CENTRES OF EXCELLENCE FOR TECHNOLOGY DEVELOPMENT

760   SMT. VANDANA CHAVAN:

Will the Minister of Heavy Industries be pleased to state:

(a)   the details of the works done for establishing Centres of Excellence (CoE) for Technology Development, State-wise;

(b)   the details of the funds allocated, released and spent for establishing CoE for Technology Development for the past three years, State-wise;

(c)   whether there has been any delay in release of the allocated funds, if so, the reasons therefor; and

(d)   the details of implementation for establishing CoE for Technology Development in the State of Maharashtra?

ANSWER
THE MINISTER OF STATE FOR HEAVY INDUSTRIES
(SHRI KRISHAN PAL GURJAR)

(a) & (b):   Under the Phase-I of the Scheme for Enhancement of Competitiveness in the Indian Capital Goods Sector, eight Centres of Excellence (CoEs) have been established.

Under the Phase -II of the Scheme for Enhancement of Competitiveness in the Indian Capital Goods Sector, 2 Centres of Excellence (CoEs) have been sanctioned so far.

The state wise list of CoEs established / being established along with funds release status is placed at Annexure A.

(c):   There has been no delay in release of funds by Ministry of Heavy Industries.

(d):   No CoE has been established in the state of Maharashtra so far.

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(Rs in crores)

State	Name of CoE	Technology Developed	Total Project Cost/ MHI contribution	Funds released by MHI year wise		
				2019-20	2020-21	2021-22
Delhi	1. Centre of Excellence (CoE) at Indian Institute of Technology- Delhi	Design and development of robot for sliver can transfer from one machine to designated machine	4.6433 / 3.7146	NIL	NIL	NIL
Jharkhand	2. Centre of Excellence (CoE) at HEC Ranchi	Development of 5 Cubic Meter Hydraulic Excavator - HEX 400	6.60/ 5.28	NIL	NIL	NIL
Karnataka	3. Centre of Excellence (CoE) at Central Manuf -acturing Technology Institute (CMTI), Bengaluru	Development of shuttle less rapiers looms of 450 RPM and 550 RPM	20.00 / 16.00	NIL	5.00	NIL
	4. Centre of Excellence (CoE) at IISc Bengaluru	Development of additive manufacturing machines based on electron beam/plasma/laser technologies	10.40/ 8.40	2.95	NIL	NIL
	5. Augmentation of Centre of Excellence at IISc , Bengaluru	This project has been sanctioned under Phase 2 of the Scheme in the FY 2022-23. The funds are yet to be released under this project.	30/24	NA	NA	NA
Tamil Nadu	6. Centre of Excellence (CoE) at Indian Institute of Technology- Madras for development of 11 advanced technologies for Machine Tools and Production Technology	i. Development of 5-axis Multi-tasking Machine; ii. Development of 5-axis Universal Machining Center; iii. Development of Orbital Motion Mechanism for Abrasive Cutting; iv. Development of Direct Drive Abrasive Cutting Machine; v. Development of Automated Multi-station Grinding Polishing Machine; vi. Development of 5 kW axis drives and 25 kW spindle drives for machine tool applications; vii. Development of Hydrostatic Systems (Guideways and Spindles) for Machine Tools;	49.01/ 39.07	6.92284	0.20	NIL

State	Project	Activities				
		viii. Automation of Grinding Process Intelligence; ix. Thermal Compensation Strategy in CNC lathes; x. Development of Low Cost Machine Tending Robot; and xi.. Development of Ultra Precision Micromachining Center				
	7. Centre of Excellence (CoE) at PSG College of Technology for development of three Welding technologies	i. Automated Welding Systems for Specific Industrial Application; ii. Intelligent Welding Power Supply System with waveform shaping Techniques; iii. Alloy design for Welding Simulation & Analysis for Development of New Welding Electrodes & Filler Metals.	26.70/ 21.10	NIL	NIL	NIL
	8. Centre of Excellence (CoE) at Coimbatore by Sitarc	Smart Submersible (6 inch) Pumping Solutions for Industrial and Water Supply Applications	8.41/ 6.728	NIL	NIL	NIL
	9. Augmentation of Existing Centre of Excellence by AMTDC, IIT Madras	This project has been sanctioned under Phase 2 of the Scheme in the FY 2022-23. The funds are yet to be released under this project.	33.2786/ 26.623	NA	NA	NA
West Bengal	10. Centre of Excellence (CoE) at Indian Institute of Technology- Kharagpur for Advanced Manufacturing	i) Non-metallic Inclusions (NMI) and its control, new steel products through energy efficient EAF; ii) Multi- sensor integrated robotic system for hazardous jobs in manufacturing industry; iii) Exploring solutions for various technological challenges in metal additive manufacturing technology and sharing the relevant know how with the Indian heavy engineering industries; iv) (a) Selection of raw materials for additive manufacturing applications in relation to the design requirements ;	52.78/ 37.692	16.9708	3.85	NIL

		(b) Life cycle analysis of additive manufacturing process for different materials; v) Remote monitoring and real time control of defects in friction stir welding process and preventive health monitoring of friction stir welding machine; and vi) Digital manufacturing and industrial internet of things for enhanced supply chain co-ordination, quality and maintenance.				