Rubber Research Institute of Sri Lanka











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RUBBER RESEARCH INSTITUTE OF SRI LANKA

Introduction

The origin of rubber research in Sri Lanka goes back to 1909, when a group of planters in the Kalutara District got the service of a chemist to study the coagulation of rubber. This was later expanded to form a Rubber Research Scheme in 1913 and then named as the Rubber Research Institute of Ceylon (now Sri Lanka) in 1951showing that the Rubber Research Institute of Sri Lanka (RRISL) is the oldest Research Institute on rubber in the world. It has a proud record of service to the industry, in plant breeding, agro-management practices and the chemistry of raw rubber.

RRISL is the nodal agency in Sri Lanka having the statutory responsibility for research and development (R & D) on all aspects of rubber cultivation, processing and product development for the benefit of the rubber industry. The institute carries out R & D on agronomy and biology of the crop, the chemistry of natural rubber and technologies of product manufacture together with environmental and socioeconomics aspects of all subsections. Further, the institute is committed towards technology transfer activities and training of extension personnel and other stakeholders. Accordingly, it has five biological research Departments. i.e. Plant Science, Genetics & Plant Breeding, Plant Pathology & Microbiology, Soils & Plant Nutrition and Biochemistry & Plant Physiology and four Chemistry and Technology Departments i.e. Raw Rubber Process Development & Chemical Engineering, Raw Rubber & Chemical Analysis, Polymer Chemistry and Rubber Technology & Development. Technology transfer is carried out by the Advisory Services Department together with the unit/section of Adaptive Research, Biometry, Agricultural Economics and Audio Visual & Information Technology. Administration department, Accounts section and Works section support the R & D activities conducted by the above departments and units / sections.



Organizational Structure and Arrangements

The organizational structure is summarized in Diagram 1- (page 10).





Assignment of Responsibilities, Authority and Accountability

The Director as the Chief Executive Officer of the Institute is responsible for all the research and development activities, and administrative and financial affairs of the Institute under the general direction and control of the Rubber Research Board. The responsibility and authority for execution of the research, advisory and administrative plan of each department lies with the Head of the relevant department/section. The Deputy Directors are expected to assist the Director and Additional Director in discharging their executive functions in the relevant subjects.

Authority of the Organization

According to the Rubber Research Ordinance (No. 10 of 1930), a Rubber Research Board has been established for the purpose of furthering and developing the rubber industry. The Board governs a Rubber Research Institution with the view of managing, conducting, encouraging and promoting scientific research with respect to rubber cultivation, processing and product manufacture and also, dealing with all issues connected with the rubber industry. The areas covered are development of new clones, production of quality planting material, cultivation and management of rubber plantations, prevention and cure of diseases, pest control, harvesting rubber trees for latex, soil and moisture management, rubber based farming systems, expansion of rubber cultivation to new areas and impact assessment on rural livelihood, carbon sequestration & environmental impacts, raw rubber processing and conversion into marketable products, treatment of rubber factory effluents and providing of advisory services. This Ordinance has been amended from time to time; the most recent introduction has been the "Rubber Research Bill Part II of April 2003 with the amendment No. 28".

Our Clients

Management staff and workers of all Estates and Smallholders are important clients of the institute. Close links have been established between all these groups by constant interactions. The raw rubber and rubber product manufacturers, the consumers of raw rubber and raw rubber latex exporters are the other groups of institute's clients. Along with other sister organizations such as Rubber Development Department and Thurusaviya Fund, RRISL caters to the needs of the smallholders and assists them in selling latex to centrifuged latex factories or in producing quality smoked sheets. Emphasis is given for marketing of rubber and also to introducing new technologies to rubber growers and small-scale industrialists. Further clients are supported with trouble shooting and testing facilities.





THE VISION, MISSION STATEMENTS AND OBJECTIVES

Vision and Mission

The institute's vision is to emerge as the center of excellence in providing high quality scientific technologies to the rubber industry. Its mission is to revitalize the rubber sector by developing economically and environmentally sustainable innovations and transferring the latest technologies to the stakeholders through training and advisory services.

Objectives

The broad objective of the RRISL is to assist the Government of Sri Lanka (GoSL) in the sustainable development of the rubber industry by providing required technologies. Based on the policy for the Plantation sector, we expect the rubber industry in the country to be competitive in the international arena by capturing significant market share and also assuring decent living of plantation community in the country. Strategies proposed to be implemented are given below.

- Considering the existing level of popularity for rubber in the area, suitability and land availability for further expansion, two regions for rubber cultivation in the country are identified for focus oriented R&D activities.
 - A rubber triangle comprising Kalutara, Ratnapura and Kegalle districts is identified as a mega zone for rubber cultivation in the traditional rubber growing area. Since spare lands for further cultivation of rubber in this zone is limited, productivity increase is the focus in this zone. RRISL will provide sufficient technologies and suitable protocols targeting an average productivity of over 1500 kg/ha/-year by 2025 in this zone. To be competitive at international level, cost of production is expected to be kept below USD 2/kg for plantation companies. In line with other development programmes of GoSL, RRISL assist small & medium scale entrepreneurs to set up rubber industries in environmentally friendly manner by providing required technologies to do so.
 - Another mega zone for rubber in drier climate comprising Monaragala, Ampara districts and Anuradhapura is identified to expand the rubber cultivation for increased production. Whilst assisting GoSL to meet a target of 30,000 ha of rubber in this region, RRISL will provide improved protocols to maintain an average productivity level of 1500 kg/ha/year by 2025. Solar energy is promoted as the principal energy source for rubber industry in this zone. In addition, rubber is promoted in this zone as a means of sequestering atmospheric CO₂ targeting carbon trading in voluntary market. Farming system approach is encouraged to increase land use efficiency and farmers' income further.
- In addition to above the two mega zones, RRISL is engaged in promoting rubber in other regions of the country on demand basis.





• In order to meet the targets set in above approaches, agronomic research are focused on developing sustainable and user-friendly agronomic practices and disease resistant, environmentally robust high yielding genotypes for improved productivity and greater level of farmer acceptance. Rubber technological research will cater mainly the small & medium entrepreneurs and develop products for high level of value addition and for niche markets. Also, information is generated with required technologies to promote rubber as an environmental friendly industry. Further, impact guaranteed technology programmes are advocated mainly in mega zones in support of achieving set targets.

Research Departments/Units

Research departments & units of RRISL are to carry out research and development work and dissemination of outputs to the relevant sectors through extension network in view of meeting the objectives through the strategies mentioned. Considering the upstream and downstream segments of the industry, they are categorized into two as rubber agronomy and technology.

Agronomy

Agronomy departments conduct research and development activities on all aspects of the growth of the rubber tree and its productivity. Research activities on breeding clones for high yields, disease resistant, vigorous growth, tolerance to gaseous stimulation and increased timber production are given the highest priority. Also, reduction in cost of production with efficient uses of resources is the key focus in research. Further, research and development activities have been commenced on the expansion of rubber cultivation to nontraditional areas. The Advisory Services Department is catering to the needs of the smallholders. Whist Genetic & Plant Breeding Department is located at Nivithigalakale substation, Mathugama, other four biological research departments and three supporting units are functioning at Dartonfield, Agalawatta. The Advisory Services Department is located at Telawala Road, Rathmalana.

1. Genetics & Plant Breeding Department

Main objective of this department is to develop clones with high yield potential combined with desirable secondary characters. In order to achieve this, clones are produced by hand pollination and resulting new genotypes are tested first under small scale and then in collaboration with estates and also under smallholder conditions. Among the secondary characteristics; growth vigour, tolerance to diseases, resistance to wind damage & brown bast, high timber volume etc. are considered important. Research work is also conducted towards early identification of clonal characters using RADP techniques.





