ACTION PLAN - 2022

Research and Innovation Sector

Institute/ Divis	ion :- National Scien	ce Foundation (NSF	F)										1		1										
	Objectives of the	Relevancy to SDG	_		Allocation	-			I	Target						Responsible	e Officer								
Priority Area	Ministry	goal & Target	Programme	Research Activities	(Rs. Mn.)		ial (Rs.N		01	Cumulative Phy		T 04	KPI	Expected Output	Expected Outcome	Name	Contact No:								
1.Establishing	1.Establishing and	Goal 2:	NSF mandate a) Pr	omoting R&D		1 Q2	Q3	Q4	Q1	Q2	Q3	Q4				Name	Contact No:								
Sri Lanka as an Innovation Hub by maximizing the use of Internet of Things, Artificial Intelligence, Biotechnology, Robotics, Augmented Reality, Cloud Computing, Nanotechnology and 3D Printing 2.Making efficient the system to issue patents to researches for	networking dynamic y organizational structures to assist in the process of vesting the public with science, technology and research-based knowledge. 2. Directing institutions to impart scientific principles and technological concepts essential for the efficacy and efficiency of products to benefit the society. 3. Strengthening the human resources base	End hunger, achieve food security and improved nutrition and promote sustainable agriculture (Goal 3: Ensure healthy lives and promote wellbeing for all at all ages Goal 4: Ensure inclusive and equitable quality education and promote lifelong ty. learning opportunities for all	End hunger, achieve food security and food security and food security and food food food food food food food fo	End hunger, achieve food security and improved nutrition and promote sustainable agriculture Goal 3: Ensure healthy lives and promote well-being for all at all ages Goal 4: Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all	food security and improved nutrition and promote sustainable agriculture Goal 3: Ensure healthy lives and promote well-being for all at all ages Goal 4: Ensure inclusive and equitable quality education and promote lifelong learning opportunities	End hunger, achieve food security and improved nutrition and promote busustainable agriculture Goal 3: Ensure healthy lives and promote wellbeing for all at all ages Goal 4: Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all	End hunger, achieve food security and improved nutrition and promote sustainable agriculture Goal 3: Ensure healthy lives and promote wellbeing for all at all ages Goal 4: Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all	End hunger, achieve food security and improved nutrition and promote sustainable agriculture Goal 3: Ensure healthy lives and promote well-being for all at all ages Goal 4: Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all	Implementing Research & Technology Development	Implementing Research & Technology Development	Research & Technology Development	i. Creating new knowledge , Technology development, establishing start ups/PPPS, Technology Transfers, commercialization and branding activities	25.957 2	7.998	11.94	4.017	Conduct brainstorming sessions. Identification of priority concerns/resarch needs of SMEs and relevant RD & I projects. Award Technology specific grants Monitoring of ongoing grants & Research Scholarships and bring to completion. Identifying followup activities for completed research grants. Upgrading and updating RGRA/TGRA database. Continuation with the R&D partnership programme on bathik apperal.	Calling for EOIs & evaluate Calling for full proposals Monitoring of ongoing grants & Research Scholarships and bring to completion. Upgrading and updating RGRA/TGRA database. Develop & validate quality standards/quality assuarance for batik apperal and other R&D work.	Organize pitching events and identify commercial partners for PPPs/Start-ups targeting at creating local brands etc. Award of R&D grants Monitoring of ongoing grants & Research Scholarships and bring to completion. Preparation of outreach material for research information dissemination. Upgrading and updating RGRA/TGRA database. Priority settings for 2023 through brainstorming sessions	identified R&D projects for 2023. Establishment of quality standards for bathik apperal.	No. of PPP established - 6 No. of TTs - 02 No of start ups - 01 No. of commercialized products/ processes - 1 No. of new brands - 02 No. of patents - 3 No. of research publications (in IF > 3 journals) No. of M Phil/PhD produced - 10 No of international awards made on local R&D - 2	No. of grants/scholarships awarded No. of new products/processes developed No. of students registered for PG degrees No. of research Grants/ Scholarships/ Fellowship completed No. of publications (in IF < 3 journals) No. of communications No. of completed research grants identified for further actions Updated RGRA database Quality standards developed for batik apperal. Efficiently used RGRA & TGRA for R&D project evaluation & decision making.	Knowledge enhancement & sharing, Capacity building, Infrastructure development S&T contribution to the national economy	Head/RD, Head / TDID	Ext 120/ 140
their innovations and to secure ownership to their		Ensure availability and sustainable management of water		ii. Establishment of the national analytical & testing facility (Instrument database)					Completion of data collection and	establishment of the database with	required features.		User statistics (BP to be established)		_										
research designs 3.Providing facilities to local research institutions to	inventions and innovations. 4.Identifying the concept-based applications of	and sanitation for all Goal 9: Build resilient infrastructure, promote inclusive and		iii. Providing recognition for S&T excellence (NSF Awards)					Calling for applications and condu- awards.	ct evaluations for all kinds of	Obtaining approvals for selected awards	Organize the ceremony	No. of recognized S&T personnel	No. of National & NSF Awards and Commendation Certificates conferred	Scientists, researchers and technologists encouraged for contributing to new knowledge creation and national economy.										
