

Department of Scientific & Industrial Research

1. Industrial Research & Development (CS)

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2021-22			OUTCOMES 2021-22			
	2021-22	Output	Indicators	Targets 2021-22	Outcome	Indicators	Targets 2021-22
21.00	1.	Support to New Innovative Projects involving individuals (PRISM)	1.1 Number of New innovative projects sanctioned (PRISM)	10	1. Creation of start-ups and Innovative ideas ((PRISM))	1.1. Number of Innovative projects successfully completed	7
	2.	Support to new Technology Development and Demonstration (TDD) projects of industries alone or industries & institutions jointly (PACE)	2.1. Number of New projects supported under PACE	2	2. Commercialization of new technologies (PACE)	2.1. Number of Process / Products developed	1
			2.2. Number of ongoing and new research projects supported under PACE	3			
3.	Support to Common Research and Technology Development Hubs (CRTDHs)	3.1. Number of New CRTDH supported	5	3. Engagement of MSMEs with Research institutions for new technology	3.1. Number of collaborative projects between MSMEs/ Start-	20	

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			3.2. Number of existing CRTDH monitored	9	development and R&D (CRTDHs)	ups/ Innovators and CRTDHs	
	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+	5	4. Exchange of R&D ideas and forging collaborative research	4.1. Number of participants attending the events (A2K+)	200
	5.	Support to new studies and monitoring existing studies on innovation and technology commercialization (A2K+)	5.1. Number of New studies sanctioned under A2K+	15	5. Dissemination of new knowledge among stakeholders(A2K+)	5.1. Number of Studies completed (A2K+)	8
	6.	Support to new TDUPW projects for technological capacity building and empowerment of women (A2K+)	6.1. Number of New Projects sanctioned under TDUPW	7	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+)	750

2. Assistance to PSE's (CS)

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	2021-22	Output	Indicators	Targets 2020-21	Outcome	Indicators	Targets 2020-21
14.00	a. Central Electronics Ltd. (CEL)						
	1.	Development of new Multi Section Digital Axle Counter (new MSDAC)	1.1 Number of sub modules developed (new MSDAC)	2	1. RDSO approval for commercialization of new MSDAC	1.1 Number of reports submitted to RDSO for approval (new MSDAC)	3
			1.2 Number of sub modules validated (new MSDAC)	6			
			1.3 Number of functional tests carried out on prototype models (new MSDAC)	100			
			1.4 Number of engineering models developed (new MSDAC)	6			
	2.	Development of Solid State Block Proving by axle counter (SSBPAC)	2.1. Number of sub-modules developed (SSBPAC)	7	2. RDSO approval for commercialization of SSBPAC	2.1. Number of reports submitted to RDSO for approval (SSBPAC)	3
			2.2. Number of sub modules validated (SSBPAC)	7			
			2.3. Number of functional tests carried out on prototype models (SSBPAC)	50			
			2.4. Number of engineering models developed	2			

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		(SSBPAC)					
	3.	Development of Trans/Receive (T/R) module for Indian radars	3.1. Number of equipment installed for fabrication of T/R module	2	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.	Development of ceramic based hard armour panel(HAP) for personal body armour	4.1. Number of equipment installed for development of HAP	4	4. Submission for qualification of ballistic threat level BIS Level 05 HAP	4.1. Number of HAP prototypes submitted for qualification	10
			4.2. Number of HAP prototypes manufactured	10			
b. National Research Development Corporation (NRDC)							
	1.	Technology Development, Validation and Commercialization (TDVC)	1.1. Number of start-ups / industry supported for developing the technology from POC stage to pre-commercialization stage	3	1. Development of technologies which can be taken-up for commercialization by industry	1.1. Number of technologies successfully reached the pre-commercialization stage	0 ¹

¹ The duration of each project would be 18 months for development from PoC to pre commercialization stage.

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	2.	Value addition for taking lab scale technologies to commercial scale through further development, carrying out tests, validation of results, basic design engineering packages, market surveys, DPR etc.	2.1 Number of technologies provided value addition services	56	2. Value addition services provide important data for taking the lab scale technology to a pre-commercialization stage, leading to Technology Commercialization & Showcasing of innovative technologies to Industry and other stakeholders	2.1. Number of Technologies Licensed to Industry for commercialization	30
	3.	Dissemination of information on technologies	3.1 Number of exhibition and Industry, interaction meets organized.	20/5			
	4.	Providing Assistance for filing of patents carrying out tests, validation of results, basic design engineering packages, market surveys, DPR etc.	4.1 Number of MSMEs Provided IP filing support	25	3. Increased IP filing Technology Commercialization	3.1 Number of patents granted, filed earlier	15
	5.	Seed funding for	5.1 Number of start-	3	4. Successful	4.1 Number of start-	1

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		disruptive manufacturing start-ups in incubation centres	ups identified for Seed Funding by way of equity participation		Commercialization of technologies selected by start-ups	ups that would successfully launch the product in the market	
	6.	Partnering with institutions for setting up and managing incubation centres	6.1 Identification of innovators for incubation centers (in nos)	5	5. Successful launch of a product or a process in the market	5.1 Number of start-ups successful in launching their ventures	2
	7.	Opening of outreach offices of NRDC for promoting IP and Technology Transfer	7.1 No. Of outreach offices to be opened	1	6. Brand building, Business development, increasing the outreach and creating awareness on the activities of NRDC	6.1.No. of agreements signed like MoU, MoA, License Agreement, Assignment Deed	3