2. Plant Science Department

The broad objectives of this department are to identify and recommend cost effective techniques from plant production up to latex harvesting which would maximize the productivity. The quality of planting material is improved constantly. Planting techniques to improve the performance of the clearings and also methods of exploitation to cut down on cost of production (COP) are researched. Cultural practices during the immature phase along with intercropping are also looked at and recommendations are made where necessary. Plant physiological research is conducted to help increase the productivity and tissue culture work is also continued with some progress. Apart from research and advisory work, this Department is also involved in activities to ensure high quality plant production for the sector through regular monitoring of all rubber nurseries.

3. Soils & Plant Nutrition Department

The main trust areas are research on improvement of soil fertility, increasing fertilizer use efficiency, soil & water conservation and weed control. This department also provides services such as site-specific fertilizer recommendation for mature rubber, land selection for planting rubber and chemical analysis of soil, plant and fertilizer samples.

4. Plant Pathology & Microbiology Department

Centre for planning, implementation and management of research on (a) all aspects of the maladies of the rubber plantations and (b) improvement of beneficial soil micro flora. Main research projects include screening of clones for disease resistance, testing pesticides, development of integrated pest management systems, biology and epidemiology of pests and surveillance of potential pathogens & disease out breaks.

5. Biochemistry & Plant Physiology Department

This department aims to meet the needs of stakeholders in the rubber industry particularly in the biochemical and physiological aspects. Ultimate focus is to build up a cleaner environment meeting the productivity goals in the present day context. Among the research programs, testing low intensity tapping systems with different methods of stimulation and developing convenient and reliable means of assessing rubber content in latex are in priority.

6. Advisory Services Department

The main objective is the technology transfer to the rubber smallholders in order to improve the adoption rate of recommended technologies to enhance productivity and profitability of the rubber growers.

7. Biometry Section

Providing statistical consultancy to other research departments of RRI, stakeholders and students, maintenance of databases on meteorological factors in the rubber growing areas, while providing data of the agro-meteorological station at Dartonfield to the national system are among the key services of the Biometry section. Development, modification and application of statistical techniques to suit the rubber sector and studies on environmental change are the main research focuses.





8. Adaptive Research Unit

This unit uses both "Top-down" and "Bottom-up" approaches to refine the technologies available in the large scale plantation sector in favour of smallholders and plan the future research to cater the smallholder requirements, accordingly. In addition, this unit facilitates rubber cultivation in non-traditional areas. Among the research activities of the unit, developing protocols for rubber cultivation in nontraditional areas, assessing livelihood and environmental impacts of rubber cultivation and evaluating rubber based farming systems and other agronomic practices whilst characterizing the socio economic conditions of smallholdings are in top priority.

9. Agriculture Economics Unit

This unit is mainly involved in two major research areas namely, a) Socio-economic studies in the rubber sector in relation to cultivation, processing and marketing and b) Impact evaluation of different policies implemented in the rubber sector.

Technology

The Technology Departments of the Institute carryout research and development work on raw rubber processing and rubber products, with the aim of developing new high value end products and also improving the quality of the products already being manufactured in the country to meet international standards. The departments concerned are situated at Telawala Road, Rathmalana and their functions are as follows.

1. Raw Rubber Process Development and Chemical Engineering

The main function of the department is to carry out research and development on raw rubber processing for the betterment and sustainability of the industry while protecting the environment. The department provides advice on trouble shooting, process development and quality improvement in the raw rubber processing industry. The department is also responsible for assisting the raw rubber industry in human resource development and human safety. Providing technical know—how and all other assistance in the management of waste water generated in raw rubber processing and rubber product manufacturing industries are also major functions of the department.

2. Polymer Chemistry

Major objectives of the department is to carry out Research and Development work on Polymers to optimize the quality and productivity of polymer manufacturing and processing industry. Modification of natural rubber, dry and latex form for improved quality, development of polymers including latex forms to suit the end user applications and identification and selection of additives to optimize process ability of polymer compounds are major Research and Development areas of the department.





3. Rubber Technology and Development Department

Major objective of the department is to carry out Research and Development work on all aspects of Rubber Technology in order to upgrade the rubber based product industries in Sri Lanka to acquire the global standards and thereby making Sri Lankan rubber products competitive in the international markets. Rubber compound development, both latex and dry rubber, physical testing of rubber products and compounds, assisting the small and medium scale prospective rubber product entrepreneurs in product development are among the major functions of the department.

4. Raw Rubber and Chemical Analysis Department

The main function of the department is to provide testing and analytical facilities for all forms of dry rubber and rubber latex and issuing of test certificates recognized by all parties concerned in the rubber trade. Research and development work related to chemical analysis and development of test methods related to testing of rubber and latex of all forms is the other major activity of the department.

Service Units

1. Audio Visual & Information Technology Unit

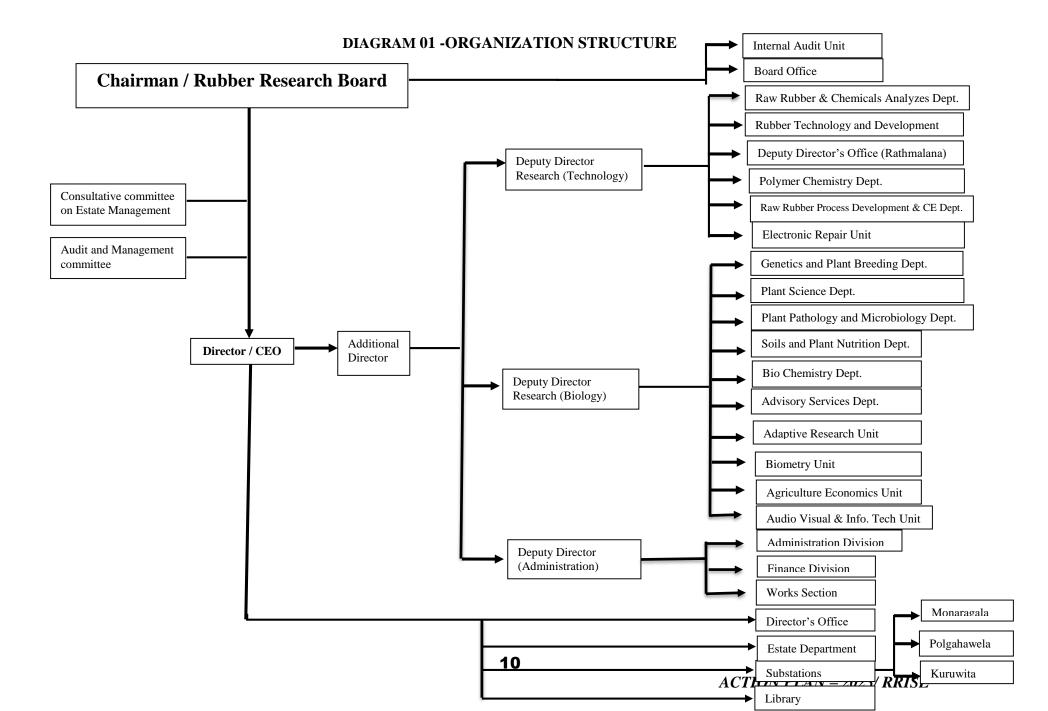
Provides audio visual aids including scientific photography for the research and extension activities. Administration and maintenance of the computer network of the institute including Ratmalana Offices, Technology departments and substations. Updating of the RRI website and supervising maintenance of the institutes' international telephone network and attendance recording machines. This unit also supports the functions of institute accounting software package.

2. Electronic Instruments Repair Unit

Undertakes the repairs of the electronic scientific instruments of the institute. However, currently this units has no staff.











CURRENT RESOURCES AVAILABLE

Infrastructure

The Rubber Research Institute of Sri Lanka (RRISL) has about 2970m² of laboratory and office space at its Head Quarters in Agalawatta. Biological research departments and units are located in Agalawatta. In addition, Plant Breeding Department and the Training Center are located in Nivithigalakale substation, Mathugama. Technology Research Departments, Advisory Services Department and the Board Office situated at Rathmalana. Further, about 5313m² building space is available at substations located in Monararagla, Kuruwita and Polgahawela.

