

DOST TNA Form 01

APPLICATION FOR TECHNOLOGY NEEDS ASSESSMENT

Name of Enterprise: Occidental Mindoro State College (OMSC)		
Contact Person: Michelle D. Enriquez	Position: Associate Professor II/ Dean College of Engineering	
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	E-mail Address:	
Website:		

GENERAL AGREEMENTS:


- 1. The applicant shall, at the earliest opportunity, make available to the DOST Regional Office No. IVB-MIMAROPA all information (manuals, procedures, etc.) required to establish the technology status of the selected core business functions and management systems;**
- 2. If DOST IVB-MIMAROPA is not satisfied that all the requirements for business registration are complied with, it shall inform the applicant of the observed deficiencies before starting the assessment;**
- 3. When the required inputs to the assessment are already supplied by the applicant, including Attachment A, the DOST IVB-MIMAROPA will assess the firm through the core business functions and management systems, whichever is applicable to identify technology needs and verify compliance to standards vis-à-vis existing practices;**
- 4. When the DOST IVB-MIMAROPA has completed the technology assessment, a report will be prepared on the results of the assessment with accompanying recommendations and opportunities for improvement. The report prepared will define the scope of activities, functions, management practices and locations assessed. The applicant shall not**

claim or otherwise imply that the report applies to other locations, product or activities not covered by the report;

5. The applicant agrees that the report will not be used until permission has been granted by the DOST IVB-MIMAROPA;
6. The applicant agrees that the receipt and acceptance or acknowledgment of the report ends the assessment stage; any technical assistance ensuing from the recommendations of the report will be viewed as a separate project.

UNDERTAKING

I agree to undertake and observe the above General Agreements as stipulated by the Department of Science and Technology Regional Office No. IV-B-MIMAROPA.


MICHELLE D. ENRIQUEZ
September 14, 2023
Date

Enterprise Profile

Name of Enterprise **Occidental Mindoro State College (OMSC)**

Production of Site/Location San Jose, Occidental Mindoro

CDA Registration : NA Year Registered NA

Brief Background:

Based on the 2021-2026 Philippine Salt Industry Roadmap, Occidental Mindoro is considered as the largest salt producer in the country contributing to approximately 65, 000 MT for 876 ha annually (Khongun, 2020). But a factor affecting the salt production in the province causes the decline and placed the salt industry in a thriving situation. The changing climate conditions, environmental factors, declining labor workforce and availability of materials for salt beds are considered as the major players triggering the reputation of the province in salt industry. Most of the salt ponds in the province still uses the traditional evaporation ponds with salt beds made up of tiles laid purposely to store the salt water, and provides an area for crystallization to occur and where harvesting of salt crystals took place. Clay tiles prevent the salt from coming into contact with the soil and avoid the intrusion of impurities in the white crystals. Therefore, salt bed tiles are vital components of salt farms that need to be examined to determine its capability to yield maximum production and good quality. Salt beds tiles or commonly known as “tisa” is a product of an oven-dried or kiln dried clay. At present there are almost 35, 000 salt beds in the province (TAMACO, 2023). Most of the clay tiles were from Ilocos Region but the province is now facing insufficient sources of raw materials: Vigan clay and the woods for kiln and as triggered by the shifting of traditional pottery to plastic technology. These problems were felt by the local salt producers as Vigan tiles are gradually disappearing. At most, 750 kilos of tiles is needed for a new salt bed; and an average of 2-3% for every three years tile replacement. But the availability of the kiln and furnaces are limited in the province and feedback from the users of local tiles stated weak property of the clay tiles to resist the salt intrusion and tend to pulverize in a small period of time. As the salt industry embraces the development of technology to optimize the salt production processes, one possible solution is the development of a fuel-efficient kiln to sustain the needs for salt bed tiles. This prompted the development of the proposed fuel-efficient cross-draft kiln that can offer an automated system considering the uniform heat distribution and optimum production capacity.

