project Cooperator : Jimmy Y. Bautista  
 Project Location : Brgy. Camanga, Badoc, Ilocos Norte  
 Project Cost : PhP 168,000.00

### PROJECT DESCRIPTION

**Camanga Upland Farmers Multi-Purpose Cooperative** was established in 1991 with Cooperative Development Authority on October 8, 2009, under the RA 9520 or the Philippine Cooperative Code of 2008 with 115 members.

Known for their best-selling tamarind wine and with the abundance of tamarind in the locality, the cooperative ventured into tamarind candy in 2017 and was identified as their One-Town-One-Product.

In 2020, Mr. Jimmy Y. Bautista learned about the Community-Based Program of the DOST and asked the assistance of PSTC-IN in the improvement of their production.

### INTERVENTIONS

- Cooking Mixer
- Stainless Steel Moulders
- Upright Chiller/Freezer

### IMPACT

- Maintained the quality of finished product by using the upright chiller
- Doubled the production and shortened the processing time through the given interventions



Turnover of Cooking Mixer for the CUFCMP's production and processing.



Stocks of materials for tamarind candy production stored in the upright chiller.

# PSTC - ILOCOS SUR

SMALL ENTERPRISE TECHNOLOGY UPGRADING PROGRAM (SETUP)

## UPGRADING OF PRODUCTION FACILITIES AND PACKAGING OF AMELITA'SA LONGGANISA AND MEAT PRODUCTS MANUFACTURING

Industry Sector	: Food Processing
Implementing Firm	: AMELITA'S LONGGANISA AND MEAT PRODUCTS MANUFACTURING
Project Cooperator	: Ms. Marjory A. Blanco
Project Location	: Sta. Monica, Magsingal, Ilocos Sur
Project Cost	: Php 472,000.00



### PROJECT DESCRIPTION

The longganisa manufacturing is a traditional family business of the Blanco clan of Sta. Monica, Magsingal, Ilocos Sur. Ms. Marjory A. Blanco adopted the same business style and put up a single-proprietorship business registered as Amelita's Longganisa and Meat Products Manufacturing in 2003 with an initial working capital of Php5,000 (for the raw materials) and using their kitchen as the processing area. The business flourished as the firm found its niche market within the locality and numerous resellers through online marketing scheme and social media platform.

In 2019, Marjory encountered a problem with her business permit renewal because the local

government of Magsingal, Ilocos Sur has launched the policy of "No FDA-LTO, No Business Permit for Food Manufacturers". "With this requirement, and having learned from other product manufacturers about DOST program of assistance to MSMEs, she sought for technical assistance for her plant layout and eventually constructed a processing area in the first quarter of 2020. On the same year, the firm availed of the DOST-SETUP that upgraded the firm's equipment and the product packaging.



DOST-SETUP Interventions. Foot-type Impulse Sealer (left photo), 29 cu. ft. Chest Freezer for finished products (middle photo), and SS Preparation Table (right photo).



DOST SETUP interventions: SS Heavy Duty Meat Grinder in operation (left photo), SS Meat Mixer (middle photo) and SS Meat Stuffer (right photo)

### INTERVENTIONS

- Stainless Steel Preparation Table
- Stainless Steel Tyeing table
- Stainless Steel Packaging Table
- Stainless Steel Heavy Duty Meat Grinder
- Stainless Steel Meat Mixer
- Stainless Steel Meat Stuffer
- Foot-type Impulse Sealer
- Chest Freezer for Finished Products
- Label Design and Packaging Materials for Longganisa
- Technical Assistance on Plant Layout
- Technical Training through Textured Vegetable Protein (TVP) Enhanced Meat Processing

### IMPACT

- 44% decrease in grinding time (from 270 minutes, now 20 minutes to grind 180 kg)
- 60% increase in grinding capacity per hour (40 kg/hr to 100 kg/hr)
- 66.67% decrease on mixing time with twice the former capacity (from 15 minutes to mix 20 kg raw materials per batch, now 5 minutes at 40 kg/load)
- Uniform /even mixing of the ingredients and increase mixing productivity up to 500 kg per hour including loading & unloading
- 50% decrease on stuffing time (from 60 minutes, now 30 minutes to stuff 90 kg of raw materials)
- Reduce human handling and exposure of raw materials that may cause contamination 133% increase on freezer storage capacity of finished products (from 150 kg to 350 kg)
- Foot-type impulse sealer ensures the integrity of seal, thus protect and maintain the quality of the product
- Improved appearance of finished products due to its new packaging
- Constructed a new production area and improved working process
- 3.78% initial improvement of productivity (from 1.11 to 1.15)
- FDA-LTO on-process of acquisition

# PSTC-ILocos Sur

SMALL ENTERPRISE TECHNOLOGY UPGRADING PROGRAM (SETUP)

## PRODUCTION FACILITIES UPGRADING OF BAPTISTA FURNITURE

Industry Sector : Furniture  
Implementing Firm : BAPTISTA FURNITURE  
Project Cooperator : Mr. Christopher Baptista  
Project Location : Bantaoay, San Vicente,  
Ilocos Sur  
Project Cost : Php 236,800.00



### PROJECT DESCRIPTION

**Baptista Furniture** is one of many MSMEs that already tried technical assistance from the Department of Science and Technology (DOST). In 2017, it was one of the beneficiaries of the DOST SETUP Program where it was able to acquire a mini sawmill worth Php220,000.00 that solved the concerns in minimizing wasted raw materials (wood).

However, Christopher still has concerns about the planing process of his production. He observed that most of his workers' time is in the planing stage to the existing/current that his.

### INTERVENTIONS

- 18" Thickness Planer



Mariano Baptista, Sr. operates the Thickness Planer acquired thru DOST SETUP Program (b) wooden boards done using the S&T intervention.

## PRODUCTIVITY AND EFFICIENCY IMPROVEMENT OF FRED-INVO AUTO SUPPLY & CAR CARE CENTER

Industry Sector : Metals and Engineering  
Implementing Firm : FRED-INVO AUTO SUPPLY AND CAR CARE CENTER  
Project Cooperator : Mr. Freddie P. Rosario  
Project Location : Calaoa-an, Candon City, Ilocos Sur  
Project Cost : Php 680,000.00

### PROJECT DESCRIPTION

**Fred-invo Auto Supply and Car Care Center** is a beneficiary of the 2015 Regional Grants-in-Aid Program of the Department of Science and Technology in acquiring 1 unit of Auto Diagnostic Scanner/Analyzer that addressed its technical needs. As the shop operates and customers increase, new problems emerge. One of these is on crimping services that the shop outsourced to other shops. Mr. Rosario observed that more and more customers are looking for crimping services which they do not have, leaving him with no choice but to accept the job and outsource it but with less profit.

He also noticed that aside from the delays imposed by their current practice, the quality of the finished product is compromised.

With Mr. Rosario's observation and with his determination to establish a one-stop-shop with complete services being offered, he availed of the SETUP assistance from the Department of Science and Technology to improve their capability as well as their productivity.

### INTERVENTIONS

- Brand New Hydraulic Crimping Machine

### IMPACT

- Delays imposed by the outsourcing practices has been eliminated, leading to the increase in the efficiency of the workers.
- The project employed four (4) new workers consists of two (2) mechanic and two (2) machinists.
- The shop can now ensure precise, leak free and tear proof assembly of hose and fitting.
- Productivity of the firm increased by 15.38% (from 1.67 to 1.92).
- Monthly crimping jobs increased by 40% (from 15 pcs. /month to 21 pcs. /month).
- 11.99% increased income of the firm (from Php391,350.00/month to Php438,300.00/month).



Final output of the Crimping Machine.

# PSTC-ILOCOS SUR

SMALL ENTERPRISE TECHNOLOGY UPGRADING PROGRAM (SETUP)

## PRODUCTION FACILITIES UPGRADING OF R.B. ANDAYA FURNITURE WORKS

Industry Sector : Furniture  
Implementing Firm : R.B. ANDAYA FURNITURE WORKS  
Project Cooperator : Mr. Randy B. Andaya  
Project Location : Calimugtong, Galimuyod, Ilocos Sur  
Project Cost : Php 200,000.00

### PROJECT DESCRIPTION

**R.B. Andaya Furniture Works** established in 2016 is a single proprietorship enterprise engaged in the production of furniture such as sala set, dining set, cabinets, beds and doors. It also accepts made-to-order furniture and installation, and offers after sales service like restorations and repairs.

### INTERVENTIONS

- 3-in-1 Thickness Planer



PSTD Ramon S. Sumabat inspects the performance of the 3-in-1 thickness planer; workers performing thickness planing.



Randy Andaya showing the jointer - second function of the 3-in-1 thickness planer.



RB Andaya Furniture Works Finished Products.



## UPGRADING OF PRODUCTION FACILITIES OF CRISPY MUSHROOM MANUFACTURER

Industry Sector : Food Processing  
Implementing Firm : MUSHROOMENETA FARM AND FOOD PRODUCTS  
Project Cooperator : Mr. Gale Vincent C. Urmeneta  
Project Location : Poblacion Norte, Sta. Cruz, Ilocos Sur  
Project Cost : Php 330,804.00

### PROJECT DESCRIPTION

Gale Vincent C. Urmeneta started mushroom production as a hobby in March 2016 after watching numerous online video series on mushroom production. From the simple idea of converting a 3 m x 4 m vacant room (bodega) as a mushroom growing house, Gale invested an amount of Php7,500.00 for 300 pcs. fruiting bags. Initial oyster mushroom production output served for the family's food consumption, free taste for friends and prospect customers. When orders grew, it prompted Gale to construct additional 6 m x 10 m mushroom growing house and an additional 6 m x 10 m and 40 sq. m. preparation/bagging area for mushroom production.

In June 2018, Gale attended a training on mushroom production conducted by DOST-1 Caravan in Sta. Cruz,



Ilocos Sur. The resource speaker introduced the crispy mushroom processing technology which encouraged Gale to undertake product diversification. In October 2019, the firm became a recipient of the DOST technical and consultancy services on plant layout and food safety assessment.

Thus, in 2020, the firm availed of the DOST-SETUP assistance that upgraded the firm's equipment and addressed the recommendations of the food safety team on the assessment conducted.

### INTERVENTIONS

- Stainless Steel Preparation Table
- Stainless Steel Breading Table
- Stainless Steel packaging Table
- Stainless Steel Deep Fryer, 2 units
- Stainless Steel Tray Rack, 2 units
- Stainless Steel De-oiling Machine

### IMPACT

- 25%-40% decrease in frying time
- 33% increase in frying capacity per hour (from 6 kg/hr to 8 kg/hr)
- 75% decrease on de-oiling time, thus significantly reduce prolonged exposure of fried mushrooms that may cause contamination
- Efficient de-oiling of fried mushroom leading to increase in de-oiling productivity up to 60 kg per hour
- Reduced human handling of raw materials that may cause contamination
- Constructed a new production area for improved working process
- FDA-LTO on-process of acquisition

## RICE PRODUCTIVITY IMPROVEMENT OF WESTERN MAG-SDO IRRIGATORS ASSOCIATION (WMIA) INC.

Industry Sector : Agriculture  
 Implementing Firm : WESTERN MAG-SDO IRRIGATORS ASSOCIATION (WMIA) INC.  
 Project Location : Magsingal, Ilocos Sur  
 Project Cost : Php 153,000.00

### PROJECT DESCRIPTION

The Western Mag-Sdo Irrigators Association (WMIA) Inc. is an association of farmer-irrigators collectively from Magsingal and Sto. Domingo, Ilocos Sur. It was organized through the National Irrigation Administration (NIA) in 2011 and was registered to the Securities and Exchange Commission (SEC) in August that year.

The association operates through an irrigation system covering six (6) barangays in the western part of Magsingal: San Ramon, San Clemente, Cabaroan, Dacutan, Panay Norte, Panay Sur; and barangays in Sived and Pangpangdan.

### INTERVENTIONS

- 450L of Carrageenan Plant Growth Promoter to be used for two cropping season



(From left to right) Mr. Ramon Sumabat, Provincial Director of PSTC- Ilocos Sur, Mr. Marcelo Molina, President of WMIA, and Mr. Danilo Rumias, Board Member of WMIA during the acquisition of Carrageenan PGP.

## RICE PRODUCTIVITY IMPROVEMENT OF DAMACUAG FARMERS ASSOCIATION, INC.

Industry Sector : Agriculture  
 Implementing Firm : DAMACUAG FARMERS ASSOCIATION, INC.  
 Project Location : Damacuag, Sta. Lucia, Ilocos Sur  
 Project Cost : Php 153,000.00

### PROJECT DESCRIPTION

The Damacuag Farmers Association, Inc. (DFAI) is an association of farmers engaged in rice production. It started in 2016 with the need to create an association that will embody the farmers of their barangay and with the help from the local government unit of Sta. Lucia, the association was registered to the Securities and Exchange Commission (SEC) in October that year. The association has 95 farmer members and covers a cumulative farming area of about 100 hectares.

Generally, rice in the municipality of Sta. Lucia is cultivated during two main cropping seasons, namely the wet and dry. Dry season refers to rice planted from February to June; and wet season from June to November.

### INTERVENTIONS

- 450L of Carrageenan Plant Growth Promoter to be used for two cropping season

Brgy. Damacuag was one of the sites selected in the 2018 Carrageenan PGP field trial in Ilocos Sur. Carrageenan PGP is readily absorbed by plants and consumed as plant food supplement.

With positive results during the field verification, the DFAI applied for the Community-based Program of the department to continually boost their rice production. As a beneficiary of the Community-Based Program, the association has received 450L of Carrageenan PGP to be used for two cropping seasons: wet season (2020) and dry season (2021).

### IMPACT

- 26.06% Increase in yield from 4.712 MT/ha to 5.94 MT/ha.
- 17.66% Increase in Gross Sales from Php 70,680/ ha to Php 83,160/ha.



Regional Director Armando Q. Ganal interviews the officers of DFAI during the TNA Validation.



Mr. Dominador Hafalla, President of DFAI, with the acquired Carrageenan Plant Growth Promoter.

# PSTC-ILOCOS SUR

## COMMUNITY-BASED PROJECTS

### RICE PRODUCTIVITY IMPROVEMENT OF BUGNAY FARMERS ASSOCIATION, INC.

Industry Sector : Agriculture  
Implementing Firm : BUGNAY FARMERS ASSOCIATION, INC.  
Location : Bugnay, Candon City, Ilocos Sur  
Project Cost : Php 153,000.00

#### PROJECT DESCRIPTION

The Bugnay Farmers Association, Inc. (BFAI) was established in 2015 as a requirement of the Local Government Unit (LGU) of Candon City to organize an association that will represent the farmers of each barangay. On September 28, 2015, the BFAI was registered with the assistance of the City Government.

To date, the association has 120 farmer-members and covers a cumulative farming area of 71 hectares.

#### INTERVENTIONS

- 450L of Carrageenan Plant Growth Promoter to be used for two cropping season

Mr. Jonathan Quiyan, President of BFAI, with the Carrageenan Plant Growth Promoter.



Mr. Ramon Sumabat, Provincial S&T Director of PSTC-Ilocos Sur and the officers of Bugnay Farmers Association during the technology needs assessment at Brgy. Bugnay, Candon City.



Some of the main crops cultivated by the farmer members are rice and tobacco.

To boost rice production, 450L of Carrageenan PGP was provided as assistance to the association as part of the community-based program of the DOST.

#### IMPACT

- 10% increase in yield from 4.20 MT/ha to 4.62 MT/ha.



### EFFICIENCY IMPROVEMENT OF A MUSHROOM PRODUCTION

Industry Sector : Food Processing  
Implementing Firm : BABAYOAN STA. CRUZ INTEGRATED FARMERS ASSOCIATION (BSCIFA)  
Project Cooperator : Mr. Samuel D. Binas-o Jr.  
Project Location : Babayoan, Sta. Cruz, Ilocos Sur  
Project Cost : Php 170,000.00

#### PROJECT DESCRIPTION

The association was organized in 2014 by 47 farmers of Brgy. Babayoan, Sta. Cruz, Ilocos Sur. It was duly registered and accredited by the Securities and Exchange Commission (SEC) in May 13, 2014, with certificate number CN201427089, and initial members-paid-off capital amounting to Php3,000.00.

To promote self-reliant, self-sufficient, and self-propelling farmer minorities through a closer and stronger relationship among farmers and to be of better service to the community are the top purposes of the association. Also, the association was incorporated to establish various livelihood activities following the objectives of the government to enhance agricultural productivity, thus improving the quality of life of the people in the community.

To make this feasible, the association develops

#### INTERVENTIONS

- Hay Chopper
- Substrate Mixer
- Bagging Machine



PSTD Ramon S. Sumabat inspects the performance of the Bagging Machine (left photo), Substrate Mixer (middle photo) and hay chopper (right photo).

and sharpens the skills and abilities of its members, especially in productive farm management and entrepreneurship and to date the firm is currently producing and selling oyster mushrooms daily.

In 2020, the firm availed of assistance from DOST-1's Community-Based Program and was provided with assistance that enabled it to mechanize some processes in producing a delicious deep-fried oyster mushroom.

#### IMPACT

- 75% decrease in chopping time
- Uniform /even chopping of hay and increase chopping productivity up to 60 kg hay per hour
- 50% decrease in substrate mixing time
- Uniform /even mixing of the substrate
- Increase in mixing productivity up to 520 kg per hour including loading & unloading
- 70.3% decrease in substrate bagging time
- Increase bagging productivity up to 150 bags per hour
- Made some improvement in the production area and working process 14.29 % initial improvement of productivity (from 1.88 to 2.14)

# PSTC-LA UNION

SMALL ENTERPRISE TECHNOLOGY UPGRADING PROGRAM (SETUP)

## ADONG PANDE MONAY



Industry Sector : Food Processing  
Implementing Firm : ADONG PANDE MONAY  
Project Cooperator : Mr. Leonardo P. Galano  
Project Location : Sevilla, San Fernando City, La Union  
Project Cooperator : Mr. Leonardo P. Galano  
Project Cost : PHP 534,300.00

### ► INTERVENTIONS

- Three Deck Gas Oven
- Spiral Mixer
- Bread Slicer

### ► IMPACT

- Better product quality because of more even and uniform baking at specific time and controlled temperature
- Higher production rate: Increase in productivity
- Longer shelf-life; maintained quality/freshness of cakes using the 2-door chiller

### ► PROJECT DESCRIPTION

Mr. Galano grew up in a family of bakers. Almost all of his siblings have their own bakeries around the city. In 1999, he established his own bakery at P. Burgos St., in this city. The bakery thrived for almost 9 years. In 2009, he moved to Brgy. Bungro and continued the business until 2011. In following year, Mr. Galano saw a better location for his business moved at Barangay Sevilla up to the present.

## PRINT PRODUCTION TECHNOLOGY UPGRADING FOR CHANNEL PRINTS

Industry Sector : Gifts, Decors, Handicraft  
Implementing Firm : CHANNEL PRINTS  
Project Cooperator : Mr. Al Jesse Gache  
Project Location : Sevilla, San Fernando City, La Union  
Project Cost : Php 2,350,000.00

### ► PROJECT DESCRIPTION

Mr. Gache established the business in 2010 with an initial capital of PHP 300,000.00 and started as computer café only in Bauang with minimal printing services. The demand for printing services was more than the PC rentals which made him decide to upgrade the existing equipment to be able to accept more printing services such as tarpaulin printing, lamination, shirt printing and signages printing. Eventually, the firm expanded and opened another branch in San Fernando, La Union in CY 2015.

### ► INTERVENTIONS

- Sublimation Printer
- Rotary Heat Press

**CHANNEL PRINTS**  
CONCEPT | DESIGN | FABRICATION | PRINT

### ► IMPACT

- Outsourcing of the process was eliminated.
- The productivity of the firm increased due to the elimination of the travel time in outsourcing.
- Additional service/ product line (full sublimation printing)
- Faster Production from 2-3 weeks to 1-2 weeks per order (15 sets jersey)
- Can now accommodate even small orders unlike before that we need to set minimum orders since the production is being outsourced



Acquired Sublimation Printer and Rotary Heat Press for Channel Print.

### UPGRADING OF PRODUCTION PROCESS AND EQUIPMENT OF JAYPEE'S BAKESHOP

Industry Sector : Food Processing  
 Implementing Firm : JAYPEE'S BAKESHOP  
 Project Cooperator : Mr. John Paul Naoe  
 Project Location : Central West, Bauang, La Union  
 Project Cost : Php 441,600.00

#### PROJECT DESCRIPTION

Mr. Naoe was an HRM graduate. While studying on his second course, Mr. Naoe makes extra money by selling homemade polvoron and pastillas to his classmates, friends, and relatives with an initial capital of Php 800.00. He never thought these delicacies they sold will grow into a big business. With the increasing demand of his products, Mr. Naoe borrowed money from his parents to buy basic bakery equipment such as oven and mixer.



Awarding of equipment to Jaypee's Bakeshop with Mr. John Paul Nace (owner) and Ms. Princess P. Abuan (DOST-PSTC-LU staff).

#### INTERVENTIONS

- Three Deck Gas Oven
- Upright Chiller
- Spiral Mixer
- Planetary Mixer
- Cooling Rack
- Stainless Steel working tables

#### IMPACT

- Better product quality because of more even and uniform baking at specific time and controlled temperature
- Higher production rate
- Increased in productivity because manual processing from existing process and workflow has been upgraded and automated
- Longer shelf-life and maintained quality/freshness of cakes using the 2-door chiller
- Tools/equipment are compliant to Good Manufacturing Practices and food safety requirements

### UPGRADING OF PRODUCTION - PROCESS AND EQUIPMENT OF CHADDIES FOOD PRODUCTS

Industry Sector : Food Processing  
 Implementing Firm : CHADDIES FOOD PRODUCTS  
 Project Cooperator : Mr. Richard Corpuz  
 Project Location : Bangaoilan, Bangar, La Union  
 Project Cost : Php 162,000.00

#### PROJECT DESCRIPTION

Mr. Richard Corpuz was a former overseas worker in Abu Dhabi. He decided to retire in the corporate world to pursue his dream of having a farm in the Philippines and become a hands on farmer. He learned proper mushroom production technology to include tissue culture, creating spawns, and producing fruiting bags from his father. He also took up seminars and trainings in the Philippines such as GMP and chips processing. He also joined the benchmarking activity facilitated by DOST-I to 3 successful firms in mushroom production and processing and one (1) accredited fabricator of machineries in the Province of Bulacan last March 4, 2020.



Awarding and Testing of Bag filling machine led by Engr. Edison m. Acosta (SRS\_II PSTC La Union).

#### INTERVENTIONS

- Bag filling machine
- De-oiling machine
- Stainless Steel sink with bottom shelf
- Stainless Steel washing sink
- Stainless Steel Working table 3ftx5ft
- Stainless Steel Working table 2ftx5ft

#### IMPACT

- Tools/equipment are compliant to Good Manufacturing Practices and Food Safety requirements in chips processing
- Increased in productivity because manual processing from existing process (mixing and bagging) and workflow has been upgraded and automated
- Longer shelf-life for The mushroom chips because extra oil was extruded

# PSTC-LA UNION

SMALL ENTERPRISE TECHNOLOGY UPGRADING PROGRAM (SETUP)

## UPGRADING OF PRODUCTION PROCESS AND EQUIPMENT OF JOBI'S MUSHROOM PRODUCTS

Industry Sector : Food Processing  
Implementing Firm : JOBIS MUSHROOM PRODUCTS  
Project Cooperator : Ms. Josephine B. Bilan  
Project Location : San Joaquin Sur, Agoo, La Union  
Project Cost : Php 233,000.00  
Contact Number : +639178307436

### PROJECT DESCRIPTION

Ms. Josephine Bilan was a former overseas worker in Singapore for 20 years. He decided to retire in the corporate world to pursue her dream of having a farm in the Philippines and become a hands on farmer. She took up a lot of seminars and trainings in the Philippines about all kinds of farming and became more interested in mushroom farming. She learned proper mushroom production technology to include tissue culture, creating spawns, and producing fruiting bags.

### INTERVENTIONS

- Bag filling machine
- Substrate mixer
- De-oiling machine
- Band Sealer
- Stainless Steel Working table 3ftx6ft
- Stainless Steel Working table 4ftx8ft

### IMPACT

- Tools/equipment are compliant to Good Manufacturing Practices and Food Safety requirements in chips processing
- Increased in productivity because manual processing from existing process (mixing and bagging) and workflow has been upgraded and automated
- Longer shelf-life for The mushroom chips because extra oil was extruded



Turn-over of Bag Filling Machine to Ms. Josephine Bilan.

## UPGRADING OF PRODUCTION PROCESS AND EQUIPMENT OF TESSIE MUSHROOM HOUSE FOOD PRODUCTS

Industry Sector : Food Processing  
Implementing Firm : TESSIE MUSHROOM HOUSE FOOD PRODUCTS  
Project Cooperator : Mr. Jefte Dangalan  
Project Location : Saytan, Pugo, La Union  
Project Cost : Php 248,600.00

### PROJECT DESCRIPTION

Mr. Dangalan worked as an OFW in Saudi Arabia for 4 years. During his vacation here in the Philippines, her mother had suffered a stroke until her mother lost her ability to talk, think clearly, or walk. Regardless of being depressed of all the things had happened and get very frustrated looking for the mother he used to have, he continually try to reconcile the difference. Mr. Dangalan took the responsibility to be his mother's personal caregiver. He decided to stay in the Philippines and think of a viable business where he could invest his earnings and help his family.

Fortunately, his younger brother was a reseller of mushroom chips in Manila. He got interested with it and wanted to pursue the oyster mushroom farming. He attended trainings on mushroom production to have a proper knowledge on its planting and cultivation. He also attended skills training on oyster mushroom chips processing in Bulacan.

### INTERVENTIONS

- Bag filling machine
- Substrate mixer
- De-oiling machine
- Band Sealer
- Stainless Steel Working table 3ftx6ft
- Stainless Steel Working table 4ftx8ft

### IMPACT

- Tools/equipment are compliant to Good Manufacturing Practices and Food Safety requirements in chips processing
- Increased in productivity because manual processing from existing process (mixing and bagging) and workflow has been upgraded and automated
- Longer shelf-life for The mushroom chips because extra oil was extruded



Awarding of equipment to Tessie's Mushroom with Mr. Jefte Dangalan (owner), Ms. Princess Abuan (DOST-PSTC LU staff and Engr. Marlon Orpilla (DOST-1 RML staff).



# PSTC-LA UNION

SMALL ENTERPRISE TECHNOLOGY UPGRADING PROGRAM (SETUP)

## UPGRADING OF FACILITY FOR MUSHROOM FRUITING BAG PRODUCTION

Industry Sector : Agriculture  
Implementing Firm : MICAYLA'S MUSHROOM FARM  
Project Cooperator : Mr. Santiago B. Aquino  
Project Location : Cabaritan Sur, Naguilian, La Union  
Project Cost : Php 225,000.00

### PROJECT DESCRIPTION

Family business started by Mr. Santiago B. Aquino which is an OFW. The shop started with only 140 fruiting bags worth 40 pesos per fruiting bag bought at Baguio City last April 2016 and with present capitalization of 600,000. The shop expanded production by asking the LGU-Naguilan for mushroom house. The LGU-Naguilan then lend the vacant NFA warehouse near the slaughter house in Cabaritan Sur and also with 496,000 worth of loan. The farm has seven (7) contractual workers with two (2) regular Mr. & Mrs. Aquino.



Awarding of bag filling machine led by Province S&T Director Jonathan M. Viernes (DOST-PSTC La Union).

### INTERVENTIONS

- Bag filling machine
- Substrate mixer
- Fabricated Autoclave

### IMPACT

- The productivity of the firm increased because manual processing during mushroom production such as mixing, bagging, and sterilization were eliminated

## TECHNOLOGY ACQUISITION FOR SURGICAL MASK PRODUCTION IN SUPPORT TO THE FIGHT AGAINST COVID-19 PANDEMIC

Industry Sector : Health and Pharmaceuticals  
Implementing Firm : MODULHAUS INC.  
Project Cooperator : Mr. Richard Chan  
Project Location : San Marcos, Agoo, La Union  
Project Cost : Php 5,000,000.00

### PROJECT DESCRIPTION

**MODULHAUS INCORPORATED** started its operation in 2013 with an initial capital of P500,000.00. It is located in Brgy. San Marcos, Agoo, La Union. The people behind it have seven (7) years' experience in the industry of manufacturing modular products.

Modulhaus is one of Luzon's manufacturer of modular cabinets such as kitchen cabinets, wardrobe cabinets, entertainment cabinets, toilets and office partitions, reception bar, pantry cabinets, restaurant and console tables, bathroom and vanity fixtures, uPVC Windows and Doors, and other architectural and interior office and residential features. It uses top-of-the-line materials that made them competitive in the industry.

Since its operations began, Modulhaus Incorporated has invested heavily in some of the most advanced manufacturing machinery available and has also continued with productivity success. Modulhaus Inc. has been granted to avail SETUP loan for five (5) years term but for only four (4) years, the company's outstanding balance is almost fully paid because of its diligence and dedication.

Modulhaus Incorporated aims to deliver their products in a stipulated time frame and uses state of the art technology to render efficient and maximum client satisfaction.



Awarding and testing of Automatic Mask Making Machine and Ear Tape Applier with Mr. Richard Chan (owner) and Mr. Ryan Domingo of Modulhaus, Inc. led by Engr. Edison M. Acosta, SRS-II, DOST-PSTC-LU.

## RICE PRODUCTIVITY IMPROVEMENT OF BUSSAOIT SWISA, INC.

Industry Sector : Agriculture  
 Implementing Firm : BUSSAOIT SMALL WATER IRRIGATORS ASSOCIATION INC.  
 Project Cooperator : Randy E. Licudine  
 Project Location : Brgy. Bussaoit, Bacnotan, La Union  
 Project Cost : Php 125,120.00

### PROJECT DESCRIPTION

The association was first established in year 1986 named as Banuar Irrigation System Association. The association has no formal registration to any registry issuing agency but remained recognized by the local because of the help it provides to every farmer in terms of irrigation benefits. With the strong desire to unite, establish and build a stronger camaraderie among fellow farmers, it was renamed into Bussaoit Small Water Irrigation System Association and was officially registered to the Security on Exchange Commission in year 2013 headed by Mr. Randy Licudine. The association also has members from other barangays such as Burayoc, Agtipal, Zaragosa, Lisqueb, Leleg & Nagsabaran. Rice farming has been their main source of income aside from other agri-fishery production.

*Turnover of the 368 liters of CPGP to BSWISA officers and & MA of LGU Bacnotan and Orientation on the application methods of CPGP.*



### INTERVENTIONS

- 368 Liters of Vitalgro Carrageenan Plant Growth Promoter

### IMPACT

Aimed to support in securing the rice sufficiency level in our country during this time of pandemic, the DOST tapped the LGU Bacnotan in the identification of farmer's association who is willing to use the carrageenan growth promoter to boost their rice yield. Being an active association in their municipality, they were endorsed by Dr. Divina G. Apigo, Municipal Agriculturist of the LGU Bacnotan for the assistance on improving rice productivity using Carrageenan Plant Growth Promoter of the DOST.



## IMPROVEMENT OF OYSTER MUSHROOM PRODUCTION OF CABARSICAN CITY OF SAN FERNANDO RURAL IMPROVEMENT CLUB

Industry Sector : Agriculture  
 Implementing Firm : CABARSICAN CITY OF SAN FERNANDO RURAL IMPROVEMENT CLUB  
 Project Cooperator : Victoria O. Martinez  
 Project Location : Brgy. Cabarsican, City of San Fernando, La Union  
 Project Cost : Php 110,000.00

### PROJECT DESCRIPTION

The Cabarsican City of San Fernando Rural Improvement Club was established in 2015; but due to mismanagement, the association didn't prosper. Ms. Victoria Martinez, an active volunteer in the Barangay decided to initiate a meeting with some residents in 2016 to revive the association which they agreed. The association was registered under DOLE last 2018. She then started to manage the association and eventually elected as the president.