RRISL also owns approximately 492ha of lands at the Head Office Agalawatta, and its substations Nivithigalakale, Kuruwita, Polgahawela & Monararagla. In particular, Monararagla Substation is devoted to support the expansion process of the rubber cultivation in Monararagla District and in the Eastern Province.

Human Resources

Human resources are considered as the most important asset of any research organization and its qualification based profile is presented tables 1-4. Details of cadre positions are given in table 05. Around 32 scientists are engaged on research activities. Advisory Services Department has 05 Regional Extension offices and currently has only one Regional Officer. Total number of supporting staff for research is (Table 01).

HUMAN RESOURCE PROFILE BY DISCIPLINE ACROSS DIVISIONS

(As at 01st December 2022 with only the highest level of qualifications)

01. Research Extension Staff (only executive grades)

Discipline	Ph.D.	M.Phil.	M.Sc.	B.Sc.	Without Degree/Diploma	Total
Management	03	00	00	00	00	03
Genetics & Plant Breeding	01	00	00	00	00	01
Plant Science	01	01	00	01	00	03
Plant Pathology & Microbiology	02	00	00	00	00	02
Soils & Plant Nutrition	01	01	00	01	00	03
Biochemistry & Physiology	01	00	00	01	00	02
Polymer Chemistry	01	00	01	01	00	03







Raw Rubber and Chemical Analysis	01	01	00	00	00	02
Rubber Technology & Development	00	01	00	01	00	02
Raw Rubber Process Development & Chemical Engineering	00	00	00	00	00	00
Advisory Service	00	00	00	01	00	01
Biometry	00	00	00	01	00	01
Adaptive Research	01	00	00	01	00	02
Agricultural Economics	00	01	00	01	00	02
Estate	00	00	00	01	00	01
Grand Total	12	05	01	10	00	28

02. Research& Extension Support Staff (including staff grades)

Discipline	M.Phil.	M.Sc.	B.Sc.	Diploma	Without	Total
					Diploma/ Degree	
Genetics & Plant Breeding	01	00	02	01	01	05
Plant Science	00	01	06	01	01	09
Plant Pathology & Microbiology	00	02	02	01	00	05
Soils & Plant Nutrition	01	00	05	02	01	08
Biochemistry & Physiology	00	00	03	01	00	04
Advisory Service	00	00	09	04	01	14
Polymer Chemistry	00	00	04	01	00	05
Raw Rubber and Chemical Analysis	00	00	03	00	01	04
Rubber Technology & Development	00	01	04	02	00	07
Raw Rubber Process Dev. & Chemical Engineering	00	01	02	00	02	05
Biometry	00	00	00	01	00	01
Adaptive Research	00	00	00	02	00	02
Grand Total	02	05	40	16	07	70







03. Administrative Staff – Executives (non research)

Discipline	Degree	ICASL/CIMA/ ACCA/APFA	IRCA	Diploma	Without Dip./ Degree	Total
Administration	01	00	00	00	00	01
Accounts	01	00	00	00	00	01
Internal Audit	00	00	01	00	00	01
Audio Visual Aids Production	01	00	00	00	00	01
Works Section	01	00	00	00	00	01
Estate	01	00	00	00	00	01
Grand Total	05	00	01	00	00	06

04. Administrative Staff – Non Executives (including staff grades)

Discipline	Degree	RMP	Diploma	Without	Total
_			_	Diploma/	
				Degree	
Scientific Departments	01	00	00	11	12
Advisory Service Department	01	00	00	03	04
Administration Department	03	00	00	10	13
Accounts Section	02	00	00	12	14
Internal Audit Unit	00	00	00	01	01
Library & Publication	01	00	01	02	04
Board Office	00	00	00	02	02
Works Section	01	00	04	02	07
Estate Department	00	00	00	04	04
Instrument Repair Unit	00	00	00	00	00
Kuruwita Substation	00	00	00	02	02
Polgahawela Substation	00	00	00	01	01
Monaragala Substation	00	00	00	04	04
Grand Total	09	00	05	54	68





Annex 1

Cadre Information as at 31.12.2022

								prove adre		Actu	al Ca	dre	
Serial No.	Designation	Service	Grade	Salary Code	Salary Scale	Service Level	Permanent	Contract	Casual	Permanent	Contract	Casual	Other (Acting/)
1	Chairman					Senior Level							
2	Director		HM 2-3	HM 2-3	98215-12x2700-130615	Senior Level	1			0			
3	Additional Director		HM 2-1	HM 2-1	93020-12x2700-125420	Senior Level	1			0			
4	Deputy Director Research		HM 1-3	HM 1-3	86865-15x2270-120915	Senior Level	2			1			
5	Heads of Research Departments		HM 1-3	HM 1-3	86865-15x2270-120915	Senior Level	10			5			
6	Principal Research Officer		HM 1-3	HM 1-3	86865-15x2270-120915	Senior Level	14			2			
7	Principal Advisory Officer		HM 1-3	HM 1-3	86865-15x2270-120915	Senior Level	1			0			
8	Deputy Director (Administration)		HM 1-2	HM 1-2	81670 -15x2270 -115720	Senior Level	1			0			
9	Senior Accountant		HM 1-2	HM 1-2	81670 -15x2270 -115720	Senior Level	1			1			
10	Senior Manager - Estate		HM 1-1	HM 1-1	80295-15X2270-114345	Senior Level	1			1			
11	Senior Research Officer		AR 2	AR 2	76200-10X2000-96200	Senior Level	19			6			
12	Senior Advisory Officer		AR 2	AR 2	76200-10X2000-96200	Senior Level	2			0			
13	Accountant		1/II	MM 1-2	54550-10x1375-15x1910- 96950	Senior Level	1			0			
14	Manager - Estate		1/II	MM 1-2	54550-10x1375-15x1910- 96950	Senior Level	1			0			





15	Resident Engineer	1/II	MM 1-2	54550-10x1375-15x1910-96950	Senior Level	1	1		
16	Senior Administrative Officer	1/II	MM 1-2	54550-10x1375-15x1910-96950	Senior Level	1	1		
17	Network Administrator	1/II	MM 1-2	54550-10x1375-15x1910-96950	Senior Level	1	1		
18	Internal Auditor	1/II	MM 1-2	54550-10x1375-15x1910-96950	Senior Level	1	1		
19	Research Officer	1/II	AR 1	53150-10X1375-15X1910-95550	Senior Level	26	12		
20	Advisory Officer	1/II	AR 1	53150-10X1375-15X1910-95550	Senior Level	3	1		
21	Registered Medical Practitioner	1/II	JM 1-2	43355-10x755-18x1135-71335	Tertiary Level	1	0		
22	Administrative Officer	1/II	JM 1-2	43355-10x755-18x1135-71335	Tertiary Level	2	1		
23	Assistant Training Officer	1/II	JM 1-2	43355-10x755-18x1135-71335	Tertiary Level	1	1		
24	Engineering Assistant	1/II	JM 1-2	43355-10x755-18x1135-71335	Tertiary Level	1	1		
25	Librarian & Publication Officer	1/II	JM 1-2	43355-10x755-18x1135-71335	Tertiary Level	1	1		
26	Personal Asst. to Chairman	1/II	JM 1-2	43355-10x755-18x1135-71335	Tertiary Level	1	0		
27	Personal Asst. to Director	1/II	JM 1-2	43355-10x755-18x1135-71335	Tertiary Level	1	0		
28	Accounting & Procurement Officer	1/II	JM 1-2	43355-10x755-18x1135-71335	Tertiary Level	1	0		
29	HR Development Officer*	1/II	JM 1-2	43355-10x755-18x1135-71335	Tertiary Level	1	0		
30	PRO/Welfare Officer	1/II	JM 1-2	43355-10x755-18x1135-71335	Tertiary Level	1	0		
31	Development Officer*	1/II	JM 1-2	43355-10x755-18x1135-71335	Tertiary Level	1	0		
32	Rubber Extension Officer	1/II/III	MA-4	37970-10x755-15x930-5x1135- 65145	Tertiary Level	22	13		







