

Department of Scientific & Industrial Research

1. Industrial Research and Development (CS)

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2019-20			OUTCOME 2019- 20		
2019-20	Output	Indicators	Targets 2019- 20	Outcome	Indicators	Targets 2019- 20
28	1. Support to New Innovative Projects involving individuals	1.1. New innovative projects sanctioned	10	1. Creation of start-ups	1.1. Innovative projects successfully completed	7
	2. Support to new Technology Development and Demonstration (TDD) projects of industries alone or industries & institutions jointly	2.1. New TDD projects sanctioned	4	2. Commercialization of new technologies	2.1. Technology development and demonstration projects completed	3
	3. Monitoring of existing Common Research and Technology Development Hubs (CRTDHs)	3.1. Organization of project guidance and review committee meetings	8	3. MSMEs engaging with Research institutions for new technology development and R&D	3.1. Number of collaborative projects between MSMEs/Start ups/Innovators and CRTDHs	20

	4. Support to Events such as workshops, seminars, conferences, exhibitions etc. for exchange of views and forging collaborations	4.1. New events sanctioned	20	4. Dissemination of new knowledge among stakeholders	4.1. No. of events and studies completed	500 Stakeholders
--	--	----------------------------	----	--	--	------------------

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2019-20			OUTCOME 2019-20			
	2019-20	Output	Indicators	Targets 2019-20	Outcome	Indicators	Targets 2019-20
		5. Monitoring existing studies on innovation and technology commercialization	5.1.Organization of project review committee meetings	8			
		6. Support to new TDUPW projects for technological capacity building and empowerment of women	6.1. New projects sanctioned	5	5. Imparting of superior technological skills to women that will enhance their outputs and earnings;	5.1.Number of women trained	500 Number of women's be trained

## 2. Assistance to PSEs (CS)

FINANCIAL OUTLAY in Cr)	OUTPUTS 2019-20			OUTCOME 2019-20		
	2019-20	Output	Indicators	Targets 2019-20	Outcome	Indicators
17.65	a. Central Electronics Ltd. (CEL)					
	1.Developm ent of Products for Indian Railways	1.1. Development of prototype systemof new Multi Section Digital Axle Counter	One (1) prototype model of new MSDAC system in CEL	1. New products for Indian railways	1.1. System level design of new Multi section digital axle counterApproval/ submission to RDSO	One(1)improv ed product in railway signaling systems
		1.2. Development of prototype system of VoIP based train control	One (1) prototype system in the field for trial purpose		1.2. Development of VoIP based train control communication	One (1) new product in railway signaling systems

		communication				
		1.3. Development of prototype system of solid state block proving by axle counter	One (1) prototype system of SSBPAC along with its sub system for lab working to check functionality		1.3. System level design of new solid state block proving by axle counter	One (1) improved product in railway signaling systems
	2.Modernization & Up gradation of plant & equipment at CEL	2.1.Upgradation of microwave devices and quality control facility	<ul style="list-style-type: none"> <li>• Development of manufacturing facilities for two (2)new products in Microwave division</li> <li>• Development of testing &amp; quality control facility for existing and two (2) new products in microwave division</li> </ul>	2.Development of new products for defense sector Upgraded testing facility for products	2.1.Modernization of plant and equipment	Two (2) better quality products in company defense portfolio
		2.2. Product exhibition center	• Demonstration of five (5) new applications of solar energy.	3.Demonstration of Solar Technologies and systems to stakeholders/ students/visitors	3.1. Setting up of one functional solar park in CEL premises.	Dissemination of SPV related knowledge to 200 stakeholders/ students
		2.3.Modernization of training facility	Creation of one (1) training facility for SPV products	4. Training activities to students / stakeholders in solar sector	4.1. Training programs/Visits	60 trained manpower in solar sector
	<b>b. National Research Development Corporation (NRDC)</b>					
	1. Giving away Meritorious innovation awards	1.1. No. of awards	10	1. Recognition and motivation to inventors and innovators	1.1. Motivation of Inventors and innovators	600 inventors and innovators according to applications received
	2. Providing	2.1. No. of MSMEs	IP services to 24	2. Increasing IP	2.1. IP awareness	Reach out to 500

	IPR services to MSMEs	facilitated	MSME's/academia	filing, creating awareness about IP protection and showcasing innovative technologies to stakeholders	campaigns, interaction meets and exhibitions	stakeholders/participants
	3. Dissemination of information on technologies	3.1. Exhibitions and interaction meets	40 exhibitions & 15 interaction meets			
	4. Value addition for taking lab scale technologies to commercial scale through basic design engineering packages, market surveys etc.	4.1. Surveys for identified technologies	57 technologies	3. Technology Commercialization	3.1. Technology transfers and licensing to industry	Licensing 5 technologies to industry
	5. Seed funding for disruptive manufacturing start-ups in incubation centers.	5.1. Identification of innovators in incubation centers and setting up of incubator in NRDC	6 start-ups	4. Promotion of start-ups	4.1. Participating in equity of select start-ups	Promote 6 start-ups to take their ideas to market
	6. Partnering institutions for setting up and managing incubation centers	6.1. No. of incubation centers set-up	Set up 1 new incubation center and run existing	5. Mentoring and monitoring services to help incubates become successful in their ventures	5.1. No. of start-ups	5 start ups from NRDC supported incubation centers