

**Ministry of Science and technology**

**Demand No. 91**

**Department of Scientific and Industrial Research**

**1. Industrial Research and Development (CS)**

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2023-24			OUTCOMES 2023-24			
	2023-24	Output	Indicators	Targets 2023-24	Outcome	Indicators	Target 2023-24
23.30	1.	Support to new Innovative Projects Under PRISM	1.1. Number of proposals received under PRISM	60	1. Creation of start-ups and Innovative ideas PRISM	1.1 Number of Innovative projects successfully completed under PRISM	12
			1.2. Number of new innovative projects sanctioned under PRISM	30		1.2 Number of proposals converted to products and process under PRISM	6
			1.3. Number of Outreach centers being monitored	10			
	2.	Support to new Technology Development and Demonstration (TDD) projects of industries alone or industries & institutions jointly under PACE	2.1 Number of new projects supported under PACE	0	2. Development of new technologies under PACE	2.1. Number of new Process / Products developed	0
			2.2 Number of ongoing / new research projects supported under PACE	2			
	3.	Support to Common Research and Technology	3.1. Number of New CRTDH supported	0	3. Engagement of MSMEs with Research	3.1. Number of CRTDHs engaging with MSMEs	13

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2023-24			OUTCOMES 2023-24			
	2023-24	Output	Indicators	Targets 2023-24	Outcome	Indicators	Target 2023-24
		Development Hubs (CRTDHs)	3.2. Number of existing CRTDH monitored	13	institutions for new technology development and R&D (CRTDHs)	3.2. Number of collaborative projects between MSMEs/ Startups/ Innovators and CRTDHs	10
	4.	Support to events such as workshops, seminars, conferences, exhibitions etc. for exchange of views and forging collaborations (A2K+)	4.1. Number of new events sanctioned under A2K+	9	4. Exchange of R&D ideas and forging collaborative research	4.1. Number of participants attending the events (A2K+)	50
	5.	Support to new studies and monitoring existing studies on innovation and technology commercialization (A2K+)	5.1. Number of new studies sanctioned under A2K+	4	5. Dissemination of new knowledge among stakeholders(A2K+)	5.1. Number of studies completed (A2K+)	10
	6.	Support to new TDUPW projects for technological capacity building and empowerment of women (A2K+)	6.1 Number of new projects sanctioned under TDUPW	2	6. Imparting of superior technological skills to women that will enhance their outputs and earnings(A2K+)	6.1 Number of women trained under TDUPW (A2K+)	700

**2. Assistance to PSEs for Other Scientific Research Schemes<sup>1</sup> (CS)**

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2023-24			OUTCOME 2023-24			
	2023-24	Output	Indicators	Targets 2023-24	Outcome	Indicators	Target 2023-24
12.50	<b>a. National Research Development Corporation (NRDC)</b>						
	1.	Technology Development, Validation and Commercialization (TDVC)	1.1. Number of startups / industry supported for developing the technology from TRL 3-4 stage to pre-commercialization stage	2	1. Development of technologies which can be taken-up for commercialization by industry	1.1. Number of technologies successfully reaching pre-commercialization stage	3
						1.2. Number of technologies successfully commercialized	1
	2.	Value addition for taking lab scale technologies to commercial scale through further development, basic design engineering packages, market surveys, FR etc	2.1. Number of technologies providing value addition services	43	2. Value addition services provide important data for taking the lab scale technology to a pre-commercialization stage, leading to	2.1. Number of technologies licensed to Industry for commercialization	35
3.	Dissemination of information on	3.1. Number of exhibition organized.	15				

<sup>1</sup> Under umbrella scheme "Assistance to PSE's"; the following sub-scheme: Central Electronics Limited is under disinvestment

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2023-24			OUTCOME 2023-24			
	2023-24	Output	Indicators	Targets 2023-24	Outcome	Indicators	Target 2023-24
		technologies	3.2 Number of Industrial interaction Meeting Organized.	4	Technology Commercialization & Showcasing of innovative technologies to Industry and other stakeholders		
	4.	Provide Assistance for filing of IP	4.1. Number of technologies from MSMEs, R&D Institutes & Universities Provided IP filing support	35	3. Increased IP filing	3.1 Number of IP granted during the year.	20
	5.	Seed funding for manufacturing start-ups in incubation centres	5.1 Number of startups provided Seed Funding by way of equity participation	2	4. Successful Commercialization of technologies selected by start-ups	4.1 Number of seed funded start-ups that have commercialized their technologies	1
						4.2 % Growth in turnover of selected start-ups of previous years.	8
	6.	Partnering with institutions for setting up and managing incubation centres	6.1 Number of incubatees provided mentoring services related to technology development, testing, VC meets, IP protection	8	5. Successful launch of a product or a process in the market	5.1 Number of startups successful in launching their ventures	2

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	2023-24	Output	Indicators	Targets 2023-24	Outcome	Indicators	Target 2023-24
	7.	Running of outreach offices of NRDC for promoting IP and Technology Transfer	7.1 Number of outreach centres operational	2	6. Brand building, Business development, increasing the outreach and creating awareness on the activities of NRDC and licensing of technologies.	6.1 Number of technologies licensed to industry	8
						6.2 Number of outreach and awareness activities conducted	10
3.03	<b>b. Central Electronics Ltd. (CEL)</b>						
	1.	Development of new Multi Section Digital Axle Counter (new MSDAC)	1.1. Number of systems submitted for field trials	2	1. RDSO approval for commercialization of new MSDAC	1.1. Number of reports submitted to RDSO for approval (new MSDAC)	3
	2.	Development of Solid State Block Proving by axle counter (SSBPAC)	2.1. Number of sub modules validated (SSBPAC)	6	2. RDSO approval for commercialization of SSBPAC	2.1. Number of reports submitted to RDSO for approval (SSBPAC)	3
			2.2. Number of functional tests carried out on prototype models (SSBPAC)	25			
			2.3. Number of engineering models developed (SSBPAC)	4			

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2023-24			OUTCOME 2023-24			
	2023-24	Output	Indicators	Targets 2023-24	Outcome	Indicators	Target 2023-24
		2.4. Number of software validation of SSBPAC system	1				
		2.5. Number of documents submitted for validation by ISA(Independent safety assessor	18				
		2.6. Number of systems submitted for field trials	2				
	3. Development of Trans/Receive (T/R) module for Indian radars	3.1. Number of equipment installed for fabrication of T/R module	1	3. Submission for qualification of T/R Module	3.1. Number of T/R module prototypes submitted for qualification	1	
		3.2. Number of T/R module prototypes manufactured	1				
	4. Modernization of infrastructure	4.1. Number of equipment installed for up gradation of production infrastructure	1	4. Creation of New process facility	4.1. Number of products impacted	1	