Through the initiatives of the Office of the Agriculturist, a training on mushroom production was conducted last May 2019 which the members of the association participated. Through the training, they were able to pursue mushroom production. Mr. Henry Nullar, the association's adviser donated a piece of his land for the mushroom production area and vermicomposting facility.



### INTERVENTIONS

- Multi-Purpose Shredder
- Fabricated Autoclave with Pressure Gauge

### IMPACT

Through the assistance of the City Government of San Fernando, the association was granted some start-up equipment such as raw materials and crates. The association started making fruiting bags last September 2019 and started to produce oyster mushroom last November 2019. The oyster mushroom became a hit in the community.

The association wishes to thrive in the field of oyster mushroom and production and vermicomposting. Hence, the association sought assistance from DOST to acquire appropriate equipment and skills training that will help improve the bubbling mushroom and vermicomposting business.



*Turn-over of interventions to CCSFCRIC cum demonstration on the operation & maintenance of the equipment.*

### UPGRADING OF THE FRUIT WINE PROCESSING OF DAGUP AGRARIAN REFORM COOPERATIVE

Industry Sector	: Food Processing
Implementing Firm	: DAGUP AGRARIAN REFORM COOPERATIVE
Project Cooperator	: Loloy T. Way-as
Project Location	: Brgy. Dagup, Bagulin La Union
Project Cost	: Php 107,140.00

#### PROJECT DESCRIPTION

Dagup Agrarian Reform Cooperative is one of the thriving community groups in the municipality headed by Mr. Loloy Way-as. The cooperative has 53 members, and farming is their common source of living.

The organization was first established in 2014 and was named as Loslosi Dagup Farmers Association. In the same year, they were assisted by the Department of Science and Technology Region I under the Community Empowerment thru Science and Technology (CEST) program specifically in the livelihood aspect.

In the mountain ranges of Bagulin, wild berries (bignay) were thriving and bringing bountiful harvest. With this, the DOST-1 considered this as an opportunity for value adding and introduced the technology on wine processing using wild berries (bignay) which are abundant in the community. The group was assisted by DOST-1 through a training on Bignay & Duhat processing. They were also provided label materials, blower for sealing bottle caps & plastic fermentation containers (6 units).



Turn-over of interventions to DARC led by Mr. Jonathan M. Viernes, PSTD-La Union.

#### IMPACT

In 2016, they started commercializing and slowly introducing their products outside the locality. In 2017, they decided to reorganize their organization and named it as Dagup Loslosi Farmer's Association.

In December 2019, they applied as a Cooperative and registered as Dagup Agrarian Reform Cooperative under the Cooperative Development Authority (CDA). This is through the assistance of the Department of Agrarian Reform (DAR). As a sign of commitment to the group, the local government unit of Bagulin promised to provide financial assistance for the purchase of a lot where their production plant will be established as they see the potential of the products and its impact in providing additional income to the farmers in Dagup.

The growing demand for the product and food safety issues, led the group to seek assistance from DOST for improved fruit wine processing and packaging and compliance to basic food safety standards.

#### INTERVENTIONS

- Stainless Steel Table (3.5 x 5 ft)
- Fabricated Juice Extractor (1 hp motor)
- Auto-Siphon (H-60-cm), 2 units
- Handheld Refractometer (0-31 degree brix)
- Packaging & Labeling Materials
- Seminar on Current Good Manufacturing Practices (8-18-20)
- Training on Juice & Wine Processing (8-19-20)
- On-site Benchmarking Activity in the Winery Production site of Brgy. Langcuas Ube Producers Association (BLUPA) in Brgy. Langcuas City of San Fernando, La Union (2-21-20)

### UPGRADING OF PRODUCTION AND PACKAGING IMPROVEMENT OF UBE WINE AND UBE JAM OF NAGUEY RURAL IMPROVEMENT CLUB

Industry Sector	: Food Processing
Implementing Firm	: NAGUEY RURAL IMPROVEMENT CLUB
Project Cooperator	: Anita A. Falancy
Project Location	: Brgy. Suyo, Bagulin, La Union
Project Cost	: Php 110,000.00

#### PROJECT DESCRIPTION

The association was first established in 1978 named as Naguey Women's Club that served as a second home in their community. The organization has a practice named as "Saranay" wherein if there were members that died.

Each member was encouraged to donate cash and rice. Such practice still goes around the generation up to the present.

In 2015, the association still thrived that caught the attention of Ms. Juvy Sagapan, Municipal Agriculturist of Bagulin. Ms. Sagapan, started supporting the group in renaming their organization into Naguey Rural Improvement Club.

In the same year, they were benefited a training on Ube Production Project of the Local Government of Bagulin in partnership with Asisi Development Foundation Inc., a Non-Government Organization. The project aims to support the farmers of Bagulin by intensifying their knowledge on the production of ube since the root crop is abundantly thriving in their locality. The LGU-Bagulin supported the project through the distribution of planting materials (ube setts).

NRIC Food handlers utilizing the cooking mixer provided by DOST.



Turn-over of interventions to NRIC led by Mr. Jonathan M. Viernes, PSTD-La Union.

#### INTERVENTIONS

- Fabricated Electric Cooking Mixer
- Packaging & Labeling Material for Ube Jam
- Seminar on Current Good Manufacturing Practices
- Training on Ube Processing (Puto, Halaya & Wine)

#### IMPACT

Ms. Sagapan also initiated to link the group to seek assistance from DOLE for their processing materials/equipment and eventually they have been provided.

Considering these opportunities, Ms. Sagapan requested the assistance of DOST through a training on Current Good Manufacturing Practices & Ube Processing (Wine, Puto, Chips & Halaya) in year 2018 and 2019 respectively.

After such trainings, the association sustained the technology. However, they encountered problem on their ube wine having poor quality and expensive printing label design. While on ube halaya, they much struggle in cooking specifically in continuous manual stirring which requires great patience, energy, and time from the members. Because of this situation, Ms. Sagapan tapped again the assistance of DOST to address such constraints.

## IMPROVEMENT OF PACKAGING AND LABELLING OF BANANA AND CAMOTE CHIPS OF CLIMATE RESILIENT AGRICULTURE BENEFICIARIES OF BURGOS COOPERATIVE

Industry Sector : Food Processing  
 Implementing Firm : CLIMATE RESILIENT AGRICULTURE BENEFICIARIES OF BURGOS COOPERATIVE  
 Project Cooperator : Mary-Ann Sino Cruz  
 Project Location : Brgy. Imelda, Burgos, La Union  
 Project Cost : Php 80,000.00

### PROJECT DESCRIPTION

**Climate Resilient Agriculture Beneficiaries of Burgos Cooperative (CRABCO)** is a climate resilient agriculture project of the Agriculture Training Institute (ATI) in collaboration with the Regional Agriculture and Fishery Network I (RAFEN I) with 30 members from Imelda, Burgos, La Union. The cooperative was established last July 22, 2019.

Since the community is abundant with camote and banana and the members' family are engaged in planting these crops, the cooperative decided to make chips out of these available resources. The cooperative aims to produce safe, healthy, and delicious products as well as to generate income for the members. To make this goal possible, the cooperative seek assistance from DOST to improve their packaging and labelling as well as to seek assistance in acquiring license to operate from Food and Drug Administration (FDA) so that they can reach wider market.



### INTERVENTIONS

- Automatic Vegetable Slicer
- Packaging & Labeling Materials

### IMPACT

- Reduced time in slicing raw materials
- Consistency in size and thickness
- Reduction of hazard in slicing



Mr. Jonathan M. Viernes, PSTD- La Union led the turnover of interventions to CRABCO cum demonstration on the operation & maintenance of the equipment.

## ADVANCEMENT OF PRODUCTION EQUIPMENT FOR PLANAS BAKESHOP

Industry Sector : Food Processing  
 Implementing Firm : PLANAS BAKESHOP & STORE  
 Project Cooperator : Mr. Benedicto L. Planas  
 Location : 338 Tactaquin St., Poblacion, Sual, Pangasinan  
 Project Cost : Php 463,200.00

### PROJECT DESCRIPTION

**Planas Bakeshop and Store** was established in 2002. Mrs. Evelyn and Mr. Benedicto Planas, the owners and managers of the bakery shop were former OFW in Saudi Arabia. They decided to go home for good and take a luck in establishing their business here in the country.

The bakery was the third business established after the failure of their RTW and hardware business. The business started due to the family's love in pastries.

A small bakery with an initial capital of Php10,000.00 with only one baker turned into a bigger bakeshop in Sual, Pangasinan. They already have 14 employees and have two existing bakeries in Sual and Alaminos City, Pangasinan.

Due to high demand of their products especially on special occasions, the firm needed to upgrade their equipment to cope with the demand. Because of this, Mr. Planas asked the assistance of DOST through SETUP.

### IMPACT

- 24-Tray Gas Oven
- Cooker Mixer
- Food Safety Assessment

### INTERVENTIONS

- 25% increase in monthly average sales from (Php 389,561.00 to Php 490,000.00)
- 25% increase in monthly production (from 22,400 to 28,000 various bakery products)
- Increased in productivity by 10% from 3.09 to 3.42 present productivity
- 30% decrease in gas consumption expenses



The 24-tray gas oven and cooker mixer provided under the DOST-SETP project

# PSTC-PANGASINAN

SMALL ENTERPRISE TECHNOLOGY UPGRADING PROGRAM (SETUP)

## TECHNOLOGY UPGRADE FOR JM SALT MANUFACTURING IN SUPPORT FOR SALT INDUSTRY

Industry Sector : Food Processing  
Implementing Firm : JM SALT MANUFACTURING  
Project Cooperator : Ms. Grace S. Monterola  
Location : Brgy. Cato, Infanta, Pangasinan  
Project Cost : Php 1,500,000.00

### PROJECT DESCRIPTION

Salt manufacturing is an ideal business along the coastal areas of Brgy. Cato, Infanta. **JM Salt Manufacturing** is a family business managed by Ms. Grace S. Monterola. In 2002, the firm, processed salt using only 1 evaporating pan and stove (pugon). To supply the high demand of quality refined salt, the firm decided to add 23 evaporating pans and stoves. The firm applied for DOST-SETUP Core funded (GIA) in 2016 and granted a Multi-Purpose Shredder used during low supply of rice hull used in cooking salt.

Together with the SETUP Assistance, the firm was also the pilot venue for the DOST-ITDI's new technology, the improved evaporating pans on bricks with enhanced combustion system.

The project helped the firm reach larger market and acquired additional customers. At present, the firm had fully developed their evaporating pan with stove and, again, asked for assistance from DOST through SETUP to construct and install the upgraded evaporating pans.



### INTERVENTIONS

- Enhanced Evaporating Pans with Stove

### IMPACT

- Compliance to food safety standards
- Minimized raking and monitoring of rice hulls during cooking giving the workers a more convenient and comfortable working environment.
- 50% decrease in production time from 16 hours to 8 hours of cooking salt per production cycle
- 20% increase in production volume from 1,350 bags to 1,620 bags of salt per month
- 20% decrease in fuel (rice hull) consumption, from 50 bags to 40 bags per production cycle
- 20% increase in monthly gross sales from P600,000.00 to P720,000.00
- Generated two (2) additional employment (Sadiri Butalid and Mr. Raymart Manding)



## TECHNOLOGY INNOVATION SUPPORT FOR AN AUTO SERVICE CENTER

Industry Sector : Metals & Engineering  
Implementing Firm : RJ KARR HOUSE GENERAL AUTO SERVICE CENTER  
Project Cooperator : Mr. Ronald D. Manongdo  
Location : Nalsian, Calasiao, Pangasinan  
Project Cost : Php 1,080,000.00

### INTERVENTIONS

- Computerized Wheel Aligner Machine
- 4 posts Car Lifter
- 2 posts Car Lifter
- Tire Changer
- Wheel Balancer

### IMPACT

- The car lifters provided decreased the production time by at least 33%, from a minimum 30 minutes to 20 minutes, as compared to using traditional jacks
- Ensured safety of workers against danger and harm
- Eliminated outsourcing of tire change and wheel balancing services giving the firm savings of at least P5, 200.00 per month
- Additional services for computerized wheel alignment were provided to clients giving the firm additional income of at least P50, 000.00 per month
- Able to service additional institutional clients such as RC Cola Company, PNP Asingan, PNP Malasiqui, PNP Bautista and Purity Insurance.
- 20% increase in monthly gross sales from P300, 000.00 to P360, 000.00
- Generated four (4) additional employment (Mario Hindol, Daniel Rosario, Manny Ocampo and John Michael Lopez as new mechanics)



# PSTC-PANGASINAN

SMALL ENTERPRISE TECHNOLOGY UPGRADING PROGRAM (SETUP)

## PROCESS ENHANCEMENT FOR RGL MACHINE SHOP IN SUPPORT TO METAL INDUSTRY

Industry Sector : **Metals & Engineering**  
Implementing Firm : **RGL MACHINE SHOP**  
Project Cooperator : **Mr. Roberto C. Fernandez**  
Location : **55 Roxas Blvd., San Carlos City, Pangasinan**  
Project Cost : **Php 141,866.38**

### PROJECT DESCRIPTION

Established in 2000, **RGL Machine Shop** is owned and managed by Mr. Roberto C. Fernandez. The firm arose from lights and sound service and ice cream vending owned and started by his father. Wanting to save money for the maintenance of 30 units of push carts and other delivery vehicles, Mr. Roberto Fernandez purchased one unit of lathe machine as he enrolled for vocational courses to learn more about machine operations. A year later, a friend introduced to him a skilled machinist that helped him in his machining job. With natural talent in fabrication and machining, enhanced by continuous learning and acquiring additional skills on metal crafts, Mr. Fernandez decided to pursue the machine shop business, thus, RGL Machine Shop was born and was registered on Department of Trade and Industry in year 2002.

To address the problem of outsourcing and manual cutting and bending process, the firm sought the assistance of DOST through SETUP to acquire Lathe Machine, Universal Milling Machine, Shaper Machine, Hydraulic Pipe Bender and Air Compressor. This technologies lessens the tedious work and improves the quality of their finished products.



### INTERVENTIONS

- Lathe Machine (3 Ft. Bed, 4 Jaw Chuck)
- Universal Milling Machine
- Shaper Machine
- Hydraulic Pipe Bender
- Air Compressor

### IMPACT

- Eliminated outsourcing of machining process giving the firm a monthly savings of up to P6,000.00
- Decreased production time by 30% from 3 hours to 2 hours for machining
- Improved quality of finished product 50% decrease in production time from 1 hour to 30 minutes of cutting using the shaper machine as compared to manual cutting using a hacksaw
- Reduced bending process by 50% from 1 hour to 30 minutes
- 10% increase in monthly gross sales from P150,000.00 to P165,000.00. John Michael Lopez as new mechanics)



## ADVANCEMENT OF FACILITIES FOR J.V.P. FARM TO ENHANCE QUALITY OF POULTRY PRODUCTS (PHASE II)

Industry Sector : **Agriculture**  
Implementing Firm : **J.V.P FARM**  
Project Cooperator : **Mr. Joseph V. Peralta**  
Location : **Brgy. Lunec, Malasiqui, Pangasinan**  
Project Cost : **Php 3,000,000.00**

### PROJECT DESCRIPTION

**J.V.P Farm** was established and registered in 2011 with an initial capitalization of PhP 3.5M. Its operation started in 2012, with one (1) building, as one of the contract growers of Foster Foods, Inc. A year after, its second building was constructed with the same bird capacity of 35,000 heads.

In 2016, the firm applied for SETUP that enabled them to acquire upgraded plastic slat mattings and in 2017, its third building was constructed and entered as contract grower of Charoen Pokphand Foods (CPF) Phillipines Corporation until this time.

To further enhance their production process, the firm requested for another assistance form DOST through SETUP and helped them acquired the following upgrades: Fans with 52" in Diameter, Wind Meter, Temperature and Humidity Sensors, Automated Feeder System with 5 lines and Automated Drinking System with 6 lines.



### INTERVENTIONS

- Fans with 52" in diameter, wind meter, temperature and humidity sensors
- Automated Feeder System with 5 lines
- Automated Drinking System with 6 lines

### IMPACT

- 15% increase in Feeds Conversion Ratio (FCR) or live-weight from 1.4 kg. to 1.6 kg. average weight per bird



# PSTC-PANGASINAN

SMALL ENTERPRISE TECHNOLOGY UPGRADING PROGRAM (SETUP)

## TECHNOLOGY INNOVATION SUPPORT FOR ANTIQUE FURNITURE SHOP

Industry Sector	: Furniture
Implementing Firm	: MMHER'S HOME FURNITURE SHOP
Project Cooperator	: Mr. Merlo F. Ferrer
Location	: Malabago, Calasiao, Pangasinan
Project Cost	: Php 184,925.00

### ► IMPACT

- The use of thickness planer resulted to accurate thickness of woods
- The firm no longer outsources welding job works for antique metals which resulted to Php 1,500.00 - 4,000.00 savings
- Penetrated 3 new market in Pangasinan and new linkage from contract engineer
- Employed 4 new production workers



**Mmher's Home Furniture** started in 2007 which was formerly known as Merlo's Antique in Calasiao, Pangasinan.

Mr. Merlo Ferrer started selling antique furniture after the idea of making furniture from the antique woods at their junkshop. He already established its markets by joining trade fairs and exhibits, contract engineers and supplies hotels, resorts, and restaurants in Pangasinan.

With increasing demand of their products, the firm started outsourcing furniture works from his former employees to cater bulk orders. The firm also do manual cutting of woods which consumed longer time of their production. They also use portable thickness planer in planing antique woods which took 4 hours to perfect the thickness required by the customer.

These problems were addressed with the assistance of DOST through technology innovation under SETUP.

### ► INTERVENTIONS

- Band Saw
- Thickness Planer
- Inverter Welding machine



# PSTC-PANGASINAN

COMMUNITY-BASED PROJECTS

## TECHNOLOGY PROMOTION OF CARRAGEENAN PLANT GROWTH PROMOTER IN SUPPORT TO RICE PRODUCTION

Industry Sector	: Agriculture
Implementing Firm	: TATARAC FARMER'S ASSOCIATION, INC.
Project Cooperator	: Mr. Daniel C. Asuncion
Location	: Brgy. Tatarac, Bayambang, Pangasinan
Project Cost	: Php 70,380.00

### ► PROJECT DESCRIPTION

The **Tatarac Farmers' Association** was established in 2011, the year when the former mayor of Bayambang Pangasinan, Engr. Ricardo M. Camacho, required the farmers from different barangays of Bayambang to form and register their own association as part of the municipality's program to improve their agricultural industry. This is also the primary requirement for the farmers to acquire benefits and assistance from the government. During those days, the Tatarac Farmers' Association is actively participating on the municipality's competitions for farmers and winning grand prizes. They use their cash incentives from winning the competitions to start the lending business for their members to help them financially on their farming needs.

### ► INTERVENTIONS

- 207 Liters Carrageenan Plant Growth Promoter



Provincial S&T Director of DOST-PSTC-Pangasinan, Engr. Arnold. C. Santos, awards 207 liters Carrageenan Plant Growth Promoter to Tatarac Farmers' Association, Inc.

As of today, the association has a total of 136 farmer-members, farming a total of 89 hectares of rice field in Bayambang, Pangasinan.

The association is producing rice once a year during the wet season only because of no available irrigation canal in their area. They produce corn, tomato and eggplant during the dry season.

Through the DOST-Regional GIA-Community-Based project, the firm was provided with 207 Liters of Vitalgro Carrageenan Plant Growth Promoter to promote the DOST-Developed Technology and at the same time increase their rice plants' yield.

### ► IMPACT

- 15% increase on rice harvest as compared to non-usage of carrageenan from 100 cavans to 115 cavans per hectare

## TECHNOLOGY TRAINING AND ENHANCEMENT OF CANDLE MAKING PROCESS FOR MAAWI INC.

Industry Sector : **Gifts, Decors, Handicraft**  
 Implementing Firm : **MAAWI RURAL WORKERS' ASSOCIATION, INC.**  
 Project Cooperator : **Mr. David B. Bumacod**  
 Location : **Brgy. Maawi, Alaminos City, Pangasinan**  
 Project Cost : **Php 50, 000.00**

### PROJECT DESCRIPTION

Established in 2011, the association started with a small neighborhood members until it slowly gained the interest of the whole barangay. Created to help its members to have an alternative source of income, the association engages into several businesses including banana-chips and candle making. They also opened their own store.

Through the DOST-Regional GIA Community-Based project, the firm was provided with a Skills Training on Candle and Moulder Making (including raw materials and production equipment) for the enhancement of their process on Candle Making.



### INTERVENTIONS

- Training on Candle and Moulder Making
- Packaging and Labeling design

### IMPACT

- 55% increase in production volume from 4,300 pieces to 6,600 pieces of various candles
- 10% increase in gross income from P50, 600.00 to P55, 200.00
- Improved label design of the products.

## TECHNOLOGY PROMOTION AND PROVISION OF CARRAGEENAN PLANT GROWTH PROMOTER TO TULIAO-CALAY IRRIGATORS' ASSOCIATION INC.

Industry Sector : **Agriculture**  
 Implementing Firm : **TULIAO-CALAY IRRIGATORS' ASSOCIATION, INC.**  
 Project Cooperator : **Mr. Diomedes G. Fernandez**  
 Location : **Brgy. Tuliao, Sta. Barbara, Pangasinan**  
 Project Cost : **Php 70, 380.00**

### PROJECT DESCRIPTION

The **TUMADASO** (Tuliao, Malanay, Dalangi, Songkil) Farmers Association, is the first ever association of farmers along Sinucalan River in Sta. Barbara, Pangasinan. This was established in December 2009 to help farmers acquire benefits and assistance from government agencies. Today, Tuliao-Calay Irrigators' Association, Inc. is one of the beneficiaries of National Irrigation Administration (NIA) subsidy for farmers. The organization that is composed of 183 farmers is among the biggest suppliers of rice in Sta. Barbara, Pangasinan.

### INTERVENTIONS

- Forage Chopper

The association is producing rice twice a year. Through the DOST-Regional GIA- Community-Based project, the firm was provided with 207 Liters of VitalgroCarrageenan Plant Growth Promoter to promote the DOST-Developed Technology and at the same time increase their rice plants' yield.

### IMPACT

- Ensured availability of silage all year round
- Decreased production time by 32% from 11 hours to 7 hours and 30 minutes
- Increased production volume by 5% from 600 bags to 630 bags
- 5% increase in monthly gross sales from P21, 000.00 to P22, 050.00



# PSTC-PANGASINAN FIELD OFFICE

SMALL ENTERPRISE TECHNOLOGY UPGRADING PROGRAM (SETUP)

## UPGRADING OF ROAD RUNNER MOTOR VEHICLE SHOP PRODUCTION EQUIPMENT

Industry Sector	: Metals & Engineering
Implementing Firm	: ROAD RUNNER MOTOR VEHICLE SHOP
Project Cooperator	: Ms. Marlene N. Saturnino
Location	: Nibaliw East, Poblacion, San Fabian, Pangasinan
Project Cost	: Php 471,825.00

### PROJECT DESCRIPTION

In 2015, Mr. Saturnino established **Road Runner Motor Vehicle Shop** with an initial capitalization of 200,000 pesos. The firm's services include Aircon Service, Under Chassis, Overhauling, Electrical Service, and Change oil.

One of the firm's production problems was they outsource from other machine shops for machining process and diagnostic scanning. They spent additional costs and time for the completion of jobs. Their mechanics have to inspect and repair underneath that might pose threat on their part.

### INTERVENTIONS

- Brake Lathe
- Two Post Car Lifter
- Automotive Diagnostic Scanner



The diagnostic scanner reads the electrical system of the car.



The workers access the undercarriage of the car for repair.

With this, Road Runner Motor Vehicle Shop applied for DOST's innovation system support through SETUP and was provided with the equipment needed in their production to improve their process and cater more jobs.

### IMPACT

- Increased sales by 20% from Php 155,460.00 to Php 186,550.00 a month
- Employed additional 4 workers



The brake lathe corrects the thickness variations on the rotor.

## TECHNOLOGY INNOVATION SUPPORT FOR THE PRODUCTION PROCESSES OF TONING DIGITAL PRINTING

Industry Sector	: Gifts, Decors, Handicraft
Implementing Firm	: TONING DIGITAL PRINTING
Project Cooperator	: Mr. Antonino Y. Fajardo, Jr.
Location	: HS Drive, San Vicente West, Urdaneta City, Pangasinan

Project Cost : Php 1,200,000.00

### PROJECT DESCRIPTION

In 2014, Mr. Fajardo started his printing shop business with an initial capitalization of 50,000 pesos given by his father to buy the needed equipment.

Services are tarpaulin printing, signage making, trophies/ plaques, medals, give away gifts, personalized items (mug, lanyard, and key chain), t-shirts, photo printing, and photo copy.

The firm sought the assistance of DOST through SETUP and acquired new equipment to cater new market trends and demand for higher quality digital printing.

The firm now offers various products like corporate giveaways, event souvenirs, plaques, medals, signages, product label stickers among others printed in any flat surface in different mediums like acrylic, wood, metals, plastics, cloths, ceramics and the like.

### INTERVENTIONS

- Mimaki UV Digital Printer

### IMPACT

- Established new clients: Boodle Hub Restaurant, Wheel Rider Gasoline, Office of the representative (Guico)
- Improved digital printed products
- Outsourcing has been eliminated



Operations of the UV digital printer.



Products of the UV digital printer



# PSTC-PANGASINAN FIELD OFFICE

SMALL ENTERPRISE TECHNOLOGY UPGRADING PROGRAM (SETUP)

## EQUIPMENT UPGRADING OF R.J. BODY BUILD & WELDING SHOP

Industry Sector : Metals & Engineering  
Implementing Firm : R.J. BODY BUILD & WELDING SHOP  
Project Cooperator : Mr. Rolando D. Jutie  
Location : Poblacion, San Fabian, Pangasinan  
Project Cost : Php 215,113.67

### PROJECT DESCRIPTION

In 2015, Mr. Rolando Jutie established **R.J. Body & Welding Shop**. The firm outsources metal sheet and pipe bending process. They are spending additional costs and time for the completion of jobs.

They also used arc welding machines that roughly weld vehicle parts but they cannot accept jobs that require superior weld quality and so with thin materials.

With their main production problems, they sought the assistance of DOST through SETUP to upgrade their processes and acquire the machines that will eliminate their outsourcing of jobs, minimize their cost and offer additional line of work.

*The worker bends a metal sheet through the bending machine.*



*The worker operates the TIG welding machine and the pipe bender.*

## MACHINERY UPGRADING FOR PRINTING SERVICES

Industry Sector : Others  
Implementing Firm : DC DANZCUT STICKERS  
Project Cooperator: Mrs. Florabel Riva C. Gallamos  
Location : UCU Drive, Brgy. San Vicente  
West, Urdaneta City, Pangasinan  
Project Cost : Php 1,950,000.00

### PROJECT DESCRIPTION

**DC Danzcut Stickers** started its operation in 2015 as a printing business. They started with one small machine cutter, printer and a laptop which enabled them to print and cut only small projects. Through the grace of God, they were able to purchase large format machine that prints in different kinds of media/ paper which includes tarpaulin, sticker, photopaper, canvas and many more. As of today, they now cater more of their customer's needs and they are hoping to serve more customers from other regions and overseas.

The firm accepts printing services using their laser printer and sublimation and tarpaulin printer but when the demand is high, they cannot accommodate it.

Because of this, the firm sought the assistance of DOST through SETUP and acquired an offset printing machine that can accommodate the high demand of customers.

### INTERVENTIONS

- Offset printing machine

### IMPACT

- Established 3 additional new clients: S&T Enterprises, Samson Agricultural Supplies, Petron Market
- Additional 3 workers
- Outsourcing has been eliminated



*Mr. Gallamos is operating the offset printing machine.*



# PSTC-PANGASINAN FIELD OFFICE

## COMMUNITY-BASED PROJECTS

### PRODUCTIVITY IMPROVEMENT OF THE RICE CROP PRODUCTION OF DUPAC FARMERS ASSOCIATION INC.



Industry Sector : Agriculture  
Implementing Firm : DUPAC FARMERS ASSOCIATION INC.  
Project Cooperator : Mr. Julian F. Pascua  
Location : Dupac, Asingan, Pangasinan  
Project Cost : Php 149, 940.00

#### PROJECT DESCRIPTION

**Dupac Farmers Association Inc.** is engaged in producing quality seeds and considered as one of the accredited seed growers. They purchase foundation and registered seeds from accredited supplier to produced certified seeds.

Quality seeds refer to seed grown following seed production protocols with high percentage of germination rate and produces higher yield. To ensure the quality of their seeds, the association observed proper roughing and remove weeds and diseased plants before harvesting and sent to laboratory for tests and evaluation.

The seeds must pass the National Seed Quality Control Services (NSQCS) certification.

To help improve the current practice of Dupac Farmers Association Inc., the association sought financial assistance from the DOST GIA (Grants-in-Aid) program and acquired 441 L Vitalgo Carrageenan Plant Growth Promoter.



Mr. Shubert (authorized representative) explains Awarding of Carrageenan and received by the president the procedure on how to use Carrageenan.



Awarding of Carrageenan and received by the president.

#### INTERVENTIONS

- 441 Liters of Carrageenan Plant Growth Promoter

#### IMPACT

- Ongoing implementation of the Technology Intervention

### RICE PRODUCTIVITY IMPROVEMENT OF CANAREM FARMERS ASSOCIATION, INC.

Industry Sector : Agriculture  
Implementing Firm : CANAREM FARMERS ASSOCIATION INC.  
Project Cooperator : Mr. Gaddiel B. Alcantara  
Location : Brgy. Canarem, Natividad, Pangasinan  
Project Cost : PHP 149, 940.00

#### PROJECT DESCRIPTION

The **CANAREM FARMERS ASSOCIATION INC.** was established in 2016 and engaged in rice production. It covers a cumulative farming of 102 hectares with 81 farmer-members active in rice production.

The association produced quality rice with two cropping schedules observed for the whole year. Each farmer-member is registered in Registry System for BasicSectors in Agriculture (RSBSA).

DOST through its Grants-in-Aid (GIA) program provided financial assistance in acquiring their needed technology for the improvement of their production.

#### INTERVENTIONS

- 441 Liters of Carrageenan Plant Growth Promoter

#### IMPACT

- Ongoing implementation of the Technology Intervention



Turn-over of 441 liters of Vitalgo Carrageenan Plant Growth Promoter (CPGP) to Dupac Farmers Association, Inc. and orientation seminar for their members.



# CEST 2020:

## Continuing, Engaging, Strengthening, Transforming Communities Amidst Covid-19

With the unexpected challenges in 2020 due to Covid19, the Department of Science and Technology Regional Office 1 continues to implement the Community Empowerment through Science and Technology (CEST) Program to partner communities bringing science and technology to the people. LGU partners such as the Municipality of Sugpon and Alilem, Ilocos Sur and the Municipality of Dumalneg, Ilocos Norte were provided with Science, Technology and Innovation interventions addressing the concerns in livelihood, environmental protection and conservation, health and nutrition, and human resource development.



(Top photo) DOST-1, PhilMech, and LGU-Sugpon, Ilocos Sur synergy on moringa project in Barangay Danac. Meanwhile, (right photo) Engr. Jordan L. Abad, CEST Program Coordinator, demonstrated the coffee dehuller machine to members of Licungan Coffee Growers Association.



## TOWARDS SUSTAINABLE LIVELIHOOD PROGRAMS

In support to established enterprises in the community, the program assisted associations in enhancing production processes through machine provision and introduction of new processing method.

A new processing technique for wine was introduced to Danac Ube Processors Association (DUPA) in January 2020 hastening production and reduce processing time. The association were also visited by the Philippine Postharvest and Mechanization (PhilMech) for the establishment of moringa powder processing to which the community planted around 200 cuttings to start the project.

