



PROJECT IMPLEMENTATION PLAN

Ref. No.: 21-SN-04-GE-DMP-C-PK01-PP2100011-004

Date of Issue	19 January 2022
Project Code	21-SN-04-GE-DMP-C-PK01
Title	Productivity Enhancement through Chemical Management Systems and Environmental Management Systems (ISO 14001:2015)
Timing and Duration	January–July 2022 (seven months)
Hosting Country(ies)	Pakistan
Modality	Virtual and/or face-to-face
Implementing Organization(s)	National Productivity Organization, Pakistan
Participating Country(ies)	Not Applicable
Overseas Participants	Not Applicable
Local Participants	Not Applicable
Qualifications of Participants	Not Applicable
Nomination of Participants	Not Applicable
Closing Date for Nominations	Not Applicable

1. Objectives

- a. Establish a system and procedures that foster environmental sustainability in manufacturing processes, products, and services including cost reduction, process optimization, chemical management, and waste management aspects.
- b. Develop a deeper understanding of industrial processes incorporating the latest knowledge on environmental management and available techniques for controlling environmental pollution.
- c. Implement chemical management systems (CMS) focusing on health and safety, chemical inventory, and storage and handling and environmental management systems (EMS) based on ISO 14001:2015.
- d. Share learning experiences on productivity improvement with other organizations through dissemination activities for multiplier effects in the country.

2. Background

Increasing global awareness of environmental hazards caused by carbon emissions, chemical releases, etc. has triggered international environmental protection agencies and governments to impose stringent pollution regulations. CMS and EMS are among the standards for controlling the environmental impacts of production processes. Access to global markets increasingly relies on compliance with those standards. Therefore, to enhance competitiveness in international markets, the ability to follow and implement the standards are critical for companies.

As a result of increased environmental consciousness in Pakistan, there is growing interest in sustainable practices such as waste management, water and air pollution control, and solid waste pollution control. The industrial sector of Pakistan needs to enhance its capability through process optimization, chemical management, and waste management to minimize the negative impacts of its operations on the environment. Therefore, promoting CMS and EMS through the creation of model companies in the country can be considered as one viable endeavor for finding sustainable solutions to the challenges.

This demonstration company project is part of APO initiatives to promote the adoption of productivity concepts through CMS and the ISO 14001:2015 EMS. Through the demonstration and replication of the improvement journey, the multiplier effects of the project can be expanded to other organizations in the country so that they can embark on similar initiatives in supporting sustainable development and promoting productivity improvement.

3. Collaborating Partners

This project will be implemented in collaboration with the following partners as the demonstration companies:

- Gohar Textile Mills (Pvt.) Limited
- Kay & Emms (Pvt.) Limited
- Nazran (Pvt.) Limited
- Sapphire Textile Mills Limited

4. Financial Arrangements

To be met by the APO

- a. All assignment costs of the overseas resource person(s).
- b. Up to a total of USD10,000 as local implementation costs for dissemination activities, including production of a practical manual and multimedia record and holding a dissemination event(s) such as a workshop(s)/seminar(s).

To be met by the National Productivity Organization, Pakistan (NPO Pakistan)

- a. Expenses for coordinating and implementing the project such as the assignment of a coordinator and local expert(s) involved.
- b. Partial expenses for dissemination activities.

To be met by the Demonstration Companies

- a. Expenses for logistic arrangements, including the local travel costs of the resource person(s) and local expert(s) and expenses for interpretation.
- b. Costs associated with the purchase, installation, operation, and maintenance of equipment, if any.
- c. All other expenses not covered by the APO and NPO Pakistan.

5. Implementation Procedures

Please refer to the implementation procedures circulated with this document.



Dr. AKP Mochtan
Secretary-General