

MINISTRY OF SCIENCE AND TECHNOLOGY

Demand No.86

Department of Science & Technology

1. Research and Development (CS)

FINANCIAL OUTLAY (Rs. In Cr.) 2019-20	OUTPUT 2019-20			OUTCOME 2019-20		
	Output	Indicator(s)	Target 2019-20	Outcome	Indicator(s)	Target 2019-20
611	1. International Co-operation: Support R&D projects, scientific exchanges, and capacity building through bilateral, regional and multilateral cooperation	1.1 No. of on-going and new collaborative research projects supported through bilateral, regional and multilateral cooperation	380	1. Enhancing India's S&T knowledge base through bilateral, regional and multilateral cooperation	1.1 India's global ranking on index of scientific journals	6
		1.2 No. of scientific exchanges supported through bilateral, regional and multilateral cooperation	2000		1.2 No. of research publications (indexed journals) in current year	600
		1.3 No. of internships, scholarships & fellowships awarded supported through bilateral, regional and multilateral cooperation	370		1.3 No. of products & technologies developed/transferred/commercialized in current year	10
		1.4 No. of conference /seminar /symposia/training programmes/workshops organized through bilateral, regional and multilateral cooperation	120		1.4 No. of patents (filed/granted) by awardees in current year	20
					1.5 No. of manpower trained through various activities	500
	2. National Mission on Nano Science and Nano Technology: Support R&D on fundamental aspects of Nano	2.1 No. of ongoing and new research projects supported under Nano Mission: Individual scientist-centric projects, Industry-academia partnership projects, international collaboration projects	60	2. Enhanced Research and development in Nano Science and Technology	2.1 Total No. of research publications (indexed journals) in projects completed in current year	80
		2.2 No. of Nano science units/ facilities supported	5		2.2 No. of products & technologies developed/transferred/commercialized	5

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	Output	Indicator(s)	Target 2019-20	Outcome	Indicator(s)	Target 2019-20
	Science, training of manpower, and industry-academia partnerships				in various projects	
		2.3 No. of post-doctoral fellowships awarded under Nano mission	9		2.3 No. of patents (filed/granted) by awardees in current year	6
		2.4 No. of conference/seminar/symposia/training programmes/workshops organized under Nano Mission	5		2.4 No. of manpower trained through various activities under Nano mission	15
	3. Mega Facilities for Basic Research: Support Mega science projects critical to the nation	3.1 No. of ongoing and new Mega science projects supported	13	3. Enhancing India's S&T competitiveness	3.1 No. of research publications (indexed journals) in current year	130
		3.2 No. of Ph.D. produced in the Mega science projects	10		3.2 No. of components/ technologies designed /prototype/developed in current year	5
		3.3 No. of conference/seminar/symposia/ training programmes/ workshops organized	5		3.3 No. of manpower trained through various activities	50
	4. Climate Change Programme: Developing knowledge networks and both human and institutional capacities in the area of climate change through NMSHE & NMSKCC	4.1 Knowledge networks created through NMSHE & NMSKCC	1	4. Evolve management measures for ecologically sustainable development by enhancing research capability, implementing monitoring & coordination mechanisms.	4.1 No. of publications (indexed journals) in current year: Knowledge Networks	4
		4.2 No. of centres set up under NMSHE & NMSKCC	1		4.2 No. of publications (indexed journals) in current year: Centres	5
		4.3 No. of research projects supported in the area of climate change	10		4.3 No. of publications (indexed journals) in current year under climate change research projects	4
		4.4 No. of fellowships/ scholarships/ internships supported under climate	6		4.4 No. of manpower trained through various activities – Fellowships/	6

