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# 1. Project outline and procedures: Project outline

- In November 2020, the United Nations Industrial Development Organization (UNIDO) adopted 13 Japanese companies with useful technology projects to support for controlling new coronavirus infections (COVID-19) and various infectious diseases in developing countries
- This project supports Japanese companies to disseminate technologies for improving the health and hygiene environment in a total of 12 countries in Asia and Africa.

<b>INDIA</b> COMPANY • ITOPO CO., LTD. TECHNOLOGY • Water regeneration system	<b>INDONESIA</b> COMPANY • SOLAR WASH TECHNOLOGY INC. TECHNOLOGY • Spray showers with large disinfectant	<b>KENYA</b> COMPANY • ENGET SANGORI CO., LTD. • HIRAGOTO SANGORI CO., LTD. • TOP SANGI INC. TECHNOLOGY • Continuous processing for medical waste • Medical waste handling with ultraviolet light • Medical inspection system with solar sensors	<b>MADAGASCAR</b> COMPANY • CHUAMA INDUSTRIAL CO., LTD. TECHNOLOGY • Incubator for eggs of water	<b>MONGOLIA</b> COMPANY • JIABUYO SANGORI CO., LTD. TECHNOLOGY • Photocatalytic coating with ultraviolet light
<b>MOROCCO</b> COMPANY • ITOPO SANGYO CO., LTD. TECHNOLOGY • Domestic wastewater treatment system	<b>MYANMAR</b> COMPANY • NIPPON CHEMICAL INDUSTRY SOLUTIONS CO., LTD. TECHNOLOGY • Waste purification unit for hospitals	<b>NEPAL</b> COMPANY • SANGORI SANGORI CO., LTD. TECHNOLOGY • Photocatalytic coating with antibacterial effect	<b>NIGERIA</b> COMPANY • TOYO MEDICAL CO., LTD. TECHNOLOGY • Blood test analyzer	<b>SENEGAL</b> COMPANY • TOYO INDUSTRIAL CO., LTD. • TERUYA-TEI CO., LTD. TECHNOLOGY • Incubator for medical waste • Hydro-Monica acid water generator
<b>UGANDA</b> COMPANY • SHIMIZU CO., LTD. TECHNOLOGY • Mass production of alcohol-based hand rubs and hygiene education	<b>VIET NAM</b> COMPANY • HIC, INC. • TERUYA CO., LTD. TECHNOLOGY • Hypochlorous acid water generator • Water-purifying system			



## 2. Equipment installation and acceptance (08 Feb, 2021)



Online installation



Preparation of drain



Extra pump



Prepare for operation

## 2. Equipment installation and acceptance (Jan -Feb 2021)

After installed the equipment, we check each equipment to confirm their operation normally or not.

Equipment No Test items	Standard	096	097	099	100
Production capacity	1.28—1.90	OK	OK	OK	OK
Effective chlorine concentration	>80	98	91	97	107
pH	2.7-6.5	5.5	5.0	6.0	6.0
Softening of supplying water	<1mg/L	OK	OK	OK	OK
Electrolytic voltage	<10.5	4.6	4.7	4.3	4.9
Electrolytic	9.5	8.8	9.0	8.7	9.5
Water leak	None	OK	OK	OK	OK
Other	None	OK	OK	OK	OK

# 3. Training

## (1) Explanation of electrolyzed water

- ① Materials used
- ② Unit configuration
- ③ Acidic electrolyzed water
- ④ Bactericidal effect

## (2) How to use the equipment

- ① How to operate
- ② Inspection
- ③ Precautions

## (3) Hygiene management

- ① Bactericidal effect and cleaning degree
- ② Cleaning degree management (cleaning degree management by ATP inspection) .
- ③ Implementation of live bacteria test

### 3.Training (25 Feb, 2021)



Water softening check



effective chlorine concentration test



Operation confirmation



Check pH

# Staff training for testing and checking

## Textbook for staff training

Explanation of electrolyzed water (sterilization effect, etc.)



Explanation of electrolyzed water generator



Explanation for obtaining an appropriate sterilization effect



Explanation of hygiene management by ATP inspection





## 4. Monitoring (Equipment)

### ( 1 )Aquapulita operation status

Equipment No Test items	Standard	096	097	099	100
Production capacity	1.28—1.90	○/○	○/○	○/○	○/○
Effective chlorine concentration	>80	○/○	○/○	○/○	○/○
pH	2.7-6.5	○/○	○/○	○/○	○/○
Softening of supplying water	<1mg/L	○/○	○/○	○/○	○/○
Electrolytic voltage	<10.5	○/○	○/○	○/○	○/○
Electrolytic	9.5	○/○	○/○	○/○	○/○
Water leak	None	○/○	○/○	○/○	○/○
Other	None	○/○	○/○	○/○	○/○

## Hoa Vang hospital is using the equipment effectively!