collaborate with the international	researchers and inventors, encouraging	sustainable industrialization and	NSF mandate b) Se	&T information dissemination							I				·										
research institutions 4.Providing tax reliefs to private enterprises contributing to	competencies leading to their practical application. 5.Facilitating and increasing opportunities for the	foster innovation Goal 11: Make cities and human settlements inclusive, safe,	oster innovation Goal 11: Make cities and uman settlements nclusive, safe, esilient and	Publication of scientific research	i. Publication of Journal of National Science Foundation (JNSF)	2.254 0.2	0.966	0.639	0.437	Processing 75 manuscripts Publishing of Vol 50 special Issue & Vol. 50 Issue 1 No. of articles published - 20 Harnessing at least 04 high-end	Processing 150 manuscripts Publishing Vol 50 Issue 02 of JNSF (with at least 10 articles). Total no. of articles published - 30 Harnessing at least 08 high-end	JNSF (with at least 10 articles)	Processing 300 manuscripts Publishing Vol 50 Issue 04 of JNSF (with at least 10 articles). Total no. of articles published - 50	Reduced TAT by 25%	No. of Articles published No. of JNSF issues published (04 normal issues & the JNSF 50th anniversary issue) No. of high-end research findings	Dissemination of local and foreign research findings to local and global scientific community contributing to scientific advancement Knowledge creation	Head/JPD	Ext 269							
research 5.Introducing domestic or foreign investors required for manufacturing under a domestic brand with	commercialization of innovations. 6. Facilitating the increase of local and foreign investments being made in the research and development field.	sustainable Goal 13: Take urgent action to combat climate change and its impacts Goal 15: Protect, restore and							research findings for publishing Enhancing review pool by 25 reviewers (local + foreign) Developing journal matrics and updating quarterly.	research findings for publishing. Enhancing review pool by 25 reviewers (local + foreign)	Harnessing at least 12 high- end research findings for publishing. Enhancing review pool by 30 reviewers (local + foreign)	Harnessing at least 16 high-end research findings for publishing. Enhancing review pool by 40 reviewers (local + foreign)		published No of new entries added to the review pool.	,										
innovation products 6.Formulating an efficient mechanism to channel innovations and research results to investors and relevant users	7.Establishing continual and wider discussions and joint approaches among all the stakeholders encompassing S & T communities, entrepreneurs and policy makers. 8.Introducing modern technology and promoting its applications 9.Value addition to products utilizing modern technology 10.Promoting high end tech inventions	promote sustainable use of terrestrial eccosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss Goal 16: Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions		ii.Publication of Sri Lanka Journal of Social Sciences (SLJSS)	1.980 0.			0.660	Processing 60 manuscripts Harnessing manuscripts addressing policy recommendations for important social issues from SL and South Asian region. No. of manuscripts - 03 Enhancing review pool by 15 reviewers (local + foreign) Developing journal matrics and updating quarterly.	Processing 120 manuscripts Publishing Vol 45 Issue 01 of SLJSS (with at least 10 articles). No. of articles published 10 Harnessing manuscripts addressing policy recommendations for important social issues from SL and South Asian region. No. of manuscripts - 06 Enhancing review pool by 15 reviewers (local + foreign)	reviewers (local + foreign)	recommendations for important social issues from SL and South Asian region. No. of manuscripts - 12 Enhancing review pool by 15 reviewers (local + foreign)		recommendation on important social issues - 3	Dissemination of local and foreign research findings to local and global scientific community. Knowledge creation SLJSS Indexed in the Social Science Citation Index of Clarivate Analytics										