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	Output	Indicator(s)	Target 2019-20	Outcome	Indicator(s)	Target 2019-20
		change programme			internships/ scholarships	
		4.5 No. of seminar/ training programmes/workshops organized for stakeholders in the area of climate change	10		4.5 No. of manpower trained through various activities – seminars/trainings/workshops	100
	5. Super Computing Facilities and Capacity Building: Support implementation of grid connecting 70 supercomputers located in R&D Institutions, Universities and the 1 million core cloud using NKN	5.1 No. of supercomputers installed during current year (Build/ Buy)	20	5. Enhancing India's S&T competitiveness by building India's super computing capabilities	5.1 HPC Manpower trained (Domain specific/ Non-Domain specific)	1500
		5.2 No. of on-going HPC related activities supported: Applications related	5		5.2 No of HPC Users in the Grid	500
		5.3 No. of on-going HPC related activities supported: R&D Projects	5			
		5.4 No. of on-going HPC related activities supported: HRD Courses	5 centre (15 training)			
	6. Quantum Enabled Science & Technology (QuEST): Support R&D on fundamental aspects of Quantum Computers,	6.1 No of R&D projects in Photonics	23	6. Enhancing India's S&T competitiveness in quantum technology	6.1 No. of research publications (indexed journals) in current year	10
		6.2 No of R&D projects in Nitrogen vacancy & Magnetic Resonance	9		6.2 No. of components/ technologies designed /prototype/developed in current year	0
		6.3 No of R&D projects in IoN traps	9			
		6.4 No of R&D projects in Quantum Dots	10			

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	Output	Indicator(s)	Target 2019-20	Outcome	Indicator(s)	Target 2019-20
	Communication and Quantum Key Distribution (QKD), training of manpower, conferences and workshops					
	7. Networked Imaging Spectroscopy & Applications (NISA)	7.1 No of R&D projects	35	7. Generation of Highly skilled manpower to be deployed in Academic/Industry	7.1 Number of skilled manpower generated	20
	scheme: Support R&D on basic aspects of Spectroscopy, Imaging, Remote Sensing, Technology Development, training of manpower, conferences and workshops	7.2 No of Applications	6	8. Enhancing India's S&T competitiveness in hetrospectral imaging	8.1 No. of research publications (indexed journals) in current year	15
		7.3 No of Technologies Developed (TRL 3)	10		8.2 No. of components/ technologies designed /prototype/developed in current year	3
		7.4 No PhD's	30		8.3 Number of skilled manpower generated	30
		8. Indian Heritage in Digital Space (IHDS): Support for	8.1 No of R&D projects		50	9. Increase in indigenous product/technology development and commercialisation
		8.2 Underwater exploration	5		9.2 No. of entrepreneurs nurtured,	1

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	Technology Fusion R&D projects, Applications, Technology Development, Training of Manpower, Conferences and Workshops	technologies developed		through start-ups /entrepreneurship	incubated and mentored in current year.		
		8.3 Exploration of Dwarka	1	10. Enhanced research on the aspects of health data set n to treat various diseases and improvement of quality-of-life.	10.1 No. of research publications (indexed journals) under EDA in current year	2	
		8.4 Exploration of Poempuhar	1		10.2 No. of components/ technologies designed /prototype/developed in current year	2	
	9. Epidemiology Data Analytics (EDA): Support R&D on application aspects of health data sets, Technology platform Development for health data analytics, training of manpower, conferences and workshops	9.1 No of health data sets curated & created	1		11. Enhanced Research and development in ICPS Technologies	10.3 Number of skilled manpower generated	2
		9.2 No of Analytical tools developed	5			11.1 No. of research publications	35
		9.3 Technology platform Health data analytics	1	11.2 No of Proof-of-Concept (PoC) developed		10	
		9.4 No of Trainings	2	11.3 No skilled manpower		25	
	10. R&D in ICPS foundational technologies	10.1 No of R&D projects supported	80		11.4 No of conferences, workshops organised	20	
		10.2 No of Proof-of-Concept (PoC) developed	10				
		10.3 No of trainings	50				

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		10.4 No of conferences, workshops organised		25		