33	Audio Visual Aids Producer Officer	1/II/III	MA-4	37970-10x755-15x930-5x1135- 65145	Tertiary Level	1	0		
34	Experimental Officer	1/II/III	MA-4	37970-10x755-15x930-5x1135- 65145	Tertiary Level	30	21		
35	Translator	1/II/III	MA-4	37970-10x755-15x930-5x1135- 65145	Tertiary Level	1	0		
36	Technological Officer (Civil)	1/II/III	MA 2-2	30310-10X300-7X350-4X600- 20X710-52360	Second ary Level	1	1		
37	Technological Officer (Mechanical)	1/II/III	MA 2-2	30310-10X300-7X350-4X600- 20X710-52360	Second ary Level	1	1		
38	Technological Officer (Electrical)	1/II/III	MA 2-2	30310-10X300-7X350-4X600- 20X710-52360	Second ary Level	1	0		
39	Library Asst. & Publication Asst.	1/II/III	MA 2-2	30310-10X300-7X350-4X600- 20X710-52360	Second ary Level	2	2		
40	Transport Officer	1/II/III	MA 2-2	30310-10X300-7X350-4X600- 20X710-52360	Second ary Level	1	1		
41	Management Assistant (Book-keeping)	1/II/III	MA 2-2	30310-10X300-7X350-4X600- 20X710-52360	Second ary Level	1	0		
42	Management Assistant (Store-keeping)	1/II/III	MA 2-2	30310-10X300-7X350-4X600- 20X710-52360	Second ary Level	2	0		
43	Pharmacist	1/II/III	MA 2-2	30310-10X300-7X350-4X600- 20X710-52360	Second ary Level	1	0		
44	Factory Officer	1/II/III	MA 2-2	30310-10X300-7X350-4X600- 20X710-52360	Second ary Level	1	0		







45	Technical Officer (Computer Hardware)	1/II/III	MA 2-2	30310-10X300-7X350-4X600- 20X710-52360	Second	1	()	
46	Technical Officer (Audio Visual)	1/II/III	MA 2-2	30310-10X300-7X350-4X600- 20X710-52360	Level Second ary Level	1	()	
47	Technical Officer (R & D)	1/II/III	MA 2-2	30310-10X300-7X350-4X600- 20X710-52360	Second ary Level	51	3	7	
48	Technical Officer (Instrument)	1/II/III	MA 2-2	30310-10X300-7X350-4X600- 20X710-52360	Second ary Level	2	()	
49	Field Officer	1/II/III	MA 2-2	30310-10X300-7X350-4X600- 20X710-52360	Second ary Level	12	4	ı	
50	Store Keeper*	1/II/III	MA 2-2	30310-10X300-7X350-4X600- 20X710-52360	Second ary Level	1	()	
51	Work Supervisors*	1/II/III	MA 2-2	30310-10X300-7X350-4X600- 20X710-52360	Second ary Level	7	()	
52	Assistant Factory Officer*	1/II/III	MA 2-2	30310-10X300-7X350-4X600- 20X710-52360	Second ary Level	1	()	
53	Management Assistant	1/II/III	MA 1-2	27910-10x300-7x350-12x600- 12x710-49080	Second ary Level	69	4	8	
54	Telephone Operator	1/II/III	MA 1-2	27910-10x300-7x350-12x600- 12x710-49080	Second ary Level	2	2	2	
55	Administrative Assistant *	1/II/III	MA 1-2	27910-10x300-7x350-12x600- 12x710-49080	Second ary Level	1	()	
56	Driver	1/II/III	PL-3	26290-10x270-10x300-10x330- 12x350-39490	Primary Level	30	2	0	





57	Electrician/Linesman	1/II/III	PL-3	26290-10x270-10x300-10x330- 12x350-39490	Primary Level	4	3		
58	Carpenter	1/II/III	PL-3	26290-10x270-10x300-10x330- 12x350-39490	Primary Level	4	2		
59	Mason	1/II/III	PL-3	26290-10x270-10x300-10x330- 12x350-39490	Primary Level	4	1		
60	Plumber	1/II/III	PL-3	26290-10x270-10x300-10x330- 12x350-39490	Primary Level	2	3		
61	Artist	1/II/III	PL-3	26290-10x270-10x300-10x330- 12x350-39490	Primary Level	1	0		
62	Polisher/Painter	1/II/III	PL-3	26290-10x270-10x300-10x330- 12x350-39490	Primary Level	1	0		
63	Mechanic	1/II/III	PL-3	26290-10x270-10x300-10x330- 12x350-39490	Primary Level	1	0		
64	Motor Mechanic	1/II/III	PL-3	26290-10x270-10x300-10x330- 12x350-39490	Primary Level	2	0		
65	General Mechanic	1/II/III	PL-3	26290-10x270-10x300-10x330- 12x350-39490	Primary Level	1	1		
66	Ref./Air-conditioning/Electrician	1/II/III	PL-3	26290-10x270-10x300-10x330- 12x350-39490	Primary Level	1	1		
67	Tinker/Painter	1/II/III	PL-3	26290-10x270-10x300-10x330- 12x350-39490	Primary Level	1	1		
68	Tinker/Welder	1/II/III	PL-3	26290-10x270-10x300-10x330- 12x350-39490	Primary Level	1	1		
69	Blacksmith	1/II/III	PL-3	26290-10x270-10x300-10x330- 12x350-39490	Primary Level	1	1		
70	Laboratory Attendant	1/II/III	PL 2	25750-10x270-10x300-10x330- 12x350-38950	Primary Level	46	36		
71	Guest House Keeper	1/II/III	PL-2	25750-10x270-10x300-10x330- 12x350-38950	Primary Level	2	0		
72	Engine Driver	1/II/III	PL -2	25750-10x270-10x300-10x330- 12x350-38950	Primary Level	1	1		
73	Junior Assistant Field Officer *	1/II/III	PL 2	25750-10x270-10x300-10x330- 12x350-38950	Primary Level	0	2		





74	Office//Club/Library/Stores Attendants	1/II/III	PL 1	24750-10x250-10x270-7x300- 15x330-37000	Primary Level	26	26	
75	Creche attendant	1/II/III	PL 1	24750-10x250-10x270-7x300- 15x330-37000	Primary Level	01	01	
75	Vehicle Attendant	1/П/ІІІ	PL 1	24750-10x250-10x270-7x300- 15x330-37000	Primary Level	3	3	
76	Watcher	1/II/III	PL 1	24750-10x250-10x270-7x300- 15x330-37000	Primary Level	10	09	
77	Labourer	1/II/III	PL 1	24750-10x250-10x270-7x300- 15x330-37000	Primary Level	1	1	
78	Dispensary Attendant	1/II/III	PL 1	24750-10x250-10x270-7x300- 15x330-37000	Primary Level	2	2	
79	General Worker (Generator Oper.)	1/II/III	PL 1	24750-10x250-10x270-7x300- 15x330-37000	Primary Level	1	1	
80	Gardner	1/П/ІІІ	PL 1	24750-10x250-10x270-7x300- 15x330-37000	Primary Level	2	2	
81	General Worker (Gene./Water Pump)	1/II/III	PL 1	24750-10x250-10x270-7x300- 15x330-37000	Primary Level	3	3	
82	General Worker (Masonry)	1/II/III	PL 1	24750-10x250-10x270-7x300- 15x330-37000	Primary Level	1	1	
83	General Worker (Motor Vehicles)	1/II/III	PL 1	24750-10x250-10x270-7x300- 15x330-37000	Primary Level	1	1	
84	General Worker (Painting/Polishing)	1/П/ІІІ	PL 1	24750-10x250-10x270-7x300- 15x330-37000	Primary Level	1	1	
85	General Worker (Plumbing)	1/II/III	PL 1	24750-10x250-10x270-7x300- 15x330-37000	Primary Level	1	1	
86	General Worker (Water Pump Oper.)	1/II/III	PL 1	24750-10x250-10x270-7x300- 15x330-37000	Primary Level	3	3	
87	Sanitary Attendant	1/II/III	PL 1	24750-10x250-10x270-7x300- 15x330-37000	Primary Level	2	2	