Thirteen Licungan Coffee Growers Association (LCGA) members were also trained with Primary and Secondary Coffee Processing in March 2020 giving the importance of processing for value adding in coffee and to prepare them to roast their green coffee beans as a support to their coffee production. After the training, the LCGA was also provided 1000 liters capacity of storage boxes for green coffee bean storage. The coffee dehuller awarded was also demo-operated.

To mitigate the effect of the pandemic to one of the associations, the program conducted a hybrid training on Bamboo- Framed Face Shield (BFFS) to Kiat Bamboo handicrafts and Designers association. The training with nine attendees was conducted online by the DOST-Forest Products Research Development Institute (FPRDI) and was organized onsite by the DOST-1 with hands-on making and

assembly. The association were provided startup kits in the production of the BFFS that were marketed at PhP80.00 per piece. This product provides additional income relevant and marketable in these times.

Meanwhile, to reduce wastage in the production of instant turmeric tea, product development was conducted onsite utilizing machines provided such as the dehydrator and pulverizer to Apang Food Processors Association (AFPA). Eleven (11) members of the association participated in the machine demo-operation including the use of the induction sealer machine with the awarded packaging materials for turmeric powder and tea bags.

AFPA and DUPA products such as turmeric powder, tea bags and ube powder were applied for labeling assistance and now for finalization and production.



Engr. Abad, CEST Program Coordinator, demo-operated the dehydrator machine to AFPA Members in Barangay Apang, Alilem, Ilocos Sur during the product development of turmeric ginger.



(Left photo) A differently abled child from Dumalneg, Ilocos Norte weaving a native cloth with the thera-loom machine, and (right photo).

For Dumalneg, Ilocos Norte, the project INABEL (Innovations on Native Attires, Bracing and Encouraging Livelihood) was implemented with two components. The project includes a.) the Panagabel: A Training on Thera-Loom Weaving and b.) the provision of 4 units Thera-loom weaving machine with start-up kits (threads, warping tools, scissors among others). The training in partnership with Mariano Marcos State University was attended by 17 participants including high school students and teachers, SPED teacher, and housewives for the establishment of loom weaving in the locality as additional income source and promotion and preservation of culture. This intervention is a support to the weaving of native attires as means of promoting culture and providing livelihood opportunities especially to differently-abled individuals.



## OF ENVIRONMENT, EDUCATION AND NUTRITION

Ensuring potability of water, the program implemented Project DANUM (Disinfecting Aqua's Noxious and Unwanted Microorganisms) and conducted water resource mapping in July 2020 to six main spring sources and 17 households. Results of the laboratory test showed presence of contaminants to all water

samples thus the provision of water filters was initiated. 150 water filters were turned over to the LGU benefiting 323 households divided into 150 clusters. The bucket type water filter for household level filtration system is with counterpart from the LGU who purchased the buckets.



Empowering Lives, Building Communities! The CEST program continuously deliver S&T interventions such as Installation of Biogas Digester (Left photo), conduct of water sampling (middle photo), and awarding of educational tools and equipment in Dumalneg, Ilocos Norte (right photo).

The provision of water filters was supported by the installation of a 6000L biogas digester which aims to manage waste coming from the community piggery protecting the environment as well as providing fuel and lighting source to around 20 piggery renters. The unit will also serve as an educational site for high school students under the agricultural strand introducing them environment-friendly technologies.

In education, the program awarded educational tools and equipment to Dumalneg Elementary school such as computer set with sound system, smart TV, and printer installed with the Science and Technology Academic and Research-Based Openly Operated Kiosks (STARBOOKS and S&T modules). Augmented reality tools were also introduced to the school. Teachers were also capacitated on the use of these materials and were oriented on the management of the STARBOOKS.

For health and nutrition, a Malnutrition Reduction

Program Phase II was conducted after a consultative meeting with stakeholders from the LGU and Mariano Marcos State University (MMSU) in February 2020. Results of the meeting come up with a plan of a 2nd phase implementation with DOST PINOY (Package for the Improvement of Nutrition of Young Children) training conducted in July 2020 catering to seven new health workforces of the community.

Fourteen beneficiary kids with their guardians and 29 health workforces attended the launching of the 120-day complementary feeding utilizing the Department of Science and Technology Food and Nutrition Research Institute (DOST-FNRI) complementary foods such as rimo blend, rimo curls, nutria-bar, iron fortified rice, and micronutrient growth mix. The feeding with 37 beneficiary kids ages 6 to 59 months resulted to reduction of malnutrition rate of 54.05% with 20 kids improved in nutritional status.



Convergence! (Left photo) Hon. Magno A. Wailan, Mayor of Santol, La Union, delivered his acceptance message on the implementation of the CEST program in the municipality during the advocacy meeting. (Right photo) DOST-1 and DMMMSU renewed partnership on CEST Program in the province of La Union.

## EXPANDING AND ADVOCATING

To further expand the program in other areas in the region, DOST advocates CEST to its target partners for the cycle 2 of program implementation in the province of La Union. The municipality of Santol and the Don Mariano Marcos Memorial State University (DMMMSU) were chosen as partners in the implementation of the program in the province for 2021 providing positive response after the advocacy meeting.



# RSTL



## TRANSITION TO A "BETTER NORMAL" IN PROVIDING MORE EFFICIENT GOVERNMENT SERVICE

The Regional Standards and Testing Laboratory (RSTL) continues to provide testing, analysis and calibration needs of Micro, Small, Medium Enterprise, academic institutions, researchers, students, government agencies and the general public. In spite of the COVID-19 pandemic, the RSTL complies with the guidelines issued by the Inter-Agency Task Force for the Management of Infectious Diseases (IATF) that a critical government services shall ensure the continuous analytical testing and calibration in the region.

Going through the challenging times, the RSTL rendered a total of 8,658 testing and calibration services, assisted 2,601 customers, 1,278 firms and generated Php 5,468,127.00. Decrease is evident in the RSTL's accomplishment on the delivery of laboratory services because of the ongoing nationwide public health emergency due to COVID-19 Pandemic. The laboratory works was suspended and resumed 50 percent operating capacity during the enhanced community quarantine (ECQ) and Modified enhanced community quarantine (MECO). Border and quarantine restrictions disrupted food supply chains. It also restricted clients in submitting samples to the laboratory, many MSMEs were closed or partially opened during said period.

In response to mitigate impact of the crisis, RSTL initiated the preparation and distribution of 70% alcohol and provided disinfectant solution to frontlines in the region. Assisted in the preparation and distribution of face shield and face mask, food packs like Iron Fortified Rice and Calamansi juice for Hospitals, LGUs and Line Agencies.

The RSTL sustained its ISO 17025:2017 accreditation for the Chemistry, Microbiological and Calibration Laboratories. It is the international standards for laboratory excellence and the demonstration of technical competency to produce valid and reliable results. It has FDA and DOH accreditation for food and water testing, DENR EMB recognized environmental laboratory and was awarded with PRC license to operate chemistry laboratory in compliance to RA 10667 otherwise known as the Chemistry Profession Act.

Regional Metrology Laboratory was also involved in implementing mass, volume, temperature, linear and pressure calibration services in the region. With the support of the Provincial S&T Centers in the region, they conducted Calibration Caravans which caters free calibration services to stakeholders. A total 1,400 free calibration services, serving 945 customers and rendered a total of Php 509,000.00 value of assistance. Local firms – from raw and processed food exporters to petroleum products' haulers, local government agencies, public and private hospitals and local colleges and universities had their instruments, standards and apparatus calibrated in the competent and accessible laboratory.

It also implements the project "Enhancing OneLab for Global Competitiveness – Regional Operations Component" is a continuing project aiming to enable the network of laboratories (OneLab) to provide global access to comprehensive testing and calibration services at a single touch point. DOST | RSTL continually improved its delivery of analytical testing and calibration with the use of Unified Laboratory Information Management System (ULIMS).

Year 2020 was a transition period for the laboratory, new Laboratory Head was installed, and two lab personnel have been promoted for a plamilla position. The RSTL was awarded with an Innovation Award for the extraordinary contribution in the conduct of Food Safety e-Series "How safe is your food and ensuring food safety towards the New Normal" and two of its staff was awarded for "Most Outstanding Employee," and "Innovation Award" individual category.

The COVID-19 pandemic, however, has greatly affected all range of services worldwide. After the quarantine period, most business are trying to recover. As businesses are on its way to recovery, they are also trying to find ways to be even more competitive in the market. DOST RSTL aims to be at the forefront in providing essential services to these enterprises. With the continued support of the Philippine government and the patronization of local firms around the area, RSTL is committed in upgrading testing and calibration services, giving assurance that capabilities are at par with international standards and



## Sustained Delivery of S&T Services



### 8,659

Test and calibration  
Conducted  
Target: 14,111



### 1,278

Firms assisted  
Target: 1,883



### 902,524.75

Values of Assistance  
Rendered (Php)  
Target: 500,000.00



### 2,601

Customer served  
Target: 5,028



### 5,468,127.00

Fees Collected (Php)  
Target: 7,600,337.00

# TECHNICAL ASSISTANCE AND CONSULTANCY SERVICES

Technical Consultancy is considered another mode of technology transfer. This is rendered in any manner either directly or indirectly by technical experts to interested manufacturing firm for the improvement of a product to attain higher productivity.

Among the DOST assistance program offered to small and medium enterprises particularly in the

In 2020, DOST I was able to assist 14 Food firms:

OFFICE	FIRM	ADDRESS	PRODUCT
PANGASINAN	Chelsea's Peanut Butter	Bayambang, Pangasinan	Peanut Butter
	Bani Delicious Ice Cream Sustainable Livelihood Program	Bari, Pangasinan	Ice Cream
	Shelflex Food Products	Bayambang, Pangasinan	Fermented fish with rice (buro)
	Binmaley Upward Christian Women in Community Development	Binmaley, Pangasinan	Fish processors
	Healthy Choco Cafe	Calasiao, Pangasinan	Vegan meat processor
ILOCOS SUR	Conconig East Farmers Association	Sta. Lucia, Ilocos Sur	Processed Peanut
	Coffee Producers Cooperative	Sigay, Ilocos Sur	Coffee
	Manang Cora Sugarcane Manufacturing	San Ildefonso, Ilocos Sur	Fresh Mushroom and Crispy Mushroom
	Malakas Farm	San Juan, Ilocos Sur	
LA UNION	Tessie Mushroom House Food Products	Brgy. Saytan, Pugo, La Union	Mushroom chips
	Jobi Mushroom	Brgy. San Joaquin Sur, Agoo, La Union	Mushroom chips
	Chaddie's Food Products	Brgy. Reyna Regente Bangar, La Union	Mushroom chips
	Lomboy Farms	Brgy. Urayong, Bauang, La Union	Grape Wine
	Sudipen Women's Indigenous People's Organization (SWIPO)	Brgy. Poblacion, Sudipen, La Union	Tapuey Wine

**BANI DELICIOUS ICE CREAM SUSTAINABLE LIVELIHOOD PROGRAM ASSOCIATION**  
Product/s: ICE CREAM  
with Mr. Fernando S. Verseles, President and its members



manufacturing sector is Food Safety assessment – this involves the deployment of food safety experts to food processing firms to assist them in improving their compliance to requirements of Good Manufacturing Practices (GMP). SMEs will also benefit through product standardization, improved production, and plant layout and GMP compliance.



**CHELSEA'S PEANUT BUTTER**  
Product/s: Peanut Butter  
with Ms. Marjorie P. Lacap  
and Mr. Glenmore Lacap



**SHELFLEX FOOD PRODUCTS**  
Product/s: Fermented Fish with Rice (Buro)  
with the owner Mr. Norberto De Vera





The Department of Science and Technology Region 1's first Food Safety E-series has been conducted in July to August 2020, after holding ten food safety sessions for the local micro, small and medium enterprises (MSMEs). DOST 1, through the Regional Standards and Testing Laboratory, has launched another batch of Food Safety webinars last October 12-20, 2020 to accommodate customers who were not able to participate in the past webinars.

DOST 1 hopes that local MSMEs have gained a lot of insights and learnings from the sessions. May

Training webinars are as follows:

TITLE	ATTENDED (MS TEAMS AND FACEBOOK LIVE)	
	JULY 22 TO AUGUST 20, 2020	OCTOBER 12-20 2020
5S of Good Housekeeping	100	334
Food Safety Awareness	123	248
Good Manufacturing Practices	80	
Workplace and Food Manufacturing Disinfection (SSOP)	83	331
GMP Documentation	105	266
Sanitation Standard Operating Procedures	83	
Food Fraud and Food Defense	87	373
Packaging and Labeling Awareness; Mandatory Labelling Requirements (FDA)	88	280
Licensing and Product Registration HACCP Awareness	88	304
Food Innovation and Development	395	395
Guide to Starting a Microbusiness in the Philippines: Barangay Microbusiness Enterprise (BMBe)		179
Halal Requirement and Certification		387



Participants include MSMEs in Region, as well as food handlers, stall operators, government and non-government organizations and the general public.

these bring benefits to all of their undertakings in their businesses.

More than this, DOST 1 continues to strategize on programs, projects and activities it can undertake to ensure public service continuity despite the new normal.

In total, DOST 1 has conducted 20 webinars on Food Safety catering various sectors like the micro, small and medium enterprises, food handlers, stall operators, government and non-government organizations and the general public

TITLE	ATTENDED (MS TEAMS AND FACEBOOK LIVE)	
	JULY 22 TO AUGUST 20, 2020	OCTOBER 12-20 2020
5S of Good Housekeeping	100	334
Food Safety Awareness	123	248
Good Manufacturing Practices	80	
Workplace and Food Manufacturing Disinfection (SSOP)	83	331
GMP Documentation	105	266
Sanitation Standard Operating Procedures	83	
Food Fraud and Food Defense	87	373
Packaging and Labeling Awareness; Mandatory Labelling Requirements (FDA)	88	280
Licensing and Product Registration HACCP Awareness	88	304
Food Innovation and Development	395	395
Guide to Starting a Microbusiness in the Philippines: Barangay Microbusiness Enterprise (BMBe)		179
Halal Requirement and Certification		387



# HALAL

## Validation of Training Modules

For year 2 of implementation, the Training Needs Assessment and Development and Deployment of Training Module on Halal (TNA Halal Project) focused on the development of modules and deployment on Halal customized for various sectors. After the Human Resource Development Plan is developed, the project proceeded with the development of specific training modules that addressed the training requirements of the different Halal stakeholders. Three (3) training modules namely, (1) Halal Concepts and Principles, (2) Halal Assurance System, and (3) Halal Management System were developed by the DOST Halal Program and reviewed by Consultants/Experts, Academes, DOST Food Safety Teams and Halal Board Members.

The TNA-Halal Project of DOST1 facilitated the validation of three (3) training modules in the region. Three (3) DOST1-FST members and five (5) faculty members from SUCs in the region reviewed and commented in the drafted training modules. These modules will be used in future reference for extension activities, training programs, and academic purposes.

## Trainer's Training for DOST Food Safety Teams November 19-20, 2020

The development of the three (3) training modules on Halal under the TNA-Halal Project has been completed and launched nationwide on August 6, 2020. With these, the National Program Lead, DOST XI hosted a Trainer's training entitled: Halal Perspective in the Industry last November 19-20, 2020, prioritizing the Food Safety Team (FST) and Halal Project Staff of DOST Regional Offices. This strategy is to build the current knowledge and skills on food safety of DOST Personnel and other members of the food safety teams which is a crucial foundation for the development of Halal assurance systems.

Along with the other DOST ROs, four (4) FST members and one (1) Halal project staff of DOST1 participated and completed the training, and now recognized as experts for the Halal Concepts and Principles, Halal Assurance System and Halal Management System.





## Development of Monograph of Halal Products

The demand for Halal products has continuously grown over the past few years and is expected to grow even further. Muslim and other concerned consumers are very particular about the products they consume and use.

Thus, the TNA Halal Project developed a monograph of Halal products, DOST ROs are tasked to conduct a market survey to identify certified halal products present to their respective regions and it is being updated regularly. It covers foods and beverages, personal care and toiletries, dairy products, processed goods, clothing, and other things.

With these, consumers could easily be familiar with the Halal certified products existing in the Philippines.

## DOST 1 HALAL WEBINAR ACTIVITIES

### Halal Awareness Webinar | July 30, 2020

Recognizing the significant role of exports of the National Economic Development, and the potential contribution of Halal Industries, the Regional Standards and Testing Laboratory (RSTL) of the DOST Regional Office No. 1 conducted the Halal Awareness Webinar under the Food Safety e-Series Course, "How Safe is Your Food: Ensuring Food Safety Towards the New Normal", for Micro, Small, and Medium Enterprises (MSMEs) in Region 1.

The consumption of Halal foods and goods are compulsory to all Muslims. Lack of knowledge, awareness, and understanding of the Halal concept among Muslims and the manufacturers of Halal products may cause the loss of appreciation to Halal.

Mr. Decth-1180 P. Libunao, the DOST1 Halal lead auditor, discussed Halal Awareness. The topics considered are the Halal concepts and requirements, benefits of Halal compliance, Halal Certification Bodies, Malaysian Standard 1500:2019, Halal governing laws and regulations, and Halal product manufacturing and packaging. Moreover, open forum was organized as a part of the activity for clarifications and questions of the participants.

A total of 113 participants joined the webinar. Aside from the MSMEs, there are also Local Government Units (LGUs), National Government Agencies (NGAs), Regional Halal Sub-Committee's Member Agencies and DOST1 staff who also attended to support the activity.

Thus, the conduct of the webinar effectively promoted increasing Halal awareness and market reach and competitiveness of export-ready MSMEs in the region, and gained on understanding Halal that may enrich capability and build up businesses.



## Halal Certification and Requirements Webinar | October 20, 2020

In celebration of the National Science and Technology Week, the Regional Standards and Testing Laboratory (RSTL) of the DOST Regional Office No. 1 conducted the 2<sup>nd</sup> run of the Food Safety e-Series Course, "How Safe is Your Food: Ensuring Food Safety Towards the New Normal", for Micro, Small, and Medium Enterprises (MSMEs) in region 1 and one of the topics is on Halal Certification and Requirements.

The Halal Certification is one of the certifications aside from FDA-LTO that is sought after by MSMEs to tap a wider market reach and as compliance to the RA 10817. The Food Safety Team of DOST1 took the opportunity to help the MSMEs in the region in order to acquire and enhance their business services, products, practices, and process in compliance to Halal Certification, which is considered progress to businesses.

Dr. Norudin Kuit of Muslim Mindanao Halal Certification Board Inc. (MMHCB), was invited as the Resource Speaker to discuss the Halal certification scheme which includes the requirements, audit, and estimated cost in acquiring the certification. He also gave a brief background of their company as one of the recognized Halal Certifying Bodies in the Philippines recognized by the Philippine Accreditation Bureau.

The participants actively participated in the webinar. Aside from the MSMEs, there are also Local Government Units (LGUs), National Government Agencies (NGAs), Academes, and DOST1 staff also attended to support the activity. A total of 333 participants nationwide joined the webinar.

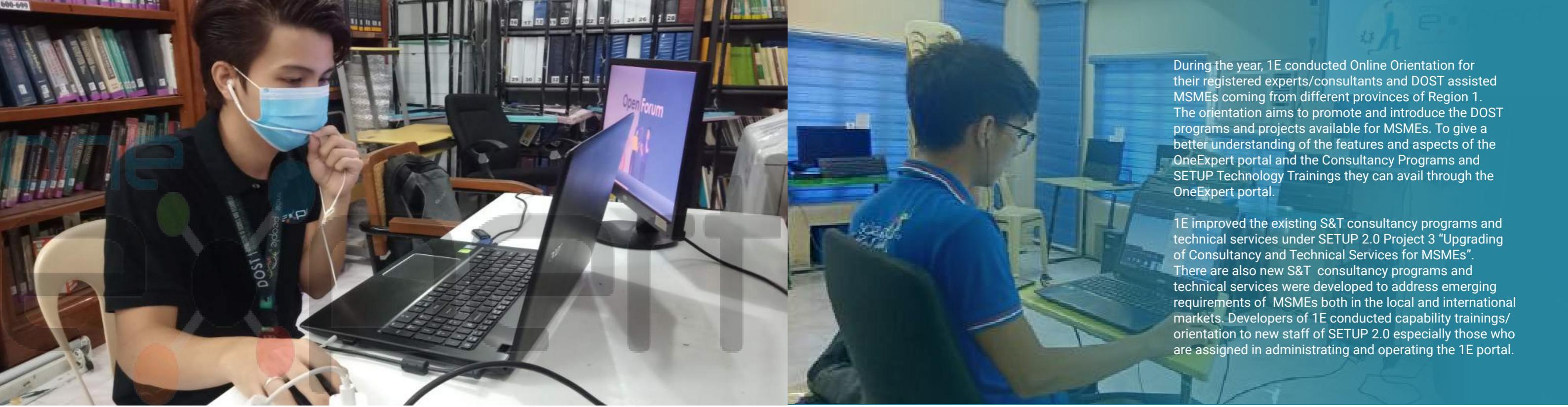


## ACTIVE PARTICIPATION OF DOST 1 TO REGIONAL HALAL SUB-COMMITTEE 1

The Regional Halal Sub-Committee 1 (RHSuCom1) is created in recognition of the significance of the Halal industry to the region's development and the need for more focused coordination among responsible agencies and organizations in harmonizing the implementation of RA 10817 or the Philippine Halal Export Development and Promotion Act of 2016.

The RHSuCom 1 conducted two (2) regular meetings for the 2nd semester of CY2020 adapting to the new normal using online platform presided by the regional director of the Department of Trade and Industry (DTI) Region 1, chair of the committee.

In support to Halal program, the DOST1 through TNA-Halal Project actively participated during the meeting. Also, the DOST1 contributed in implementing plans and initiatives concerning to the development of the Halal industry in the region such as consultancy assistance, webinars/training for MSMEs, the development and deployment of training modules on Halal, and submitted quarterly accomplishment reports, work plan and initiatives, and list of clients assisted for monitoring and development of the Halal Industries. Moreover, the DOST1 also actively participated in the webinars organized by the committee.



During the year, 1E conducted Online Orientation for their registered experts/consultants and DOST assisted MSMEs coming from different provinces of Region 1. The orientation aims to promote and introduce the DOST programs and projects available for MSMEs. To give a better understanding of the features and aspects of the OneExpert portal and the Consultancy Programs and SETUP Technology Trainings they can avail through the OneExpert portal.

1E improved the existing S&T consultancy programs and technical services under SETUP 2.0 Project 3 "Upgrading of Consultancy and Technical Services for MSMEs". There are also new S&T consultancy programs and technical services were developed to address emerging requirements of MSMEs both in the local and international markets. Developers of 1E conducted capability trainings/orientation to new staff of SETUP 2.0 especially those who are assigned in administrating and operating the 1E portal.

# ONE EXPERT

To enhance the delivery of this program, the Department of Science and Technology developed the OneExpert portal ([oneexpert.gov.ph](http://oneexpert.gov.ph)) wherein MSMEs can now have an easier access to experts/consultants and the DOST consultancy programs.

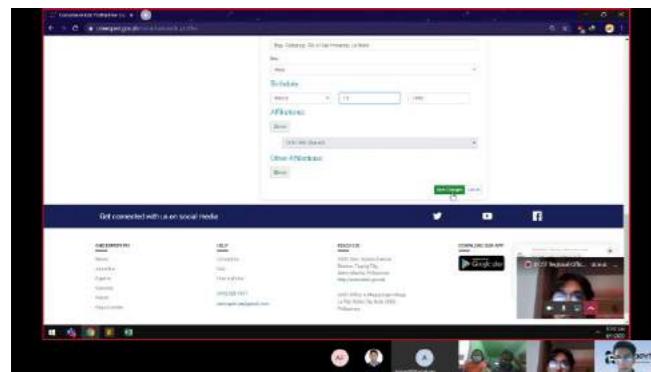
OneExpert portal is an interactive web-based nationwide pool of S&T Experts intended to provide technical advice and consultancy services to Filipinos anywhere in the Philippines. The portal comprises the country's scientists, researchers, engineers, and technical people from different agencies/institutions. Said experts are DOST's partners in addressing problems of the country through S&T-based solutions.

In 2020, more than 800 accredited experts nationwide with 159 experts coming from Region 1 are searchable and active in the portal. More than 3,000 client registered for assistance.



## Orientation on OneExpert to DOST assisted MSMEs

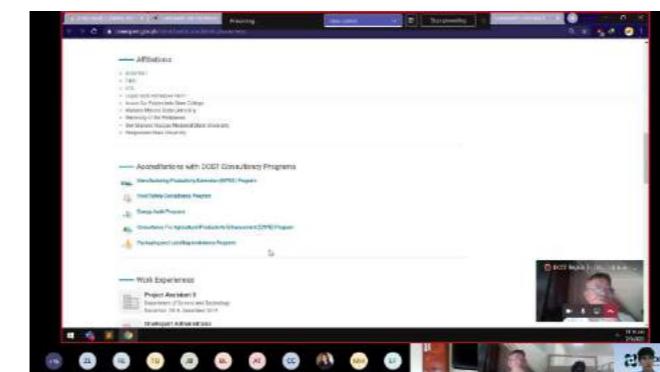
**BATCH 1 – June 1, 2020**



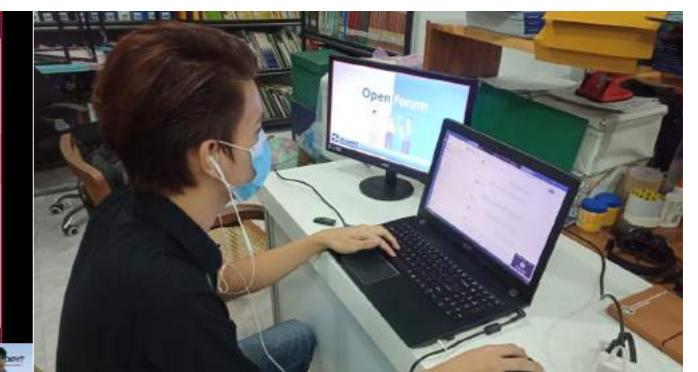
**BATCH 2 – June 15, 2020**



**BATCH 3 – July 3, 2020**



**BATCH 4 – July 24, 2020**



# PACKAGING AND LABELING SERVICES

Packaging and Labeling provides great impact to a product's competitiveness in the market. Packaging and Labeling are important as they are used for the identification of the products in marketing. These also improve the appearance of the product for its promotion. The label of a product helps to provide the information about a product to the prospective customer.

In our markets today, many products are still non-compliant on the Mandatory Label Information stipulated on the AO 2014-0030 of the DOH-FDA. Other than on the not proper labels of products, some products were also not properly packaged which affects the quality of the product itself. Poor packaging, limited shelf life, no product identity, non-compliance to regulations and non-competitive product are the common issues that the Packaging and labelling services of DOST 1 aims to address. Packaging and labeling plays a vital role in marketing and product quality.

In CY 2020, DOST 1 continued to provide assistance to MSMEs in improving their product through its Packaging and Labelling Assistance. The Regional Office maintains the services of the accredited graphic designers for packaging and labelling



from the region who facilitate the development of label design requirements of SETUP and GIA project beneficiaries and some MSMEs who requested for assistance, mostly in the food processing sector. The office was able to accredit additional six (6) graphic designers. The designs are subsidized by DOST Region 1, while the packaging execution is charged either to the SETUP/GIA project or to the firm itself.

A total of 18 firms benefitted from the service. Twenty Seven (27) products were provided with new label designs of different structure and 20 products were provided with packaging materials.



**Table 1. Target vs. Accomplishments.**

INDICATORS	ANNUAL TARGET	ACCOMPLISHMENT		ACCOMPLISHMENT
No. of Interventions provided:				
Packaging and Labeling Design Completed	31	42	64	206%
Packaging and Labeling Design Executed		22		
No. of Customers assisted:				
Packaging and Labeling Design/Execution	23	27		117%

**Table 2. Accomplishments of PSTCs**

PSTC	NO. OF INTERVENTIONS PROVIDED		NO. OF CUSTOMERS ASSISTED
	PACKAGING AND LABELING DESIGN COMPLETED	PACKAGING AND LABELING DESIGN EXECUTED	
PANGASINAN	14	3	7
LA UNION	9	5	7
ILOCOS SUR	9	6	6
ILOCOS NORTE	10	8	7
<b>TOTAL</b>	<b>42</b>	<b>22</b>	<b>27</b>



**Table 3. List of firms provided with product label designs.**

PROVINCE	NO	NAMES OF CUSTOMER	ADDRESS	NO	NAME OF PRODUCT/ LABEL
PANGASINAN	1	MJ Food Products	Purok Maligaya, Doyong, Calasiao, Pangasinan	1	Dried Green Mango
				2	Green Mango Vinegar
				3	Pineapple Vinegar
	2	Sancagulis Multi-Purpose Cooperative	Bayambang, Pangasinan	4	Rice Crackers
	3	Maawi Rural Worker's Association	Alaminos City, Pangasinan	5	Candles
				6	Dried Ganoderma Mushroom
				7	Oyster Mushroom Crumbs
				8	Mushroom Salternative
	5	Roderick Racelis	Mapandan, Pangasinan	9	Aysows Chili Garlic Sauce
LA UNION	6	Vilma M. Patacsil/D. Alarcio Womens Rural Improvement Club, Inc	Brgy. D. Alarcio, Laoac, Pangasinan	10	Bangus Tinapa
				11	Longanisa
	7	Dimalupig and Gabrielle Food Products & Trading	#326 Imbalbalatong, Poz-zurobion, Pangasinan	12	Sukang Iloko ni Lolo Boy (Artem Labuyo)
				13	Sukang Iloko (Zavruso)
				14	Sukang Iloko (Natural)
				1	Banana Chips, 175g
	1	San Cornelio Integrated Livelihood Assistance for Women and Men, Inc. (SCILAWME)	San Cornelio, Caba, La Union	2	Banana Chips, sweet, 90g
	2	Kabulig Farmers Association Iti Ili ti Santol, La Union, Inc.	Santol, La Union	3	Banana Chips, 175g
				4	Banana Chips, 90g
ILOCOS SUR	3	Mavy's Native Cakes House	San Fernando City, La Union	5	Royal Bibingka
	4	Dagup Agrarian Reform Cooperative	Dagup, Bagulin, La Union	6	Duhat Wine
				7	Bugnay Wine
	5	Inabaan Norte Agricultural MPC	Inabaan Norte, Rosario, La Union	8	Tugi Chips (75g)
				9	Tugi Chips (165g)
				1	Classic Longganisa
	1	CISWDC	Rosario, Cervantes, Ilocos Sur	2	Turmeric Longganisa
	2	Ayusan Norte - Pantay MPC	Ayusan Norte, Vigan City, Ilocos Sur	3	Vigan Longganisa
	3	Quimmarayan RIC	Quimmarayan, Sto. Domingo, Ilocos Sur	4	Roasted peanut
ILOCOS NORTE	4	Municipal Federation of RIC, Inc.	Sto. Domingo, Ilocos Sur	5	Packaging Materials for Carl Louie's Vigan Longganisa
	5	Metro Luba Coconut Farmers MPC	Luba, Sta. Lucia, Ilocos Sur	1	Sumader Cornick Processors Asso.
	6	Amelita's Longganisa & Meat Products Manufacturing	Sta. Monica, Magsingal, Ilocos Sur	2	Crizañas Food Products
	7			3	Barani Meat Prosessors Asso.
	8			4	Ambelitas Meat Products
	9			5	Garnaden MPC
	1			1	Longanisa 500 grams- Garlic
	2			2	Longanisa 1000 grams- Garlic
	3			3	Longanisa 500 grams- Generic
	4			4	Processed Meat- Generic 500 grams
	5			5	Longanisa 500g
	6			6	Brown Rice
	7			7	Longanisa, 1kg
	8			8	longanisa
	9			9	Banana Chips 100 grams
	10			10	Camote Chips 100 grams

PROVINCE	NO	NAMES OF CUSTOMER	ADDRESS	NO	NAME OF PRODUCT/ LABEL
ILOCOS NORTE	1	Crizañas Food Products	Brgy. Lanao, Bangui, Ilocos Norte	1	Longanisa 500 grams- Garlic
				2	Longanisa 1000 grams- Garlic
				3	Longanisa 500 grams- Generic
				4	Processed Meat- Generic 500 grams
	2	Ambelitas Meat Products	Brgy. 50, Button, Lao-ag City, Ilocos Norte	5	Longanisa 500g
	3	Rayuray MPC	Brgy. Rayuray, Batac City, Ilocos Norte	6	Brown Rice
	4	Barani Meat Prosessors Asso.	Batac City, Ilocos Norte	7	Longanisa, 1kg
	5	Garnaden MPC	Nueva Era, Ilocos Norte	8	longanisa
	6	Bacarra Norte Farmers Agrarian Reform Cooperative	Bacarra, Ilocos Norte	9	Banana Chips 100 grams
				10	Camote Chips 100 grams

**Table 4. List of firms provided with packaging materials.**

OFFICE	NO	NAMES OF CUSTOMER	ADDRESS	NO	NAME OF PRODUCT/ LABEL
PANGASINAN	1	Roderick Racelis	Mangaldan, Pangasinan	3	Aysows Chili Garlic Sauce
	2	D. Alarcio Womens Rural Improvement Club, Inc	Brgy. D. Alarcio, Laoac, Pangasinan	4	Bangus Tinapa
LA UNION	1	San Cornelio Integrated Livelihood Assistance for Women and Men, Inc. (SCILAWME)	San Cornelio, Caba, La Union	1	Banana Chips, sweet, 175g
	2	Kabulig Farmers Association Iti Ili ti Santol, La Union, Inc.	Santol, La Union	2	Banana Chips, sweet, 90g
	3	Mavy's Native Cakes House	San Fernando City, La Union	5	Royal Bibingka
ILOCOS SUR	1	Municipal Federation of RIC, Inc.	Sto. Domingo, Ilocos Sur	1	Longganisa
	2	CISWDC	Rosario, Cervantes, Ilocos Sur	1	Classic Longganisa
	3	Ayusan Norte - Pantay MPC	Ayusan Norte, Vigan City, Ilocos Sur	3	Vigan Longganisa
	4	Quimmarayan RIC	Quimmarayan, Sto. Domingo, Ilocos Sur	4	Roasted peanut
	5	Municipal Federation of RIC, Inc.	Sto. Domingo, Ilocos Sur	2	Packaging Materials for Carl Louie's Vigan Longganisa
ILOCOS NORTE	1	Sumader Cornick Processors Asso.	Brgy. Sumader, Batac City, Ilocos Norte	1	Cornick
	2	Crizañas Food Products	Brgy. Lanao, Bangui, Ilocos Norte	2	Longanisa 500 grams- Garlic
	3	Barani Meat Prosessors Asso.	Batac City, Ilocos Norte	3	Longanisa, 1kg
	4	Ambelitas Meat Products	Laoag City, Ilocos Norte	4	Longanisa, 500 grams
				5	Longanisa 1000 grams- Garlic
				6	Longanisa 500 grams- Generic
				7	Processed Meat- Generic 500 grams
	5	Garnaden MPC	Nueva Era, Ilocos Norte	8	Longanisa

The Packaging and Labelling Assistance intends to facilitate the improvement of label and packaging designs of local products as a strategy to widen the products' market reach. It is indeed a great strategy of our MSMEs to come up with wider market which would result into bigger sales.

