

## **FABLAB BOHOL MAKES FACE SHIELDS FOR MEDICAL FRONTLINERS**

*[Published at Department of Trade and Industry – Bohol Facebook Page, 3/24/20]*

In an attempt to help combat the spread of the coronavirus (COVID-19) in the province, FabLab Bohol develops and produces face shields for Bohol frontliners at the Gov. Celestino Gallares Memorial Regional Hospital in Tagbilaran City and in other areas.

The initial move to develop face shields was in direct response to the scarcity of Personal Protective Equipment (PPEs) among hospitals, which is currently seen as major threat to the health and safety of medical practitioners attending to COVID cases in the country.

The first prototypes were presented to doctors at the GCGMRH together with BISU Tagbilaran yesterday and after some modifications in both aesthetic and ease of use, mass production is now ongoing and will soon be out for use and without cost, by medical practitioners and other frontliners in the province.

Jerome Manatad, FabLab Bohol Technical Manager, says that with the new and improved production process, “a single face shield can be done in less than 5 minutes.”

With close to ten volunteers from various sectors, BISU FabLab, GCGMRH and DTI Bohol have teamed up early this week to develop about 2,000 face shields with the aid of a 3D Printer and a Laser Cutter, all housed at the FabLab.

FabLab Bohol is the country’s first fabrication laboratory established with funding support from JICA, DTI, DOST and BISU Tagbilaran.

If you wish to help, FabLab Bohol accepts donations for Acrylic Plastic (4.5 mm thickness and Acetate Plastic roll or PVC (long size). – VCLigan, DTI Bohol



## More face shields for medical frontliners being made in FabLab Bohol

By: Irene R. Sino Cruz - CDN Digital | March 25, 2020 - 11:48 AM

CEBU CITY, Philippines—The first fabrication laboratory (FabLab) established in the Philippines has joined efforts to provide face shields, this time for the frontliners at the Gov. Celestino Gallares Memorial Regional Hospital (GCGMH) in Tagbilaran City, Bohol and in other areas.

The FabLab Bohol located at the Bohol Island State University (BISU) has turned over the first 100 face shields to GCGMH to be used as personal protective equipment (PPE) for the hospital front liners against the Coronavirus Disease 2019 (Covid-19).

In a post on her Facebook account, Vierna Teresa Ligan, Department of Trade and Industry (DTI) Bohol information officer, disclosed that the FabLab Bohol and BISU Tagbilaran first presented the first prototypes to the GCGMRH doctors. After some modifications in both aesthetic and ease of use, mass production is ongoing at FabLab Bohol.

Jerome Manatad, FabLab Bohol technical manager, explained that “a single face shield can be done in less than five minutes” with the new and improved production process.

With close to ten volunteers from various sectors, BISU FabLab, GCGMRH and DTI Bohol have teamed up early this week to develop about 2,000 face shields with the aid of a 3D Printer and a Laser Cutter, all housed at the FabLab.

FabLab Bohol helps entrepreneurs and individuals to come up with product innovation through design consultation, digital fabrication and rapid prototyping services. For example, it has produced a 3D-printed prototype of a turbine engine.

It also provides training for entrepreneurs, makers, students and teachers in various courses such as 2D and 3D design, electronics and programming, machine making, product design and digital fabrication, among others.

Inaugurated on May 2, 2014, FabLab Bohol was established with funding support from DTI, BISU, the Department of Science and Technology and Japan International Cooperating Agency. /bmjo



## **BISU Fablab turns over Anti-COVID face shields For medical front liners**

*[Published in Bohol Island News, March 25, 2020]*

TAGBILARAN CITY, Bohol, March 25, (PIA)—Bohol Island State University and its Fabrication Laboratory (FABLAB) hands in its first batch of laser cut acrylic plastic face shields for use by frontline medical professionals in the battle against the dreaded coronavirus disease (COVID-19) March 25, at 2:00 PM inside the Fablab here in Tagbilaran City.

BISU, represented by its SUC President Dr Regucivilla Pobar, Dr. Zina D. Sayson and their Public Relations office Bernarda Villarojo, as well as Fablab center chief Jerome Manatad turned over the first batch of 100 face shields to resident physicians of Governor Celestino Gallares Memorial Hospital (GCGMH) which the state university put up to help the medical professionals in the front lines get the much needed protection from the virus.

Also in the turn-over were Provincial Disaster Risk reduction management Officer Anthony Damalerio and other BISU officials.

With the novel COVID-19 attacking the respiratory system, the virus is transmitted when droplets from an infected person coughs or sneezes travels and gets to one's face, or are brought up when one touches his face, this brings the virus closer to the respiratory tracts.

That is when the person's trouble starts.

Made from laser-cut acrylic plastic and acetate, the face shield from FABLAB Bohol within BISU complex is the first industrial prototype set for mass production from developed from four early development prototypes, said FabLab Manager Manatad. He added that from BISU Bohol Fablab, the prototype would also be used by all Fablab across the country, in the production of virus protection measures for frontliners.

The shield, in the form of an acetate which can be easily disinfected, is attached to a backbone of laser cut plastic acrylic.