	and innovations to be on par with the competitiveness of foreign markets	at all levels Goal 17: Strengthen the means of implementation and revitalize the global partnership for sustainable		iii.Publishing other local journals at Sri Lanka Journals Online (SLJOL)	1.300 0.	45 0.850	0		Making available of Sri Lankan sci by adding 1200research articles, 14	ientific journals online via SLJOL p 40 journal issues with 1150 DOIs fo		ine work of the online platform	Incresed access by 10 %	No. of research articles uploaded No. of journal issues uploaded No. of DOIs provided (system generated) No. of journals available at SLJOL	Providing a platform for prominence to local scientists and researchers for their S&T work S&T information dissemination locally and internationally	Head/NSLRC	Ext 190								
		development	Providing access to S&T databases	i. Subscriptions to S&T literature	1.150 0.	85 0.100	0	0.200	Making payments for local & foreign subscriptions for memberships & databases	Making payments for local & foreign subscriptions for databases & online journals	-	Making payments for local & foreign subscriptions for books & other		No. of Databases subscribed No. of journals subscribed No. of memberships subscribed No. of downloads No. of access provided											
				ii. National Digital Library Consortium (National E-consortium of digital resources: a proposal for electronic resource sharing being under consideration by the Ministry)					Proposal to be evaluated by the Ministry.	Obtain approval from the NPD	Appointing the Steering Committee and Working Committee for the consortium	Project execution by purchasing digital resources	Increased number of databases subscribed - 10 Amount of foreign currency saved (Rs Mn)	No of databases subscribed No of Institutes benefited											
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						Target									11 O.00		
Priority Area	Objectives of the Ministry	Relevancy to SDG goal & Target		Research Activities	Allocation (Rs. Mn.)	Fir	nancial (Rs.)	Mn)		Cumulative Phy	sical Target		KPI	Expected Output	Expected Outcome	Responsi	ble Officer
								Q2 Q3	Q4	Q1	Q2	Q3	Q4				Name
				iii. National Digitization Project - Digital Library software and Database development & maintenance	0.100	0.03 0.0	020 0.025	0.025	5 Add 2,500 full texts to digital repositories Execution of Environment Ministry DL project (50%) Execution of Presidential secretariate DL project (25%) Add 1,250 records to "Viduketha" Databases Implementation of KOHA at NSLRC (50%)	Add 2,500 full texts to digital repositories Execution of Environment Ministry DL project (50%) Execution of Presidential secretariate DL project (25%) Add 1,250 records to "Viduketha" Databases Implementation of KOHA at NSLRC (50%)	Add 2,500 full texts to digital repositories Execution of Presidential secretariate DL project (25%) Add 1,250 records to "Viduketha" Databases	Add 2,500 full texts to digital repositories Execution of Presidential secretariate DL project (25%) Add 1,250 records to "Viduketha" Databases	Increased usage by 2% Increased content availability by 2%	No of projects undertaken to digitze S&T information No of projects completed No of full text S&T articles added Amount of income generated (Rs. Mn) No of S&T records added to NSLRC Databases No of S&T records updated in the databases. Fully implemented KOHA in the NSF library.			