# TECHNOLOGY TRAININGS

DOST I continues to deliver its services despite the hiatus brought by the pandemic this year. One of these services is the conduct of technology trainings. This is one of the innovation support services provided to MSMEs, organizations and associations that aim to upgrade and enhance their knowledge to increase productivity, to conform with appropriate standards or to learn livelihood trainings that can give them information to start a business from resources that are within their area or locality.

For CY2020, a total of 49 trainings have been delivered, majority of which are conducted virtually through the Microsoft Teams. This benefitted a total of 5,444 participants not only from Region I but also participants from other regions. This includes a series of Food Safety e-series Course facilitated by the DOST I Food Safety Team such as Food Fraud and Defense Awareness, Hazard Analysis and Critical Control Point (HACCP), GMP Documentation and Sanitation Standard Operating Procedure, Packaging and Labelling Awareness and Mandatory Labeling Requirements, Halal Awareness, Workplace and Food Manufacturing Disinfection and many more. Other trainings include livelihood training such as training on fish processing, chili processing, bread and pastries, honeybee culture and peanut processing. Trainings were also conducted during the month-long virtual celebration of the National Science and Technology Week.



Some of the technology trainings conducted in the region were on mushroom, peanut, bignay and fish process.

# TECHNOLOGY FORA

Technology fora are conducted to promote to prospective and existing entrepreneurs on technology-based investible areas and appropriate technologies ready for adoption/commercialization generated by the DOST Research and Development Institutes (RDIs).

Majority of the forums from the previous years were conducted during S&T Caravan and Regional Science and Technology Week but because of the pandemic, these activities were cancelled. For CY 2020, DOST I only conducted 3 forums virtually through the online platform Microsoft Teams benefitting a total of 654 participants. This is part of the month-long virtual celebration of the National Science and Technology Week. The topics presented were Waste Analysis and Characterization Study (WACS), DOST-ITDI Solid Waste Management Technologies, Waste Management System featuring Ecosep Vigormin and Carrageenan Plant Growth Promoter Technology.

National Science Technology Week  
REGIONAL OFFICE 1  
DEPARTMENT OF SCIENCE AND TECHNOLOGY  
INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

Orientation on Conducting Waste Analysis and Characterization Study (WACS) and Presentation of Different DOST-ITDI Solid Waste Management Technologies

21 October 2020 | 9:00 AM - 12:00 NN

Via Microsoft Teams | LIVE

Resource Speakers:

- Engr. Joven R. Basalo, Science Research Specialist, Topic: DOST-ITDI Solid Waste Management Technologies
- Dr. Myra L. Tesaengco, Supervising Science Research Specialist, Topic: Solid Waste Composting Technologies
- Engr. David L. Herreno, Science Research Project Associate, Topic: DOST-ITDI Biogas Technology
- Engr. Dennis Vergara, Science Research Project Associate, Topic: DOST-ITDI Plastic Converter

Register here: <https://bit.ly/36oBYbL>

National Science Technology Week  
REGIONAL OFFICE 1  
DEPARTMENT OF SCIENCE AND TECHNOLOGY  
REGIONAL OFFICE 1

Virtual Forum on Carrageenan Plant Growth Promoter Technology

Resource Speaker:

- Ms. Crisly D. Cakalligong, Licensed Agroforester and MSc in Soil Science, Topic: Carrageenan Plant Growth Promoter Technology in Region I

Register here: <https://bit.ly/36oBYbL>

OCT 22 9:00 AM 2020

Via Microsoft Teams

Promotion on the use of Carrageenan plant growth promoter to LGUs particularly to MAOs for their consideration for adoption to be used by their farmer constituents.

DEPARTMENT OF SCIENCE AND TECHNOLOGY  
REGIONAL OFFICE 1  
National Science Technology Week  
REGIONAL OFFICE 1

TechTalk on Waste Management System featuring Ecosep/Vigormin

27 October 2020 | 9:00 AM - 11:00 AM

Via Microsoft Teams | LIVE

Speaker:

- DR. MERLINGA A. PALENCIA, Project Manager, Vigormin Technology Innovation, Technology Support Office (TSO), Adamson University.

Register here: <https://bit.ly/36oBYbL>

Eco-Sep is a sustainable and eco-friendly septic water management system that addresses the problem on untreated waste waters. This activity aims to promote the use of EcoSep and Vigormin to ILOI & MIDFI.

PAANO GUMAGANA ANG VIGORMIN?

Vigormin mix

1 Provides oxygen to water-cleaning bacteria

Pagka-flush ng Vigormin sa ilidoro, ito ay nagiging oxygen provider and minerals ng mga bacteria na kumakain at naglilinis ng maduming tubig

SEPTIC TANK

dry wastewater

DR. MERLINGA A. PALENCIA, Project Manager, Vigormin Technology Innovation, Technology Support Office (TSO), Adamson University.

# OUTCOME 05 RESILIENCY TO DISASTER RISKS AND CLIMATE CHANGE ENSURED



## DISASTER RISK REDUCTION MANAGEMENT

The DOST 1 continued its efforts in implementing activities that support the Disaster Risk Reduction and Management. In early part of the CY 2020, the Coronavirus disease (Covid-19) spread in the country which resulted to sickness of people.

To help address the current situation, DOST 1 implemented mitigation and response activities. These activities are the: 1) distribution of PPEs for the frontliners; 2) distribution of other response packages like complementary foods and disinfecting materials; 3) deployment of Specimen Collection Booths for the health workers, conduct of training and orientation on various ICT enabled tools like the FASSSTER; and 4) Development and deployment of CovidDETECT and FastPass.

Below is the summary of accomplishments for the Disaster Risk Reduction and Management:

Table 1. CY 2020 DRRM Target vs. Accomplishments

INDICATORS	CY 2020 TARGET SUMMARY	GRAND TOTAL	% ACCOMPLISHMENT
No. of measures on disaster risk reduction and mitigation implemented	16	26	162.50%
Activities	4	15	375%
IEC Materials Distributed	12	11	91.67%
NO. OF DRRM RELATED COLLABORATIONS WITH STAKEHOLDERS	5	11	220%



One of the notable activities of the office during the pandemic in CY 2020 is the deployment of Specimen Collection Booths (SCBs). The SCBs are used to aid and protect our health workers in the conduct of mass testing. These SCBs were designed by the Future Aviation and Maritime Enterprise, Inc., a Startup Grant Awardee of DOST-PCIEERD. The DOST SCB design passed the performance assessment from the Regional Institute for Tropical Medicine, Philippine General Hospital, Lung Center of the Philippines and Dr. Jose N. Rodriguez memorial Hospital. The design was based on testing booths used by other Asian countries. The SCB design were released to public for possible reference and adoption of some fabricators. The DOST 1 in partnership with Modulhaus, Inc., a SETUP Project Beneficiary, located at Agoo, La Union and one of the adoptors of the design, fabricated nine (9) units for deployment to various hospitals and LGUs in Region 1. Alongside with this, the DOST1 also rolled-out the seven (7) units of SCBs provided by the DOST. The list of the beneficiaries of the SCBs are presented in the following table:



PROVINCE	NO. OF SCB PROVIDED	NAME OF HOSPITAL
Ilocos Norte	2	Mariano Marcos Memorial Hospital and Medical Center, Batac City
	1	Gov. Roque B. Ablan, Sr. Memorial Hospital, Laoag city
Ilocos Sur	1	Ilocos Sur Provincial Hospital - Gabriela Silang, Vigan City
	1	City Government of Vigan, Ilocos Sur
La Union	3	Ilocos Training and Regional Medical Center, City of San Fernando
	1	La Union Medical Center, Agoo
	1	City Government of San Fernando, City of San Fernando
	1	DOH-CHD1, City of San Fernando
Pangasinan	2	Region 1 Medical Center, Dagupan City
	1	Pangasinan Provincial Hospital, San Carlos City
	2	City Government of Dagupan
<b>TOTAL</b>	<b>16</b>	



Aside from the distribution of PPEs (facemasks, face shields, alcohol, etc.) and food packs for frontliners, DOST-1 also provided complementary foods for toddlers and kids aged 0-5 years old. The complementary food is a packaged of RIMO products such as Go & Grow Micronutrient Mix, RIMO Instant Blend, RIMO Instant Blend Dry Cereal, and RIMO Curls. These products were developed by the DOST Food and Nutrition Research Institute (DOST-FNRI) and produced by Nutridense Food Manufacturing Corporation located in Sta. Barbara, Pangasinan. DOST-1 continues to reinforce its support to the "Heal as one Act" of the government by providing the pressing needs of the community in addressing the COVID-19 pandemic.



Furthermore, the DOST 1 through its Information Technology Services and Management Unit also managed to developed some information systems and applications to support the government's efforts to combat the Covid-19 pandemic. These systems are the The COVID-19 Detection and Reporting of Exposed Individuals Through Efficient Contact Tracing or CovidDETECT and Fastpass.

The DOST 1 alongside its partner agencies the Department of Health Center for Health and Development 1 (DOH), the Department of Interior and Local Government Regional Office 1 (DILG) and the Regional Task Force on COVID-19 in Region 1 (RTF) initiated the development and deployment of the CovidDETECT and FastPass Systems.

The CovidDETECT System is a tool used by the



The banner features the text "CovidDETECT & FastPass for efficient Contact Tracing". It includes two QR codes: one with a red shield icon and another with a green shield icon. The background has a light blue gradient with abstract network-like lines.

On the other hand, FastPass is a system designed to work with CovidDETECT. It is one of the solutions developed and introduced by DOST 1 to enhance the Contact Tracing activities. It aids on tracking and identifying close contacts of COVID-19 Cases. It utilizes QR Code technology to minimize the physical contact with pen, papers and logbooks. It is intended to be used by all individuals who are allowed/authorized to go out during Community Quarantine and the private and public establishments. Fastpass can help contact tracers in identifying the Close Contacts of a certain COVID-19 Case. It records the mobility of an individual by scanning the QR Code. It also serves as a tool to prevent or mitigate the spread of the virus by providing warnings to the establishments on the individuals who attempts to enter their vicinity who were tagged as LSI, Close Contact or Case. The system can record

Contact Tracing Teams in the conduct of contact tracing in Region 1. It is a system for managing information of COVID-19 Cases and its Close Contacts. The system was created to be a tool for the whole region to hold information of COVID-19 cases and its close contacts with their exposures and symptoms. The data on the system is populated by DOH-CHD 1 and its counterparts in the LGUs. The system analyzes the data and is presented into its dashboard which can be accessed by the public at <https://coviddetect.dost1.ph>. The Dashboard presents a quick overview of the status of COVID-19 Cases and its Close Contacts. Also, the information produced by the system can be used to help decision makers and planners as their reference to where to impose community quarantine and where it needs to be heightened or where are the areas that needs mass testing.

## OTHER DRRM RELATED PROGRAMS/PROJECTS/ACTIVITIES

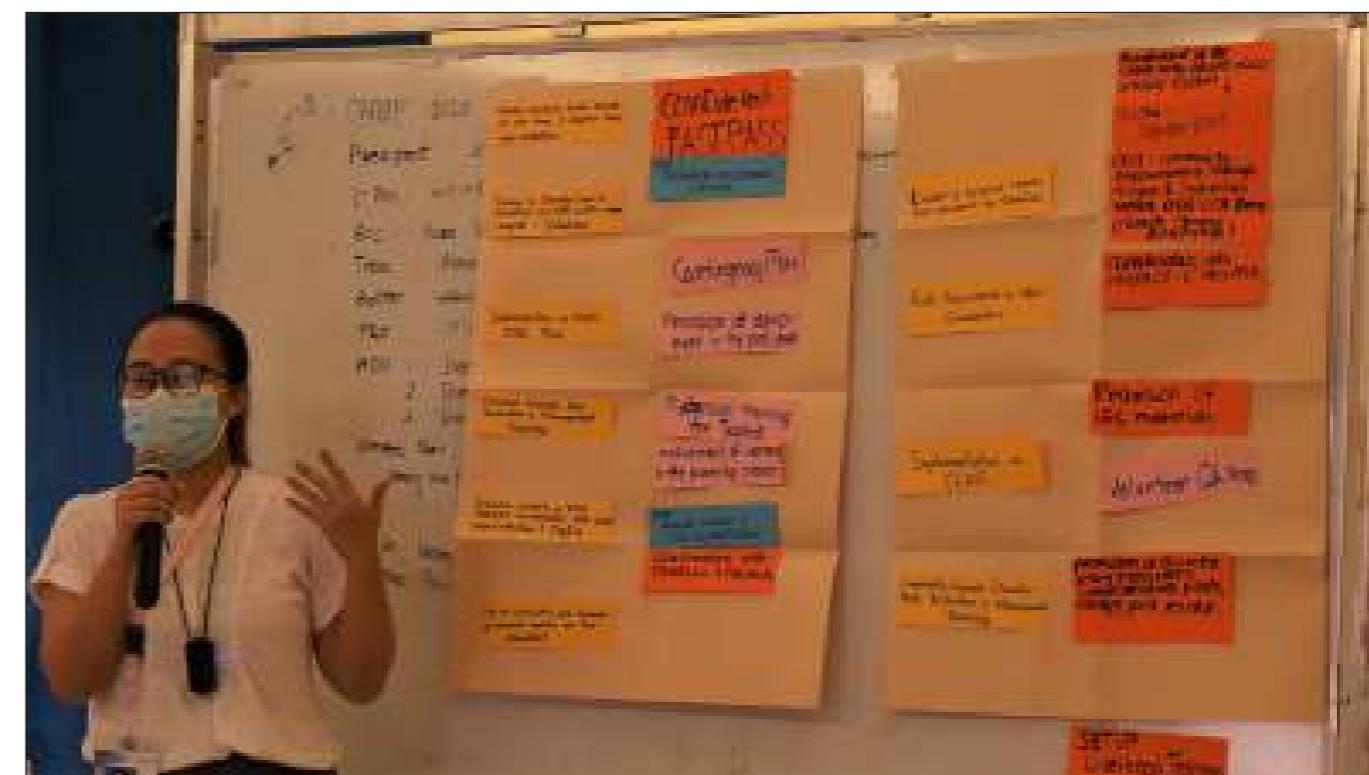


Activities for DRRM in CY 2020 were significantly higher than the targets due to the active participation of the office into different DRRM activities like the roll-out of ICT solutions and tools to help in the combat with Covid-19 pandemic like the FASSSTER and TanodCovid. Likewise, DOST 1 continues to participate in the RDRRMC activities on pre- and post-disaster risk assessment, coupled with the dissemination of IEC materials.

DOST 1 continuously supports and joins in the activities of the DRRM Council of Region 1. These activities include but not limited to attendance to RDRRM Council Meetings, Regional Inter-Agency Task Force on Management of Emerging Infectious Diseases (RIATF-MEID) and Regional Task Force (RTF) Meetings.

Likewise, the DOST served as Resource Speaker in the various trainings and orientations on the Conduct of Contact Tracing and on the deployment of Feasibility Analysis of Syndromic Surveillance Using Spatio-Temporal Epidemiological Modeler For Early Detection of Diseases (FASSSTER) and TanodCovid.

DOST 1 also conducted various orientations on the use of the Covid-19 Contact Tracing information system and applications and distributed IEC Materials to LGUs and schools in Region 1.





# OUTCOME 06

**INEQUALITY IN STI  
CAPACITIES AND  
OPPORTUNITIES  
REDUCED**

## NICER NICHE CENTERS IN THE REGIONS FOR R&D PROGRAM

**N**iche Centers in the Regions for R&D (NICER) Program is one of the four programs of the Science for Change (S4C) program. It is for the Higher Education Institutions (HEIs) to aid in the regional development through accelerating the industrial competitiveness.

The region has Mariano Marcos State University (MMSU) as part of the NICER project. Currently, it is conducting the project, "Garlic Research and Training Center".

Through R&D, the researchers pursue on improving and developing the industry of garlic, and other agri-food condiments like shallot, ginger, and turmeric. The project expects to build competitiveness, efficient production, and processing storage facilities of local garlic.

Specifically, the project expected outcomes are increased yield of 1.2 t/ha, reduced bulb weight loss of 35%, and increased net income of garlic growers by 30%.

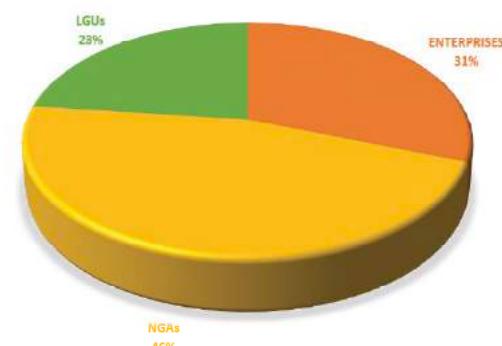
### INNOVATION CENTERS

<b>89</b> GENERATED CONCEPTS	<b>28</b> NEWLY DEVELOPED PRODUCT	<b>2</b> COMMERCIALIZED TRAININGS	<b>17</b> CONDUCTED TRAININGS
<b>89</b> PUBLICATION	<b>28</b> IP FILED	<b>2</b> TECHNOLOGY ADAPTOR	<b>17</b> PACKAGE OF TECHNOLOGY

**P 115, 783.33**  
PSU-DOST1 FIC GENERATED INCOME 2020

RDMILU monitors the innovation centers of Region 1 including the Food Innovation Centers (FICs) and Metals Engineering and Innovation Center (MEIC). FICs of Mariano Marcos State University (MMSU) and Pangasinan State University (PSU) continuously progress in conceptualizing, developing, and commercializing new products to help small enterprises in the community. In addition, research papers and food products are being published and patented. MEIC of DMMMSU-MLUC develop an agricultural equipment, which is successfully sold to the technology adaptor, LGU Pangasinan.

In total, innovation centers have (89) generated concepts, (28) newly developed products, (2) commercialized products, (17) trainings conducted, (16) established linkages, (1) publication, (1) IP filed, (5) technology adaptors, and (4) package of technology.



Department of Agriculture • Department of Trade and Industry - Pangasinan • DOST-PSTC La Union • DOST-PCAARRD • DOST-PCIEERD/ICIEERD • DOST-FNRI • LGU La Union • LGU San Carlos • LGU Bayambang • LGU Laoac • Rizal Technological College • Benguet State University • North Luzon Philippines State College • Chamber of Commerce La Union • 1Food Corporation • Nutridense • Chanos Food Company/Sta. Barbara Gourmet





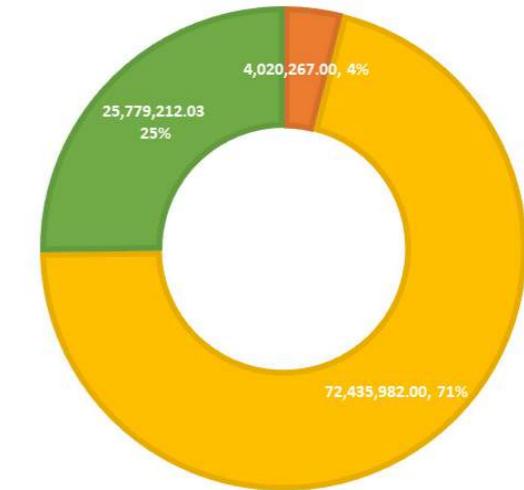
OUTCOME

07 EFFECTIVE STI  
GOVERNANCE  
ACHIEVED

## FINANCIAL RESOURCES

For CY 2020, DOST-1 received an allotment from General Appropriations amounting to Php 102,235,461.03 broken into:

PARTICULARS	ALLOTMENT RECEIVED	PERCENTAGE
Personal Services (PS)	Php 25,779,212.03	25%
Maintenance & Other Operating Expenses` (MOOE)	Php 72,435,982.00	71%
Capital Outlay (CO)	Php 4,020,267.00	4%



With Budget Utilization rate of 99.89% and Cash Utilization rate of 96.88%. The unobligated allotment was carried over the following year while the unused cash were reverted to Bureau of Treasury.

The allotment received for MOOE from General Appropriations includes the following projects:

PROJECT	SOURCE	APPROVED BUDGET
Enhancing OneLab for Global Competitiveness	DOST-GIA	5,105,162.00
DOST Regional Offices' Information System Harmonization Project and ICT Equipment under 2020 Mithin Program	DOST-GIA	4,515,903.00
Strengthening DOST Regional Metrology Laboratory Services - Phase II	DOST-GIA	404,004.00
Support to the issuance of fairness opinion report for Technology Transfer Activities of DOST-Generated Technologies through DOST Regional Offices (ROs) as Receiving Offices and FOB Secretariat	DOST-GIA	451,716.40
DOST Halal S&T Program Project 7: Training needs assessment and development and Deployment of Training Modules on Halal	DOST-GIA	308,229.60

The agency also received funds from other resources under Trust Accounts:

PROJECT	SOURCE	APPROVED BUDGET
Scholarship	DOST-SEI	43,553,819.80
Support to Ilocos Consortium for Industry Energy and Emerging Technology Research and Development (ICIEERD) R&D Program	DOST-PCIEERD	590,000.00
Roll-out of 1000 RxBox Telemedicine Device in Selected Rural Health Centers in the Philippines	DOST IV-A	1,202,443.60
Celebration of Regional Science and Technology Week and Technology Promotions in Region 1	DOST-TAPI	200,000.00

# INTERNAL PROCESSES

DOST 1 maintained the Management Information System Unit which was then renamed as Information Technology Services Management (ITSM) Unit.

The unit provides ICT services and support to the operations of DOST 1. The ITSM Unit of DOST 1 handles hardware and software management like the

- ① IT Equipment preventive maintenance
- ② Development and Deployment of Information Systems
- ③ Data Management and Security
- ④ Implementation of ICT Policies

DOST 1 availed applications that is used for Email Management, Cloud Data Storage and Video Conferencing. The DOST 1 was able to create its Official Email addresses. This resulted to full control of the management of the email addresses (e.g. activation and deactivation of email accounts) of the staff and different units of the office.

Two (2) from these three (3) systems that were developed were intended to help the Covid-19 Contact Tracers in Region 1. These systems are DOST 1's effort to help combat the Covid19-Pandemic and limit the spread of the virus. The COVID-19 Detection and Reporting of Exposed Individuals Through Efficient Contact Tracing or CovidDETECT (CovidDETECT) is designed to record and manage information of Covid19 Close Contacts.

On the other hand, the FastPass is developed to track the mobility of individuals. The FastPass served as a detection tool for Covid19 exposed individuals. The system is directly integrated with the CovidDETECT. Having these integration, it provides prevention and/or mitigation on the spread of the Covid19 by limiting the exposed individuals' mobility and access to the establishments.

Along the development of these new systems, DOST 1 maintains a total of 20 information systems to support the different process of the office. These information systems resulted to about 90% total reduction on the processes cycle time.

**Below are the information systems and applications being maintained by DOST 1:**

- ✓ Document Tracking System (DTS)
- ✓ Information & Monitoring of Projects, Services and S&T Interventions (IMPRESSION)
- ✓ Scholarships Management Information System (SMIS)
- ✓ eNGAS
- ✓ eBudget
- ✓ Unified Laboratory Management System (ULIMS)
- ✓ Laboratory Test Scheduler
- ✓ Procurement Monitoring
- ✓ Hazard Notification Dissemination and Awareness (HaNDA)
- ✓ Human Resource Management Information System (HRMIS)
- ✓ S&T Academic and Research Based Openly-Operated Kiosk (STARBOOKS) DOST 1 Website
- ✓ One Expert
- ✓ RSTW Events Registration System
- ✓ Tech Support Tech Support
- ✓ Events Registration for RICE
- ✓ Events Mission Control
- ✓ CovidDETECT
- ✓ FastPass
- ✓ Collection and Deposits Reporting System

One of the highlights of accomplishment of the DOST 1 ITSM Unit in CY 2020 is the adoption of the Department of Education – Caloocan City Division to the DOST 1 in-house developed Document Tracking System (DTS). The DOST 1 and DepEd-Calоocan City Division inked an agreement on the use of the DTS. The deployment of the DTS on their office is done remotely. Also, the Provincial Environment and Natural Resources – La Union sent

intent on adopting the system. Orientation for the target users of the system was conducted to provide detailed information on how the DTS works. The DTS is an information system used in routing and tracking relevant incoming and outgoing documents.

In summary, below are the accomplishments of the ITSM in 2020:

INDICATORS	20 TARGET	TOTAL	% ACCOMPLISHMENT
Number of Work-Process Innovations Implemented	5	6	120%
Number of Information Systems Developed	3	3	100%
Number of Information Systems Implemented:			
Established (In-House or Outsourced)	3	3	100%
Number of Information Systems Maintained	17	20	118%
% Reduction in Cycle Time	85	90.8	107%

Aside from the Work-Process Innovations and systems developed and maintained, the ITSM unit was able to maintain 100% availability of ICT Equipment and 99.98% availability of network connections. This is the impact of the scheduled preventive maintenance of the ICT Equipment. Likewise, the unit provides technical assistance and support to the employees. The unit garnered 100% of at least Very Satisfactory Rating from the internal customers (DOST 1 Employees).

The services of the ITSM Unit were also extended to other agencies that need technical assistance. During the peak of the Covid-19 Pandemic in 2020, the unit provided technical assistance on network troubleshooting in the Office of Civil Defense Region 1.

Furthermore, the ITSM Unit also ensured that the DOST

1 website contents are updated. In 2020, the unit was able to post 37 articles and updated 9 Web Pages in the DOST 1 Website. Likewise, the ITSM continues to deliver multimedia development to support the S&T Promotion's activities.

Through the Medium-Term Information and Communications Technology (MITHI) Program, a government-initiated program for ICT, through the Harmonization of Information Systems project, DOST 1 was able to acquire replacement and new ICT equipment and softwares. This program helped DOST 1 to improve and upgrade its productivity tools and provided solutions for establishing servers to cater the available information systems of the office.



# QUALITY MANAGEMENT SYSTEM (QMS)

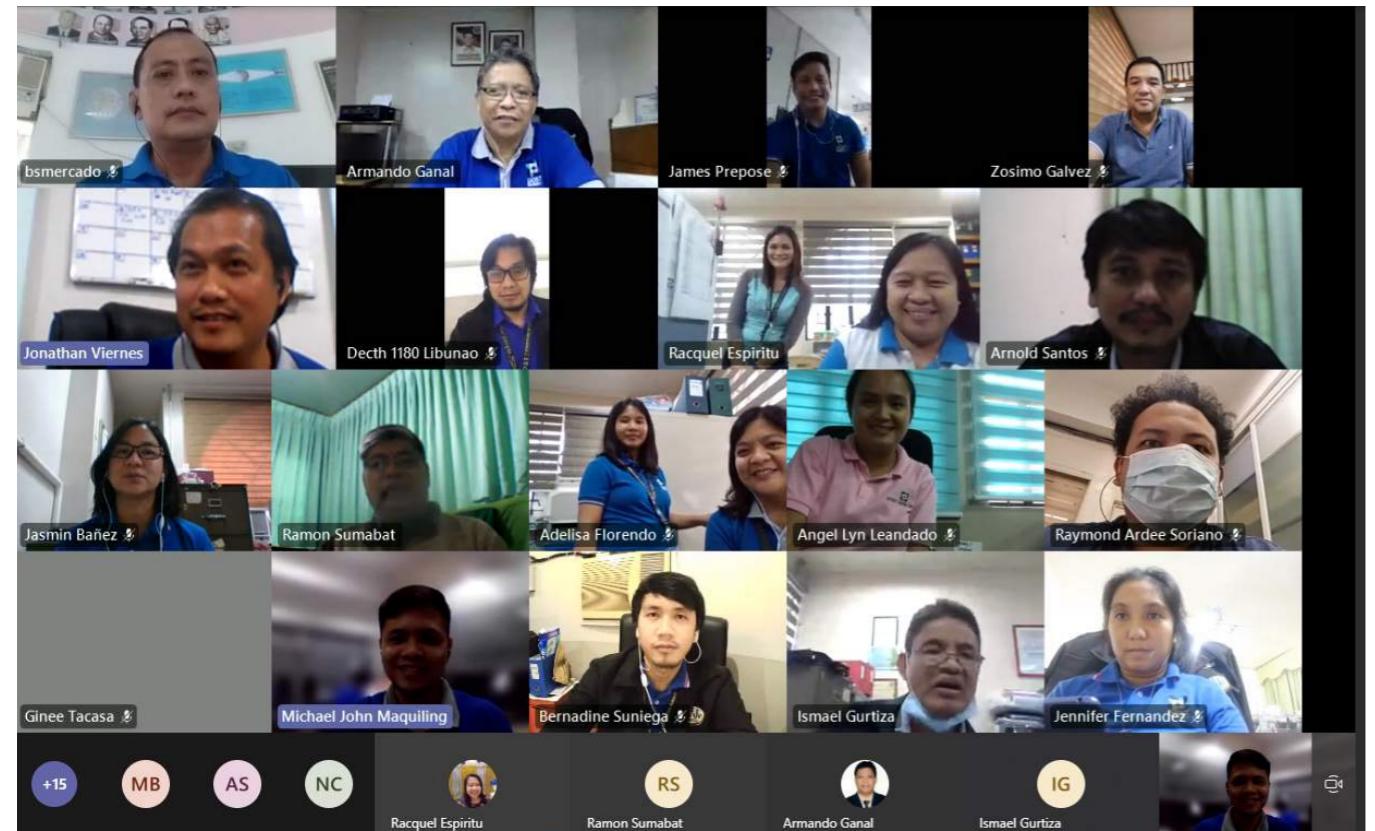
Delivery of quality products and services and dedication to continuous improvement of its quality management system (QMS) have always been the commitment of DOST-1 to its customers, whatever the circumstances.

