



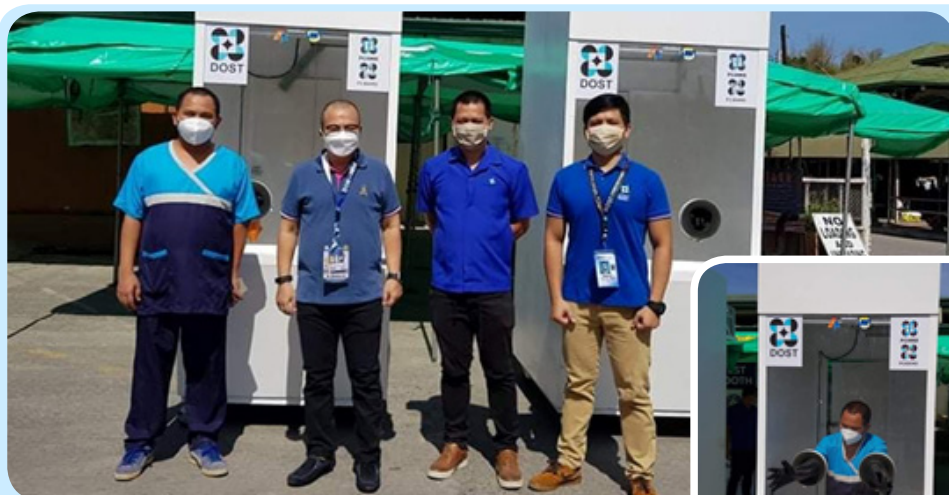
Ilocos S & T Trends



THE OFFICIAL NEWSLETTER OF THE DEPARTMENT OF SCIENCE AND TECHNOLOGY- REGIONAL OFFICE NO. 1

ENTERED AS SECOND-CLASS MAIL MATTER AT THE SAN FERNANDO CITY, LA UNION POSTAL OFFICE

COVID-19 Special Edition



Science Research Specialists Engr. Edison Acosta (2nd from right) and Michael John Maquilang deliver the Specimen Collection Booths in Ilocos Training and Regional Medical Center in San Fernando City, La Union



DOST DONATES COVID-19 SCBs TO MEDICAL INSTITUTIONS IN REGION 1

by Adrienne Margaux Q. Dolores

Through the combined efforts of the Department of Science and Technology (DOST), Philippine Council for Industry, Energy and Emerging Technology Research and Development (DOST-PCIEERD), and Philippine Council for Health Research and Development (DOST-PCHRD), Covid-19 Specimen Collection Booths (SCB) are now being delivered to various hospitals in the country with seven (7) units given to Region 1.

Of these 7, two (2) units were provided each to Region 1 Medical Center in Dagupan City in Pangasinan; Ilocos Training and Regional Medical Center in San Fernando City, La Union and Mariano Marcos Memorial Hospital & Medical Center in Batac City, Ilocos Norte. One (1) unit was given to the DOH Region 1 Center for Health and Development in La Union.

These Specimen Collection Booths were designed and made by Futuristic Aviation and Maritime Enterprise,

Inc. (FAME), a DOST-PCIEERD Start-up Grant-awardee, and has passed initial 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. Each SCB is provided with proper ventilation and a protective barrier, as well as seats, ensuring safety and comfort for both the frontliner and suspected Covid-19 patient. Its window has nitrile gloves that are constantly disinfected after every use. Disposable gloves can also be worn before wearing the SCB's gloves.

The booth has a pressure sensor that will alert the frontliner if the door was not properly closed or if there is air from the outside coming in. It also has a thermal scanner that will record the temperature of the patient. *(continued in page 8)*

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DOST I ENSURES PUBLIC SERVICE CONTINUITY AMID COVID-19 PANDEMIC

by **Adrienne Margaux Q. Dolores**

The imposed enhanced community quarantine did not stop the Department of Science and Technology Region 1 (DOST-1) from rendering #ScienceForThePeople. Despite constraints, DOST-1 has managed to make do with the resources we currently have to ensure service continuity. Each unit of DOST-1 has established a work plan for the duration of the quarantine. Part of this work plan are initiatives that cater to our targets and clients as well as our COVID-19 frontliners.

First, the Scholarship Unit has prioritized securing our scholars' stipends, depositing these to the scholars' respective bank accounts.