Year enterprise was established: NA

Initial capitalization: NA

Type of Organization: ☐ Single Proprietorship
☐ Cooperative/Association
☐ Partnership
☒ LGU/SUC
☐ Profit
☒ Non-Profit

Enterprise Registration No: NA Year Registered : NA

Classification according to capital Present Capitalization _____

☐ Micro (less than 1.5 M)
☐ Small (1.5 – 15 M)
☐ Medium (15- 100 M)

Classification according to employment (number of employees)

☐ Micro (1-9)
☐ Small (10-99)
☐ Medium (100-199)

Number of Employees:

Direct Workers NA
 Production _____
 Non-production _____
Indirect/Contract Workers _____
Total _____

Business Activity:

- ☐ Food processing (please specify specific sector) _____
- ☐ Furniture (please specify specific sector) _____
- ☐ Natural fibers, gifts and home decors and fashion accessories
(please specify specific sector)
- ☐ Metal and engineering (please specify specific sector) _____
- ☐ Aquatic and marine resources (please specify specific sector)
- ☒ Horticulture/Agriculture (please specify specific sector) Salt bed tiles
- ☐ Others, please specify _____

1. Specific product or service the enterprise offers its customers:

Salt Bed Tiles

2. Reason why assistance is being sought:

The technology offers cooperative-member salt farmers an innovative method for producing salt bed tiles, which can reduce material costs, increase their income, and provide greater access to technical services.

3. Have you consulted any other individual/organization/Agency on any assistance?

☐ Yes, from what company/ agency

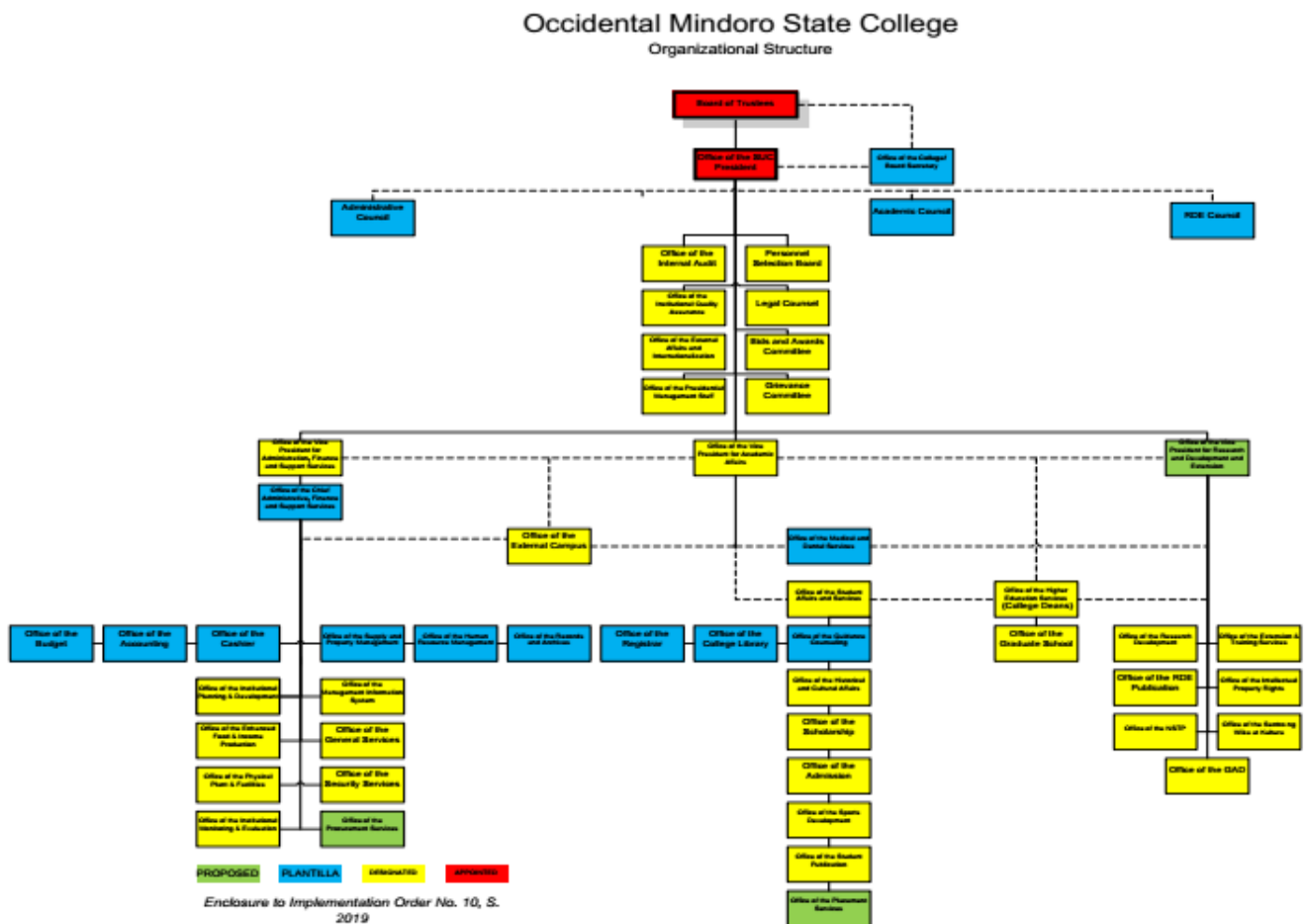
Please specify the type of assistance sought