The year 2020 was a very challenging year to many, with the uncertainties brought about by the COVID-19 pandemic. The health crisis had affected so many lives and had limited global economic activities.

But despite these limitations, DOST-1 rose to the challenge of continuously provide quality science and technology interventions amidst the pandemic. Its implementation of ISO 9001:2015 AND iso/iec 17025:2017 QMS, which deal with risk-based thinking process approach in implementing the organization's programs and projects towards the fulfillment of the demand of quality products and services to its customers, helped the agency to quickly adapt to the new normal. Reforms and innovations were implemented to ensure continuous delivery of services without any compromises.

For the CY 2020, DOST-1 was able to monitor the implementation and effectiveness of its ISO 9001:2015 QMS through conduct of remote/virtual audits and management review, as summarized in the table below:

ACTIVITY	AUDITING BODY	CASE
Internal Quality Audit	DOST-1	July 2020
Management Review		August 11, 2020
1 <sup>st</sup> Surveillance Remote Audit	CIPI	June 22-23, 2020
Reassessment Audit	CIPI	December 9-10. 2020



Virtual Management Review conducted last August 11, 2020 with DOST-1 Regional Director, Dr. Armando Q. Ganal presiding.



1<sup>st</sup> Surveillance Remote Audit conducted on June 22-23, 2020, with Mr. Jose Amata of CIPI as Lead Auditor.



Reassessment Audit conducted on December 9 - 10, 2021, with Ms. Doreen Dahilig of CIPI as Lead Auditor.

# GENDER AND DEVELOPMENT (GAD)



## DOST 1'S EFFORTS IN GENDER MAINSTREAMING

The Department of Science and Technology Regional Office No. 1 (DOST 1) shows buoyancy on Gender and Development (GAD) through persistent implementation of gender-responsive programs, projects, and activities (PPAs) in the region.

GAD Program is formulated to make Philippine governance gender-responsive through RA 7192 and RA 9710 or the "Women in Development and

Nation Building Act" and "Magna Carta of Women" respectively. The program recognizes the role of women in nation building, ensures the fundamental equality before the law of women and men, and emphasizes gender sensitivity.

Henceforth, DOST 1 is equipped towards sustaining gender-awareness and gender mainstreaming for both internal and external clientele.

### Strengthening of the GAD Focal Point System

The program is, likewise, in response to Philippine Commission on Women (PCW) Memorandum Circular 2011 – 01 on "creation, strengthening and institutionalization of the GAD Focal Point System".

One of the activities done by DOST 1 in pursuant to

Section 36 of RA. 9710 and PCW MC No. 2011-01 is the Reconstitution of the GAD Focal Point System (GFPS). The GFPS is a mechanism established to ensure and advocate for, guide, coordinate, and monitor the development, implementation, review and updating of GAD plans and GAD-related PPAs.

GFPS Chair	Dr. Armando Q. Ganal, Regional Director
<b>TECHNICAL WORKING GROUP (TWG)</b>	
Head	Ms. Racquel M. Espiritu, Supervising Research Specialist, ARD for Technical Services and Planning Officer
Members	Atty. Jasmin C. Bañez, Chief Administrative Officer Dr. Ismael D. Gurtiza, Chief Science Research Specialist and ARD for Field Operations Mr. Zosimo C. Galvez, Administrative Officer V, Budget Ms. Manilyn L. Agra, Accountant III Ms. Angel Lyn O. Leandado, Administrative Assistant III Mr. Jonathan M. Viernes, Senior Science Research Specialist, Provincial S&T Center - Ilocos Norte Mr. Ramon S. Sumabat, Senior Science Research Specialist, Provincial S&T Center - Ilocos Sur Engr. Edison M. Acosta, Officer-in-Charge, Provincial S&T Center La Union Engr. Arnold C. Santos, Senior Science Research Specialist, Provincial S&T Center Pangasinan Ms. Jennifer C. Fernandez, Officer-in-Charge, Provincial S&T Center Pangasinan Satellite Office
Secretariat	Ms. Maureen Heidi L. Perez, Project Assistant II
PSTC Alternates	Ms. Vanessa T. Tawali, Project Assistant I - Provincial S&T Center - Ilocos Norte Ms. Laurine R. Sales, Project Assistant II - Provincial S&T Center - Ilocos Sur Ms. Princess P. Abuan, Project Assistant II - Provincial S&T Center - La Union Ms. Bernalyn P. Martinez, Project Assistant II - Provincial S&T Center - Pangasinan Ms. Bernalyn P. Martinez, Project Assistant II - Provincial S&T Center - Pangasinan Ms. Angelyn B. Cimatu, Project Assistant II - Provincial S&T Center Pangasinan Satellite Office

## 2020 NATIONAL WOMEN'S MONTH CELEBRATION: WE MAKE CHANGE WORK FOR WOMEN

In accordance to the National Women's Month Celebration (NWMC) every March, the Proclamation No. 227 s. 1988 "providing for the observance of the month of March as Women's Role in History Month" as one of the legal basis and spearheaded by the Philippine Commission on Women, DOST 1 will take part in the 2020 Women's Month Celebration with the theme, "WE Make Change Work for Women!". The celebration pays tribute to all women leaders who passionately led and continue to advance women's advocacies.

The 2020 celebration aims to inform and engage



DOST 1 joins the NWMC led by RAGE at DMMMSU MLUC Covered Court last March 6, 2020.



DOST 1 participates in the Serbisyo Para Kay Juan at Juana Trade Fair at DMMMSU-MLUC covered court to showcase products of DOST-assisted firms. In photos (from left to right) Mr. Enrique G. Fernandez, Ms. Gael Myca A. Abella, and Ms. Maureen Heidi L. Perez

DOST 1 hosts the Regional Gender and Development Committee (RGADC) meeting for the conduct of 1st RGADC convention in connection to the 2020 National Women's Month Celebration, held at DOST 1 Audio Visual Room last March 13, 2020. In photo were the representatives of various National Government Agencies in the committee.



### Took part in the eradication of violence against women: 2020 18-day Campaign to End VAW

DOST 1 actively participated in the observance of the 18-day Campaign to End Violence Against Women (VAW) held last November 25 – December 12, 2020.

As enshrined in the 1987 Constitution, the 18-Day Campaign to End VAW supports the Philippine government's goal of protecting the human rights

of women and girls by upholding its commitment to address all forms of gender-based violence.

The 2020 Campaign comes at a time when the country is reeling from the COVID-19 pandemic that aggravated underlying gender issues and affected marginalized and vulnerable sectors.





In support of the activity, the staff of the regional office promoted awareness by wearing orange shirts last December 7, 2020.

The GFPS of DOST 1 organized Webinars on RA 9262 or the "Anti-Violence against Women Act", RA 11313 or the "Safe Spaces Act", RA 7877 or the Anti-Sexual Harassment Act", RA 9208 or the Anti-Trafficking in Persons Act", and RA 9231 or the "Special Protection of Children Against Child Abuse, Exploitation and Discrimination Act".

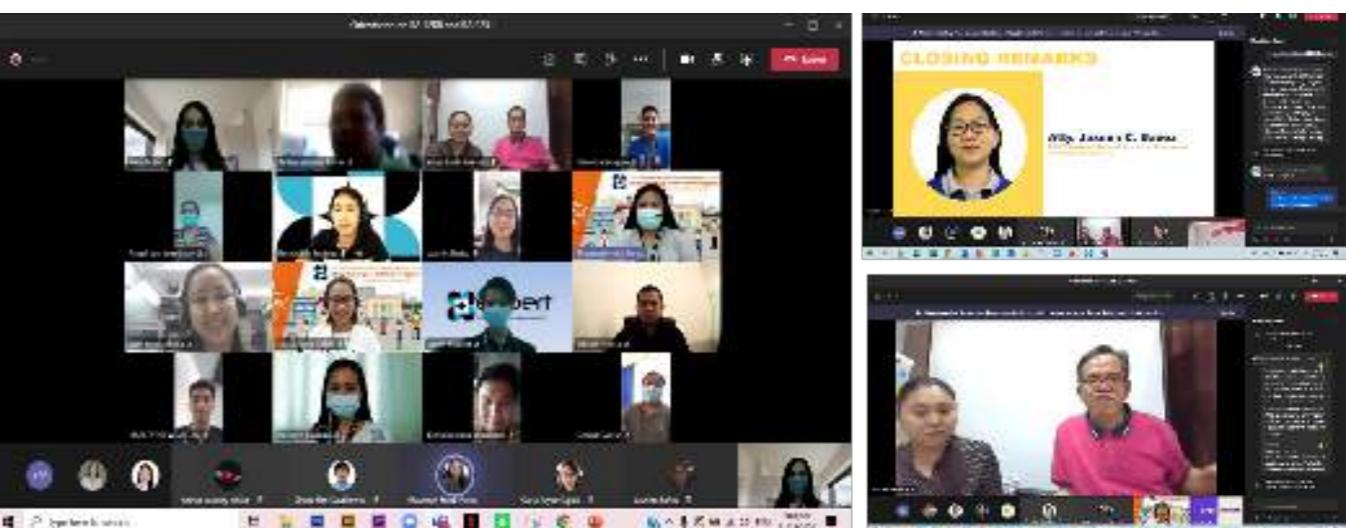
These activities aim to promote awareness of the forms of violence women, girls, as well as men, experiences; and to provide information on laws for their protection and promote the strengthening of prevention and response system on VAW.

Orientation on RA 7877 held last December 7, 2020, 1:30PM via MS Teams platform.

Orientation on RA 9262 and RA 11313 held last December 1, 2020, 1:30PM via MS Teams platform.



Orientation on RA 7877 held last December 7, 2020, 1:30PM via MS Teams platform.



## Establishment of Lactation Station

Pursuant to Republic Act No. 10028 or the "Expanded Breastfeeding Promotion Act of 2009", "The State shall likewise protect working women by providing safe and healthful working conditions, taking into account their maternal functions, and such facilities and opportunities that will enhance their welfare and enable them to realize their full potential in the service of the nation."

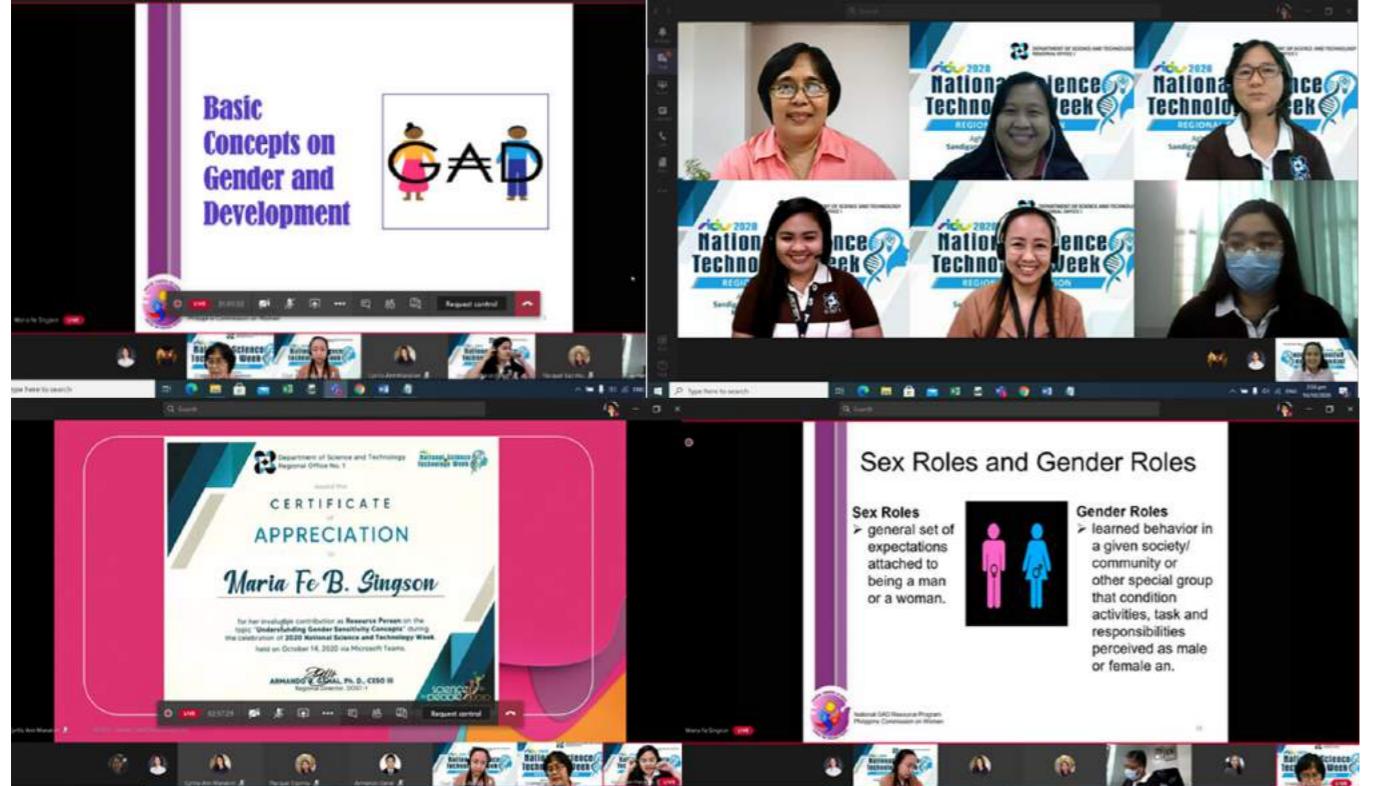
Lactation Station aims to instill recognition and support and ensure access to comprehensive, current and culturally appropriate lactation care and services for all women, children and families, including support for breastfeeding mothers in the work force. Also, to promote and encourage breastfeeding mothers to continue expressing milk for their infant/young child.



# GAD WEBINARS CONDUCTED AND CAPACITY BUILDINGS ATTENDED BY GFPS MEMBERS

## 2020 National Science and Technology Week in the Region

To promote and advocate gender and development concepts to both internal and external clients and prepare the participants their tasks of fostering gender-related activities and awareness in the workplace, GFPS organized various webinars in connection to the 2020 National Science and Technology Week. Also, to provide the participants the growing awareness on GAD concepts and to succeed in attaining gender equality and a gender responsive working environment.



Understanding Gender Sensitivity, October 14, 2020 via MS Teams Platform. The Resource Person of the activity was is Ms. Maria Fe B. Singson and participated by 103 individuals with 4.53 satisfaction rating.



Benchmarking of Best GAD Practices, October 22, 2020. The activity was participated by 42 DOST I staff with 4.55 satisfaction rating. The Resource Persons were Ms. Maria Rowena C. Madarang, ARD for FAS of DOST CAR, and Ms. M.E. Myrel Siason, Project Assistant III of DOST VII.



Prostate, Breast and Cervical Problems Awareness Webinar held last December 11, 2020, 1:30PM via MS Teams. The activity was participated by 48 DOST I staff. The Resource Person is Dr. Magnolia I. Brabante, Head of the Non-Communicable Diseases of the Department of Health (DOH) Region 1.

## Participation to the Regional Gender and Development Committee (RGADC)

- Host Meeting last March 13, 2020
- Attendance to Quarterly Regular Meetings
- Harmonized Gender and Development Guidelines (HGDG) Training via video conferencing, November 19-20, 2020
- 18-day Campaign Kick-off Activity via video conferencing, November 26, 2020

## Participation to DOST CO-led activities

- Online GFPS meeting via video conferencing, October 12, 2020
- Participation to DOST CO-led webinars in support to 18-day Campaign to End VAW and 2020 NSTW "Gender Mainstreaming: What is it for DOST?", November 25, 2020
- -2020 GAD Focal Point Assembly (GFPA) via video conferencing, December 16, 2020

## Participation to Regional Inter-Agency Committee Against Trafficking, Child

- Pornography, Violence Against Women and their Children (RIACAT-VAWC-CP)
- Meeting conducted face-to-face, February 12, 2020
- Meeting conducted via video conferencing, December 1, 2020

## Participation to the Region 1 Advocates for Gender Equality (RAGE)

- Participation to 2020 Women's Month Celebration (Kick-off Ceremony), March 6, 2020
- Attendance to Meetings
- Host the Kick-off Ceremony of the 18-day Campaign to End VAW via video conferencing, November 25, 2020
- Participation to the Culminating Program of the 18-day Campaign to End VAW via video conferencing, December 4, 2020

## Participation to Philippine Commission on Women (PCW)-led activities

- Webinar Series
  1. Session Title: Introduction to GAD Concepts and SOGIESC September 01, 2020; 1:00-5:00 pm
  2. Session Title: Fundamentals of Gender Mainstreaming: Review of Policy Imperatives on GAD and GM Concepts September 10, 2020; 1:00-5:00 pm
  3. Session Title: Gender Analysis: Tools and Praxis September 29, 2020; 1:00-5:00 pm
  4. Session Title: Beyond Attribution: Use of the HGDG to mainstream GAD elements in the Project Development Cycle (thru FB Live) October 13, 2020; 1:00-5:00 pm
  5. Session Title: GAD Planning and Budgeting: From Preparation to GAD Funds Audit (thru FB Live) October 15, 2020; 1:00-5:00 pm
  6. Session Title: The GAD Agenda: Formulating the GAD Strategic Framework and GAD Strategic Plan (thru FB Live) November 19, 2020; 1:00-5:00 pm



## HUMAN RESOURCES

The Human Resource team is comprised of Atty. Jasmin C. Bañez, Chief Administrative Officer and Human Resource Management Office Designate, and Enrique G. Fernandez Jr., overall HR Staff, with Ms. Maureen Heidi L. Perez, providing additional HR Support.

Being a service-oriented team, the HRMO- FAS continues to provide expert consultation and support to foster a respectful environment that inspires integrity and excellence within DOST 1 organization and among its permanent and Contract of Service staff and employees.

Human Resources support the agency in maximizing employee performance and productivity through policy development, payroll administration, compensation and benefits administration, drug testing, recruitment, workforce planning, learning and development, performance management, and rewards and recognition to ensure compliance to regulatory and statutory requirements.

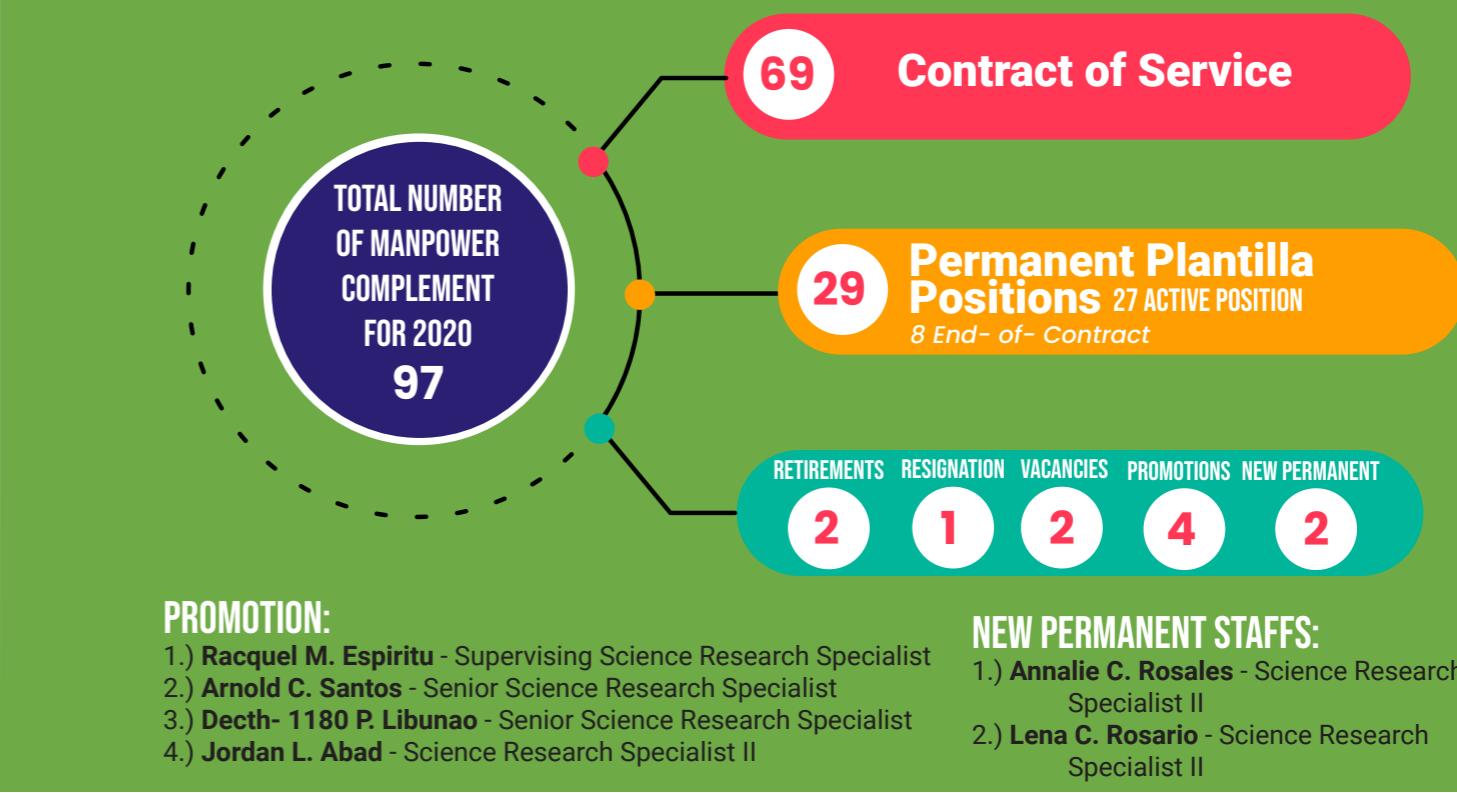
The HRMO- FAS provides support to employees

### Recruitment, Selection and Promotion

The Human Resource Management Office assists applicants with all phases of the employment process.

Thru the Human Resource Merit Promotion and Selection Board (HRMPSB), guided by the Equal Employment Opportunity Policy (EEOP) and following the internal guidelines on Recruitment, Selection, and Promotion (RSP) job applicants are properly screened and evaluated to ensure that the employees are selected based on merit and fitness. HRMPSB serves as assistorial body the Regional Director.

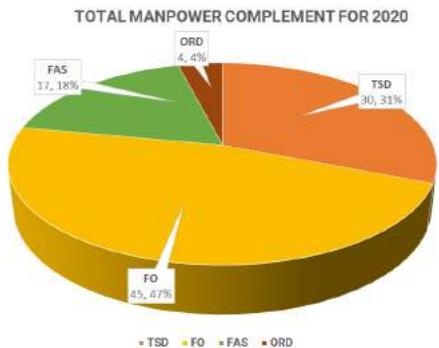
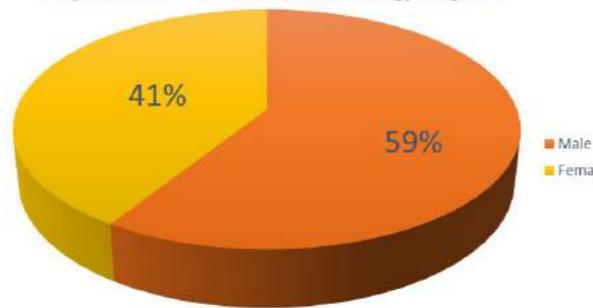
**ACCOMPLISHMENT**  
84%



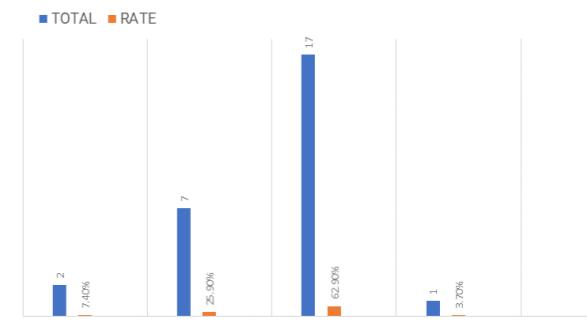
### DEMOGRAPHICS:

The total manpower complement for 2020 was distributed in the Technical Services Division (TSD) including Regional Standards and Testing Laboratory (RSTL) and Regional Metrology Laboratory (RML), Field Operations (FO) which include Provincial S&T Offices, SETUP, and CEST, Finance and Administrative Services (FAS) Division including General Services, and the Office of the Regional Director.

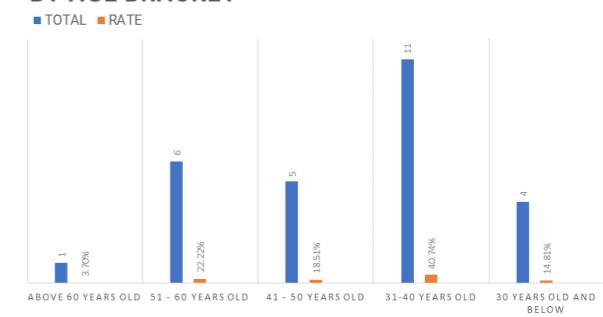
Department of Science & Technology Region 1



BY EDUCATIONAL ATTAINMENT



BY AGE BRACKET



# AWARDS

## PRIME - HRM JOURNEY HIGHLIGHTS

The Program to Institutionalize Meritocracy and Excellence in Human Resource Management (PRIME- HRM) integrates and enhances the Personnel Management Assessment and Assistance Program (PMAAP) and the CSC Agency Accreditation Program (CSCAAP). It is a mechanism that empowers government agencies by developing their human resource management competencies, systems, and practices toward HR excellence.

PRIME- HRM entails greater engagement not just of the human resource management officer (HRMO) but also of the officials and the rank-and-file employees of the agency.

After successfully complying with the requirements on the four (4) core human Resource Management systems, namely Recruitment, Selection, and Placement (RSP), Learning and Development (L&D), Performance Management (PM), and Rewards and Recognition (R&R), the Department of Science and Technology – Region 1 (DOST- R01) was conferred with a Certificate of Recognition on each of the 4 HR Systems by the Civil Service Commission Regional Office 1 (CSC- R01).

The awarding activity was conducted on October 26, 2020 during the flag-raising ceremony at the DOST R01. The CSC- R01 delegation was composed of Dir. Hedy Jose B. Lardizabal, Dir. III Josephine R. Altura and Walferdo C. Laudencia, Jr. In behalf of the DOST- R01, Dir. Armando Q. Ganal, and the members of the various HR Committees received the four (4) Certificates of Recognition.

With this achievement, DOST- R01 has qualified for the possible conferment of the PRIME HRM Bronze Award upon final validation and deliberation of the Human Resource Policies and Systems Office (HRPSO), CSC Central Office.



# REWARDS AND RECOGNITION

The Department of Science and Technology Region 1 (DOST 1), thru its Program on Awards and Incentives for Service Excellence (PRAISE) Committee, recognized its employees for their superior accomplishments, personal efforts, and other extraordinary services in the public services during the CY 2020 Year-End and General Staff Meeting conducted last December 18, 2020.

### OUTSTANDING EMPLOYEE AWARD:

#### PERMANENT

Finance and Administrative Services  
NIDA P. CLAVERON  
Technical Services  
MICHAEL JOHN C. MAQUILING  
DECTH-1180 P. LIBUNAO  
Field Operations  
EDISON M. ACOSTA

Finance and Administrative Services  
Maureen Heidi L. Perez  
Technical Services  
Princess P. Abuan  
Field Operations  
Venus P. Andaya

### INNOVATION AWARD

Document Tracking System (DTS)  
RYAN JAN R. BORJA

Covid19 Detection and Reporting of Exposed Individuals through Efficient Contact Training (CovidDETECT) and FastPass Applications

#### INFORMATION TECHNOLOGY AND SYSTEMS MANAGEMENT UNIT

Regional Metrology Laboratory Dashboard – MARLON R. ORPILLA  
"Agyamanak DOST: Mga Kwentong Tagumpay ng DOST Iskolars ng Region 1 and Kamustahan with DOST-SEI Scholars in Region 1 - SCHOLARSHIP UNIT

Food Safety E-Series: How Safe is your Food and Ensuring Food Safety Towards the New Normal

#### REGIONAL STANDARDS AND TESTING LABORATORY

#### Best SETUP Project Presenter of the Year

PRINCESS P. ABUAN

#### MacGyver Award

RAYMOND ARDEE F. SORIANO

#### EXEMPLARY SELFLESS SPIRIT AWARD

JOSEPH G. NOCES  
HILARIO B. PAJIMOLA, JR.  
RICKY JOHN M. SALAZAR

#### BEST UTILITY WORKER AWARD

Regional Office – JOSEPH G. NOCES  
PSTC Ilocos Norte – KENNETH S. MANGASEP  
PSTC Ilocos Sur – MARCELO F. PINEDA  
PSTC La Union – ARNEL D. ARIZ  
PSTC Pangasinan – JOHN RED D. SAN AGUSTIN

#### BAYANIHAN TO HEAL AS ONE AWARD

Finance and Administrative Services Division  
Office of the Regional Director  
Technical Services Division  
Field Operations – Regional Office Staff  
PSTC – Ilocos Norte  
PSTC – Ilocos Sur  
PSTC – La Union  
PSTC – Pangasinan  
PSTC – Pangasinan Satellite Office

#### CERTIFICATE OF RECOGNITION AS THE BEST THESIS PRESENTER

JORDAN L. ABAD

#### CAREER AND SELF-DEVELOPMENT AWARD

GERALD Q. GABRIEL

# LEADERSHIP AND DEVELOPMENT

Leadership and professional growth through Learning and Development are vital key factors to ensure that employees in the government service are equipped with skills and knowledge critical to the development of their duties and responsibilities and to cope with the challenges in today's century.

Effective management of public service requires in-depth and high level of leadership and managerial capabilities which can be acquired and developed through learning and development.

In response to the core values emanated from the organization: Innovation, Excellence, Leadership, Integrity, Teamwork, and Empowerment (I-ELITE), Learning and Development shall address the competency requirement essential to a government employee's responsiveness, accountability, and innovativeness towards public service.