Second, the Small Enterprise Technology Upgrading Program's (SETUP) imposed extension in the moratorium of refund payment for its beneficiaries due to the enhanced community quarantine was duly implemented by the office. This is to help our micro, small, and medium enterprises for the losses they have incurred and continue to incur during the health crisis.



DOST-1 volunteer staff at work, delivering donations for our health workers and other frontliners

Third, the Management Information System has two members of the MIS, Enrique Rimando and Ryan Jan Borja, were also a part of the team who created RapidPassPH. This system enables frontliners to easily and quickly obtain quarantine passes to pass through checkpoints.

Lastly, the DOST-1 Regional Standards and Testing Laboratory (RSTL) has been in close collaboration with other RSTLs in fighting the war against COVID-19.

Together with the Disaster Risk Reduction Management and Provincial Science and Technology Centers (PSTCs) staff, they have spearheaded DOST-1's efforts to help and assist our uniformed personnel, health workers, local government unit employees, and other frontliners. Through the "One DOST against Covid-19" program, DOST-1 was able to donate face masks, face shields, aerosol boxes, and alcohol to various hospitals, local government units, checkpoints, and other offices that render lead services during this pandemic.

Amid this anxious and challenging time, DOST-1 remains steadfast in its commitment to serve the people. Rest assured that DOST-1 will continue to foster the spirit of Bayanihan as we strive to #BeatCOVID19 and heal as one.



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DOST I SUPPORTS COVID-19 FRONTLINERS

by John Oliver E. De Vera



DOST-1 Staff distributes PPEs to various government and private institutions



In support of the nationwide efforts to contain the pandemic Corona Virus Disease or COVID-19, and to fortify the spirit of our frontliners, the Department of Science and Technology Regional Office 1 (DOST-1) provided support to healthcare workers and emergency responders across the region through the provision of Personal Protective Equipment (PPE) on March 31, 2020.

Since the declaration of the Luzon-Wide Enhanced Community Quarantine (ECQ), various government offices and private organizations have contributed to combating COVID-19 by maximizing available resources and through convergence with stakeholders in formulating ways to address issues caused by the pandemic.

With this, DOST-1 provided and distributed a total of 81 gallons of alcohol, 3,775 pieces of reusable/washable facemasks, and 150 pieces of face shields to COVID-19 frontliners of different government and private institutions in the region such as the Ilocos Training and Regional Medical Center (ITRMC), Lorma Medical Center, Bethany Hospital Inc., La Union Medical Diagnostic Center Inc., La Union Medical Center – Agoo, Provincial Health Office of La Union, City Health Office of the City of San Fernando, Bureau of Fire Protection personnel deployed at the checkpoint along Villasis and Rosales, Pangasinan boundary, and Provincial Disaster Risk Reduction and Management Offices (PDRRMO) of La Union, Pangasinan, Ilocos Sur, and Ilocos Norte.

"We acknowledge the perseverance, efforts, and sacrifices of every individual and institution in addressing COVID-19. This is our little way of helping our frontliners (healthcare workers and emergency responders) who are at their post 24/7 battling against this pandemic COVID-19," said Dr. Armando Q. Ganai, Regional Director. He also said that through these PPEs, the chance of our frontliners in contracting the dreaded



disease from those persons with confirmed cases and/or under investigation and monitoring are eliminated or minimized.

Indeed, the Bayanihan spirit lives on in the heart and soul of every Filipino people in this challenging time. DOST-1 believes that every effort from each and everyone would create a ripple of effects; thus, DOST-1 continues to extend its unwavering support not only to researches and technologies that address the pandemic but also to all healthcare, security, media, and other frontliners during this crisis.

DOST I SCHOLARS AS ONE: WE ARE PART OF THIS BATTLE AGAINST COVID-19

by Venus P. Andaya

Big hopes and dreams continue to shatter as the current situation of the country worsen day by day. Amid this deadly pandemic, the scholars of Region 1 acted as one to deliver big smiles and hopes to the vulnerable workers fighting against Covid-19. They dubbed this region-wide project: "We Help as One Movement" in support of the program, "OneDOST against Covid-19" of the Department of Science and Technology.

Every Juan and Juana in the Philippines is struggling because of the upsurge in the number of confirmed cases infected by the corona virus. The people, including our scholars, observed the national government's directive to stay at home during the enhanced community quarantine to slow down the spread of the virus. But it still has been alarming due to limited action, and resources are at stake to fight this pandemic.

