

GOVERNMENT OF INDIA  
MINISTRY OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP  
**RAJYA SABHA**  
**UNSTARRED QUESTION NO. 1874**  
ANSWERED ON 11.12.2024

**STATUS OF INDIA'S PREPAREDNESS FOR INDUSTRY 4.0**

1874 SHRI KARTIKEYA SHARMA:

Will the Minister of SKILL DEVELOPMENT AND ENTREPRENEURSHIP be pleased to state:

- (a) the Ministry's roadmap to prepare country's workforce for the challenges and opportunities presented by Industry 4.0, with the sector-wise details thereof;
- (b) whether any initiative has been launched by the Ministry to promote and incentivize entrepreneurship in Industry 4.0-related fields, if so, the details thereof; and
- (c) whether any concentrated efforts are being made with the State Governments, especially in the State of Haryana, to identify and address the skill gaps emerging due to the adoption of Industry 4.0 technologies, the details thereof?

**ANSWER**

THE MINISTER OF STATE (INDEPENDENT CHARGE) IN THE MINISTRY OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP

(SHRI JAYANT CHAUDHARY)

(a): Under the Government of India's Skill India Mission (SIM), the Ministry of Skill Development and Entrepreneurship (MSDE) delivers skill, re-skill and up-skill training through an extensive network of skill development centres / institutes under various schemes, viz. Pradhan Mantri Kaushal Vikas Yojana (PMKVY), Jan Shikshan Sansthan (JSS), National Apprenticeship Promotion Scheme (NAPS) and Craftsman Training Scheme (CTS) through Industrial Training Institutes (ITIs), to all the sections of the society across the country. The SIM aims at enabling youth of India to get future ready and equipped with industry relevant skills.

For promoting skill development as per the opportunities and challenges presented by Industry 4.0, MSDE has inter-alia taken following measures:

- (i) Under PMKVY, the new age/future skills job-roles have been specially aligned with Industry 4.0 requirements in areas like AI/ML, Robotics, Mechatronics, Drone Technology, etc. for upcoming market demand and industry requirements.
- (ii) Directorate General of Training (DGT) under the aegis of MSDE has introduced 29 new age /future skills courses in Industrial Training Institutes (ITIs) and National Skill Training Institutes (NSTIs) under CTS to provide training in emerging areas such as Artificial Intelligence, Mechatronics, Internet of Things, Cybersecurity, Semiconductor, etc.

(iii) Skill India Digital Hub (SIDH) has been launched as a comprehensive and accessible platform for skill enhancement, job opportunities, and entrepreneurship. It supports Industry 4.0 by offering futuristic courses provided by its digital learning partners.

(iv) Indian Institute of Skills (IIS) established at Ahmedabad and Mumbai, in Public Private Partnership (PPP) mode, aims to cultivate an industry-ready workforce for Industry 4.0, equipped with cutting-edge technology and hands-on training across a range of trades including factory automation, mechatronics, artificial intelligence, data analytics, and additive manufacturing.

(b) The Ministry of Skill Development and Entrepreneurship (MSDE) has been working for promoting entrepreneurship development amongst all sections of the society, across the country through its Autonomous Institutes, namely, National Institute for Entrepreneurship and Small Business Development (NIESBUD), NOIDA and Indian Institute of Entrepreneurship (IIE), Guwahati. MSDE has taken up various initiatives for fostering and promoting an entrepreneurial ecosystem through interventions to build entrepreneurial mindset and capabilities.

The details of the initiatives taken by MSDE to promote culture of entrepreneurship are at **Annexure.**

(c) National Skill Development Corporation (NSDC) under the aegis of Ministry of Skill Development and Entrepreneurship has formed 36 Sector Skill Councils (SSCs), led by industry leaders in the respective sectors. These SSCs are mandated to identify the skill development needs of respective sectors as well as to determine skill competency standards. Further, District Skill Committees (DSCs), set up across all States/UTs including Haryana, are mandated with formulating District Skill Development Plans (DSDPs) to promote decentralized planning for skill development and implementation at the grassroots level. The DSDPs identify sectors with employment opportunities as well as the associated demand for skilling in the district, and map the available facilities for Skill Training. Skill Development Programmes of the Government are designed and implemented to bridge identified skill gaps across sectors.