The initial product developed prototypes were digitally printed and it took them a long time to make. Then they realized cutting an acrylic plastic into the computer designed headband is less costly and takes even a lesser time, adds Jerome Gabin of the local Department of Trade and Industry Bohol (DTI-Bohol) Shared Service Facility (SSF) coordinator, of which the Fablab is among them.

The mass produced face shields, now produced by five FabLab volunteers cost a little over a hundred, and they can make about 72 pieces of it from a single sheet of acrylic plastic as backbone for the shield, Dr. Sayson said. BISU and FabLab each pooled resources and went into product development and prototype building until they perfected the less costly and faster to produce facial protection of medical professionals.

With production now in full steam, BISU Fablab is already taking requests for the face-shields.

That same day, BISU-Fablab also turned over 30 face shields for Clarin Community Hospital, while in their bulletin board are requests from Maribojoc Community Hospital, Bilar RH Center, Saint Jude Hospital, ACE Medical Center, Maternity Hospital, Civil Service Commission, RHU Cortes, BISU Clinic, BISU guard, Don



Emilio del Valle Hospital, Ramiro Community Hospital, RHU Lila, RHU Talibon, RHU San Miguel, City DRRMO and PCCCED.

In the next batch, DTI Bohol is sourcing out the few acrylic plastic available, the material which would hold the acetate shield.

DTI, along with donations from well-meaning citizens envision to produce more face shields, even as Manated said there is no intent on selling these shields.

With social distancing measures implemented, Manatad said they would just keep their volunteers to the minimum, to make sure it is easy to space them out, especially when materials for the shield are also dwindling. In times of crisis where face masks are also not easy to secure, volunteers like FabLab and donations or people can maybe cause people to feel the ease knowing there is a government that cares for them. (rahchiu/PIA-7/Bohol)

## SAMPLE POSTS AT FABLAB BOHOL FACEBOOK PAGE

 **Fablab Bohol** added 3 new photos to the album: FABLAB BOHOL FIGHT AGAINST COVID-19. 1 hr · 🌐

Today, Fablab Bohol team turn over 200 face shields to First District Congressman Edgar M. Chatto with BISU President Regucivilla Pobar, Vice President Zina Sayson and DTI Bohol Provincial Director Marisol Laxa- Balistoy.

#DesignCreateInspire  
#FABLABBOHOL  
#FightAgainstCOVID19





**Fablab Bohol** added a new photo to the album: **FABLAB BOHOL** ...  
**FIGHT AGAINST COVID-19.**

2 hrs · 🌐

25 Face Shields for DRRM Catigbian

Thanks to all our Partners, Sponsors and volunteers.

#FABLABBOHOL

#DesignCreateInspire

#FightAgainstCOVID19





**Fablab Bohol** added a new photo to the album: FABLAB BOHOL ...  
FIGHT AGAINST COVID-19.

2 hrs · 🌐

40 Face Shields for RHU Talibon

Thanks to all our Partners, Sponsors and Volunteers!

Mabuhay!

#FABLABBOHOL

#DesignCreateInspire

#FightAgainstCOVID19





**Fablab Bohol** added 2 new photos to the album: **FABLAB BOHOL FIGHT AGAINST COVID-19.**



2 hrs · 🌐

15 Face Shields for our BFP personnel as frontliners through performing as duty guards in the quarantine control points for COVID 19 of the municipality of Dauis.

Thanks to all our Partners, Sponsors and volunteers!

#FABLABBOHOL... [See More](#)







**Fablab Bohol** added 3 new photos to the album: **FABLAB BOHOL FIGHT AGAINST COVID-19.**

...

3 hrs · 🌐

27 Face Shields today has been delivered to Borja Family Hospital-Lab  
Fablab Bohol is always thankful to our supportive community, partners,  
sponsors and volunteers!

Mabuhay po kayong lahat! Maraming Salamat po!... [See More](#)





**Fablab Bohol** added 4 new photos to the album: FABLAB BOHOL FIGHT AGAINST COVID-19.



7 hrs · 🌐

60 Face Shields has been delivered yesterday at Francisco Dagohoy Municipal Hospital Inabanga.

Thanks to all our partners, sponsors and volunteers.

#FABLABBOHOL... See More





Fablab Bohol added a new photo to the album: FABLAB BOHOL ...  
FIGHT AGAINST COVID-19.

20 hrs · 🌐

March 31, 2020

275 Face Shields today has been conveyed to our Municipal Hospitals, RHU's and Skeletal Work Force Frontliners.

Fablab Bohol is always thankful to our supportive community, partners, sponsors and volunteers!

Mabuhay po kayong lahat! Maraming Salamat po!

#FABLABBOHOL

#FightAgainstCOVID19

#DesignCreateInspire

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FIGHT AGAINST  
**COVID 19**  
3.31.2020

**275**

**FACE SHIELDS**

BEING DONATED TODAY  
TO THE FRONTLINERS OF:

Garcia Memorial Provincial Hospital Talibon	RHU Talibon
Don Emilio Del Valle Memorial Hospital Ubay	RHU Loay
Maternity and Children's Hospital	RHU Lila
Francisco Dagohoy Municipal Hospital Inabanga	DRRM Catigbian
	Bureau of Fire Protection
	Davao Fire Station

#FIGHTCOVID19 #HELPPRONTLINERS #FIGHTCOVID19 #HELPPRONTLINERS