The scholars' move to support the government's initiatives is truly an inspiration and very commendable. They willingly donated part of their stipend to benefit other people. In Region 1, there are one hundred forty-seven (147) volunteer-scholars. Thirty-three (33) are from Pangasinan, twenty-six (26) from La Union, fifty-three (53) from Ilocos Sur, and thirty-three (33) from Ilocos Norte. Most of them are members of DOST-SEI Scholars' Association in Pangasinan State University (PSU)-Bayambang Campus, Don Mariano Marcos Memorial State University (DMMMSU), Mariano Marcos State University (MMSU), and University of Northern Philippines (UNP).

In Ilocos Norte, beneficiaries were 50 MMSU students from other municipalities and provinces who were stranded at the time of declaration of ECQ were given food packs.

In Pangasinan, the scholars partnered with PSU-DOST-1 Food Innovation Center in producing healthy food packs for the PUIs and PUMs in LGU-Bayambang, Pangasinan.

For La Union, scholars distributed snacks for front liners in selected hospitals namely, Lorma Medical Center, Ilocos Training and Regional Medical Center (ITRMC), and Bethany Hospital, as well as checkpoints in the City of San Fernando, La Union. (continued in page 5)
(from DOST-1 Scholars...page 4) The scholars also partnered with the Agoo Tourism-related Establishments Association (ATREA) regarding their project: Padigo para ti Kailian Tayo where cash donations for snacks were provided to 2 barangays in Agoo that are in total lockdown. (continued in page 5)



DOST scholars launches "We Help as One Movement", delivering food packs to frontliners in their respective provinces.

DOST I DISTRIBUTED FOOD PACKS IN LA UNION

by **Adrienne Margaux Q. Dolores**

The Department of Science and Technology Region 1 (DOST-1) has once again extended its help to its constituents by donating 240 food packs to 80 families with infants and young children in La Union.

Each food pack is composed of 10 pieces of Go&Grow Micronutrient Mix, 5 pieces of Rimo Instant Blend, 4 pieces of Rimo Instant Blend Dry Cereal, and 1 piece of Rimo Curls.

Nutridense Food Manufacturing Corporation, from Sta. Barbara, Pangasinan, produces these food products which are innovative complementary food made to eradicate malnutrition, micronutrient deficiencies, and obesity. Go&Grow Micronutrient Mix is one food-based strategy developed by the DOST Food and Nutrition Research Institute (DOST-FNRI). It is a powder mix that contains Zinc, Iron, Iodine, Calcium, Vitamin A, and Folic Acid. Rimo Instant Blend and Rimo Instant Blend Dry Cereal is a mixture of Rice and Mongo and is ready-to-eat just by adding hot water. Lastly, Rimo Curls is a snack made from rice and mongo flour.

In this time of pandemic, DOST-1 continues to give utmost importance to the nutritional needs of families, especially infants and children thus, we carefully choose food donations that we know will benefit the province's vulnerable sector greatly. Rest assured that DOST-1 will continue to be in support of everyone until we beat Covid-19 and heal as one.



(from *SETUP Cooperator...page 4*) Lastly, the scholars from Ilocos Sur provided snacks and gloves to the following: Ilocos Sur Provincial Hospital, Northside Doctors Hospital, University of Northern Philippines – Guardhouse, Checkpoint at Barangay Pangada in Sta. Catalina, and Checkpoint at Vigan Welcome Arch.

Other current scholars and scholar-graduates who could not travel and join the project of their association opted to render their service and contribution to their barangays. Many of them assisted in providing snacks to the front liners, distributed groceries to the most impoverished families in their places, helped in preparing food, assisted in repacking relief goods, assisted in the formulation of Nipa Alcohol to be distributed to front liners, served as data encoders, assisted as DRRM support, were part of the monitoring team, assisted in the barangay checkpoints, and served as front liners themselves.

Despite the alarming situation in the region, the ripple of kindness and care to other people is evident among the DOST scholars. A true DOST scholar is not just merely a scholar of the nation but a scholar with a purpose – helping in the promotion of goodwill and camaraderie among people in need. With their slogan, “Together, we will fight as one, heal as one”, the DOST-SEI scholars will continue to inspire and help during the Covid-19 crisis for the betterment of our region.