The below indicates the list of training programs the staff has attended this year:

## TRAININGS, SEMINARS, CONFERENCES ATTENDED BY DOST-1 STAFF IN CY 2020

NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
<b>OFFICE OF THE REGIONAL DIRECTOR</b>				
<b>GANAL, Armando Q.</b> Regional Director	Webinar on Writing Effective Policy Briefs	Online Training via Zoom	September 28-30, 2020	Ilocos Agriculture, Aquatic & natural Resources Research & Development Consortium
	Prostate, Breast, and Cervical Problems Awareness Webinar	Online Seminar via Microsoft Teams	December 15, 2020	DOST 1-GAD
	Orientation on RA 9208 (Anti-Trafficking in Persons) and RA 9231 (Special Protection of Children Against Child Abuse, Exploitation, and Discrimination Act)	Online Seminar via Microsoft Teams	December 11, 2020	DOST 1
	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Online Seminar via Microsoft Teams	December 7, 2020	DOST 1-GAD
	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Online Seminar via Microsoft Teams	December 1, 2020	DOST 1-GAD
	Gender Issues and Impacts of Covid-19 to MSMEs 2020 National Science and Technology Week	Online Seminar via Microsoft Teams	October 26, 2020	DOST 1
	Online Benchmarking on Best GAD Practices	Online Seminar via Microsoft Teams	October 22, 2020	DOST 1
	Capacity Building and Workshop on News Writing	Microsoft Teams	October 1, 2020	DOST 1
<b>LEANDADO, Angel Lyn O.</b> Administrative Assistant III	Gender Analysis: Tools and Praxis Webinar	Webinar by Philippine Commission on Women	September 29, 2020	Philippine Commission on Women
	Phil. Information Agency R1 and Association of Regional Government Information Officers Training Skills Training on Online Communication Strategies at Work in the New Normal: "IN and Online Tech".	City of San Fernando, Province of La Union	September 24, 2020	PIA Region 1 / ARGIO1
	Building Digital Media using Graphic Design in Google Slides	Online Course	September 16, 2020	COURSERA
	Investment Risk Managemente	Online Course	October 7, 2020	COURSERA
	Introduction to Project Management	Online Course	September 16, 2020	COURSERA
	Grammar and Punctuations	Online Course	September 17, 2020	COURSERA
	Data Privacy Awareness and Compliance Workshop	Virtual Workshop by Yisrael Solutions and Training Center	August 14, 2020	DOST 1

NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
<b>PEREZ, Maureen Heidi L.</b> Project Assistant I*	Prostate, Breast, and Cervical Problems Awareness Webinar	Via Microsoft Teams	December 15, 2020	DOST 1-GAD
	Writing Effective Policy Briefs	Webinar	December 14-15, 2020	DOST 1/ NEDA RO 1
	Orientation on RA 9208 (Anti-Trafficking in Persons Act) and RA 9231 (Special Protection for Children Against Child Abuse, Exploitation and Discrimination Act	Via Microsoft Teams	December 11, 2020	DOST 1-GAD
	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Via Microsoft Teams	December 7, 2020	DOST 1-GAD
	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1-GAD
	2020 Economic and Financial Literacy Week Webinar	Webinar	November 26, 2020	NEDA RO 1
	Gender Mainstreaming: What's in it for DOST?	Online Conferencing	November 25, 2020	DOST
	Online Training on Harmonized Gender and Development Guidelines for Project Development	Online Training	November 20, 2020	NEDA RO 1
	Seminar on Textured Vegetable Protein (TVP) Enriched Meat Processing	Via Microsoft Teams	November 10, 2020	DOST 1
	Gender Issues and Impacts of Covid-19 to MSMEs	Via Microsoft Teams	October 26, 2020	DOST 1
	W-GDP Webinar Series on Women's Economic Empowerment, No.3: Making Online Business Work for Women MSMEs	Via Microsoft Teams	October 23, 2020	UPPAF/ PCW
	Virtual Forum on Carageenan Plant Growth Promoter Technology	City of San Fernando, Province of La Union	September 24, 2020	PIA Region 1/ ARGIO1
	Online Benchmarking on Best GAD Practices	Via Microsoft Teams	October 22, 2020	DOST 1
	DOST TAPI GAD Webinar Session 1: Gender Sensitivity Orientation	Webinar	October 22, 2020	DOST TAPI
	Understanding Gender Sensitivity Concepts	ia Microsoft Teams	October 14, 2020	DOST 1
	Food Safety and Good Manufacturing Practices Awareness	Online Seminar	October 12, 2020	Region 1 Inter-Agency Food Safety Team
	5S of Good Housekeeping	Online Seminar	October 12, 2020	Region 1 Inter-Agency Food Safety Team
	Capacity Building and News Writing Workshop	Via Microsoft Teams	October 1, 2020	DOST 1
	Gender Analysis: Tools and Praxis Webinar	Online Session	September 29, 2020	Phil. Women Commission
	Fundamentals of Gender Mainstreaming: Review of Policy Imperatives on GAD and GM Concepts Webinar	Online Session	September 10, 2020	Phil. Women Commission
	Introduction to GAD Concepts and SOGI-ESC Webinar	Online Session	September 1, 2020	Phil. Women Commission
	Orientation on Secretariat Support Services	Video Conferencing	September 1, 2020	DOST 1
	RDC Secretariat Services Training and Team Building	OveMar Resort Hotel, Sta. Catalina, Ilocos Sur	January 31, 2020	RDC 1

\* Contract of Service

NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
<b>TACASA, Ginee R.</b> Project Assistant I*	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1-GAD
	Prostate, Breast, and Cervical Problems Awareness Webinar	Via Microsoft Teams	December 15, 2020	DOST 1-GAD
	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Via Microsoft Teams	December 7, 2020	DOST 1-GAD
	Orientation on RA 9208 (Anti-Trafficking in Persons) and RA 9231 (Special Protection of Children Against Child Abuse, Exploitation, and Discrimination Act)	Via Microsoft Teams	December 11, 2020	DOST 1-GAD
	Virtual Speakers Bureau	via Zoom Meeting	November 5, 2020	NAST PHL/ DOST 1
	Training on Aquaponics Technology for Urban Communities	Via Microsoft Teams	October 30, 2020	DOST 1
	COVID-19: Where We Are and Where We Want To Be	Webinar Series	May 27, 2020	NAST/ DOST 2
<b>ACOON, Jara G.</b> Project Assistant I *	Prostate, Breast, and Cervical Problems Awareness Webinar	Via Microsoft Teams	December 15, 2020	DOST 1-GAD
	Orientation on RA 9208 (Anti-Trafficking in Persons) and RA 9231 (Special Protection of Children Against Child Abuse, Exploitation, and Discrimination Act)	Via Microsoft Teams	December 11, 2020	DOST 1-GAD
	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Via Microsoft Teams	December 7, 2020	DOST 1-GAD
	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1-GAD
	Online Benchmarking on BEST GAD Practices	Via Microsoft Teams	October 22, 2020	DOST 1
	Understanding Gender Sensitivity Concepts	Via Microsoft Teams	October 14, 2020	DOST 1
	Food Safety and Good Manufacturing Practices Awareness	Via Microsoft Teams	October 12, 2020	Region 1 Inter-agency Food Safety Team
	Skills Training on Online Communication Strategies at Work in New Normal: In and Online Tech	Via Microsoft Teams	September 24, 2020	PIA Region 1/ ARGIO1
	Orientation on Secretariat Support Services	Via Microsoft Teams	September 1, 2020	DOST 1
	Islamic Finance Assistance for Philippines MSMEs	Webinar	July 23, 2020	DTI RO1
	HALAL Awareness Webinar	Webinar	June 30, 2020	DOST XI
	State of the Global HALAL Ecosystem Amid COVID- 19	Webinar	May 26, 2020	DTI RO 1
<b>MAQUILING, Michael John</b> Science Research Specialist II	Prostate, Breast, and Cervical Problems Awareness Webinar	Via Microsoft Teams	December 15, 2020	DOST 1-GAD
	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Via Microsoft Teams	December 7, 2020	DOST 1-GAD
	Philippine Government Electronic Procurement System (PhilGEPS) Online Training for Buyers	Online Training	October 5-6, 2020	PhilGEPS/ E- Blackboards Learning and Solutions
	Orientation on Public Service Continuity Plan (PSCP)	Webinar via Video Teleconferencing	September 3-4, 2020	NDRRMC
<b>BORJA, Ryan Jan</b> Science Research Specialist I *	Prostate, Breast, and Cervical Problems Awareness Webinar	Via Microsoft Teams	December 15, 2020	DOST 1-GAD
	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1-GAD

\* Contract of Service

NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
<b>BORJA, Ryan Jan</b> Science Research Specialist I *	AWS Cloud Practitioner Essentials (Second Edition) Introduction to the AWS Cloud	Online Training	October 3, 2020	AWS Training and Certification
	Science Research Specialist I *	Online Training	October 3, 2020	AWS Training and Certification
	Orientation on Secretariat Support Services	Online Orientation via Video Conferencing	September 1, 2020	DOST 1
	Introduction to Data Science and Internet of Things	Webinar	June 26, 2020	ICT Literacy and Competency Development Bureau
	DICT Cybersecurity Awareness Webinar 2020: Data Security and PKI towards the New Normal	Online Training	May 15, 2020	DICT- Cyber Security Bureau
	AWS Technical Essentials Day	Online Training	April 30, 2020	AWS Training and Certification
<b>RIMANDO, Enrique</b> Computer Programmer I *	Prostate, Breast, and Cervical Problems Awareness Webinar	Microsoft Teams, DOST 1	December 15, 2020	DOST 1-GAD
	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Microsoft Teams, DOST 1	December 7, 2020	DOST 1-GAD
	Orientation on RA 9208 (Anti-Trafficking in Persons Act) and RA 9231 (Special Protection for Children Against Child Abuse, Exploitation and Discrimination Act)	Microsoft Teams, DOST 1	December 11, 2020	DOST 1-GAD
	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Microsoft Teams, DOST 1	December 1, 2020	DOST 1-GAD
	Orientation on Secretariat Support Services	Online Orientation via Video Conferencing	September 1, 2020	DOST 1
	Introduction to Data Science and Internet of Things	Webinar	June 26, 2020	ICT Literacy and Competency Development Bureau
<b>ESPIRITU, Racquel M.</b> Planning Officer	2020 DOST Planning Officers Conference	Hotel Jen Manila, Roxas Boulevard, Pasay City	March 7, 2020	DOST
<b>FINANCE AND ADMINISTRATIVE SERVICES</b>				
<b>BAÑEZ, Jasmin C.</b> Chief Administrative Officer	Philippine Government Electronic Procurement System (PhilGEPS) Online Training for Buyers	"Online Training PhilGEPS/ E-Blackboards Learning and Solutions"	October 5-6, 2020	DOST 1
<b>CLAVERON, Nida P.</b> Administrative Officer V	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1-GAD
	Philippine Government Electronic Procurement System (PhilGEPS) Online Training for Buyers	Online Training PhilGEPS/ E-Blackboards Learning and Solutions	October 5-6, 2020	DOST 1
<b>GALVEZ, Arlene F.</b> Administrative Aide IV	Gender Issues and Impacts of Covid-19 to MSMEs 2020 National Science and Technology Week"	Online Seminar via Microsoft Teams	October 26, 2020	DOST 1
<b>GALVEZ, Zosimo C.</b> Administrative Officer V - Budget	Philippine Government Electronic Procurement System (PhilGEPS) Online Training for Buyers	"Online Training PhilGEPS/ E-Blackboards Learning and Solutions"	October 5-6, 2020	DOST 1
<b>LALUAN, Manilyn Z.</b> Accountant III	Gender Issues and Impacts of Covid-19 to MSMEs 2020 National Science and Technology Week	Online Seminar via Microsoft Teams	October 26, 2020	DOST 1
<b>LIM, David III</b> Driver I	"Gender Issues and Impacts of Covid-19 to MSMEs 2020 National Science and Technology Week"	Online Seminar via Microsoft Teams	October 26, 2020	DOST 1

\* Contract of Service

NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
<b>PIMENTEL, Arceli R.</b> Administrative Officer V - Cashier	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1- GAD
	Prostate, Breast and Cervical Problems Awareness Webinar	Via Microsoft Teams	December 15, 2020	DOST 1- GAD
	"Gender Issues and Impacts of Covid-19 to MSMEs 2020 National Science and Technology Week"	Online Seminar via Microsoft Teams	October 26, 2020	DOST 1
<b>BELEN, Mary Ann C.</b> Clerk II *	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1- GAD
	Prostate, Breast, and Cervical Problems Awareness Webinar	Via Microsoft Teams	December 15, 2020	DOST 1- GAD
	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Via Microsoft Teams	December 7, 2020	DOST 1- GAD
	Orientation on RA 9208 (Anti-Trafficking in Persons) and RA 9231 (Special Protection of Children Against Child Abuse, Exploitation, and Discrimination Act)	Via Microsoft Teams	December 11, 2020	DOST 1- GAD
<b>DALAO, John Louie A.</b> Clerk II *	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1- GAD
	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Via Microsoft Teams	December 7, 2020	DOST 1- GAD
<b>FERNANDEZ, Enrique Jr. G.</b> Project Assistant II *	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1- GAD
	Capacity Building and News Writing Workshop	Online Seminar via Microsoft Teams	October 1, 2020	DOST 1
	Gender Issues and Impacts of Covid-19 to MSMEs	Via Microsoft Teams	October 26, 2020	DOST 1
	Orientation on Secretariat Support Services	Online Orientation via Video Conferencing	September 1, 2020	DOST 1
<b>FIELD OPERATIONS</b>				
<b>GURTIZA, Ismael D.</b> Chief Science Research Specialist*	Philippine Government Electronic Procurement System (PhilGEPS) Online Training for Buyers	Online Training	October 5-6, 2020	DOST 1
	Webinar on Writing Effective Policy Briefs	Online Training via Zoom	September 28-30, 2020	Ilocos Agriculture, Aquatic & Natural Resources Research & Development Consortium
<b>ABAD, Jordan L.</b> Science Research Specialist II	Training on the Conduct of Situation Analysis and Technology Scanning Activities for SETUP 2.0 Project 1	Vivere Hotel and Resorts, Alabang, Muntinlupa City	January 20-24, 2020	DOST- NCR
	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1- GAD
<b>DE VERA, John Oliver E.</b> Project Assistant II *	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1- GAD
	Prostate, Breast, and Cervical Problems Awareness Webinar	Via Microsoft Teams	December 15, 2020	DOST 1- GAD
	Orientation on RA 9208 (Anti-Trafficking in Persons) and RA 9231 (Special Protection of Children Against Child Abuse, Exploitation, and Discrimination Act)	Via Microsoft Teams	December 11, 2020	DOST 1- GAD
	2nd National Makapuno Summit	via Zoom Meeting	26-Nov-20	DOST Calabarzon/ Cavite State University
	SETUP Forum: Gearing Up for Industry 4.0	Online Summit via Zoom Meeting	24-Nov-20	
	Capacity Building and News Writing Workshop	Online Workshop via Microsoft Teams	01-Oct-20	DOST 1

\* Contract of Service

NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
<b>DE VERA, John Oliver E.</b> Project Assistant II *	Training Course on Stochastic Frontier Modeling, GIS, Analysis, Land Use Simulation, Estimation of Housing Demand and Financing, and Applications in Urban and Regional Planning	Online Training via Canvass Online Classroom	August 11 - September 02, 2020	DOST- PCIEERD/ PLANADES
	SARAI Eskwela: Smarter Pest Identification Technology (SPIDTECH)	Webinar	05-Aug-20	UP SARAI Project
	SARAI Eskwela: One-Stop SARAI Data Access through SARAI Knowledge Portal	Webinar	29-Jul-20	UP SARAI Project
<b>INDONGSAN, Edith A.</b> Project Assistant II *	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1- GAD
	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Via Microsoft Teams	December 7, 2020	DOST 1- GAD
	Orientation on RA 9208 (Anti-Trafficking in Persons) and RA 9231 (Special Protection of Children Against Child Abuse, Exploitation, and Discrimination Act)	Via Microsoft Teams	December 11, 2020	DOST 1- GAD
	SOLVE Food and Nutrition Insecurity through Open System Agricultural Mechanization	Webinar	June 10, 2020	SEARCA College, Los Baños
	Bamboo Framed Face Shield Technology, Level 1	Webinar	July 30, 2020	DOST FPRDI
	SARAI Eskwela: Smarter Technologies , Practices, and Innovations for Agriculture	Webinar	August 5, 2020	UP SARAI Project
	SARAI Eskwela: Recommended Good Agricultural Practices and Rehabilitation for Banana	Webinar	August 12, 2021	UP SARAI Project
	Oyster Mushroom Cultivation (Pagpapatubo ng Kabuteng Pamaypay)	Webinar	August 20, 2020	DA- CLIA CLD
	Bamboo Framed Face Shield Technology, Level II	Webinar	August 26, 2020	DOST 1
	Orientation on Secretariat Support Services	Webinar	September 1, 2020	DOST 1
	Prostate, Breast, and Cervical Problems Awareness Webinar	Via Microsoft Teams	December 15, 2020	DOST 1-GAD
	Orientation on RA 9208 (Anti-Trafficking in Persons) and RA 9231 (Special Protection of Children Against Child Abuse, Exploitation, and Discrimination Act)	Via Microsoft Teams	December 11, 2020	DOST 1
	Basic Research Ethics Training	DOST Philippine Council for Health Research and Development, Taguig City, Philippines	September 21-22, 2020	Phil. Council for Health Research and Development
	SARAI Eskwela: Coffee Application Harvest Estimator (CAPHE) and Coffee Processing	Virtual/Webinar	August 26, 2020	UP-Project SARAI
	SARAI Eskwela: One-Stop SARAI Data Access through the SARAI Knowledge Portal	"Virtual / Webinar SARAI Project SARAI"	July 29, 2020	UP-Project SARAI
	2020 National MSME Resilience e-Forum: Business Continuity Towards the "New Normal": Supporting Resilience Initiatives through Policy and Finance	Zoom Webinar	July 16, 2020	DTI-BSMED, PCCI, PDRF
	2020 National MSME Resilience e-Forum: Business Continuity Towards the "New Normal": Capacity Building as Key to Ensuring Pandemic Productivity"	Zoom Webinar	July 15, 2020	DTI-BSMED, PCCI, PDRF
	2020 National MSME Resilience e-Forum: Business Continuity Towards the "New Normal": Building Resilient MSMEs through Data and Communications	Zoom Webinar	July 14, 2020	DTI-BSMED, PCCI, PDRF
	Science Scholar Volunterism: The New Normal in Responsive Citizenry	Webinar	June 4, 2020	DOST SEI
	Training on the Conduct of Situation Analysis and Technology Scanning Activities for SETP 2.0 Project 1	Vivere hotel and Resorts, Alabang, Muntinlupa City	January 20-24, 2020	DOST-NCR

\* Contract of Service

NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
<b>BALMADRES, Sheryl Ann H.</b> Project Assistant II *	Prostate, Breast, and Cervical Problems Awareness Webinar	Via Microsoft Teams	December 15, 2020	DOST 1- GAD
	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Via Microsoft Teams	December 7, 2020	DOST 1- GAD
	Orientation on RA 9208 (Anti-Trafficking in Persons) and RA 9231 (Special Protection of Children Against Child Abuse, Exploitation, and Discrimination Act)	Via Microsoft Teams	December 11, 2020	DOST 1- GAD
<b>RONQUILLO, Katrina F.</b> Project Assistant II *	Prostate, Breast, and Cervical Problems Awareness Webinar	Webinar via Microsoft Teams	December 15, 2020	DOST 1- GAD
	Orientation on RA 9208 (Anti-Trafficking in Persons Act) and RA 9231 (Special Protection of Children Against Child Abuse, Exploitation, and Discrimination Act)	Webinar via Microsoft Teams	December 11, 2020	DOST 1
	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Webinar via Microsoft Teams	December 7, 2020	DOST 1- GAD
	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1- GAD
	SARAi e-Skwela: Securing the Future. Youth in Agriculture	Webinar via Zoom	December 2, 2020	UP SARAi Project
	Gender Mainstreaming: What's in it for DOST?	Webinar via Zoom	November 25, 2020	DOST
	SARAi e-Skwela: Nurturing Banana Farmers through SARAi- MinSCAT Extension Activities	Webinar via Zoom	November 25, 2020	UP SARAi Project
	Scientific Conference on Smarter Approaches to Reinvigorate Agriculture as an Industry in the Philippines	Webinar via Zoom	November 19-20, 2020	UP SARAi Project
	SARAi e-Skwela: Enhancing Sugarcane Productivity Using Adaptable Variety in Specific Location and Fertilization Scheme	Webinar via Zoom	November 18, 2020	UP SARAi Project
	Virtual Speakers Bureau	Webinar via Zoom	November 5, 2020	DOST 1
	SARAi e-Skwela: Gabay sa Produksyon ng Soybean	Webinar via Zoom	October 28, 2020	UP SARAi Project
	Online Benchmarking on Best GAD Practices	Webinar via Zoom	October 22, 2020	DOST 1
	SARAi e-Skwela: Gabay sa Pagtataniam at Pangangalaga ng Kamatis	Webinar via Zoom	October 21, 2020	UP SARAi Project
	SARAi e-Skwela: Coconut Good Agricultural Practices	Webinar via Zoom	October 14, 2020	UP SARAi Project
	Webinar Series on Intellectual Property and Technology Transfer: Guidelines in Securing a Fairness Opinion Report	"Webinar Series DOST PCHRD"	October 13, 2020	DOST PCHRD
	Capacity Building and News Writing Workshop	Webinar via Microsoft Teams	October 1, 2020	DOST 1
	SARAi E-skwela: Satellite Remote Sensing: A Smarter approach for Agricultural Monitoring	"Webinar Project SARAi 3.2"	September 30, 2020	UP SARAi Project
	SARAi E-skwela: Use of Weather Information and Drought from Space: Utilizing satellite data to monitor drought in the Philippines	"Webinar Project SARAi 3.2"	September 23, 2020	UP SARAi Project
	Meet Your Scientist: World Bamboo Day 2020	"Webinar DOST NAST"	September 18, 2020	DOST NAST
	SARAi E-skwela: Use of Weather Information and Drone Aerial Images for Crop Monitoring	"Webinar Project SARAi 3.2"	September 16, 2020	UP SARAi Project
	SARAi E-skwela: Soil Properties and Management for Improved Crop Production	"Webinar Project SARAi 3.2"	September 9, 2020	UP SARAi Project
	SARAi E-skwela: Smarter Technologies for Crop Water Management	"Webinar Project SARAi 3.2"	September 2, 2020	UP SARAi Project
	Orientation on Secretariat Support Services	Online Orientation via Video Conferencing	September 1, 2020	DOST 1

NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
<b>ESTABILLO, Renalyn L.</b> Project Assistant II *	2020 National MSME Resilience e-Forum: Business Continuity Towards the "New Normal" with the theme "Building Resilient MSMEs Through Data and Communication"	1st and 2nd Sessions Online via Zoom Webinar	July 14-15, 2020	DTI/ PhilExport/ PDRF
	5S of Good Housekeeping	Online Seminar Region 1 Inter-Agency Food Safety Team	July 22, 2020	DOST RO 1
	Sama-sama ASEAN Webinar Episode 1: Responding to educational disruption and ensuring learning continuity amid Covid-19	Webinar series	August 6, 2020	SAMA-SAMA ASEAN Webinar Series
	Mandatory Labelling Requirements	Online Seminar Region 1 Inter-Agency Food Safety Team	August 13, 2020	DOST RO 1
	FDA Licensing	Online Seminar Region 1 Inter-Agency Food Safety Team	August 19, 2020	DOST RO 1
	Hazard Analysis and Critical Control Point	Online Seminar Region 1 Inter-Agency Food Safety Team	August 20, 2020	DOST RO 1
	SARAi Eskwela: Coffee Application Harvest Estimator (CAPHE) and Coffee Processing	Webinar Project SARAi 3.2	August 26, 2020	UP SARAi Project
	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1- GAD
	Prostate, Breast, and Cervical Problems Awareness Webinar	Via Microsoft Teams	December 15, 2020	DOST 1- GAD
	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Via Microsoft Teams	December 7, 2020	DOST 1- GAD
	Orientation on RA 9208 (Anti-Trafficking in Persons Act) and RA 9231 (Special Protection of Children Against Child Abuse, Exploitation and Discrimination Act)	Via Microsoft Teams	December 11, 2020	DOST 1- GAD
	Understanding Gender Sensitivity Concepts	Via Microsoft Teams	October 14, 2020	DOST 1- GAD
	Capacity Building and Workshop on News Writing	Via Microsoft Teams	October 1, 2020	DOST 1
	SARAi E-skwela: Gabay sa Pagtataniam at Pangangalaga ng Kamatis	Webinar	October 21, 2020	Project Sarai 3.2
	SARAi E-skwela: Gabay sa Produksyon ng Soybean	Webinar	October 28, 2020	Project Sarai 3.2
	SARAi E-skwela: Agricultural Practices for Sugarcane Production	Webinar	November 4, 2020	Project Sarai 3.2
<b>ESTABILLO, Renalyn L.</b> Project Assistant II *	SETUP Stakeholder's Summit: Pivot Entrepreneurship in the New Normal	Via Microsoft Teams	November 11, 2020	DOST 1
	SETUP Stakeholders' Summit: The Art of Restart	Via Microsoft Teams	November 18, 2020	DOST 1
	Virtual Stakeholders' Verification Workshop for SETUP 2.0 Priority Sector- Agriculture, Forestry and Livestock: High Value Vegetable Production and Organic Agriculture	Zoom Webinar	October 22, 2020	DOST 1
<b>ESTABILLO, Renalyn L.</b> Project Assistant II *	NRCP Webinar Series: Initiating Discussions on Ethics in Mathematical Modelling and Data and Role of Science and Technology Innovation in Promoting Health	Via Microsoft Teams	November 9, 2020	DOST 1
	2020 National Inventors' Week Webinar Series: Commercialization of Filipino Inventions for the New Normal	Webinar	November 17, 2020	DOST TAPI

\* Contract of Service

NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
TEL A Tech Business Opportunities: Natural Textile Production TEL A Tech Business Opportunities: Sericulture TEL A Tech Business Opportunities: Natural Dyes MSMEs Virtual Training on Product Development and Food Formulation MSMEs Virtual Training on Awareness on Technology Transfer Protocol SARAI Eskwela: Soil Properties and Management for Improved Crop Production SARAI Eskwela: Use of Weather Information and Drone Aerial Images for Crop Monitoring SARAI Eskwela: Use of Weather Information and Drought from Space: Utilizing satellite data to monitor drought in the Philippines SARAI Eskwela: Satellite Remote Sensing: A Smarter approach for Agricultural Monitoring Regional Fairness Opinion Board Secretariat Training Workshop	Webinar Series	November 24, 2020	PTRI	
	Webinar Series	November 26, 2020	PTRI	
	Webinar Series	November 27, 2020	PTRI	
	"Webinar DOST Caraga"	September 16, 2020	DOST Caraga	
	"Webinar DOST Caraga"	September 22, 2020	DOST Caraga	
	"Webinar Project SARAI 3.2"	September 9, 2020	UP SARAI Project	
	"Webinar Project SARAI 3.2"	September 16, 2020	UP SARAI Project	
	"Webinar Project SARAI 3.2"	September 23, 2020	UP SARAI Project	
	"Webinar Project SARAI 3.2"	September 30, 2020	UP SARAI Project	
	"Webinar DOST NCR"	August 25-28, 2020	DOST NCR	
Online RXBox1000 Onboarding Understanding Gender Sensitivity Concepts Capacity Building and News Writing Workshop 5S of Good Housekeeping Allergy-Specific Immunotherapy: Moving Towards Long-term Allergy Control Achieving A1C Goals Early in the Management of Newly Diagnosed Diabetic Patients Orientation on Secretariat Support Services Importance of Early and Optimal Treatment of Growth Hormone Therapy In-Depth FASSSTER and TANOD COVID Training Dagyaw 2020 Usapang PPE at Bakuna SETUP Stakeholders' Summit: The Art of Restart Virtual Stakeholders' Verification Workshop for SETUP 2.0 Priority Sector- Agriculture, Forestry and Livestock: High Value Vegetable Production and Organic Agriculture	Webinar via MS Teams	September 23-30. 2020	RxBox 1000 Project	
	Webinar via MS Teams	October 14, 2020	DOST RO 1	
	Webinar via MS Teams	October 1, 2020	DOST RO 1	
	Online Seminar Region 1 Inter-Agency Food Safety Team	July 22, 2020	DOST RO 1	
	UP Med Webinars 2020 via livestream.upm.edu.ph/ UP Med Webinars Facebook Page	July 27, 2020	UP Manila Post Graduate Institute of the Philippines	
	UP Med Webinars 2020 via livestream.upm.edu.ph/ UP Med Webinars Facebook Page	August 24, 2020	UP Manila Post Graduate Institute of the Philippines	
	Online Orientation via Video Conferencing	September 1, 2020	DOST 1	
	UP Med Webinars 2020 via livestream.upm.edu.ph/ UP Med Webinars Facebook Page	September 4, 2020	UP Manila Post Graduate Institute of the Philippines	
	Online Training and Webinar	June 15, 2020	DOST PCHRD	
	Online Seminar	December 10, 2020	Philippine Open Government Partnership	
ABELLA, Gael Myca Science Research Specialist I *	Via Microsoft Teams	November 18, 2020	DOST 1	
	Zoom Webinar	October 22, 2020	DOST 1	

\* Contract of Service

NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
NRCP Webinar Series: Initiating Discussions on Ethics in Mathematical Modelling and Data and Role of Science and Technology Innovation in Promoting Health Dagyaw 2020 Usapang PPE at Bakuna e-Learning Course on Nutrition in Emergencies and Information Management COVID and Global Filipinos: Here and Abroad and their contribution to COVID Mitigation/Effort Regional Fairness Opinion Board Secretariat Training Workshop COVID-19 Daily Bulletin and Projections: What do the numbers mean? Webinar on Taho Processing Prostate, Breast, and Cervical Problems Awareness Webinar Orientation on RA 7877 (Anti-Sexual Harassment Act) Orientation on RA 9208 (Anti-Trafficking in Persons) and RA 9231 (Special Protection of Children Against Child Abuse, Exploitation, and Discrimination Act)	Via Microsoft Teams	November 9, 2020	DOST 1	
	Online Seminar	December 10, 2020	Philippine Open Government Partnership	
	e-Learning Training	November 3-Decem-ber 22, 2020	by National Nutrition Council Region 1	
	Online Seminar	August 11, 2020	by PCMD PCIEERD	
	"Webinar DOST NCR"	August 25-28, 2020	DOST NCR	
	Online Seminar	July 9, 2020	by UP Med Webinars	
	Online Training	June 4, 2020	by ITDI	
	Webinar	December 15, 2020	DOST 1- GAD	
	Webinar	December 7, 2020	DOST 1- GAD	
	Webinar	December 11, 2020	DOST 1- GAD	
CAJALA, Carla Joyce B. Project Assistant II *	Webinar	December 1, 2020	DOST 1- GAD	
	Webinar	December 10-14,2020	by PEME Consultancy Agency (facilitated by DOST Region 2)	
	UP Med Webinars 2020 via livestream. upm.edu.ph/ UP Med Webinars Face-book Page	September 4, 2020	UP Manila Post Graduate institute of the Philippines	
	Prostate, Breast, and Cervical Prob-lems Awareness Webinar	Via Microsoft Teams	December 15, 2020	DOST 1- GAD
	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Via Microsoft Teams	December 7, 2020	DOST 1- GAD
	Orientation on RA 9208 (Anti-Traffick-ing in Persons) and RA 9231 (Special Protection of Children Against Child Abuse, Exploitation, and Discrimination Act)	Via Microsoft Teams	December 11, 2020	DOST 1- GAD
	Orientation on 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1- GAD
	Online RXBox1000 Onboarding	Online Seminar	September 23-30. 2020	RxBox 1000 Project
	Orientation on Secretariat Support Services	Online Orientation via Video Conferencing	September 1, 2020	DOST 1
	Training on the Conduct of Situation Analysis and Technology Scanning Activities for SETUP 2.0 Project 1	Vivere Hotel and Resorts, Alabang, Muntinlupa City	January 20-24, 2020	DOST NCR
GADIANO, Cynthia R. Project Assistant I *	2020 National MSME Resilience e-Forum: Business Continuity Towards the "New Normal" with the theme "Building Resilient MSMEs Through Data and Communication"	Zoom Webinar	July 14, 2020	DTI/ PhilExport/ PDRF
	Awareness on Technology Transfer and Protocol	Virtual Training, DOST CARAGA, Butuan City	September 22, 2020	DOST Caraga
	Capacity Building and News Writing Workshop	Webinar via Microsoft Teams	October 1, 2020	DOST RO 1

NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
GAERLAN, Sunshine Project Assistant I *	Chemical Safety and Hazardous Waste Management	ITDI Webinar	September 10, 2020	DOST ITDI
	"Online Course UCI Division of Continuing Education"	Coursera	September 16, 2020	
	Receiving and Responding to Workplace Communication	Online Course	May 19, 2020	TESDA
	National MSME Week 2020 E- Forum Session 1: Building an Enabling Business Environment for Resilient and Sustainable Enterprises	E- Forum/ Online-Conference	July 20, 2020	MSME Development Council/ PTTC- Global MSME Academy
	National MSME Week 2020 E- Forum Session 2: Inclusive Financial Innovation for Recovery and Sustaining Enterprises	E- Forum/ Online Conference	July 21, 2020	MSME Development Council/ PTTC- Global MSME Academy
	National MSME Week 2020 E- Forum Session 3: Developing Resilient Entrepreneurs as Drivers of Innovation	E- Forum/ Online Conference	July 22, 2020	MSME Development Council/ PTTC- Global MSME Academy
	National MSME Week 2020 E- Forum Session 4: Leveraging on Technological Innovation for Disaster Proof and Sustainable Enterprises	E- Forum/ Online Conference	July 23, 2020	MSME Development Council/ PTTC- Global MSME Academy
	National MSME Week 2020 E- Forum Session 5: Riding the Wave of Digital Transformation for Sustainable Enterprises	E- Forum/ Online Conference	July 24, 2020	MSME Development Council/ PTTC- Global MSME Academy
	Product Development and Food Formulation	Virtual Training, DOST CARAGA, Butuan City	September 16, 2020	DOST- Caraga
	SARAI Eskwela: Coffee Application Harvest Estimator (CAPHE) and Coffee Processing	Webinar Project SARAI 3.2	August 26, 2020	UP SARAI Project
	SARAI Eskwela: Smarter Technologies for Crop Water Management	Webinar Project SARAI 3.2	September 2, 2020	UP SARAI Project
	Understanding Gender Sensitivity Concepts	Webinar via Microsoft Teams	October 14, 2020	DOST RO 1

NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
MERCADO, Benjamin, Jr. S. Science Research Specialist II	Orientation on RA 9208 (Anti-Trafficking in Persons) and RA 9231 (Special Protection of Children Against Child Abuse, Exploitation, and Discrimination Act)	Via Microsoft Teams	December 11, 2020	DOST 1- GAD
	Sanitation Standard Operating Procedure	Webinar via Zoom	June 19, 2020	DOST- NCR
	Mandatory Labelling Requirements for the Food Industry	Webinar via Zoom	June 15, 2020	DOST- NCR
	Packaging and Labelling Awareness	Webinar via Zoom	June 11, 2020	DOST- NCR
	GMP Documentation and Sanitation SOP	Webinar via Zoom	June 5, 2020	DOST- NCR
	Good Manufacturing Practice	Webinar via Zoom	May 29, 2020	DOST- NCR
	Halal Awareness	Webinar via Zoom	May 22, 2020	DOST- NCR
	5S of Good Housekeeping and Productivity Improvement	Webinar via Zoom	May 15, 2020	DOST- NCR
	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1- GAD
	Prostate, Breast, and Cervical Problems Awareness Webinar	Via Microsoft Teams	December 15, 2020	DOST 1- GAD
	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Via Microsoft Teams	December 7, 2020	DOST 1- GAD
	Mandatory Labelling Requirements	Online Seminar Region 1 Inter-Agency Food Safety Team	August 13, 2020	DOST 1
	Hazard Analysis and Critical Control Point	Online Seminar Region 1 Inter- Agency Food Safety Team	August 20, 2020	DOST 1
	HALAL Awareness	Online Seminar Region 1 Inter- Agency Food Safety Team	July 30, 2020	DOST 1
	Good Manufacturing Practice	Online Seminar Region 1 Inter- Agency Food Safety Team	July 29, 2020	DOST 1
	GMP Documentation and Sanitation SOP	Online Seminar Region 1 Inter- Agency Food Safety Team	August 6, 2020	DOST 1
	Food Safety Awareness	Online Seminar Region 1 Inter- Agency Food Safety Team	July 23, 2020	DOST 1
	Food Fraud and Food Defense Awareness	Online Seminar Region 1 Inter- Agency Food Safety Team	August 5, 2020	DOST 1
	FDA Licensing	Online Seminar Region 1 Inter- Agency Food Safety Team	August 19, 2020	DOST 1
	5S of Good Housekeeping	Online Seminar Region 1 Inter- Agency Food Safety Team	July 22, 2020	DOST 1

#### PROVINCIAL SCIENCE AND TECHNOLOGY CENTER - ILOCOS SUR

ALVIAR, Arthur Aubrey R. Science Research Specialist II	Hazard Analysis and Critical Control Point	Online Seminar Region 1 Inter-Agency Food Safety Team	August 20, 2020	DOST 1
	Mandatory Labelling Requirements	Online Seminar Region 1 Inter-Agency Food Safety Team	August 13, 2020	DOST 1
	Packaging and Labelling Awareness	Online Seminar Region 1 Inter-Agency Food Safety Team	August 12, 2020	DOST 1
	GMP Documentation and Sanitation SOP	Online Seminar Region 1 Inter-Agency Food Safety Team	August 6, 2020	DOST 1
	Food Fraud and Food Defense Awareness	Online Seminar Region 1 Inter- Agency Food Safety Team	August 5, 2020	DOST 1
	Halal Awareness	Online Seminar Region 1 Inter- Agency Food Safety Team	July 30, 2020	DOST 1
	Good Manufacturing Practice	Online Seminar Region 1 Inter- Agency Food Safety Team	July 29, 2020	DOST 1
	Food Safety Awareness	Online Seminar Region 1 Inter- Agency Food Safety Team	July 23, 2020	DOST 1

PROVINCIAL SCIENCE AND TECHNOLOGY CENTER - ILOCOS NORTE				
GABRIEL, Gerald Q. Science Research Specialist II *	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1- GAD
	Prostate, Breast, and Cervical Problems Awareness Webinar	Via Microsoft Teams	December 15, 2020	DOST 1- GAD
	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Via Microsoft Teams	December 7, 2020	DOST 1- GAD

\* Contract of Service

NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
<b>PIDO, Roger C.</b> Science Research Specialist I	Prostate, Breast, and Cervical Problems Awareness Webinar	Via Microsoft Teams	December 15, 2020	DOST 1- GAD
	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Via Microsoft Teams	December 7, 2020	DOST 1- GAD
	SARAI Eskwela: Satellite Remote Sensing: A Smarter Approach for Agricultural Monitoring	Webinar	September 30, 2020	UP- Project SARAI
	Fundamentals of Management	Online Course	September 17, 2020	COURSERA
	SARAI Eskwela: Use of Weather Information and Drone Arial Images for Crop Monitoring	Webinar	September 16, 2020	UP- Project SARAI
	SARAI Eskwela: Soil Properties and Management for Improved Crop Production	Webinar	September 9, 2020	UP- Project SARAI
	Introduction to Computers and Office Productivity Softwares	Webinar	September 9, 2020	COURSERA
	Initiating and Planning Projects	Online Coure	September 9, 2020	COURSERA
	Grammar and Punctuations	Online Course	September 4, 2020	COURSERA
	SARAI Eskwela: Smarter Technologies for Crop Water Management	Webinar	September 2, 2020	UP SARAI Project
	Innovations in Rice and Corn Production	Expert O Webinar	August 267, 2020	DOST Region VI/ DOST PCAARRD
	SARAI Eskwela: Coffee Application Harvest Estimator (CAPHE) and Coffee Processing	Webinar	August 26, 2020	UP- Project SARAI
	Technology and Innovation Challenges in Manufacturing in a Post-COVID Era	Webinar	August 25, 2020	DOST- PCIEERD
	Hazard Analysis and Critical Control Point	Online Seminar	August 20, 2020	DOST 1
	SARAI Eskwela: Importing Smallholder Access to the Institutional Markets by training on Cacao Primary Processing	Webinar	August 19, 2020	UP- Project SARAI
	FDA Licensing	Online Seminar	August 19, 2020	DOST 1
	Mandatory Labelling Requirements	Online Seminar	August 13, 2020	DOST 1
	Packaging and Labelling Awareness	Online Seminar	August 12, 2020	DOST 1
	GMP Documentation and Sanitation SOP	Online Seminar	August 6, 2020	DOST 1
	SARAI Eskwela: Smarter Pest Identification Technology (SPIDTECH)	Online Seminar	August 5, 2020	UP- Project SARAI
	Food Fraud and Food Defense Awareness	Online Seminar	August 5, 2020	DOST 1
	Online Seminar on Halal Awareness	Online Seminar	July 30, 2020	DOST 1
	Protecting your Ideas thru Intellectual Property Rights	Online Seminar	July 24, 2020	DOST 2
	Food Safety Awareness	Webinar via Zoom	July 23, 2020	DOST 1
	5S of Good Housekeeping	Webinar via Zoom	July 22, 2020	DOST 1
	ITDI Webinar on Hand Sanitizer Production	ITDI Webinar	July 17, 2020	ITDI
	1 <sup>st</sup> Session on Data Visualization: Fundamentals & Best Practices in the Webinar Series: Making Sense of Data: A Practical Guide in Managing, Analyzing, and Visualizing your Research Findings	Webinar via Zoom	July 14, 2020	DTI BSMED, PCCI, PDRF
	Good Manufacturing Practice	Webinar	July 29, 2020	DOST 1
	Taho Processing	ITDI Webinar	June 4, 2020	ITDI

\* Contract of Service

NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
<b>DASUGO, Junalyn C.</b> Project Assistant II*	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1 - GAD
	Prostate, Breast, and Cervical Problems Awareness Webinar	Via Microsoft Teams	December 15, 2020	DOST 1- GAD
	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Via Microsoft Teams	December 7, 2020	DOST 1- GAD
	Orientation on RA 9208 (Anti-Trafficking in Persons) and RA 9231 (Special Protection of Children Against Child Abuse, Exploitation, and Discrimination Act)	Via Microsoft Teams	December 11, 2020	DOST 1- GAD
	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1- GAD
	Prostate, Breast, and Cervical Problems Awareness Webinar	Via Microsoft Teams	December 15, 2020	DOST 1- GAD
	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Via Microsoft Teams	December 7, 2020	DOST 1- GAD
	Orientation on RA 9208 (Anti-Trafficking in Persons) and RA 9231 (Special Protection of Children Against Child Abuse, Exploitation, and Discrimination Act)	Via Microsoft Teams	December 11, 2020	DOST 1- GAD
	Handmade Paper Production	"Level 1 Training Webinar DOST- FR-RDI"	September 1, 2020	DOST- FRRDI
	"RAFI Center for Leaders' youth engagement session: YOUTH IN ACTION: LEADING IN THE NEW NORMAL Youth Amidst COVID-19"	"Online Seminar RAFI Center for Leaders"	August 12, 2020	RAFI Center for Leaders
	"ITDI Webinar on Chemical Safety and Hazardous Waste Management"	"Webinar DOST- ITDI"	September 10, 2020	DOST ITDI
	New Energy Technologies in the Philippines, Tie Ups: A Technicom Online Industry Offer	"Webinar Series DOST TAPI"	August 6, 2020	DOST TAPI
	FDA Licensing	"Online Seminar DOST 1"	August 19, 2020	DOST 1
	Food Fraud and Food Defense Awareness	"Online Seminar DOST 1"	August 5, 2020	DOST 1
	Food Safety Awareness	"Online Seminar DOST 1"	July 23, 2020	DOST 1
	GMP Documentation and Sanitation SOP	"Online Seminar DOST 1"	August 6, 2020	DOST 1

\* Contract of Service

NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
SALES, Laurine R. Project Assistant II*	Halal Awareness	"Online Seminar DOST 1"	July 30, 2020	DOST 1
	Hazard Analysis and Critical Control Point	"Online Seminar DOST 1"	August 20, 2020	DOST 1
	Mandatory Labelling Requirements	"Online Seminar DOST 1"	August 13, 2020	DOST 1
	Packaging and Labelling Awareness	"Online Seminar DOST 1"	August 12, 2020	DOST 1
	Pagkain at Nutrisyon sa Panahon ng Covid-19	"Webinar eTuro/ WeCAN"	July 16, 2020	Institute of Philippine Culture School of Social Sciences
	2019 Expanded National Nutrition Survey, Good Nutrition in the New Normal & Meal Planning and Preparation	"Online Forum via Zoom DOST- FNRI"	September 16, 2020	DOST- FNRI
	Technology and Innovation Challenges in Manufacturing in a Post- Covid Era	"Online Seminar DOST- PCIERRD"	August 25, 2020	DOST- PCIERRD
	Socio- Behavioral Dimension of Covid- 19 in the Philippines	"Webinar Series DOST"	July 22, 2020	DOST
	Understanding the Science of COVID-19 Testing	"Webinar Series DOST"	September 2, 2020	DOST
	5s of Good Housekeeping and Productivity Improvement	"Online Seminar DOST 1"	July 22, 2020	DOST 1
	5s of Good Housekeeping	"Online Seminar DOST 1"	July 22, 2020	DOST 1
	Pagkain at Nutrisyon sa Panahon ng Covid-19	"Webinar eTuro/ WeCAN"	July 16, 2020	Institute of Philippine Culture School of Social Sciences
	Jam Making: Pineapple Jam Processing	"Webinar ITDI"	October 19, 2020	DOST ITDI
	Getting Started with Essay Writing	"Online Course Coursera"	September 16, 2020	Coursera
	Write Professional E-mails in English	"Online Course Coursera"	September 23, 2020	Coursera
	DOST Biogas and Waste Water System Technologies	"Online Seminar Series DOST Calabarzon"	October 2, 2020	DOST Calabarzon
	Capacity Building and News Writing Workshop	"Online Seminar via TEAMS PIA RO 1"	October 1, 2020	DOST 1
	Philippine Trade Policy Response amid Covid-19 Pandemic- Non- Tariff Measures (NTMs) on Food as Essential Item- Meat Products and Processed Food	"Webinar RESPOND/ UPPAF"	August 5, 2020	RESPOND/ UPPAF
	ONLINE FORUM ON DOST RDI's DEVELOPED TECHNOLOGIES : Discovering Livelihood Opportunities Amidst the Pandemic Through DOST-FPRDI's COVID-19 Related Technologies	"Online Seminar via Google Meeting DOST IV-A"	October 8, 2020	DOST IV-A
	ONLINE FORUM ON DOST RDI's DEVELOPED TECHNOLOGIES : Featuring Technologies from the Advanced Science and Technology Institute (DOST-ASTI)	"Online Seminar via Google Meeting DOST IV-A"	September 18, 2020	DOST IV-A
	Science Behind Food Packaging Materials and FDA- Compliant Label Design	"Online Seminar DOST Caraga"	September 10, 2020	DOST Caraga
	Unleash with your Highest Potential: Dose up with Hope	"Webinar Series DOST Calabarzon"	May 14, 2020	DOST Calabarzon
	Bouncing Back: Adapting Business to the New Normal	"Webinar Series DOST Calabarzon"	May 15, 2020	DOST Calabarzon
	SARAI Eskwela: One- Stop SARAI Data Access Through the SARAI Knowledge Portal	"Webinar Project SARAI 3.2"	July 29, 2020	UP SARAI Project
	SARAI Eskwela: Smarter Pest Identification Technology (SPIDTECH)	"Webinar Project SARAI 3.2"	August 5, 2020	UP SARAI Project

\* Contract of Service

NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
	SARAI Eskwela: Recommended Good Agricultural Practices and Rehabilitation for Banana	"Webinar Project SARAI 3.2"	August 12, 2020	UP SARAI Project
	SARAI Eskwela: Improving Smallholder Access to the Institutional Markets by Training on Cacao Primary Processing	"Webinar Project SARAI 3.2"	August 19, 2020	UP SARAI Project
	SARAI Eskwela: Coffee Application Harvest Estimator (CAPHE) and Coffee Processing	"Webinar Project SARAI 3.2"	August 26, 2020	UP SARAI Project
	SARAI Eskwela: Smarter Technologies for Crop Water Management	"Webinar Project SARAI 3.2"	September 2, 2020	UP SARAI Project
	SARAI Eskwela: Soil Properties and Management for Improved Crop Production	"Webinar Project SARAI 3.2"	September 9, 2020	UP SARAI Project
	SARAI Eskwela: Satellite Remote Sensing: A Smarter approach for Agricultural Monitoring	"Webinar Project SARAI 3.2"	September 30, 2020	UP SARAI Project
	SARAI Eskwela: Coconut Good Agricultural Practices	"Webinar Project SARAI 3.2"	October 14, 2020	UP SARAI Project
	Innovations in Rice and Corn Production	EXPERT-O Webinar	August 27, 2020	DOST VI/ One Expert
	Using STARBOOKS Resources in Designing Assessment Activities for Remote Learning	"Webinar Series DOST STII"	August 19, 2020	DOST STII
	Using STARBOOKS Resources in Remote STEM Teaching in Diverse Learners	"Webinar Series DOST STII"	August 12, 2020	DOST STII
	START UP in Space: Opportunities for R&D and Commercialization in the Field of Space S&T Applications	"Webinar DOST PCIEERD"	October 8, 2020	DOST PCIEERD/ PhilSA/ SAS
	Using STARBOOKS Resources in Designing Assessment Activities for Remote Learning	"Webinar Series DOST STII"	August 19, 2020	DOST STII
	Using STARBOOKS Resources in Remote STEM Teaching in Diverse Learners	"Webinar Series DOST STII"	August 12, 2020	DOST STII
	START UP in Space: Opportunities for R&D and Commercialization in the Field of Space S&T Applications	"Webinar DOST PCIEERD"	October 8, 2020	DOST PCIEERD/ PhilSA/ SAS
<b>PROVINCIAL SCIENCE AND TECHNOLOGY CENTER - LA UNION</b>				
VIERNES, Jonathan M. Provincia Director	Philippine Quality Award (PQA) Application Development Course	via Zoom Meetings	August 24- 28, 2020	Development Academy of the Philippines through Online Modality
	Training Course on Stochastic Frontier Modelling, GIS Analysis, Land Use Simulation, Estimation of Housing Demand and Financing, and Applications in Urban and Regional Planning	Online Seminar	August 11- September 4, 2020	DOST PCIEERD/ PLANADES
ACOSTA, Edison M. Science Research Specialist II	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Via Microsoft Teams	December 7, 2020	DOST 1- GAD
	Goat Farming: Knowing your Goat Raising, Housing, Feeding, Diseases, The Business Side Milk and Meat	Online Training Course	September 20-22, 2020	FarmTech
	Webinar on Waste Management System featuring Ecosop and Vigormin	Online Seminar via Microsoft Teams	October 27, 2020	DOST 1
	Smart Manufacturing Solutions for MSMEs	Expert-O Webinar	July 10, 2020	DOST Region VI/ DOST MIRDC
	MS Excel for Database Management	DOST 1	March 13, 2020	DOST 1
	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1- GAD
SUNIEGA, Bernadine P. Science Research Specialist I	Philippine Health Research Ethics Board and PCHRD, DOST	Basic Research Ethics Training	September 21-22, 2020	DOST PCHRD
	PSTC- La Union, City of San Fernando, LU	Orientation on Technical Assistance and Consultancy Services (TACS)	February 17, 2020	"Mr. Edison M. Acosta DOST 1"

NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
<b>ABUAN, Princess P.</b> Project Assistant I *	HALAL Awareness	Webinar	October 6, 2020	
	Capacity Building and News Writing Workshop	Webinar	October 1, 2020	DOST 1
	Capitalizing in Agri-Tourism in Post-Covid-19 Era	Webinar	September 11, 2020	PGLU
	Hazard Analysis and Critical Control Point	Webinar	August 20, 2020	DOST Region 1 Inter-Agency Food Safety Team
	Packaging and Labelling Awareness	Webinar	August 12, 2020	DOST Region 1 Inter-Agency Food Safety Team
	The Role of Digital Marketing for Effective Business Growth in the New Normal	Webinar	August 14, 2020	PGLU
	Building Travel Confidence: Scaling up Health and Safety Services of Tourism Enterprises and Upskilling of Tourist's Safe Travel practices	Webinar	July 31, 2020	PGLU
	Halal Awareness	Webinar	July 30, 2020	DOST Region 1 Inter-Agency Food Safety Team
	Good Manufacturing Practices	Webinar	July 29, 2020	DOST Region 1 Inter-Agency Food Safety Team
	Food Safety Awareness	Webinar	July 22, 2020	DOST Region 1 Inter-Agency Food Safety Team
	5S of Good Housekeeping	Webinar	July 22, 2020	DOST 1
	COVID- 19: Where We Are and Where We want to Be	Webinar	June 10, 2020	NAST/ DOST 2
<b>PROVINCIAL SCIENCE AND TECHNOLOGY CENTER - PANGASINAN SATELLITE OFFICE</b>				
<b>FERNANDEZ, Jennifer C.</b> Science Research Specialist II	Training Course on Stochastic Frontier Modelling, GIS Analysis, Land Use Simulation, Estimation of Housing Demand and Financing, and Applications in Urban and Regional Planning	Online Seminar	August 11- S September 4, 2020	DOST PCIEERD/ PLANADES
<b>PROVINCIAL SCIENCE AND TECHNOLOGY CENTER - PANGASINAN</b>				
<b>SANTOS, Arnold C.</b> Provincial Director	Philippine Quality Award (PQA) Application Development Course	Online Modality Via Zoom	August 24-28, 2020	Development Academy of the Philippines
<b>MARTINEZ, Bernalyn P.</b> Project Assistant II *	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1- GAD
	Prostate, Breast, and Cervical Problems Awareness Webinar	Via Microsoft Teams	December 15, 2020	DOST 1- GAD
	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Via Microsoft Teams	December 7, 2020	DOST 1- GAD
	Orientation on RA 9208 (Anti-Trafficking in Persons) and RA 9231 (Special Protection of Children Against Child Abuse, Exploitation, and Discrimination Act)	Via Microsoft Teams	December 11, 2020	DOST 1- GAD
	5s of Good Housekeeping and Productivity Improvement	Online Seminar	May 15, 2020	DOST NCR
	Capacity Building and News Writing Workshop	via Microsoft Teams	October 1, 2020	DOST 1
	Digital Marketing Platforms for Online Marketplace	Online Seminar via Zoom	May 21, 2020	DOST 2
	2019 Expanded National Nutrition Survey, Good Nutrition in the New Normal & Meal Planning and Preparation	"Online Seminar via Zoom FNRI"	September 16, 2020	DOST FNRI
	SARAI Eskwela: Soil Properties and Management for Improved Crop Production	"Webinar Project SARAI 3.2"	September 9, 2020	UP SARAI Project
	The DOST-STII Webinar on Library Services, Mobile Photography, and Livestreaming in the New Normal	"Online Seminar via DOST STII Facebook Page"	August 26, 2020	DOST STII

\* Contract of Service

NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
<b>UGALE, Edward E.</b> Project Assistant I *	Prostate, Breast, and Cervical Problems Awareness Webinar	Via Microsoft Teams	December 15, 2020	DOST 1- GAD
	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Via Microsoft Teams	December 7, 2020	DOST 1- GAD
	2nd StarBooks Deployment Officers Virtual Meeting	Virtual Meeting	October 21, 2020	DOST STII
	Food Fraud and Food Defense Awareness	Online Seminar Region 1 Inter-Agency Food Safety Team	August 5, 2020	DOST 1
	Food Innovation and Development	Online Seminar Region 1 Inter-Agency Food Safety Team	October 19, 2020	DOST 1
	Mandatory Labelling Requirements	Online Seminar Region 1 Inter-Agency Food Safety Team	October 15, 2020	DOST 1
	Packaging and Labelling Awareness	Online Seminar Region 1 Inter-Agency Food Safety Team	October 15, 2020	DOST 1
	Workplace and Food Manufacturing Disinfection	Online Seminar Region 1 Inter-Agency Food Safety Team	October 13, 2020	DOST 1
	OneStore.Ph Online StakeHolders Meeting in Region 1	Webinar via Microsoft Teams	September 4, 2020	DOST 1
	Virtual Forum on Carageenan Plant Growth Promoter Technology	Webinar via Microsoft Teams	October 22, 2020	DOST 1
	Capacity Building and News Writing Workshop	Webinar via Microsoft Teams	October 1, 2020	DOST 1
<b>TECHNICAL SERVICES</b>				
<b>ESPIRITU, Racquel M.</b> Assistant Regional Director - TSD	Capacity Building Program on Research, Development and Innovation for DOST Regional Offices	Online Course via Zoom Meeting	September- October 2020	DOST CAR/ MIMAROPA
	Gender Analysis: Tools and Praxis Webinar	Webinar	September 29, 2020	Philippine Commission on Women
	"Webinar Series on Intellectual Property and Technology Transfer: Guidelines in Securing a Fairness Opinion Report Department of Science and Technology PCHRD Atty. Marion Ivy D. Decena"	"Virtual Lecture/ Seminar Taguig City, Metro Manila, Philippines"	October 13, 2020	DOST PCHRD
	Capacity Building and Workshop on News Writing	Via Microsoft Teams	October 1, 2020	DOST 1
	"Fundamentals of Gender Mainstreaming: Review of Policy Imperatives on GAD and GM Concepts Webinar Philippine Commission on Women Atty. Kristine E. Yuzon-Chavez"	"Virtual Lecture/ Seminar"	September 10, 2020	Philippine Commission on Women
	"2019 Expanded National Nutrition Survey, Good Nutrition in the New Normal & Meal Planning and Preparation DOST- FNRI Imelda Angeles-Agdeppa, Ph.D."	Via Zoom	September 16, 2020	DOST- FNRI
	Webinar on FDA Licensing for Food Establishments in the New Normal	Virtual/ Webinar	July 22, 2020	DTI/ FDA/ PTTC
	DOST Wide Strategic Plan Feedback Conference	Virtual Lecture/ Seminar	July 16, 2020	DOST- CO
	Hygiene and Sanitation in the HORECA Industry	Virtual Lecture/ Seminar	July 2, 2020	Glenwood Technologies International, Inc.
	SARAI Eskwela: One-stop SARAI Data Access through the SARAI Knowledge Portal	Virtual Lecture/ Seminar	July 29, 2020	DOST/ UP
	Webinar on Dragon Fruit Processing	Via Microsoft Teams	December 7, 2020	DOST 1- GAD
	Webinar on Hand Sanitizer Production	Virtual Meeting	October 21, 2020	DOST STII

\* Contract of Service

NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
<b>ORPILLA, Eiryz Clyde Angelique D. Science Research Analyst *</b>	1 <sup>st</sup> Session on Data Visualization: Fundamentals & Best Practices in the Webinar Series: Making Sense of Data: A Practical Guide in Managing, Analyzing, and Visualizing your Research Findings	Online Seminar Region 1 Inter-Agency Food Safety Team	August 5, 2020	DOST 1
	2 <sup>nd</sup> Session on Data Visualization: Fundamentals & Best Practices in the Webinar Series: Making Sense of Data: A Practical Guide in Managing, Analyzing, and Visualizing your Research Findings	Online Seminar Region 1 Inter-Agency Food Safety Team	October 19, 2020	DOST 1
	#Bangon: Bayanihan tungo sa Pagbangon Webinar Series on "Sharing of Singapore's Experience in Ensuring Food Safety During the Covid-19 Pandemic, Moving Towards New Normal"	Online Seminar Region 1 Inter-Agency Food Safety Team	October 15, 2020	DOST 1
	DOST-FPRDI Technology Forum	Online Seminar Region 1 Inter-Agency Food Safety Team	October 15, 2020	DOST 1
	Webinar on Taho Processing	Online Seminar Region 1 Inter-Agency Food Safety Team	October 13, 2020	DOST 1
	DOST 7 Food Safety Webinar: Food Safety, Food Delivery, and Covid-19	Webinar via Microsoft Teams	September 4, 2020	DOST 1
	Food Safety Amidst COVID-19: Adapting to the New Normal	Webinar via Microsoft Teams	October 22, 2020	DOST 1
<b>ORPILLA, Marlon R. Science Research Analyst *</b>	DOST 7 Food Safety Webinar: Food Safety, Food Delivery, and Covid-19	Webinar via Microsoft Teams	September 4, 2020	
	Food Safety Amidst COVID-19: Adapting to the New Normal	Webinar via Microsoft Teams	October 22, 2020	
	Risk Management Through Understanding of Calibration and Measurement	Virtual Webinar	May 13, 2020	
	Introduction to Metrology	Virtual Webinar	July 20, 2020	
	An Overview on the Proper Selection of Personal Protective Equipment or PPEs for the Laboratory	Virtual Webinar	July 28, 2020	
	Understanding and implementing decision rules in the new ISO/IEC 17025	Virtual Webinar	August 5, 2020	
	Important Considerations for Measuring Human Body Temperature with Infrared Thermometers	Virtual Webinar	August 18, 2020	
	Environmental Monitoring as a Food Safety Strategy And Components of an Effective Pathogen Environmental Monitoring Program	Virtual Webinar	August 24, 2020	
	Evolution of Automated Pressure Controllers	Virtual Webinar	Sept. 4, 2020	
	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Virtual Webinar	December 7, 2020	
	Basic Occupational Safety and Health	Virtual Webinar	December 10-14, 2020	
	Showcase of Testing Capabilities of the Physical and Performance Testing Laboratory of the Standard and Testing Division	Web based video conferencing	November 3, 2020	ITDI Standards and Testing Division
	Understanding Gender Sensitivity Concepts	Via Microsoft Teams	October 4, 2020	DOST 1
	Evolution of Automated Pressure Controllers	Webinar	September 4, 2020	Fluke Calibration
	Mandatory Labelling Requirements	Online Seminar	August 13, 2020	Region 1 Inter-agency Food Safety Team

\* Contract of Service

NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
<b>LIBUNAO, Deceth 1180 P. Science Research Specialist II</b>	Philippine Government Electronic Procurement System (PhilGEPS) Online Training for Buyers	Online Training	October 5-6, 2020	PhilGEPS/ E-Blackboards Learning and Solutions
	Basic Training Course for Pollution Control Officers	Online Training Program	August 24- 28, 2020	Water Environment Association of the Philippines
<b>AMPELOQUIO, Ian Jasper R. Science Research Analyst *</b>	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1- GAD
	Prostate, Breast, and Cervical Problems Awareness Webinar	Via Microsoft Teams	December 15, 2020	DOST 1- GAD
	Prostate, Breast, and Cervical Problems Awareness Webinar	Via Microsoft Teams	December 15, 2020	DOST 1- GAD
	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Via Microsoft Teams	December 7, 2020	DOST 1- GAD
	Orientation on RA 9208 (Anti-Trafficking in Persons) and RA 9231 (Special Protection of Children Against Child Abuse, Exploitation, and Discrimination Act)	Via Microsoft Teams	December 11, 2020	DOST 1- GAD
	Protecting your Ideas Thru Intellectual Property Rights	Online Seminar via Zoom	July 24, 2020	DOST RO 2
	Food Consumption, Vitamin A Status, and Iodine Content of Household Salt: 2018 ENNS Result	"Webinar Forum FNRI Bldg. DOST Compound Bicutan, Taguig City"	July 28, 2020	DOST FNRI
	"Technical Session 1- Nutrition Intervention 46th FNRI Seminar Series 2020 Perfect Vision for Nutrition: Batang Pinoy SANA TALL Amidst COVID- 19"	FNRI Building, DOST Compound, Bicutan, Taguig City	July 10, 2020	DOST FNRI
	Capacity Building and News Writing Workshop	Online Seminar via Microsoft Teams	October 1, 2020	DOST 1
	Preventing the Spread of Covid-19 through Facility Disinfection and Proper Waste Disposal	ITDI Webinar	September 2, 2020	DOST ITDI
<b>EUGENIO, Eulyne C. Science Research Specialist I *</b>	HALAL Awareness	Online Seminar Region 1 Inter-Agency Food Safety Team	July 30, 2020	DOST RO 1
	Food Fraud and Food Defense Awareness	Online Seminar Region 1 Inter-Agency Food Safety Team	August 5, 2020	DOST RO 1
	Packaging and Labelling Awareness	Online Seminar Region 1 Inter-Agency Food Safety Team	August 12, 2020	DOST RO 1
	Mandatory Labelling Requirements	Online Seminar Region 1 Inter-Agency Food Safety Team	August 13, 2020	DOST RO 1
	Hazard Analysis and Critical Control Point	Online Seminar Region 1 Inter-Agency Food Safety Team	August 20, 2020	DOST RO 1
	Good Manufacturing Practices	Online Seminar Region 1 Inter-Agency Food Safety Team	July 9, 2020	DOST RO 1
	GMP Documentation and Sanitation SOP	Online Seminar Region 1 Inter-Agency Food Safety Team	August 6, 2020	DOST RO 1
	FDA Licensing	Online Seminar Region 1 Inter-Agency Food Safety Team	August 19, 2020	DOST RO 1
	5S of Good Housekeeping	Online Seminar Region 1 Inter-Agency Food Safety Team	July 22, 2020	DOST RO 1
	Food Safety Awareness	Online Seminar Region 1 Inter-Agency Food Safety Team	July 23, 2020	DOST RO 1

