



PROJECT IMPLEMENTATION PLAN

Reference No.: 176

Date of Issue	19 July 2023
Project Code	23-SN-04-GE-DMP-C-PK01
Title	Workplace Environment Management through Lean Manufacturing in the Surgical Instruments Industry
Timing	24 July 2023–31 December 2023
Hosting Country(ies)	Pakistan
Venue City(ies)	Sialkot
Modality	Hybrid In-country
Implementing Organization(s)	National Productivity Organization, Pakistan and APO Secretariat
Participating Country(ies)	Pakistan
Overseas Participants	Not Applicable
Local Participants	Not Applicable
Closing Date	Not Applicable
Remarks	Not Applicable

Objectives	Establish demonstration companies on the applications of lean management (LM) systems in the surgical instruments sector; showcase the processes and tangible results of productivity improvement and innovation with applications of LM tools and techniques; and use the results as benchmarks for productivity improvement through LM systems in other APO members.
Rationale	The surgical instruments sector is one of five prime export-oriented sectors in Pakistan. It consists of a multitude of SME manufacturers with a few large units. It has been facing challenges such as a lack of ongoing product and process improvements targeted at developing items that command higher prices in global marketplaces. This explains its low market share.
Background	<p>Pakistan's surgical instrument sector contributes 0.7% of the world share, and exports have increased gradually over the past 10 years. It is considered a key SME export sector and contributes 0.13% to GDP, with at least 150,000 workers in direct employment and 300,000-400,000 in indirect employment.</p> <p>However, the industry faces various challenges. Its export potential is limited, and the concentration risk is high as nearly 80% of surgical instruments are exported to 15 countries. The sector has also been facing bottlenecks in adoption of new technology, and there is no training institute for capacity building of human resources. Increasing productivity by addressing environmental concerns in the workplace, metal dust-intensive production processes, high input costs, labor-intensive conventional production techniques, and health and safety issues is crucial.</p>
Topics	Analysis of current challenges and opportunities related to LM systems for work environment improvement; Strategies for increasing overall efficiency through application of LM systems; Awareness of the latest technologies; and Shopfloor training in LM systems.
Outcome	Demonstration companies that improve productivity through LM systems will be established; the processes and results of productivity enhancement through LM systems will be disseminated; and reference benchmarks for productivity improvement through LM systems will be established.
Qualifications	<p>This project will be implemented in the following demonstration companies:</p> <ul style="list-style-type: none"> - Chaplet International (Pvt.) Limited - Ekal Surgical Works - New Mark Industries (Pvt.) Limited - Nurikon International (Pvt.) Limited - Rhein Enterprises (Pvt.) Limited

Please refer to the implementation procedures circulated with this document for further details.



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