DOST Provincial Science and Technology Centers spearhead the delivery of goods from SETUP cooperators.



SETUP COOPERATOR CONTRIBUTES IN INITIATIVES FOR FRONTLINERS

by **Adrienne Margaux Q. Dolores**

As a regional arm of the Department of Science and Technology, we are mandated to render services that will promote higher productivity and better quality of life for Filipinos through science and technology. We have committed ourselves to utilize our S&T resources to carry out programs and projects that will help us realize our goals.

As we are faced with the COVID-19 pandemic, we remain dedicated to our mission and vision. With the help of our cooperators from the Small Enterprise Technology Upgrading Program (SETUP), we have successfully assisted and provided assistance to our frontliners.

Since the start of the enhanced community quarantine, our Provincial Science and Technology Centers have coordinated with our SETUP cooperators to purchase food products that are distributed to frontliners from various sectors in the region.

In the Ilocos region, Bakers' PH has produced 350 food packs and was distributed by DOST-1 to the Provincial Government of Ilocos Norte frontliners (PDRMO Office), City Government of Laoag and City Government of Batac frontliners. Bakers' PH also donated a total amount of 2740 food packs; Laoag Engineering and Graphics Designs has donated 200 grocery packs, and 900 pieces of face masks; FAB Printline has donated 1,750 pieces of face mask and 450 t-shirts; and NGT Wellness Center has donated 3,840 bottles of their Dok Honey's Tibicos products. All donations benefitted various frontliners in Ilocos Norte.

In La Union, Jaypee's Bakeshop, Valentino's Cake Boutique, RRV Delicacy, and Food Products, Mavy's Native Cakes and Delicacies, and Adong Pande Monay Bakery have produced food packs which include linatikan, royal bibingka, classic donut, yema cake, camote chips, and bottled water. These were given to various uniformed personnel, health workers, and LGU employees in major

checkpoints of Bacnotan and City of San Fernando, La Union.

In La Union, Jaypee's Bakeshop, Valentino's Cake Boutique, RRV Delicacy, and Food Products, Mavy's Native Cakes and Delicacies, and Adong Pande Monay Bakery have produced food packs which include linatikan, royal bibingka, classic donut, yema cake, camote chips, and bottled water. These were given to various uniformed personnel, health workers, and LGU employees in major checkpoints of Bacnotan and City of San Fernando, La Union.

In Pangasinan, Beltrans Foods and Delicacies, C&S Food Products, Blessed Hand Food Products and Elisha Bay Dagupan Bangus and Seafoods produced a total of 13 boxes of bottled water, 300 jars of peanut, 300 packs of brownies bite-size, 300 packs of turmeric tea, and 300 bottles of bottled Bangus to health workers at Pangasinan Provincial Hospital, uniformed personnel at PNP-Lingayen, PNP-Dagupan City and PNP-Urdaneta City as well as to Barangay frontliners at Brgy. Libsong West in Lingayen, Brgy. Caloocan Sur in Binmaley, Brgy. Gabon in Calasiao and Brgy. San Vicente in Urdaneta City. Furthermore, Nutridense Manufacturing Food Corporation has produced its nutritious complementary food distributed to several local government units, national government agencies, and business establishments. They have also donated multivitamin syrups and drops to various sectors in Sta. Barbara, Pangasinan, and the City Government of Taguig through the DOST Food and Nutrition Research Institute (DOST-FNRI).

We take pride in all of our SETUP cooperators for all of their equally valuable contributions in this challenging time. We sincerely appreciate how they have wholeheartedly given their time and effort to produce goods and even donate their own share, despite the unfortunate circumstances. Through our continuous combined efforts, we are positive that we will be able to heal as one.

NUTRIDENSE SUPPLIES COMPLEMENTARY FOOD FOR FAMILIES

by **Adrienne Margaux Q. Dolores**



Nutridense Food Manufacturing Corporation maintains operations to produce complementary food products delivered to various local government units. They have also donated multivitamin syrups and drops to various barangays in Sta. Barbara, Pangasinan.

The Department of Science and Technology Regional Office No. 1 (DOST-1) has always taken pride of its partners who share the same vision and mission of promoting higher productivity and better quality of life for the people through Science and Technology.