				iv. Science and Technology Management Information System (STMIS) a.) Maintaining, networking and data dissemination b.) Improving the visibility	0.200		0.050	0.150	Maintaining, networking and data dissemination through the STMIS Improving the visibility of STMIS	Improving the visibility of STMIS	3		Increased usage of the STMIS (BP to be established)	Total number of registrants Number of new registrations	Increased networking among Sri Lankan scientific community	Head/STPRD	
				c.) Exploring avenues for benefits										Number of circulations (information disseminations via STMIS) Number of visits to the STMIS database			
			NSF mandate c) S	&T capacity Building	<u> </u>									dillouse			
			Tapping the Sri Lankan expatriate talent pool in abroad for leveraging R&D outputs	Strengthen and expansion of expatriate base and commissioning the Digital Platform	1.000		1.000		To increase the number of new expatriate registrants by 50	To increase the number of new expatriate registrants by 50	expatriate registrants by 50	v To increase the number of new expatriate registrants by 50	Percentage increase in foreign funding harnessed compared to 2021. Percentage increase in number of collaborations/partnerships established compared to 2021.	No. of expatriates registered in the digital platform. No. of fruitful partnerships established for the benefit of local researchers/industry	A comprehensive expatriate base with diverse range of expertise. Advancement of local innovation ecosystem benefitted through global opportunities. Enhanced global prominence of Sri Lanka's STI landscape.	Head/IAD	Ext 155
			Capacity building for STI development Networking with	Facilitate training of Sri Lankan researchers in emerging fields addressing national priorities Payment of membership fees for ICGEB,	2.300		0.400	0.400	0 To train two researchers	To train three researchers Timely endorement of	To train four researchers	To train two researchers	Increased number of fellowships harnessed for capacity building compared to 2021. Increased number of proposals submitted/ received aiming at	No. of trained researchers No. of new initiatives taken by the trained researchers to implement new know-how acquired at training No. of grants obtained	Increased knowledge sharing. Benefits reaped in terms of funding and capacity development Linkages established with international scientists Visibility for the SLJSS in ASSREC website.	Head/IAD,	Ext 155
			international STI organizations (focal points)	ISC, AASSREC	2.300	0.5	2.000		-	applications from Sri Lankan researchers to the ICGEB under CRP. Renewal of the AASSREC Membership.	-	-	foreign funding compared to 2021.	No. of short-tern training fellowships secured No. of R&D activities conducted	website.	TRAW PAD,	EX 133
									Renewal of the AASSREC member	ership.	1					Head/STPRD	Ext 165
			MAB programme	Facilitate sustainable management of national biosphere reserves	0.400	0.1	0.100 0.100	0.100	0 Make an e-publication on ecosystem services of national biosphere reserve	Facilitating implementation of the preparatory works required for periodic review	Facilitating R&D required for sustainable management of biosphere reserves	Facilitating R&D required for sustainable management of biosphere reserves	_	e-publication on ecosystem services of biosphere reserves No. of stakeholders benefitted	Enhanced awareness on ecosystem services of national biosphere reserves	Head/IAD	Ext 155
			NSF mandate d) Se	&T policy research													
			Policy Studies	National R&D Survey i. Complete the R&D Survey-2020 ii. Improve statistics on R&D iii. Preparatory activities for R&D Survey 2022.	2.600	0.6 1.:	500 0.400	0.100	Complete the R&D survey 2020 for Government and NGO sectors	Complete the R&D Survey 2020 for the Business Enterprises secto Analysis of data Data submission to UIS		Printing and publishing of statistical handbook	Stakeholder satisfaction on publication (BP to be established)	Completed National R&D survey Published R&D Statistical Handbook 2020 Finalized data collection tools for R&D survey 2022	Availability of internationally comparable R&D statistics to Sri Lankan and global community	Head/STPRD	Ext 165
				Initiate studies i. Review the current situation with respect to the 4th Industrial Revolution ii. Ascertain the current status of alternative and renewable energy iii. Revisit the Biotechnology Policy	0.650	(0.100 0.250	0.300	Obtaining necessary approval Finalise work plan Appointing expert group/s	Obtaining necessary approval Holding discussions and collecting data Inititate study/ies	Obtaining necessary approval Inititate study/ies Conduct consultative meetings	Obtaining necessary approval Consultative meetings s Developing the concept/s	Cumulative number of studies/success stories gathered, documented, disseminated	No. of policy studies initiated No. of concept notes developed Number of consultative meetings held No. of policy studies completed	Availability of brief reports to the NSF Management		
				Publishing the NSF Gender in STEM study report	0.429	0.31	0.094 0.030		Restructuring the report according to the reviewers' comments and with statistical input. Complete the 1st draft	Complete the 2nd draft	Complete the study report	-	-	Evaluate the Gender balance associate with STEM	Gender data available for making policy decision	Ms. Thilina Kandanamulla (SC and Ms Sanduni Samarasekera (SO	

