

## PROJECT TITLE

### Design and Prototyping of Salt-Processing Equipment

The salt-making industry was once a vibrant industry in the Philippines. However, it has since been crippled by the country's vulnerability to climate change and lack of technology that will boost the productivity and improve the quality of locally produced salt. To address the problem, the Industrial Technology Development Institute of the Department of Science and Technology (DOST-ITDI) is offering an improved solar salt production process using brine management and developed fabricated equipment that will help processors to comply with the standards mandated in the Republic Act No. 8172 also known as An Act for Salt Iodization Nationwide (ASIN) Law.



## TECHNICAL SERVICES

- ⚙️ Technical Assistance for Improved Solar and Cooked Salt Production
- ⚙️ Brine Management for Salt Production
- ⚙️ Design & Fabrication of Equipment
  - Evaporating Setup
  - Salt Washer
  - Spin Dryer
  - Salt Iodizer
- ⚙️ Capacity Building for Internal Quality Assurance / Quality Control
- ⚙️ Calibration and Training on the Use of WYD Iodine Checker
- ⚙️ Preparation of WYD Test Reagents

A PROJECT OF:



Industrial Technology Development Institute (ITDI) and  
Philippine Council for Industry, Energy, and Emerging  
Technology Research and Development (PCIEERD)  
of the Department of Science and Technology  
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**"OUR BUSINESS IS INDUSTRY..."**

# I-SALT

## DOST-ITDI

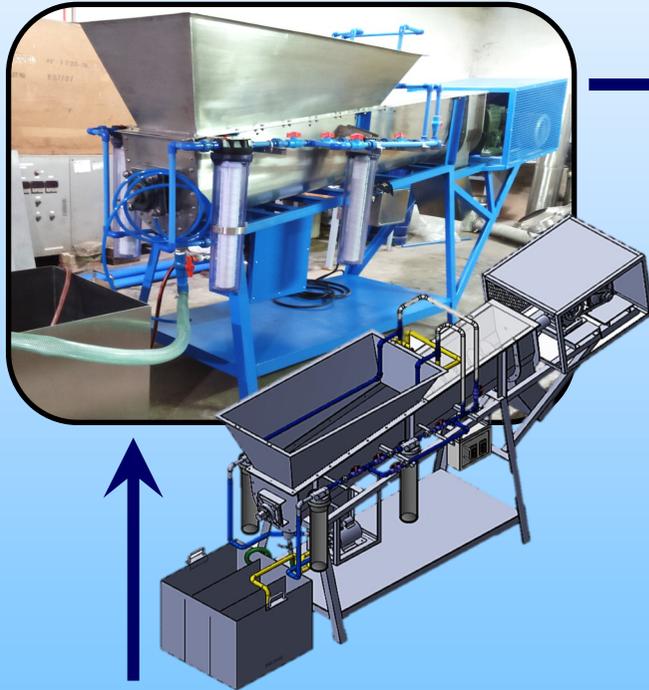
*Improved Salt  
Processing Technology*



# I-SALT: IMPROVING PRODUCTIVITY AND EFFICIENCY OF LOCAL SALT PRODUCERS TOWARDS A SELF-RELIANT PHILIPPINES

## Salt Washer

The salt washer is designed to increase the purity of salt to at least 97% (dry weight) as required by RA 8172. It can be operated continuously at 1250 kg/hr. It utilizes a saturated brine as washing medium which can be filtered and recycled back to the unit for reuse.



**HARVESTED SALT**

### IMPLEMENTING AGENCY

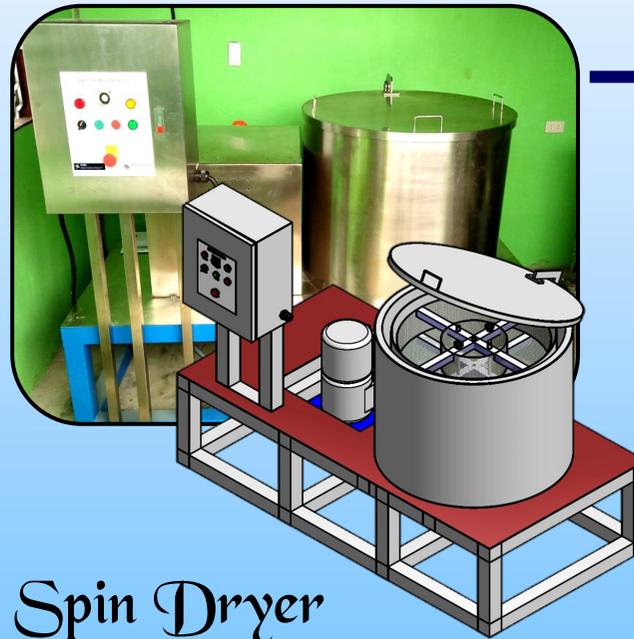


Industrial Technology  
Development Institute

### FUNDING AGENCY



Philippine Council for Industry,  
Energy, and Emerging Technology  
Research and Development



## Spin Dryer

The spin dryer is designed to reduce the moisture content of salt to less than 8% as mandated by the law. It can process up to 75 kg/batch. In contrary to the traditional dripping and sun drying, this equipment will allow manufacturers to process salt even in humid and rainy conditions.

## Salt Iodizer

The ITDI-modified salt iodizer is designed to allow processors to uniformly infuse salt with iodine in the range of 30 to 70 ppm as required by Food and Drug Administration. It is a portable screw-type machine which can be operated continuously with capacity of 750 kg/hr.



**IODIZED SALT PRODUCT**