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GOVERNMENT OF PAKISTAN
MINISTRY OF COMMERCE
TEXTILE COMMISSIONER'S ORGANISATION

**ENTREPRENEUR AWARENESS PROGRAM TO ENCOURAGE THE SMEs FOR
ESTABLISHING SMART FACTORIES & GREEN FACTORIES**

An awareness program to encourage the SMEs for establishing Smart Factories and Green Factories was initiated by Textile Commissioner's Organization. In this regard, various meetings were convened with all the stakeholders and after lengthy exercise and brainstorming sessions, following proposal has been prepared.

02. As your goodself is well aware that Pakistan textile industry is technologically emerging industry on the post scenario, so this industry should be given top priority and utilize this opportunity to make the Textile Industry self sustainable.

03. The investments required to bolster Pakistan's exports are short in supply but it is encouraging news that the local production is already planning to expand and will invest \$5 billion to double our textile chain exports by 2025.

04. After Covid-19, the world is moving towards Automation/Artificial Intelligence to nullify the effect of lockdown restrictions, workable framework for the digitization of SMEs in textile value added chain is the dire need of the hour, this can be achieved through intensive awareness programme to encourage the SMEs for establishing Smart factories & Green factories. In this context, adoption of Industry 4.0 through entire textile sector of Pakistan will help industry to enhance the output efficiency with the minimum work force.

SMART FACTORY:

05. The phrase "Smart Factory," which literally means "intelligent factory" in the Industry 4.0 context, refers to a highly digitalized and networked production structure that produces significant output and is backed by data and technologies.

06. When we talk about Smart Factory, It's not about the devices you buy it's about the connection between technology and the people or it's a sophistication of technology to support the people.

07. The Perfect Smart Factory is one in which “connected” monitors and sensors are utilized to collect data on various elements of your equipment operations. These monitors and sensors interact with each other and with your central data system via wireless connections.

08. The data is then examined, with technologies like Computerized Maintenance Management Systems (CMMS) being used to help with smart manufacturing. Increased efficiency, operational improvements, streamlined production, more focused maintenance, and other benefits.

SMART FACTORY’S GOAL:

09. The Perfect Smart Factory’s goal is to improve productivity and lower operating costs by focusing on all areas of the manufacturing process, from digital networks to virtual product definition, remote manufacturing and maintenance, and IT system integration and analysis. What measures do you need to take to create the ideal smart factory in this situation.

10. The proliferation of “smart” machines, which can communicate with other machines as well as the environment, is hastening the transformation of manufacturing processes. It is vital to consider not only the technological elements, but also the human factors, such as worker training and the organising of personal skill building activities, in order to manage the transition to the Smart Factory.

11. The perfect Smart Factory fetches many advantages, these advantages include:
- i. Predictive maintenance is the norm in smart manufacturing, not preventative maintenance. Predictive maintenance identifies and addresses maintenance issues before they impact output. It permits maintenance to become a lot more valuable and efficient procedure.
 - ii. Better maintenance means less unplanned downtime and more focused, useful downtime when needed. Increased production yields result from increased equipment uptime.
 - iii. Increased production efficiency: Smart factories allow for real-time monitoring and fine-tuning, resulting in higher quality due to more efficient equipment.

12. In order to unleash SMEs potential and to make them equipped in line with modern lines, an awareness program “**Entrepreneur Awareness Program to Encourage the SMEs for Establishing Smart Factories & Green Factories**” is initiated by Textile Commissioner’s Organization so that the SMEs may be encouraged to convert on industry 4.0.

13. All the stakeholders i.e. Industry, Academia & Associations (particularly PRGMEA) were taken on board, in this regard, brainstorming sessions were also held with NED University of Engineering & Technology (NEDUET), National Textile University (NTU) and Bahauddin Zakariya University (BZU) and after obtaining their valuable feedbacks, it is proposed that Mr. Joachimhensch may be selected for the subject training program. However, the Champion, in the smart factory manufacturing process Mr. Joachimhensch, MD, Hugo Boss was contacted and he has given his proposal (enclosed herewith).

14. At the first instance, as per stages of development provided by Mr. Joachimhensch, 25 persons for Bachelor Stage, 10 persons for Champion Stage and 05 persons for the Mastery Stage from Industry, Academia & Associations may be chosen for subject training program (The detail of the training program is enclosed).