2. National Mission on Interdisciplinary Cyber Physical Systems (NM-ICPS) (CS)

FINANCIAL OUTLAY (Rs. In Cr.) 2019-20	OUTPUT 2019-20			OUTCOME 2019-20		
	Output	Indicator(s)	Target 2019-20	Outcome	Indicator(s)	Target 2019-20
124	a. Technology Development					
	1. Promotion of R&D in Cyber-Physical systems and related areas	No. of on-going and new research projects supported under Technology Development Programme in each category:	124	1. Development of products	1.1 No. of Patents filed/granted in	50
		a. TRL (point 1-3)			1.2 No. of products & technologies <u>commercialized</u> under technology development programme	25
		b. TRL (Point 4-6)	50			
c. TRL (Point 7-10)	*					
b. Centers of Excellences (CoEs)						

	2.Setting up Hubs are to carry out translational research and establish world class Centers in specific subject domains of Interdisciplinary Cyber-Physical Systems in India	2.1 No. of Hubs set up	25	2. Generation of highly trained manpower for teaching, R&D, manufacturing in CPS	2.1 No. of HRD scholars/ awardees/ fellows with permanent positions at various academic/ research institutions/industry in the country	500
	3.Encourage participation of Government and industry/ industry associations	3.1 No. of partnerships developed	50			
	4.Provide the incubation centers for start-ups	4.1 No. of Incubation centers	25			
c. HRD and skill development						
5. Development of human resource in CPS	5.1 No. of awards in current year under			3. Generation of Highly skilled manpower to be deployed in Academic/Industry	3.1 Number of skilled manpower generated	868
	i. Graduate Internships	500				
	ii. Post Graduate Fellowships	250				
	iii. Doctoral Fellowships	125				

		iv. Post-Doctoral Fellowships	*			
		v. Faculty Fellowship	*			
		vi. Faculty Fellowship	*			
d. Innovation, entrepreneurship and Start-up ecosystem						
6. CPS-GCC		6.1 No. of Grand Challenges and Competitions organized	*	4. Increase in indigenous product/technology development and commercialisation through startups/entrepreneurship	4.1 No. of products & technologies developed/transferred/commercialized in current year by start-ups & entrepreneurs	25
7. CPS-PRYAS		7.1 No. of new & existing Technology Business Incubators, and startup centres supported in current year	25		4.2 No. of seed supported startups with positive / growth graduated to next level in current year	25

** Targets not amenable for this indicator*

2.S & T Institutional and Human Capacity Building (CS)

FINANCIAL OUTLAY (Rs. In Cr.)	OUTPUTS 2019-20			OUTCOMES 2019-20		
2019-20	Output	Indicator(s)	Target 2019-20	Outcome	Indicator(s)	Target 2019-20
1085.20	1. Attractive opportunities for R&D, innovation in Science & Technology created through INSPIRE Awards, Internships, Scholarships and Fellowships	1.1 No. of Inspire Awards released	100000	1. Attract talent early in life and nurture the young intelligentsia to take up science and pursue a career in Research.	1.1.No. of Innovative products/services produced	60
		1.2 No. of Innovative Ideas taken up by NIF for further product/ process development	60			
		1.3 No. of students offered Participation in Inspire Internships Science Camp	25000		1.2. Percentage of INSPIRE scholars pursuing PG/Ph.D. in S&T	40% (PG) 25 % (Ph.D)
		1.4 No. of scholarships offered	12000			
		1.5 No. of fellowships offered	1000			
		1.6 No. INSPIRE faculty positions offered	100			
	2. KIRAN Programme for Women in Science: Promoting women talent in S& T through individual research support,	2.1 No. of on-going research projects/fellowships supported under:		2. Increase in participation and contribution of women to research in Science & Technology	2.1 Gender participation in extramural R&D projects supported by DST	1000
	(i) WOS-A	600	2.2 No. of research publications (indexed		10	