**ANNEXURE REFERRED IN REPLY TO PART (b) OF RAJYA SABHA UNSTARRED QUESTION NO. 1874 ANSWERED ON 11.12.2024 REGARDING “STATUS OF INDIA'S PREPAREDNESS FOR INDUSTRY 4.0**

**Details of the initiatives taken up by the Ministry of Skill Development and Entrepreneurship (MSDE) for promoting a culture of entrepreneurship**

**1. Rashtriya Udyamita Vikas Pariyojana on Pilot Basis for PM SVANidhi Beneficiaries** - MSDE has collaborated with Ministry of Housing and Urban Affairs (MoHUA) to train PM SVANidhi beneficiaries through pilot project- Rastriya Udyamita Vikas Pariyojana. The project is being implemented by NIESBUD, NOIDA and IIE, Guwahati, which includes one week of classroom program and 21 weeks of mentoring and hand-holding support. The project which had commenced from February 2024, has an outlay to train 2050 beneficiaries of PM SVANidhi, with more than 40% participation from women. The project is funded as a Special Project under Pradhan Mantri Kaushal Vikas Yojana (PMKVY).

**2. Pradhan Mantri Janjati Adivasi Nyaya Maha Abhiyan (PM-JANMAN)** - MSDE through its autonomous institutes - NIESBUD, NOIDA and IIE, Guwahati - is implementing the skilling and entrepreneurship component of Pradhan Mantri Janjati Adivasi Nyaya Maha Abhiyaan (PM-JANMAN) – a scheme of Ministry of Tribal Affairs for upliftment of Particularly Vulnerable Tribal Groups (PVTGs). The project is being implemented with support of Tribal Cooperative Marketing Development Federation of India (TRIFED) in 18 States across the country, with a target to set up 500 Van Dhan Vikas Kendras.

**3. Capacity Building Programme for Fair Price Shop Owners** - MSDE, in collaboration with Department of Food and Public Distribution, Ministry of Consumer Affairs, Food and Public Distribution, has undertaken a project of Capacity Building Programme for Fair Price Shop (FPS) Owners. The programme is targeted to cover 3000 FPS owners at PAN India level in its first phase. The programme has been designed by NIESBUD in collaboration with Department of Food and Public Distribution to enable the FPS owners to run their businesses in consonance with the contemporary practices being adopted by Retail Entrepreneurs. The programme aims to equip the participants with in-depth knowledge of various facets of entrepreneurship, financial and digital literacy, and government support ecosystem. The skilling component of the project is being funded as a Special Project under PMKVY.

**4. Establish, Develop and Manage Entrepreneurship Development Centre (EDC) and Incubation Centers (IC) in North East Region's Educational Institutions** - Under this Project, IIE shall Establish, Develop and Manage EDCs and Incubation Centers in North East Region's Educational Institutions. The key features of the Project includes Establishing, developing and managing 30 EDCs and four ICs in eight states of NER, Identifying and training 600 mentors from 30 target districts, Identifying and training 3600 youth from 30 target districts, Incubating 100 business ideas in four ICs, Supporting 900 business ideas in 30 EDCs through convergence and seed fund for top 50 incubates in four ICs.

**5. Entrepreneurship based Skill Development Programme (ESDP) on Solar Entrepreneurship** - NIESBUD is implementing a project for Entrepreneurship based Skill Development Programme (ESDP)

on Solar Entrepreneurship supported by MSDE in collaboration with Ministry of New and Renewable Energy under PM - Surya Ghar Muft Bijli Yojana. The programme aims to create skilled entrepreneurs capable of installing and maintaining solar PV systems.

**6. Strengthening Entrepreneurial Climate through Capacity Building, Incubation Support, Mentoring and Handholding under SANKALP Scheme** – MSDE through NIESBUD is implementing a project for strengthening the entrepreneurship ecosystem of different marginalized sections of the society with the support of the Skills Acquisition and Knowledge Awareness for Livelihood Promotion (SANKALP) Programme of the Ministry of Skill Development and Entrepreneurship (MSDE). The project aims at creating, fostering and promoting the spirit of entrepreneurship among the various target groups through Capacity Building, Incubation Support, Mentoring and Handholding.

**7. Udyam Disha – Mentor Platform** – MSDE through NIESBUD has developed a web-based mentor platform to handhold and guide aspiring and existing entrepreneurs from diverse and remote locations. This platform is used as a tool to connect mentor and mentee, buyers and sellers, donors and investors, etc. and acts as a repository for information on entrepreneurship, government schemes, financial institutions, investors, donors, etc.

**8. National Level Content on Entrepreneurship** – MSDE through NIESBUD has developed a national level content on Entrepreneurship education to be used by the Government for their different Entrepreneurship Development Programmes in order to bring in uniformity and standardization in Entrepreneurship Development Education and have measurable learning outcomes.

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