88	General Worker (Carpentary)	1/II/III	PL 1	24750-10x250-10x270-7x300- 15x330-37000	Primary Level	1	1		
89	General Worker (Electrical)	1/II/III	PL 1	24750-10x250-10x270-7x300- 15x330-37000	Primary Level	1	1		
90	General Worker (Cooking)	1/II/III	PL 1	24750-10x250-10x270-7x300- 15x330-37000	Primary Level	1	1		
91	General Worker	1/II/III	PL 1	24750-10x250-10x270-7x300- 15x330-37000	Primary Level	00	21		
	Total					475	321		

^{*} No Scream of Recruitment for these posts





RECRUITMENT SCHEDULE FOR SOME OF THE VACANCIES TO BE FILLED DURING THE YEAR 2023

No.	Designation	Approved	No. of Vacancies	Time of
		cadre	Scheduled to be	recruitment
			filled	Scheduled
01	Director	01	01	
02	Principal Research Officer	10	01	
03	Senior Research Officers	16	16	
04	Senior Advisory Officers	02	02	
05	Manager - Estate	01	01	
06	Research Officers	12	10	
07	Accounting & Procurement Officer	01	01	
08	P.A. to Director	01	01	
09	Translator	01	01	
10	Pharmacist	01	01	
11	Management Assistant (Book Keeping)	01	01	
12	Rubber Extension Officer	09	06	
13	Audio Visual Aida Production Officer	01	01	
14	Technical Officer (R & D)	14	09	
15	Technical Officer (Audio Visual)	01	01	
16	Technical Officer (Computer Hardware)	01	01	
18	Technical Officer (Instrumental)	02	02	
19	Technological Officer (Electrical)	01	01	
20	Factory Officer	01	01	
21	Field Officers	08	04	







22	Management Asst. (S.K.)	02	02	
23	Drivers	10	09	
24	Polisher/Painter	01	01	
25	Mechanic	01	01	
26	Motor Mechanic	02	02	
27	Mason	03	03	
28	Carpenter	01	01	
29	Lab. Attendant	09	09	
30	Guest House Keeper	02	02	
	Total	116	92	





ACHIEVEMENTS DURING LAST FIVE YEARS

Rubber Research Institute of Sri Lanka has a proud record in all fields of rubber research with international recognition. Some achievements made during the last five years for the development of the rubber industry of the country are given below.

2022

- Extension officers (142) from RDD, ASD and Thurusaviya have been given training on Low Intensity Harvesting (LIH) and use of ethephon.
- Smallholders (1834) belonging to 38 RDO divisions and managers, field staff and harvesters (1313) from 58 RPCs were given theoretical and practical awareness to adopt LIH system (S/2 d4).













- Laboratory procedures were established as per ISO 17025 Laboratory accreditation status.
- Participated in the proficiency-testing programme conducted by the Malaysian Rubber Board and showed outstanding performance among 15 international latex testing laboratories.
- Field latex was modified to replace the currently used synthetic polymer based binder employed in the production of paper based on fibres of the "Mana" weed (Figure 1).



Figure 1. Use of a novel natural rubber latex based binder in manufacture of paper out of the fibers of "Mana" weed

- Tyre tread compound was developed using environmental and user-friendly sesame oil as an alternative to petroleum based aromatic processing oil.
- Crepe rubber based fishing bait was developed in collaboration with Samson International PLC at the request of Ministry of Fisheries and Aquatic Resources Development (Figure 2).



Figure 2. Crepe rubber based fishing bait

- Crepe rubber based cellular compound for yoga mat was developed in collaboration with a rubber product manufacturing company.
- Crepe rubber based compound for a toy item for pets was produced at the request of an entrepreneur.
- Novel rubberized-coir based slipper sole was produced at the request of an entrepreneur.





• Low cost, novel shoe sole with different designs was produced using tyre crumbs (GRT) and compounded natural rubber latex at the request of a tyre crumb manufacturing company (Figure 3).



Figure 3. Shoe soles produced with tyre crumbs (GRT) and compounded natural rubber latex

- Reduced graphene oxide (rGO) was synthesized and natural rubber composites containing rGO were produced.
- Natural rubber based dental device was produced at the request of an entrepreneur.
- Natural rubber based compound for a novel machine was developed at the request of an entrepreneur
- Crepe rubber based compound was developed to produce erasers.
- 147 crepe rubber, 517 rubber compound, 29 rubber product and 40 polythene sample tests were conducted and reports were issued at the request of the rubber industry and state universities.
- 32 entrepreneurs / rubber small holders were trained at RRISL, Rathmalana on "Rubber product manufacture" on their request. Also, groups of 14 rubber small holders were trained at RRISL, Rathmalana on "Manufacture of rubber products at cottage level" in collaboration with the Advisory Services Department in connection with the "Livelihood Development Program" (Figure 4).



Figure 4. Workshop on "Rubber product manufacture at cottage level" held at RRISL, Rathmalana





- Rubber Technology and Development department in collaboration with the Advisory Services department of RRISL conducted a workshop for 13 female entrepreneurs on manufacture of paper based on fibers of "Mana" weed using the novel binder developed with modified field latex at the request of the Divisional Secretariat, Galigamuwa
- Latex harvesting was commenced in the first established rubber field in the Mullaitivu district of the Northern Province.



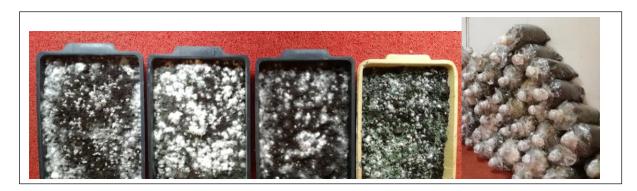
- The carbon trading project developed for voluntary carbon market with the 3,000 hectares of new rubber cultivations in Uva and Eastern Provinces was validated by a third-party accredited auditor for Verified Carbon Standards (VCS).
- Awareness programmes were conducted to educate rubber growers on dry zone rubber cultivation in Horowupathana of Anuradhapura district and feasibility studies were conducted for suitability assessments.
- Farmer participatory adaptive research trials were established in Horowupathana, Nochchiyagama and Nuwaragam Palatha Central Divisional Secretariats of Anuradhapura district.
- A training programme was conducted on latex harvesting and sheet rubber processing for rubber farmers in the Northern Province at Vavuniya in collaboration with the Advisory Services Department.
- Development of five interim rubber clones to the rubber growers.





2021

• Registration of two native biopesticides isolated from rubber growing soils against the white root disease



• Rubber compounds suitable to produce brake pads, brake washers and cable guides used in vehicles as well as a rubber component for a biomedical item produced in Sri Lanka were developed at the request of medium scale rubber product manufacturing companies.



Auto mobile components

• Sixty-four on farm participatory research trials were completed for compost application covering 131.8 total acres. Districts – Kalutara, Kurunegala, Kandy/Matale, Kegalle, Matara, Galle, Colombo, Ratnapura

Mature lands -27 (Acres -68) Immature lands -37 (Acres 63.8)

Demonstration plots for organic manure application - Kalutara Range

















Demonstration plots for organic manure application – Ittapana Range

Demonstration plots for organic manure application – Mathugama

• Introduction and Establishment of pasture in selected land of rubber smallholders in Kalutara district.

Objective of this study was to improve the livelihood of rubber smallholder sector by introducing an extra income.

Fourteen farmers were participated for the project covering 12 acres.