FINANCIAL OUTLAY (Rs. In Cr.)	OUTPUTS 2019-20			OUTCOMES 2019-20			
	2019-20	Output	Indicator(s)	Target 2019-20	Outcome	Indicator(s)	Target 2019-20
	institutional support, Training & Capacity Building, Societal Development and Mobility					journals) by awardees in current year	
		(ii) WOS-B	120			2.3 No. of products, processes & technologies developed/transferred/commercialized by grantees in current year	*
		(iii) WOS-C	100			2.4 No. of Research Papers by awardees in current year	50
		(iv) Mobility	5			2.5 No. of Women scientists trained under KIRAN	200
		(v) Indo-U.S. Fellowship for Women in STEMM (<i>WISTEMM</i>)	20				
		2.2 No. of research projects completed in current year under:					
		(i) WOS-A	150				
		(ii) WOS-B	20				
		(iii) No. of women trained in IPR under WOS-C	104				
		2.3 No. of Women Technology Parks (WTP) developed in current year	6				
		2.4 No. of institutions supported under CU7RIE	1				
		2.5 No. of training programmes of	9				

FINANCIAL OUTLAY (Rs. In Cr.)	OUTPUTS 2019-20			OUTCOMES 2019-20			
	2019-20	Output	Indicator(s)	Target 2019-20	Outcome	Indicator(s)	Target 2019-20
		women scientists supported under KIRAN					
	3. Swarna Jayanti Fellowships: Support young scientists, with excellent track record to pursue research in frontier areas of science and technology	3.1 No. of on-going research projects in current year undertaken by fellows awarded under Swarna Jayanti Fellowships.	47	3. Innovative and impactful research in S&T	3.1 No. of research publications (indexed journals) by DST-STI fellows in current year	20	
3.2 No. of Report/publications/ under NSTMIS in current year					17		
3.3 No. of patents (filed/granted) by awardees in current year					2		
	4. Policy Research Cell (PRC): Skill development in STI policy domain, commission policy research and forecast studies in various	4. 1 No. of fellowships awarded under DST-STI Fellowships at post-doctoral level	5	4. Policy Research Cell: Enhancing human resources in STI policy domain and strengthening the knowledge	4.1 No. of research publications (indexed journals) by DST-STI fellows in current year	20	
		4.2 No. of workshops organised by PRCs	4		4.2 No. of Report/publications/ under NSTMIS	17	
		4.3 No. of ongoing and new research projects under NSTMIS: In-house &	40				

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	2019-20	Output	Indicator(s)	Target 2019-20	Outcome	Indicator(s)	Target 2019-20
	knowledge institutions	sponsored			base, think tank, and evidence- based policy making, S&T Data Managemen t, Indicators, and Capacity building of Scientific Manpower	in current year	
		4.4 No of Scientists/Technologist working in the Gov. Sector trained	800				
		4.5 No. of Scientists participated in the Exposure Visit Abroad	40				
	5. State Science & Technology Programme: Support to strengthen the State Science and Technology council	5.1 Number of on-going projects/initiatives supported in states in current year under:	35	5. State Science & Technology Programme: Increased engagement of various states in research and developmen t in S&T	5.1 Number of S&T Studies & Surveys	15	
			(i) S&T Studies & Surveys		15	5.2 Location Specific Research and Technology Development and Demonstration	20
			(ii) Location Specific Research and Technology Development and Demonstration		20	5.3 No of Technology Demonstration Centre Established	3

FINANCIAL OUTLAY (Rs. In Cr.)	OUTPUTS 2019-20			OUTCOMES 2019-20		
	2019-20	Output	Indicator(s)	Target 2019-20	Outcome	Indicator(s)
		(iii) Establishment of Technology Demonstration Centre	2		5.4 No. of beneficiaries successfully utilising science & technology applications after training/ implementation/ demonstration	3500
		5.2 Number of successful projects/models replicated in other states	4			
	6. Strengthening of R&D infrastructure in colleges, teaching and academic research institutions: FIST, SAIF, PURSE	6.1 No. of existing institutions supported in current year under FIST, SAIF, PURSE	685	6. Improvement in teaching and research quality: : FIST, SAIF, PURSE	6.1 No. of publications (indexed journals) out of FIST, SAIF, PURSE Support in current year	8500
		6.2 No. of new institutions supported in current year under FIST, SAIF, PURSE	152		6.2 No. of researchers using the facilities provided	10500
		6.3 No. of equipment/ computational/ infrastructural facilities provided in current year under FIST, SAIF, PURSE	1000		6.3 No. of manpower trained (UG/PG/PhD/Faculty) in/by supported institutions in current year under SAIF & PURSE	1000