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Priority Area Objectives of the Ministry	Relevancy to SD goal & Target	Programme	nme Research Activities	(Rs. Mn.)		ncial (Rs.			Cumulative Phy	rsical Target		KPI		Expected Outcome		
				<u> </u>	Q1 Q2	Q3	Q4	Q1	Q2	Q3	Q4				Name	Contact No:
			cience popularization	0.500	0.200	n I o 200	\ T	Complete the state of the state	A101	IA1011	hr. de de commune	N CCt	T	Motivated school children engaged in	11 1/CDD	E 100
		Awarding Grants	Science education popularization programmes (SEPP) Supporting 02 Schools - Stage-1	0.500	0.300	0.200		Complete site visit for inspection (04 schools)	Award 01 grant Monitoring progress	Award 01 grant Monitoring progress.	Monitoring progress.	No. of Schools supported	Improved lab facilities in schools	Science	Head/SPD	Ext 180
		Improving public awareness on STI	i. Conducting Competitions on Science education and science popularization	2.000	0.5 0.500	0.500	0.50	0 SRPC 2020/21 - Complete competition and publish proceedings. Kid naturalist Programme: i. Complete Training programme for teachers ii. Initiate Kidnaturalist programme for kids		Compeletion of	Condcut 02 progress review meetings with project teams Complete SRPC 2022 Complete evaluation and selection of winners for science competitions Kid naturalist programme - initiate teacher training programe	Increased science literacy of the nation (BP to be established) Percentage of student cohort pursuing STEAM education (BP to be established)	No.of Competitions conducted No.of students participated No. of high-graded R&D proposals received No. of science communicators developed	Enhanced research culture Enhanced public awareness on science Motivated students to take up science		
			ii. Science Communication via printed and digital media	1.000	0.25	0.250	0.25	Publish issue 1 of "Vidurava" Work on upcoming issues of "Vidurava" and other. Proceed work on 03 books	Publication of "Vidurava" Issue 2 Work on upcoming issues of "Vidurava" and other.	Publication of "Vidurava" Issue 3 Work on upcoming issues of "Vidurava" and other.	Publication of "Vidurava" Issue 4 Work on upcoming issues of "Vidurava" and other. Award 01 publication grant		No.of "Vidurava" issues published No.of books/handbooks published No.of documentaries made No.of TV/Radio programmes conducted No. of news articles/tabloids published No.of posters created			
			iii. Conducting outreach programmes for science popularization a) Training for science Teachers/youth/community) b) Training for effective science communication for scientists and undergraduates	1.750	0.700	0.500	0.200	Organize one training programme and 02 public lectures	Conducut one training programme for teachers and 01 for youth. One outreach programme for community	e Conducut one training programme for teachers and 01 for youth. One outreach programme for community	-		No of programmes/webinars completed enhancing science literacy among people and developing science communicators. No. of training/capacity development programmes conducted No. of personnel trained No. of persons benefitted			
			Training/capacity development workshops on technology transfer and knowledge sharing					-	-	-	Capacity development workshops - 08	Increased IP literacy (BP to be established)	No. of outreach programmes conducted No. of technologies/research outputs shared/disseminated		Head/TDID	Ext 140
			Outreach awareness programmes on Scientific Information Dissemination & NSF Services and promoting scientific activities and achievements via Science Media Hub					Conduct 05 awareness programmes/webinars. One webinar series on health related issues.	Conduct 04 awareness programmes/webinars. One webinar series on health related issues.	Conduct 04 awareness programmes/webinars. Two webinar series on health related issues.	Conduct 07 awareness programmes/webinars. Two webinar series on health related issues.	Increased awareness on R&D outputs by 10%			Head/NSLRC, Head/RD	Ext 190/12
			Providing S&T e-resource awareness to library professionals					Conduct 01 awareness programme	Conduct 01 awareness programme	e Conduct 01 awareness programme	Conduct 01 awareness programme				Head/NSLRC	
		Acquisition of capi	ital assets, maintenance and system administr	ration					•							
		HR development	Provide training for work performance enhancement	1.180	0.39 0.370	0 0.250	0.170	Management Systems & Financial Regulations for 50 staff members. Providing Specific Training programmes to 10 staff members.	Conduct the English Course for 25 staff members for office use. Provide Tamil language Course for PL category staff. Provide Specific training programme to 10 staff members.	Conduct a Training programme on Team Building		Increased Staff happiness index (BP to be established)	No. of staff members trained	Enhanced motivation and work output	SAO & HRDO	Ext 235
			I	1.650 0	0.35 1.3	00	+		Network switch replacements at	-	-	Quality increased IT platform	Trouble free computer networking	_	IT Manager	Ext 210
		Maintaining the IT infostructure	Improving 11 networking					facilities	two locations. Core network switch expension in the Server Room	1			facilities Reduced badndwith bottlenec for servers.			