☒ No, why not

Other agencies don't have a program addressing R&D on salt bed tiles production in relation to the study.

4. The Agency plan for the next 5 years?

5. Next 10 years?



BENCHMARK INFORMATION

▪ Production and Supply Chain

➤ Raw Material

Operating Cost Components	Source	Unit Cost	Value Used/Year
N/A			

➤ Production/services

Product	Annual Production Volume	Unit Selling Price (PhP)	Annual Cost of Production (Php)
N/A			

➤ Production/Service Equipment

Type of Equipment	Specification	Capacity
None		

➤ Problems and Concerns

- Technology needs for adoption and optimization

➤ Production Waste Management System

None

➤ Production Plan

Training is needed for the equipment maintenance for the equipment's

➤ Production Lay-Out

NA

➤ Process Flow

NA

➤ Inventory System

No Current Inventory System

➤ Maintenance Program

The maintenance program will be established upon the conduct of the study.

➤ CGMP/HACCP Activities

NA

➤ Supplies/Purchasing System

NA

➤ Marketing Plan

Product will be promoted and sell to the members of the TAMACO

➤ Market Outlets and Number

TAMACO office

➤ Promotional Strategies

Technology can be promoted through word of mouth during cooperative meetings and by utilizing social media platforms to reach a wider audience.

➤ Market Competition

None

Packaging

○ Nutrition Evaluation	_____ N/A _____
○ Bar Code	_____ N/A _____
○ Product Label	_____ N/A _____
○ Expiry Date	_____ N/A _____

▪ Finance

➤ Cash Flow or other related documents

Following the accounting system of OMSC

➤ Source(s) of capital/credit

The fund from National Budget as for the counterpart

➤ Accounting System

With OMSCs Accounting systems

▪ Human Resources

➤ Hiring and Criteria

The criteria for this project by OMSC include that all researchers involved are college instructors who are employees of the institution.

➤ Incentives to Employees

Incentives given to government employee since the researchers are all instructors

➤ Training and Development

None

➤ Safety Measures Practiced

Follow standard safety in the workplace

➤ Other Employee Welfare

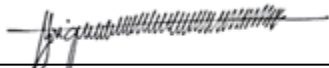
Upon the conduct of the study the researchers are compensated according to the number of hours they devoted to the research.

➤ Other Concerns

Occidental Mindoro State College (OMSC) hopes that DOST-MIMAROPA, through PSTO Occidental Mindoro, will assist in creating a project proposal for technology assistance and collaborate on the project's implementation.

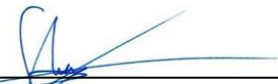
Prepared by:

Validated by:



MICHELLE D. ENRIQUEZ

Associate Professor II/Dean of College of Engineering



VINCENT S. LABINDAO

SV SRS