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	2019-20	Output	Indicator(s)	Target 2019-20	Outcome	Indicator(s)	Target 2019-20
		6.4 No. of trainings/workshops organized utilizing facilities provided under FIST,SAIF,PURSE in current year		10		6.4 Performance enhancement in terms of H-Index of all Universities receiving PURSE grants	34% (14 university) 60% (30 university)
	7. SATYAM: Support research on the effects of yoga and meditation on physical & mental health besides on cognitive functioning	7.1 No. of ongoing and new research projects supported under SATYAM		65 (50 ongoing and 15 new)	7. Enhanced research on the effect of Yoga & Meditation to treat various diseases and improvement of quality-of-life.	7.1 No. of research publications (indexed journals) under SATYAM in current year	5
	8. Support cutting edge R&D projects and capacity building in Cognitive science under CSRI	8.1 No. of ongoing and new research projects supported under CSRI: Individual & Multi-centric		100	8. Improved solutions to challenges related with cognitive disorders and social issues through various psychological tools &	8.1 No. of research publications (indexed journals) by awardees in current year	10
		8.2 No. of post-doctoral fellowships awarded under CSRI		15		8.2 No. of patents (filed/granted) by awardees in current year	*

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	2019-20	Output	Indicator(s)	Target 2019-20	Outcome	Indicator(s)
		8.3 No. of conference /seminar/symposia /training programmes/workshops organized under CSRI	5	batteries, early diagnosis & better therapies, intervention technologies and rehabilitation programmes	8.3 No. of manpower trained through various activities under CSRI	60

Abbreviations

- *KIRAN: Knowledge Involvement in. Research Advancement through Nurturing*
- *CURIE: Consolidation of University Research for Innovation and Excellence in Women Universities*
- *FIST: Fund for Improvement of S&T Infrastructure*
- *SAIF: Sophisticated Analytical Instrument Facilities*
- *PURSE: Promotion of University Research and Scientific Excellence*
- *SATYAM: Science and Technology of Yoga and Meditation*

** Defining a target is not amenable at this stage*

3. Innovation, Technology Development and Deployment (CS)

FINANCIAL OUTLAY (Rs. In Cr.) 2019-20	OUTPUT 2019-20			OUTCOME 2019-20		
	Output	Indicator(s)	Target 2019-20	Outcome	Indicator(s)	Target 2019-20
872.35	1. Technology Development Programme: Development of new technologies based on proof-of-concepts for better commercialization	1.1 No. of on-going and new research projects supported under Technology Development Programme	125	1. Greater use of latest technologies developed from PoCs 2. Increased use of geospatial data in decision-making at zila/ block/ village panchayats 3. Greater use of latest technologies developed under CERI	1.1 No. of Technologies/Devices Developed/ Demonstrated in the lab and field	25
		1.2 No. of ongoing and new research projects supported under priorities of NRDMS-NSDI	120		2.1 No. of panchayats covered for improvement in decision-making using Geospatial Technologies	50
		1.3 No. of zila/ block/ village panchayats covered	50		3.1 No. of publications (indexed journals)	200
		1.4 No. of Geospatial Technology application projects supported	50		3.2 No. of Patents filed	5
		1.5 No. of on-going and new projects for Clean Energy Research Initiative	85 (New) 198 (ongoing)= 283		3.3 No. of Test beds and technology demonstrator	4
		1.6 No. of on-	25 new		3.4 No. of Policy inputs provided	2

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	Output	Indicator(s)	Target 2019-20	Outcome	Indicator(s)	Target 2019-20
		going and new projects for Water Technology solutions endeavours through individual projects/knowledge networks/thematic hubs/stakeholder consortium etc.	157 ongoing = 182			
	2.S&T Programme for Socio-Economic Development: Promote and facilitate high-end entrepreneurship for S&T manpower	2.1 No. of new & existing Technology Business Incubators, and Research parks, supported in current year	60			
	3. S&T Programme for Socio-Economic Development (SEED): Support action oriented and	No. of new, ongoing and completed projects supported under SEED for each target group: i) Women	(i) 20 (ii) + (iii) 50 (iv) 20 (v) 20		3.5 No. of Research Fellows trained	100