\* Contract of Service

NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
<b>GALAMGAM, Hero D.</b> Science Research Specialist II *	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1- GAD
	Prostate, Breast, and Cervical Problems Awareness Webinar	Via Microsoft Teams	December 15, 2020	DOST 1- GAD
	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Via Microsoft Teams	December 7, 2020	DOST 1- GAD
	Orientation on RA 9208 (Anti-Trafficking in Persons) and RA 9231 (Special Protection of Children Against Child Abuse, Exploitation, and Discrimination Act)	Via Microsoft Teams	December 11, 2020	DOST 1- GAD
	Role of ATP Testing in Sanitization and Disinfection	"Technical Webinar Glenwood Technologies, Intl."	August 20, 2020	Glenwood Technologies International
	Microbiology: From Concepts to Application Towards Sustainable Development	PSM Webinar 2020	July 16, 2020	Philippine Society for Microbiology, Inc
	Webinar on Pinggang Pinoy	DOST- FNRI Youtube Channel	March 31, 2020	DOST- FNRI
	5s of Good Housekeeping and Productivity Improvement	"Webinar via Zoom DOST- NCR"	May 15, 2020	DOST- NCR
	ATI@Home: Live Seminar on Homegrown Mushroom	Webinar	May 15, 2020	Department of Agriculture
	Good Nutrition during the New Normal	Webinar	May 19, 2020	DOST- FNRI
	"The Fight Against COVID-19: Experiences from Selected ASEAN CountriesPart 2: Indonesia, Malaysia and Vietnam"	"ASEAN Level Webinar eTURO/ WeCAN"	May 13, 2020	Institute of Philippine Culture School of Social Sciences
	KKK-COVID19 1: Pag-iwas sa Sakit sa Panahon ng COVID19	"Webinar eTuro/ WeCAN"	April 17, 2020	Institute of Philippine Culture School of Social Sciences
	Lab in the Time of Covid: How Laboratory Standards and Practices are Challenged in the Covid-induced New Normal	"Webinar DOST- PCIEERD"	October 13, 2020	DOST- PCIEERD
	LGC Proficiency Testing Educational Webinar Series- 1. Introduction to PT-English	"Webinar Series LGC Standards"	April 15, 2020	LGC Standards
	LGC Proficiency Testing Educational Webinar Series- 2. How a PT Scheme Operates- English	"Webinar Series LGC Standards"	April 29, 2020	LGC Standards
	Biological and Chemical Safety Awareness Online Seminar	Webinar	October 6, 2020	Esco Biosafety Institute
	Chemical Safety and Hazardous Waste Management	"Webinar ITDI"	September 10, 2020	DOST- ITDI
	MasangPinoy TV: Nutrition Tips	DOST- FNRI Youtube Channel	April 3, 2020	DOST- FNRI
	Antimicrobial resistance- theory and methods	"Webinar Coursera"	September 19, 2020	Coursera
	COVID-19: Tackling the Novel Coronavirus London School of Hygiene and Tropical Medicine and UK Public Support and Rapid Support Team	Webinar	3 weeks 4 hrs per week	UK Public Health Rapid Support Team
	Ensuring Food Safety under the New Normal	Webinar	September 29, 2020	DOST Caraga

\* Contract of Service

NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
<b>GALAMGAM, Hero D.</b> Science Research Specialist II *	Food Safety Awareness	Online Seminar	May 18, 2020	DOST NCR
	US NRA ServSafe Food Allergens	"Webinar via Zoom DOST 7"	October 2, 2020	DOST 7
	Mushroom Processing	"CLSU Webinar Series CLSU Training Office"	September 23, 2020	CLSU Training Office
	Good Manufacturing Practices	"Online Seminar via Zoom DOST NCR"	May 29, 2020	DOST NCR
	GMP Documentation and FDA Licensing	"Webinar via Zoom DOST NCR"	June 5, 2020	DOST NCR
	HALAL Awareness	"Webinar via Zoom DOST NCR"	May 22, 2020	DOST NCR
	Blended/ Flexible Learning in Microbiology	"Webinar via Zoom Microbiology Consortium"	June 11, 2020	Phil. Society for Microbiology
	HALAL Awareness Webinar	"Online Seminar DOST XI"	June 30, 2020	DOST XI
	Food Safety, Hygiene, and Sanitation: Rebooting Your Food Business During COVID-19	"Webinar Series Enderun"	April 14, 2020	Enderun Extension
	Basic Microbiology: The Small Things that Matter	"Online Seminar 3M Healthcare Academy"	June 23, 2020	3M Health Care Academy
	Mandatory Labelling Requirements for the Food Industry	"Online Seminar DOST NCR"	June 15, 2020	DOST NCR
	An Overview on the Proper Selection of Personal Protective Equipment (PPE) for the Laboratory	"Webinar 3M Philippines"	July 28, 2020	3M Philippines/ OneLab
	Packaging and Labelling Awareness	"Online Seminar DOST NCR"	June 11, 2020	DOST NCR
	Innovations in Rice and Corn Production	EXPERT-O Webinar	August 27, 2020	One Expert
	Sanitation Standard Operating Procedure	"Online Seminar via Zoom DOST NCR"	June 19, 2020	DOST NCR
	Food Allergen Management in the Food Industry	"Technical Webinar Glenwood Technologies, Intl."	August 7, 2020	Glenwood Technologies International
	Hygiene and Sanitation Monitoring in the Food Industry	"Technical Webinar Glenwood Technologies, Intl."	July 23, 2020	Glenwood Technologies International
	Overview of GMP and HACCP in the Food Industry	"Technical Webinar Glenwood Technologies, Intl."	July 30, 2020	Glenwood Technologies International
	Hygiene and Sanitation in Offices and Buildings	"Technical Webinar Glenwood Technologies, Intl."	July 14, 2020	Glenwood Technologies International
	2020 Perfect Vision for Nutrition: Batang Pinoy SANA TALL amidst Covid-19	"Virtual Plenary Session FNRI Seminar Series"	July 10, 2020	DOST FNRI
<b>GUERRERO, Marinique A.</b> Science Research Analyst *	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1- GAD
	Prostate, Breast, and Cervical Problems Awareness Webinar	Via Microsoft Teams	December 15, 2020	DOST 1- GAD
	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Via Microsoft Teams	December 7, 2020	DOST 1- GAD
	Orientation on RA 9208 (Anti-Trafficking in Persons) and RA 9231 (Special Protection of Children Against Child Abuse, Exploitation, and Discrimination Act)	Via Microsoft Teams	December 11, 2020	DOST 1- GAD

\* Contract of Service

NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
JIMENO, Blessie T. Senior Science Research Specialist *	Biological and Chemical Safety Awareness Online Seminar	"Webinar ESCO Bio-safety Institute"	October 6, 2020	Esco Biosafety Institute
	Basic Research Ethics Training	"Webinar Philippine Health Research and Ethics Board and PCHRD DOST"	September 21-22, 2020	PHREB/ PCHRD/ DOST
	Environmental Monitoring as a Food Safety Strategy and Components of an Effective Pathogen Environmental Monitoring Program	"Webinar 3M Philippines"	August 24, 2020	OneLab
	ITDI Webinar on Food Safety at Home	"Webinar ITDI"	August 28, 2020	DOST ITDI
	Hazard Analysis and Control Point	"Webinar DOST 1"	August 20, 2020	DOST 1
	FDA Licensing	"Webinar DOST 1"	August 19, 2020	DOST 1
	Packaging and Labelling Awareness	"Webinar DOST 1"	August 12, 2020	DOST 1
	COVID and Global Filipinos: Filipino Scientist/ Engineers Here and Abroad and their Contribution to Covid Mitigation/ Efforts	"Webinar DOST PCIEERD"	August 11, 2020	DOST PCIEERD
	Food Allergen Management in the Food Industry	"Technical Webinar Glenwood Technologies, Intl."	August 7, 2020	Glenwood Technologies International
	GMP Documentation and Sanitation SOP	Online Seminar	August 6, 2020	DOST 1
	Food Fraud and Food Defense Awareness	Online Seminar	August 5, 2020	DOST 1
	HALAL Awareness	Online Seminar	July 30, 2020	DOST 1
	An Overview on the Proper Selection of Personal Protective Equipment (PPE) for the Laboratory	"Webinar 3M Philippines"	July 28, 2020	OneLab
	Protecting your Ideas Thru Intellectual Property Rights	Online Seminar	July 24, 2020	DOST 2
	MAGKANO RAW? Mga Usapin at Suliranang Pinansyal ng mga LGU dulot ng Covid-19	Online Seminar	July 17, 2020	DOST PCHRD/ IPC
	Microbiology: From Concepts to Application Towards Sustainable Development	PSM Webinar 2020	July 17, 2020	Phil. Society for Microbiology
	"Technical Session 1- Nutrition Intervention 46th FNRI Seminar Series 2020 Perfect Vision for Nutrition: Batang Pinoy SANA TALL Amidst COVID-19"	"Online Seminar FNRI"	July 10, 2020	FNRI/ FNRI EA
	"Technical Session 3- Nutrition Intervention 46th FNRI Seminar Series 2020 Perfect Vision for Nutrition: Batang Pinoy SANA TALL Amidst COVID-19"	"Online Seminar FNRI"	July 10, 2020	FNRI/ FNRI EA
	"Technical Session 4- Nutrition Intervention 46th FNRI Seminar Series 2020 Perfect Vision for Nutrition: Batang Pinoy SANA TALL Amidst COVID-19"	"Online Seminar FNRI"	July 10, 2020	FNRI/ FNRI EA
	"Technical Session 5- Nutrition Intervention 46th FNRI Seminar Series 2020 Perfect Vision for Nutrition: Batang Pinoy SANA TALL Amidst COVID-19"	"Online Seminar FNRI"	July 10, 2020	FNRI/ FNRI EA
	"Technical Session 6- Nutrition Intervention 46th FNRI Seminar Series 2020 Perfect Vision for Nutrition: Batang Pinoy SANA TALL Amidst COVID-19"	"Online Seminar FNRI"	July 10, 2020	FNRI/ FNRI EA

\* Contract of Service

NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
MANALON, Cyrille Ann B. Science Research Specialist I	Food Safety Amidst COVID- 19: Adapting to the New Normal	Technical Webinar	June 25, 2020	Glenwood Technologies International
	LGC Proficiency Testing Webinar Series 6 LGC Proficiency Testing-English	Webinar Series	June 24, 2020	LGC Standards
	Basic Microbiology: The Small Things that Matter	"Online Training 3M Philippines"	June 23, 2020	3M Philippines/ DOST III
	Food Safety in the Time of Covid- 19	"Online Training 3M Philippines"	June 19, 2020	3M Philippines/ DOST III
	PPE Preparation in Workplace for Covid-19	"Online Training 3M Philippines"	June 18, 2020	3M Philippines/ DOST III
	COVID-19 and ME 3: Social and Cultural Dimensions of Disease Control Part 1	"Online Training eTURO and WeCAN"	March 30, 2020	Institute of Philippine Culture School of Social Sciences
	COVID-19 and ME 3: Social and Cultural Dimensions of Disease Control Part 2	"Online Training eTURO and WeCAN"	April 3, 2020	Institute of Philippine Culture School of Social Sciences
	MasangPinoy TV: Nutrition Tips	"Webinar DOST-FNRI YouTube Channel"	April 3, 2020	DOST- FNRI
	LGC Proficiency Testing Webinar Series 1. Introduction to PT-English	"Webinar LGC Standards"	April 15, 2020	LGC Standards
	KKK- Covid19-1: Pag- iwas sa Sakit sa Panahon ng Covid-19	"Online Training eTURO and WeCAN"	April 17, 2020	Institute of Philippine Culture School of Social Sciences
	Food Safety Amidst COVID- 19: Adapting to the New Normal	Technical Webinar	June 25, 2020	Glenwood Technologies International
	LGC Proficiency Testing Webinar Series 6 LGC Proficiency Testing-English	Webinar Series	June 24, 2020	LGC Standards
	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1- GAD
	Prostate, Breast, and Cervical Problems Awareness Webinar	Via Microsoft Teams	December 15, 2020	DOST 1- GAD
	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Via Microsoft Teams	December 7, 2020	DOST 1- GAD
	Orientation on RA 9208 (Anti-Trafficking in Persons) and RA 9231 (Special Protection of Children Against Child Abuse, Exploitation, and Discrimination Act)	Via Microsoft Teams	December 11, 2020	DOST 1- GAD
	Understanding Gender Sensitivity Concepts	Webinar via Microsoft Teams	October 14, 2020	DOST 1
	US NRA ServSafe Food Allergens	Webinar via Zoom	October 2, 2020	DOST Region VII
	Capacity Building and News Writing Workshop	Webinar via Microsoft Teams	October 1, 2020	DOST 1
	Food Allergen Management in the Food Industry	Webinar	October 7, 2020	Glenwood Technologies International
	Hygiene and Sanitation in Offices and Buildings	Webinar	July 14, 2020	Glenwood Technologies International
	Introduction to Hazard Analysis and Critical Control Point	Online Seminar via Zoom	June 26, 2020	DOST NCR
	Food Safety in the Time of Covid- 19	Webinar	June 19, 2020	3M Health Care Academy/ DOST III
	Packaging and Labelling Awareness	Online Seminar via Zoom	June 11, 2020	DOST NCR
	2020 Perfect Vision for Nutrition: Batang Pinoy SANA TALL amidst Covid-19	"Seminar Series Technical Session 1-6"	July 10, 2020	FNRI/ FNRI EA
	GMP Documentation and FDA Licensing	Online Seminar via Zoom	June 5, 2020	DOST NCR
	Good Manufacturing Practices	Online Seminar via Zoom	May 29, 2020	DOST NCR
	HALAL Awareness	Online Seminar via Zoom	May 22, 2020	DOST NCR

\* Contract of Service

NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
	Food Safety Awareness	Online Seminar via Zoom	May 18, 2020	DOST NCR
	5s of Good Housekeeping and Productivity Improvement	Online Seminar via Zoom	May 15, 2020	DOST NCR
	MasangPinoy TV: Nutrition Tips	Webinar via DOST - FNRI Youtube Channel	April 3, 2020	DOST FNRI
	Food Safety Seminar	Social Action Center, Pampanga	January 28-29, 2020	3M Healthcare Academy
<b>RAMOS, Paul Stanley C.</b> Science Research Specialist I *	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1- GAD
<b>ROSALES, Annalie L.</b> Science Research Specialist II	Prostate, Breast, and Cervical Problems Awareness Webinar	Via Microsoft Teams	December 15, 2020	DOST 1- GAD
	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Via Microsoft Teams	December 7, 2020	DOST 1- GAD
	Orientation on RA 9208 (Anti-Trafficking in Persons Act) and RA 9231 (Special Protection for Children Against Child Abuse, Exploitation and Discrimination Act)	Via Microsoft Teams	December 11, 2020	DOST 1- GAD
	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1- GAD
	Innovation in the Covid-19 Economy: S&T Innovation Policy for the Challenges of the New Normal	Webinar	October 27, 2020	DOST- PCIEERD
	Webinar on Integrated Environmental Monitoring	"Online Seminar 3M Healthcare Academy"	October 22, 2020	3M Health Care Academy
	Nationwide Halal HACCP Training	Online Seminar via Zoom	October 7, 2020	DOST RO XI
	Capacity Building and News Writing Workshop	Online Seminar via Microsoft Teams	October 1, 2020	DOST RO 1
	Food Loss and Waste Reduction Amidst COVID-19 Pandemic	Webinar PHTRC, CAFS, UP Los Baños, Laguna	September 29, 2020	PHTRC- CAFS
	Basic Research Ethics Training	"Online Seminar DOST PCHRD, Taguig City"	September 21-22, 2020	DOST PCHRD
	Transparent Governance and Accountability in the Face of Covid-19	Online Session , Sta. Cruz, Metro Manila	September 8, 2020	DOST PCHRD
	An Overview on the Proper Selection of Personal Protective Equipment (PPE) for the Laboratory	Webinar via Zoom Meeting Application Software	July 28, 2020	3M Philippines/ OneLab
	Food Consumption, Vitamin A Status, and Iodine Content of Household Salt: 2018 ENNS Result	"Webinar Forum FNRI Bldg. DOST Compound Bicutan, Taguig City"	July 28, 2020	DOST FNRI
	"Introduction to Evidence-Informed Policymaking for Health: DOST-PCHRD's 1st Webinar and Virtual Workshop Series for Early-Career Researchers"	Webinar, Taguig City, Metro Manila	July 13, 15, 17, 2020	DOST PCHRD, Ateneo de Manila- IPC
	PAGKAIN AT NUTRISYON SA PANAHON NG COVID-19	Online Training via eTUBO and WeCAN Project, Quezon City, Philippines	July 16, 2020	DOST- PCHRD
	"SOLVE Income Insufficiency in the Time of COVID-19 Pandemic through Agricultural Value Chains Financing and Investments"	Online seminar via Zoom and Facebook Live	July 15, 2020	SEARCA
	Science Communication in the Time of Covid-19	Webinar Series	July 14, 2020	DOST PCIEERD
	2020 Perfect Vision for Nutrition: Batang Pinoy SANA TALL amidst Covid-19	"FNRI Seminar Series Technical Sessions 2-7"	July 10, 2020	DOST FNRI
	42 <sup>nd</sup> Annual Scientific Meeting Science and Technology for Society: Solutions to Long-Standing Concerns	Online Seminar	July 8, 2020	DOST- NAST

\* Contract of Service

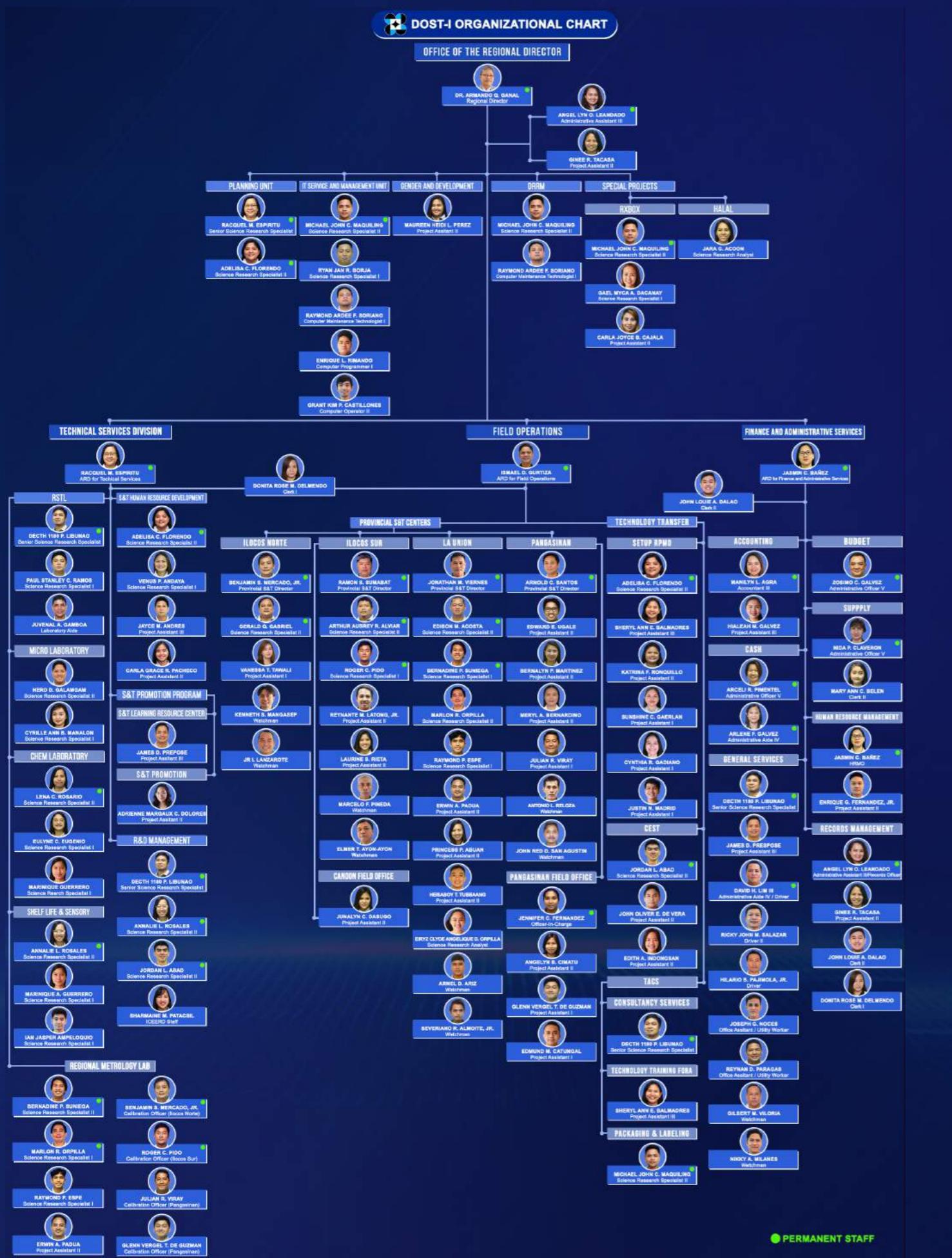
NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
	"MASTERCLASS Appreciating the Numbers in Communication Research: Statistical Methods for Social Science (Part 2)"	Live Stream via UPOU Networks	July 3, 2020	UP Open University Faculty of Information and Communication Studies
	Basic Food Product Research and Development	Online Seminar	July 3, 2020	DOST Calabarzon
	Hygiene and Sanitation in the HORECA Industry	Technical Webinar	July 2, 2020	Glenwood Technologies International
	HALAL Awareness Webinar	Webinar, Davao City Philippines	June 30, 2020	DOST RO XI
	Introduction to Hazard Analysis and Critical Control Point	Online Seminar via Zoom	June 26, 2020	DOST NCR
	Food Defense and Threat Assessment Critical Control Point (TACCP)	Webinar via Zoom	June 25, 2020	DOST 2/ Phil. Commission on Women
<b>ROSALES, Annalie L.</b> Science Research Specialist II	Ako at ang COVID-19: Usapang Seks at Kasarian	Online Training via eTUBO and WeCAN Project, Quezon City, Philippines	June 19, 2020	DOST- PCHRD
	Sanitation Standard Operating Procedure	Online Seminar via Zoom	June 19, 2020	DOST NCR
	Mandatory Labelling Requirements for the Food Industry	Online Seminar via Zoom	June 15, 2020	DOST NCR
	Packaging and Labelling Awareness	Online Seminar via Zoom	June 11, 2020	DOST NCR
	Covid-19: Where are we and where we want to be	Webinar Series	June 10, 2020	DOST 2/ NAST
	Online Briefing Session on Improving Food Safety and Security in a Pandemic	Webinar	June 9, 2020	DTI
	Webinar on Basic Nutrition and Meal Planning	Online Seminar via Zoom	June 8, 2020	DOST- FNRI
	GMP Documentation and FDA Licensing	Online Seminar via Zoom	June 5, 2020	DOST NCR
	ServSafe Food Handler Employee Food Safety Online Course and Exam	Online Course/ Lecture	May 31, 2020	ServSafe
	Kumusta? Mga Hinaing at Hinahain sa Panahon ng Covid-19	Online Training via eTUBO and WeCAN Project, Quezon City, Philippines	May 29, 2020	DOST- PCHRD
	Good Manufacturing Practices	Online Seminar via Zoom	May 29, 2020	DOST NCR
	Halal Awareness	Online Seminar via Zoom	May 22, 2020	DOST NCR
	"The Fight Against COVID-19: Experiences from Selected ASEAN Countries Part 3: ASEAN Responses to the COVID-19 Pandemic"	Online Training via eTUBO and WeCAN Project, Quezon City, Philippines	May 20, 2020	DOST- PCHRD
	Food Safety Awareness	Online Seminar via Zoom	May 18, 2020	DOST NCR
	Vulnerabilities, Preparedness & Resilience Part 1	Online Training via eTUBO and WeCAN Project, Quezon City, Philippines	May 15, 2020	DOST- PCHRD
	5s of Good Housekeeping and Productivity Improvement	Online Seminar via Zoom	May 15, 2020	DOST NCR
	Calamansi Processing	ITDI Webinar	May 14, 2020	DOST- ITDI
	The Fight Against COVID-19: Experiences from Selected ASEAN Countries Part 2: Indonesia, Malaysia and Vietnam"	Online Training via eTUBO and WeCAN Project, Quezon City, Philippines	May 13, 2020	DOST- PCHRD
	COVID19 8: Changing Health Belief Models and Behaviors Part 2	Online Training via eTUBO and WeCAN Project, Quezon City, Philippines	May 8, 2020	DOST- PCHRD
	COVID19 7: Changing health Belief Models and Behaviors	Online Training via eTUBO and WeCAN Project, Quezon City, Philippines	April 30, 2020	DOST- PCHRD

NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
ROSALES, Annalie L. Science Research Specialist II	"COVID19 and Me 6: Implications of the Pandemic and the Disease Control Measures to the Health System and Society P1 & P2"	Online Training via eTURD and WeCAN Project, Quezon City, Philippines	April 28, 2020	DOST- PCHRD
	KKK-COVID19 2: Ano ang Impeksyon (Infection) at Paano Ito Maiwasan?	Online Training via eTURD and WeCAN Project, Quezon City, Philippines	April 22, 2020	DOST- PCHRD
	Mahirap maging mahirap: How are the poor coping with COVID-19?	Online Training via eTURD and WeCAN Project, Quezon City, Philippines	April 21, 2020	DOST- PCHRD
	KKK-COVID19 1: Pag-iwas sa Sakit sa Panahon ng COVID19	Online Training via eTURD and WeCAN Project, Quezon City, Philippines	April 17, 2020	DOST- PCHRD
	ePROTECT Respiratory Infections (EN)	Online Course/ Lecture	April 14, 2020	World Health Organization- Health Emergencies Programme
	"Infection Prevention and Control (IPC) for Novel Coronavirus (COVID-19)"	Online Course/ Lecture	April 14, 2020	World Health Organization- Health Emergencies Programme
	Show Love in times of disasters: A webinar on Disaster Risk Reduction and Management in Health	UP Open University Headquarters, Los Baños, Laguna	February 14, 2020	UP Open University Faculty of Management and Development Studies
	"COVID-19 and Me 5: Implications of the Pandemic and the Disease Control Measures to the Health System and Society"	Online Training via eTURD and WeCAN Project, Quezon City, Philippines	April 14, 2020	DOST- PCHRD
	Food Safety, Hygiene, and Sanitation: Rebooting Your Food Business During COVID-19	Enderun's Webinar Series	April 14, 2020	Enderun Extension
	Webinar on Nutrigenomics	DOST- FNRI Youtube Channel	April 8, 2020	DOST- FNRI
	"Essential Excel Skills for Data Preparation and Analysis"	"Development Academy of the Philippines CourseBank"	April 7, 2020	DAP
	"COVID-19: Operational Planning Guidelines and COVID-19 Partners Platform to support country preparedness and response"	Online Course/ Lecture	April 6, 2020	World Health Organization- Health Emergencies Programme
	Emerging Respiratory Viruses, including COVID-19: methods for detection, prevention, response and control	Online Course/ Lecture	April 6, 2020	World Health Organization- Health Emergencies Programme
	Covid19 & ME 4: Social and Cultural Dimensions of Disease Control Part 2	DOST- FNRI Youtube Channel	April 3, 2020	DOST- PCHRD
	MasangPinoy TV: Nutrition Tips	DOST- FNRI Youtube Channel	April 3, 2020	DOST- FNRI
	Covid 19 & ME 3: Social and Cultural Dimensions of Disease Control Part 1	Online Training via eTURD and WeCAN Project, Quezon City, Philippines	March 30, 2020	DOST- PCHRD
	Getting Grounded with Analytics	"Development Academy of the Philippines CourseBank"	February 27, 2020	DAP

NAME & STAFF POSITION	TITLE	VENUE	DATE	ORGANIZER
ROSARIO, Lena C. Science Research Specialist II	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020	DOST 1- GAD
	Orientation on RA 7877 (Anti-Sexual Harassment Act)	Via Microsoft Teams	December 7, 2020	DOST 1- GAD
	NRCP Regional Basic Research Caravan	Virtual NRCP Caravan	September 9, 2020	NRCP
	GMP Documentation and Sanitation SOP	Online Seminar Region 1 Inter-Agency Food Safety Team	August 6, 2020	DOST 1
	Understanding and Implementing Decision Rules in the New ISO/ IEC 17025	Webinar	August 5, 2020	Fluke Calibration
	An Overview on the Proper Selection of Personal Protective Equipment (PPE) for the Laboratory	Online Seminar via Zoom Meeting Application Software	July 28, 2020	3M Philippines/ OneLab
	Updates on the Chemical Weapons Convention (CWC): Compliance of the Philippines and other member Countries	Webinar	July 9, 2020	ITDI
	2020 Perfect Vision for Nutrition: Batang Pinoy SANA TALL amidst Covid-19	"Online Seminar DOST FNRI, Bicutan, Taguig City Plenary and Technical Session 1-7"	July 10, 2020	FNRI/ FNRI EA
	Waste Water Management for Commercial and Industrial Establishments Planning, Design, and Operations	Webinar	July 4, 2020	Jhetech, NCC BDH
	Food Defense and Threat Assessment Critical Control Point (TACCP)	Webinar via Zoom	June 25, 2020	DOST Region 2/ Philippine Commission on Women
	Online Briefing Session on Improving Food Safety and Security in a Pandemic	Webinar	June 9, 2020	Department of Trade and Industry
	Getting Grounded with Analytics	Online Course	April 23, 2020	Development Academy of the Philippines
	Food Labelling E-Learning Course	Online Course	April 22, 2020	Food Standards Agency
	The Vacuum Packing and the Modified atmosphere packing of Food	Online Course	April 9, 2020	Food Standards Agency
	ANDAYA, Venus P. Science Research Specialist I *	Orientation on RA 9262 (Anti-Violence Against Women Act) and RA 11313 (Safe Spaces Act)	Via Microsoft Teams	December 1, 2020
	Capacity Building and Workshop on News Writing	Via Microsoft Teams	October 1, 2020	DOST 1
	Skills Training on Online Communication Strategies at Work in New Normal: In and Online Tech	Via Microsoft Teams	September 24, 2020	PIA Region 1/ ARGIO1
	Halal Awareness	Online Seminar via Zoom	May 22, 2020	DOST NCR
	"The Fight Against COVID-19: Experiences from Selected ASEAN Countries Part 3: ASEAN Responses to the COVID-19 Pandemic"	Online Training via eTURD and WeCAN Project, Quezon City, Philippines	May 20, 2020	DOST- PCHRD
	Gender Issues and Impacts of Covid-19 to MSMEs	Via Microsoft Teams	October 26, 2020	DOST 1

\*Contract of Service







## DEPARTMENT OF SCIENCE AND TECHNOLOGY REGIONAL OFFICE NO. 1

DMMMSU Mid-La Union Campus  
City of San Fernando, La Union



- f** [facebook.com/dostro1](https://facebook.com/dostro1)
- 📞** (072) 888-3399  
+63.917.840.8695 | +63.998.962.0232
- 🌐** [region1.dost.gov.ph](http://region1.dost.gov.ph)
- ✉** [mail@region1.dost.gov.ph](mailto:mail@region1.dost.gov.ph)