Harvesting of pasture in Kalutara district

• Promotion of cinnamon as a boundary crop for the rubber plantations. There have been no marked variations of growth and yield of rubber adjacent to the fence crops.









Graphene oxide was synthesized successfully using graphite as intermediate material in the synthesis of nanographene, which will be used in manufacture of electronic components.













Graphene oxide

Graphite

Development of two rubber intercropping models with Guava and Soursop





Field establishment of Reusable Fertilizer Porous Tube

Establishment of environmental friendly, economically viable slow release fertilizer technique to improve crop performance of *Hevea* at 14 estates under Pussellawa, Agalawatta, Kelani Velly and Kegalle Plantations and six small holder sites.



Preparation of Porous tubes for field application





2020

• Two new commercial ethephon formulations i.e. water based and oil based were developed locally.



- Use of the **Reusable Slow Release Fertilizer Porous Tube** (RSPT) has resulted in significantly higher in plant girth (20%), soil exchangeable Mg, leaf nitrogen and magnesium over the conventional fertilizer application.
- Shoes were produced for the export market in collaboration with a medium scale manufacturer by partial replacement of virgin rubber in out-sole
 compounds with patented novel reclaimed rubber developed using an environmental friendly reclaiming agent with the aim of reducing the cost of
 shoes.
- NR based composites with synthesized micro and nano fibers of coir were developed with the aim of replacing carcinogenic carbon black and enhancement of properties.
- Initial development of NR latex based fashionable gloves to protect against the Covid-19 pandemic.



- NR latex compound as a waterproof coating material for tents made out of fabric was developed on a request made by a client as a need during Covid-19 pandemic.
- NR based composites with durian husk fibres as a partial replacement for carbon black, which has been identified as a carcinogenic ingredient, were developed and shoe soles were produced in collaboration with the Textile Department, Open University of Sri Lanka.





2019

- Natural rubber latex foam was produced successfully using creamed latex for the benefit of Small and Medium Enterprises.
- Natural rubber latex based nontoxic adhesive was developed using a plant based preservative and tackifying agent at the request
 of a toy company and the formulation was transferred to the company.
- Natural rubber based formulation suitable to produce protective caps for bicycles were developed.
- A non toxic, transparent natural rubber based compound for teats and teething rings was developed for a toy company.
- Natural rubber/Ethylene Propylene Diene Monomer blend compound suitable for an automobile application was developed.
- Novel nitrosamine free preservative system was developed for natural rubber latex.
- Coir pith and elephant dung were found to be better sowing media than river sand for germination of rubber seeds.
- Polybags of reduced sizes (from 15" x 6" to 15" x 4") were found effective for raising budded rubber plants.
- Antioxidant treatments were found to be effective in arresting tapping panel dryness of rubber trees.
- A new microbial based medium was introduced for rapid skeletanization of rubber leaves.
- Application frequency of mammalian pest repellant was identified as six months for the Intermediate zone.
- Once in four days harvesting system was introduced successfully, to rubber smallholder sector.
- Raw Rubber and Chemical Analysis Department was renovated according to international quality standards in view of achieving ISO 17025 Laboratory Accreditation, which is an urgent requirement for the rubber industry in Sri Lanka.
- Mobile apps for technological solutions in the rubber industry was introduced.











2018

- Single application of newly developed fertilizer encapsulated coir bricks (ECB) was found to be sufficient achieving required growth rate in immature rubber plants under field conditions.
- Reusable porous fertilizer tube was developed for immature rubber plants, with maximize fertilizer use efficiency and minimize wastage.
- "Saka Sara" liquid organic fertilizer was developed by using freely available organic materials, green manure, farm yard manure, crop residues, locally available Eppawala Rock Phosphate (ERP) and Dolomite.
- Two soil maps relevant to rubber growing areas in Kalutara and Ratnapura districts were developed and ten different soil series were identified.



- Use of polythene and shade net as alternative weed management practices showed no weed regeneration around the base of immature plants up to 18 months.
- A protocol for local production of ethephon stimulant was developed.
- Natural rubber composites were developed with surface treated fibres of the pineapple crown as well as Arricanut husk with the aim of developing green rubber composites. NR based composites were prepared using plant based non-modified and modified Moringaoleifera crude.
- Presidential merit award in the "Chemistry" category was received for the patented mechano-chemical reclaiming process (Oreclaim) for ground rubber tyre developed using a natural product.
- A mechano-chemical reclaiming process was developed for NR based carpet waste on the request of a large scale rubber product manufacturer and the technology was transferred to the company.
- A non-conductive NBR based compound was developed for grommet used in assembling of electric cables, SBR based compound for condenser end mount and wiring bunch bush and EPDM based compound for suction end mount on requests made by a private company engaged in assembling electrical components. Technology were transferred to the comp.





BUDGET ESTIMATES- 2023

Head No. 410-02-03-1-1503 / 1509

Recurrent Expenditure – 2023

Object Code	Category/Object Title	Sche. No.	Revised Budget 2022 Rs.000's	Exp up to 30.11.2022	Budget 2023 Rs.000's
	Recurrent Expenditure				
	Personal Emoluments		350,000	297,999	387,000
1001	Salaries & wages	1	223,412	201,269	212,784
1002	Overtime & Holiday Payments		12,000	9,095	19,454
1003	Other Allowances	2	114,588	87,634	154,762
	Travelling Expenses		7,200	7,002	14,000
1101	Domestic		7,200	7,002	8,000
1102	Foreign		1		6,000
	Supplies		19,025	17,307	21,200
1201	Stationary & Office Requisites		4,500	3,766	5,000
1202	Fuel		12,700	12,023	13,000
1205	Other	3	1,825	1,518	3,200





BUDGET ESTIMATES- 2023

Head No. 410-02-03-1-1503 / 1509

Recurrent Expenditure – 2023

Object Code	Category/Object Title	Sche. No.	Revised Budget 2022 Rs.000's	Exp up to 30.11.2022	Budget 2023 Rs.000's
	Maintenance Expenditure.		9,224	8,929	17,000
1301	Vehicles		3,474	3,337	7,000
1302	Plant, Machinery & Equipment		2,250	2,243	5,000
1303	Building & Structures - Repairs & Maintenance		3,500	3,349	5,000
	Services		47,111	37,527	55,350
1401	Transport/Hiring Vehicles		160	130	200
1402	Postal and Communication		2,808	2,730	4,000
1403	Electricity and Water		6,500	6,006	7,000
1404	Rents and Local Taxes		1,030	1,025	400
1405	Other	4	36,613	27,636	43,750
	Total Recurrent Expenditure		432,560	368,764	494,550





RUBBER RESEARCH INSTITUTE OF SRI LANKA BUDGET ESTIMATE

Recurrent Expenditure (Detailed) – 2023

Object Code	Category/Object Title	Sche, No.	Revised Budget 2022 Rs.000's	Exp. up to 30.11.2022	Budget 2023 Rs.000's
1001	Salaries & Wages	1	223,412	201,269	212,784
	Salaries & Wages		189,220	170,017	179,766
	EPF Contribution		28,497	26,047	27,488
	ETF Contribution		5,696	5,206	5,530
1002	Overtime & Holiday Payments		12,000	9,095	19,454
	Overtime & Holiday Payments		12,000	9,095	19,454
1003	Other Allowances	2	114,588	87,634	154,762
	Cost of Living		31,964	29,172	31,730
	Rent and other Allowance		1,140	919	1,200
	Gratuity Payments		3,750	1,118	33,752
	Medical Benefits		40,562	36,177	44,432
	Research Allowances		15,736	2,828	21,136
	Professional allowance		3,200	2,983	3,240
1401	Transport		12,554	11,508	6,600
1202	Fuel Allowances		12,554	11,500	7,586
1402	Telephone Allowance		5,682	2,929	5,085
1205	Other Supplies	3	1,825	1,518	3,200
	Medical Expenditures		635	537	600