In this time of crisis, as the country is faced with the pandemic, DOST-1 is indeed blessed to have cooperators who in their ways have contributed to helping and assisting our frontliners, local government units, and other organizations.

Nutridense Food Manufacturing Corporation, a longtime cooperator of DOST-1 represented by Mr. and Mrs. Racky Doctor, is a licensed food and nutrition company in Sta. Barbara, Pangasinan. Nutridense is known for its nutritious, complementary foods that are used in feeding programs as well as in emergencies. Nutridense's products are targeted at eradicating malnutrition and promoting healthy food options for older infants, children and adults.

To address the on-going need to provide food for the people, Nutridense has continued its operations amidst the pandemic and has delivered a total of 99, 324 pieces of Fortified Rimo Blend, and 89, 254 pieces of Fortified Rimo Curls to various sectors. Fortified Rimo Blend is a rice-mongo instant baby cereal for supplemental feeding on children while Fortified Rimo Curls is a rice-mongo ready-to-eat snack disguised as "junk food" for supplementary feeding for children.

These are supplied to the local government units of San Carlos, Alaminos, and Burgos, Pangasinan; Candon City, Ilocos Sur; La Trinidad, Benguet; Tabuk City, Kalinga; Banton, Romblon; Lupi, Camarines Sur; and Sta. Cruz, Marinduque as well as to the Department of Health Region 1, Gervy's Trading in the City of San Fernando, La Union, Project Hero of the University of Santo Tomas, and Valuable Merchandising in Quezon City.

The corporation has also provided donations of multivitamins syrups and drops to the Municipal Government of Sta. Barbara, Pangasinan; Assembly of God in Sta. Barbara, Pangasinan; Barangays Minian West and Sonquil, Sta. Barbara, Pangasinan; Nutridense Food Employees; and the City Government of Taguig through the DOST Food and Nutrition Research Institute (DOST-FNRI).

Even with the already huge help and donations from the corporation, Nutridense shall continue their skeletal operations to carry on with their production and delivery of nutritious complementary food products for the people, most especially children.

DOST-1, together with its partner organizations, continue to be one with the frontliners and the people as we heal as one and beat COVID-19. Rest assured that DOST remains steadfast in proactively carrying out initiatives and tapping partners to help address the pandemic.

(from DOST Donates...page1)

The test will be administered by having a patient sit in front of the booth as the frontliner collect the sample by swabbing the patient's nose and throat using the nitrile gloves built in the booth. The sample will then be given to accredited laboratories for diagnosis.

FAME's design of the SCB is available for fabricators who wish to fabricate the same for hospitals and other health institutions in their areas.

DOST Secretary Fortunato T. De La Peña said during the Virtual Presser last April 27, 2020 that other manufacturers interested to reproduce the SCBs are welcome to do so, provided that they adhere to the specifications set by PCIEERD and PCHRD. Anyone interested to contribute and collaborate for this cause may coordinate directly with the nearest DOST office in their area. The design is also available for free download through this link: <http://pcieerd.dost.gov.ph/library/fame-design>.

DOST-1's commitment to elevating the Filipino's quality of life through Science and Technology continues, especially now that we are met with the Covid-19 crisis. DOST shall maintain its steadfast support for research, innovations, and development that will address pressing issues of our country. Furthermore, DOST remains supportive of our front liners who work tirelessly to ensure our safety, comfort, and over-all well-being, thanks to their sacrifices. These SCBs

DOST, LA UNION (HOST) LION'S CLUB DONATES INTUBATION HOODS IN LA UNION

by John Benedict C. Marasigan



In response to the urgent needs of front line workers who are risking their lives to #BeatCoVID-19, the Department of Science and Technology Regional Office No. 1 (DOST-1), through the Provincial Science and Technology Center – La Union (PSTC-LU) distributed 16 units of intubation hoods in partnership with the La Union (Host) Lion's Club to various district hospitals and medical centers in the province of La Union.

Ms. Norma Tolentino, sanitary inspector of the Provincial Health Office of La Union expressed the provincial government's heartfelt gratitude and appreciation to DOST-1 during the awarding of the said donation.

The DOST-1 is one with the nation in fighting this pandemic and will continue to provide support for our frontline workers.



DOST-1 through Regional Director Armando Q. Ganai partners with La Union (Host) Lion's Club in providing intubation hoods to various hospitals in the province of La Union.



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