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	Output	Indicator(s)	Target 2019-20	Outcome	Indicator(s)	Target 2019-20
	location specific projects aiming towards socio-economic upliftment of weaker sections of society	(ii) Tribal groups (iii) SC&ST community (iv) Farm & non-farm sector (v) Disabled and Elderly				
		3.2 No. of new, ongoing and completed socially relevant action research projects undertaken by young scientists & technologists	55		3.6 No. of Technologies developed	5
		3.3 No. of trainings/demonstrations organized ⁴⁶	100		4.1 No. of publications (indexed journals)	25
		3.4 No. of Core Support Groups/S&T Accelerators/Active Field Laboratories supported in rural areas	27		4.2 No. of Patents and new Technologies developed	2
			4. Greater use of latest technologies developed under Water technology solutions			

⁴⁶Technologies developed under SEED are demonstrated and field tested. Training of users is done as required

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	Output	Indicator(s)	Target 2019-20	Outcome	Indicator(s)	Target 2019-20
	4. S&T Programme for Socio-Economic Development: Coordinate science communication, popularisation and outreach activities to disseminate scientific knowledge throughout the country	4.1 No. of outreach activities organized in current year	60		4.3 No. of technology assessment	3
		4.2 No. of trainings/workshops organized	50		4.4 No. of Technologies adapted/developed/commercialised	1
		4.3 No. of new, ongoing and completed projects in S&T communication supported	50		4.5 No. of technology solutions provided	3
	5. Exhibition & Fairs: Conducting various information / technology dissemination exhibitions & fairs	5.1 No. of exhibitions & fairs participated/ conducted	8		4.6 No. of Best practice documents prepared Policy inputs provided	2
		6. Drugs & Pharmaceuticals Research: Support R&D in the Drug & Pharmaceuticals	6.1 No. of ongoing & new collaborative projects		10	4.7 No. of Start-ups facilitated
	6.2 No. of facilities setup under this programme		3		4.8 No. of Research Fellows trained	40

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	Output	Indicator(s)	Target 2019-20	Outcome	Indicator(s)	Target 2019-20
7. Technical Research Centres: Support R&D in technical research centres	7.1 No. of ongoing and new translational research projects undertaken in Technical research Centres	65	5. Increase in indigenous product/technology development and commercialization through start-ups /entrepreneurship	5.1 No. of products & technologies developed/transferred/commercialized in current year	360	
	7.2 No. of start-ups incubated	3	6. Development, dissemination and application of appropriate science & technology interventions/packages for empowering and improving quality of life primarily of disadvantaged sections of society and rural communities	6.1 No. of technologies developed/transferred/commercialized/disseminated in current year	75	
				6.2 No. of beneficiaries in various groups benefitting from products, processes & technologies created under SEED	5000	
	7.3 No. of products & technologies developed in current year	5	7. Generate awareness about advances in science and technology & promote scientific thinking to enable informed decision-making at grassroots level.	7.1 No. of footfalls / participation of various user stakeholders in the outreach and other activities	50,000,00	
				7.2 No. of Manpower trained in current year	1200	
				7.3 No. of publications/tools developed in current year	5	
	8. Improved adoption of technologies		8.1 No. of products & technologies commercialized in current year.	20		

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				developed by technical research centres by the industry	8.2 No. of patents (filed/granted) by TRC in current year	30

Abbreviations:

- *CERI: Clean Energy Research Initiative*
- *SERI: Solar Energy Research Initiative*
- *NSTEDB: National Science & Technology Entrepreneurship Development Board*
- *TIASN: Technology interventions for Addressing Societal Needs*
- *TARA: Technological Advancement for Rural Areas*
- *SYST: Scheme for Young Scientists & Technologist*
- *NSD & NMD: National Science Day & National Mathematics Day*