RUBBER RESEARCH INSTITUTE OF SRI LANKA BUDGET ESTIMATE

Recurrent Expenditure (Detailed) – 2023

Object Code	Category/Object Title	Sche. No.	Revised Budget 2022 Rs.000's	Exp. up to 30.11.2022	Budget 2023 Rs.000's
	Other Consumables		440	234	2,000
	L.P. Gas Expenditures		750	747	600
1405	Other Services	4	36,613	27,636	43,750
	Printing Charges/ Publications		170	142	500
	Insurance Expenditures		1,500	1,385	1,500
	Polgahawela Sub Station Maintenance		190	120	500
	Monararagla Sub Station Maintenance		345	290	500
	Field Expenditures		1,300	789	2,000
	IRRDB Contribution /Exp		4,800	1,001	2,500
	Administrative & General Charges		4,058	3,665	6,000
	Welfare Expenditures		250	244	250
	Contractual services for Research Support		24,000	20,000	30,000
	Revenue	5	32,560	21,314	52,550
	Other Income		27,560	18,814	41,550
	Revenue - DF Estate		5,000	2,500	11,000





BUDGET ESTIMATE

Capital Expenditure – 2023

Object Code	Category/Object Title	Sche: No.	Revised Budget 2022	Exp. up to 30.11.22	Budget 2023
	CAPITAL EXPENDITURE				
	Rehabilitation and Improvement of Capital Assets		1,500	1,438	4,000
2001	Buildings - Rehabilitation				
2002	Plant, Machinery and Equipment				-
2005	Maintenance of Buildings		1,500	1,438	4,000
	Acquisition of Capital Assets		2,500	495	-
2102	Furniture and Office Equipment				
2106	Other- Laboratory Equipment's		2,500	495	-
	Library Books				
	Development Capital		7,500	5,185	7,500
2105	Lands and Land Improvements- Research & Dev.		500	24	500
	Monaragla Substation Nursery		4,800	4,691	4,800
	Establishment of Adaptive Research Trials (Polgahawela)		200	73	200
	Establishment of Research Trials (North East)		500		500
	Human Capital Development Programme		1,500	397	1,500
	Research Projects		18,500	15,166	18,500
	Research and Development		18,500	15,166	18,500
	Total Capital Expenditure - CF		30,000	22,284	30,000







BUDGET ESTIMATE Capital Expenditure – 2023

Object Code	Category/Object Title	Sche: No.	Revised Budget 2022	Exp. up to 30.11.22	Budget 2023
	Special Capital Projects MPI - On Going		36,000	11,750	66,310
	Screening of drought/stress tolerant Hevea Clones for sustainable rubber cultivation in marginal areas		3,240	1,590	14,500
	Establishment of accredited laboratory and enhancement of testing facilities for rubber industry in Sri Lanka		10,460	210	-
	Establishment of environmental friendly, economically viable slow release fertilizer technique		7,660	3,010	27,290
	Monitoring and optimizing the performance of rubber effluent treatment plants to improve the treatment efficiency and ensure the work place safety.		5,640	2,070	10,780
	Studies on the biology and epidemiology of the Pestalotiopsis Leaf fall disease and to develop effective management strategies		8,000	4,840	13,740
	Establishing a group of small-scale rubber product manufacturing entrepreneurs		1,000	30	-
	Total Capital Expenditure		66,000	34,034	96,310





BUDGET ESTIMATE Capital Expenditure – 2023

Object Code	Category/Object Title	Sche.No.	Total Rs. 000's
	Expenditure		
	Personal Emoluments		387,000
	Recurrent Expenditure		107,550
	Capital Expenditure - CF		30,000
	Capital Expenditure - SMTR		66,310
	Total		590,860
	Financed by		
	Own Revenue - from RRI		41,550
	Own Revenue - from DF		11,000
	Treasury Grant – Personal Emoluments (1503)		387,000
	Treasury Grant – Other Recurrent (1509)		55,000
	Treasury Grant - Capital (2201)		30,000
	Treasury Grant - Capital (2201) SMTR		66,310
	Total		590,860





CASH FORECAST FOR SPECIAL CAPITAL DEVELOPMENT PROJECTS

Annex 4

Project			vironmenta	• /		•				-	-	crop –		
Name: CF MPI	performar	ice and est	ablishment	of accred	lited labo	ratory to	supply go	od servic	e to the ru	ibber ind	lustry			
Month (2023)		Jan.	Feb.	Mar.	Apr.	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Financial Requirement	Recurrent													
(Rs.Mn)	Capital	0.51	1.5	2.51	2.0	1.5	3.37	2.64	2.64	2.64	2.66	2.66	2.66	27.29
Project Name:	Screening	of drough	t /stress tol	erant <i>Hev</i>	ea clones	for sustai	nable Ru	bber cult	ivation in	margina	l areas			
CF MPI														
Month (2023)		Jan.	Feb.	Mar.	Apr.	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Financial	Recurrent													
Requirement (Rs.Mn)	Capital	0.5	1.5	1.5	2.5	3.5	3.0	0.5	0.5	1.0	-	-	-	14.50
Project	Monitorin	g and opti	mizing the	performa	nce of rul	bber efflu	ent treati	nent plan	ts in Sri L	anka to	improve t	he	•	•
Name:	treatment	efficiency	and ensure	;										
CF MPI	1		T				1	1		ı				
Month (2023)		Jan.	Feb.	Mar.	Apr.	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Financial	Recurrent													
Requirement (Rs.Mn)	Capital	0.98	1.0	1.5	0.55	0.55	0.55	1.0	1.5	2.6	0.15	0.15	0.25	10.78
Project	Studies on	the biolog	y and epid	emiology	of the Pes	talotiopsi	s Leaf fal	l disease	and to dev	elop effe	ective			
Troject		_		00		_								
Name:	manageme	_		<i>&</i>		-								
Name: CF MPI		_												
Name: CF MPI Month (2023)		_		Mar.	Apr.	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Name: CF MPI Month		ent strateg	ies			May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total





ACTION PLAN 2023 RUBBER RESEARCH INSTITUTE OF SRI LANKA

Thrust Area

Recommendations on technologies and technology transfer to enhance productivity and profitability of rubber cultivation and rubber product manufacturing through research and development activities

Major research & development tasks for 2023

- 1. Establishment of tyre testing center and provide testing facilities for different forms of raw rubber and rubber products to promote the product development sector.
- 2. Improvement in land productivity of rubber through the knowledge enhancement and skill development in the plantation sector.
- 3. Promotion of SMEs and rubber small holders in rubber product manufacture with knowledge inputs and by assisting in troubleshooting.
- 4. Development of area/ site-specific environmental friendly, economically viable slow release fertilizer recommendation to maximize the efficiency of fertilizer usage.
- 5. Carrying out research to facilitate rubber associated product development for value addition.
- 6. Provide testing facilities for different forms of raw rubber and rubber products to promote the process and product development sectors, respectively.
- 7. Testing new methodologies to control pests & diseases and weeds in rubber lands
- 8. Promotion of rubber sector to a cleaner industry.
- 9. Enhance the vigilance on new pest and disease threats to rubber cultivation.
- 10. Feasibility studies in developing eco-tourism in rubber plantations
- 11. Issuance of 125,000 carbon credits to the voluntary carbon market by the project developed with 3,000 hectares of new rubber cultivations in Uva and Eastern Provinces.
- 12. Obtain the accreditation standards for the organizational carbon footprint of the Rubber L Research Institute of Sri Lanka.

- 13. Development of three nano composites with natural rubber and reduced graphene oxide nano sheets for special applications.
- 14. Development of environmental friendly two rubber composites with green materials.
- 15. Analysis of climate change and variability indicators to study climate parameters in Rubber growing areas
- 16. Development of a novel cross-linking system for peroxide vulcanization of natural rubber
- 17. Development of new clones with high yields, vigour, and drought and disease tolerance/resistance through accelerate the breeding procedures.
- 18. Introduction low intensity harvesting systems for rubber growers.
- 19. Identification of effect of new leaf disease on latex diagnosis and yield determinant factors
- 20. Provide guidelines to improve the livelihoods of rubber holdings and formulation of effective policy measures
- 21. Ensure the issuing of the quality of rubber plants produced from government and RPCs for rubber growers
- 22. Introduction of an improved irrigation system and bud-grafting technique.
- 23. Identification of five heavy metal ions in NR latex in different climatic areas and evaluation of their effect on latex maturity and compound stability.

Allocation of funds for the January to December 2023 (Rs. Million)

Timocation of Tanas for t	ne bundary to r	receniber 2028	(145) Million)
Source of fund	Capital	Recurrent	Total
Consolidated fund	30.00	442.00	472.00
Consolidated fund – Thro SMTR	66.31	-	66.31
Generated fund	-	52.55	52.55
Grand Total	96.31	494.55	590.86





Procurement Plan for year 2023

Annex 5i

Dept./Line Agency/ Ministry	Procurement Category (Goods, Works & Services etc.)	Estimated Cost Rs.(Mn)	Source of finance name of Donor	Procurement method (CB, LIB, LNB, NCB and National shopping etc.)	Level of Authority	Priority status U- Urgent P- Priority N- Normal	Current Status procurement preparedness activities	Schedule Date of Commencement	Schedule date of completion	Fi		l Targe Mn)	ets	Remarks
	GOODS									Q1	Q2	Q3	Q4	
	Furniture and Office Equipment			ıce										
	Plant, Machinery & Equipment			al rdan es										
	Other Laboratory Equipment			ion coo										i
	Library Books			Nat n ac ser										İ
	WORKS			ed] le in ınd										1
	Building Rehabilitation & Improvements Building			Restricted National pplicable in accord works and services			'als							
	Structures-Repairing of Internal Roads			3) / Re as app ods/ w			pprov							
	Maintenance of Buildings	4.00	CF	(NCI pping or goo	DPC (Minor)	P	sary A	01.01.2023	30.06.2023		2.00	2.00		
	Research Projects			ling shoj es f			ces							
	Research and Development	18.50	CF	e Bidd (B) / S idelin	DPC (Minor)	P	Awaiting Necessary Approvals	01.01.2023	31.12.2023	4.63	4.63	4.63	4.63	
	New Research projects	-		itiv (LN t gu			aiti							
	SERVICES			ing ing			Aw							
	Lands and Land Improvements- R&D	0.50	CF	National Competitive Bidding (NCB) / Restricted National Competitive Bidding (LNB) / Shopping as applicable in accordance with procurement guidelines for goods/ works and services	DPC (Minor)	P		01.01.2023	31.12.2023	0.13	0.13	0.13	0.13	
	Monaragala Substation Nursery	4.80	CF	Vation Setitive 7ith pr	DPC (Minor)	P		01.01.2023	31.12.2023	1.20	1.20	1.20	1.20	
	Establishment of Adaptive Research Trails, Polgahawela	0.20	CF	N Comp	DPC (Minor)	P		01.01.2023	31.12.2023	0.05	0.05	0.05	0.05	







Procurement Plan for year 2023

Establishment of Research (Eastern and Northern) Provinces	0.50	CF	DPC (Minor)	P	01.01.2023	31.12.2023	0.13	0.13	0.13	0.13
Human Capital Development Project (Foreign/Local)	1.50	CF	DPC (Minor)	P	01.01.2023	31.12.2023	0.38	0.38	0.38	0.38
Sub Total	30.00				-	-	6.50	8.50	8.50	6.50
Special Capital Projects- MPI										
Screening of drought/stress tolerant Hevea Clones for sustainable rubber cultivation in marginal areas	14.50	CF	DPC (Minor)	P	01.01.2023	31.12.2023	1.45	2.90	4.35	5.80
Establishment of environmental friendly, economically viable slow release fertilizer technique	27.29	CF	DPC (Minor)	P	01.01.2023	31.12.2023	2.73	5.46	8.19	10.92
Monitoring and optimizing the performance of rubber effluent treatment plants to improve the treatment efficiency and ensure the work place safety.	10.78	CF	DPC (Minor)	Р	01.01.2023	31.12.2023	1.08	2.16	3.23	4.31
Studies on the biology and epidemiology of the Pestalotiopsis Leaf fall disease and to develop effective management strategies	13.74	CF	DPC (Minor)	P	01.01.2023	31.12.2023	1.37	2.75	4.12	5.50
Sub Total	66.31						6.63	13.26	19.89	26.52
Total	96.31						13.13	21.76	28.39	33.02







Action Plan for Revenue Collection

Rs. Mn.

Dont	Duccus	A adiadda	Key Performance				Taı	gets				Output	Outcome (Total	Responsible Officer
Dept.	Programme	Activities	Indicators Indicators		Q1		Q2		Q3		Q4		otal	Income	Officer
	Technical assistance on manufacture	Testing of raw rubber, rubber compounds and products at the request of the industry	Number of samples tested	175	0.30	200	F 0.40	200	0.40	P 200	F 0.40	775	1.50		
RT & D	of value added products	Training entrepreneurs / rubber small holders on "Rubber Product Manufacture"	No. of services provided	50	0.10	50	0.10	50	0.10	50	0.10	200	0.40	3.65	H/ RT & D
	Manufacture of rubber products for local and foreign markets	Development of latex /dry rubber based new / novel rubber compounds / products at the request of the local rubber products manufacturing industry including consultancy charges	No of products	3	0.40	3	0.45	3	0.45	3	0.45	12	1.75		
	Client	Providing Testing Services	Number of samples tested	250	0.50	500	0.65	500	1.00	500	0.87	1,750	3.02		
PC	requested Programmes	Training programs and workshops	No. of Training prog. and workshops	1	0.50	1	0.50	1	0.50	1	0.65	3	2.15	5.17	H/ PC
RR & CA	Client requested Programmes	Providing Testing Services	Number of samples tested	150	0.55	250	1.15	250	1.00	250	0.55	900	0.75	4.00	H/RR&CA



RUBBER RESEARCH INSTITUTE OF SRI LANKA Action Plan for Revenue Collection Rs. Mn.

RR&CA		Sampling, inspection services and troubleshooting activities	Number of inspections	1	0.01	1	0.01	1	0.01	1	0.01	4	0.04	0.56	
RRACA		Training programs and workshops	No. of Training prog. and workshops	1	0.13	1	0.13	1	0.13	1	0.13	4	0.52	0.36	
Tyre	Client	Providing Testing Services (ICP OES)	Number of samples tested	150	0.45	200	0.60	200	0.60	200	0.60	750	2.25	0.71	DDD#
Centre	requested Programmes	Training programs and workshops	No. of Training prog. and workshops	1	0.03	1	0.08	1	0.08	1	0.08	4	0.26	2.51	DDRT
	Technical assistance on adoption of	Theoretical and practical awareness	No of Programes	2		2		2		2		8	-		
ВС	low intensity harvesting systems	Trouble shooting on LIH and use of yield stimulant	No of activities	5		5		5		5		20	-		
	Productivity improvement	Development of site specific stimulation protocols for abandoned rubber lands	No of activities	2		2		2		2		8	-	0.72	Н/ВС
	Ethephon sample testing	Investigate ET%	Number of samples tested	5	0.09	5	0.09	5	0.09	5	0.09	20	0.36		





Action Plan for Revenue Collection

Rs. Mn.

			riction r				011001								
	Climate	Conducting workshop on dev. carbon trading projects for voluntary carbon markets	No of workshops	1	0.10	-	-	1	0.10	-	-	2	0.20		
ARU	Change Mitigation	Conducting workshop on organizational carbon footprint calculation	No of workshops			1	0.10			1	0.10	2	0.20	0.80	PRO/ARU
		Consultancy on carbon footprint calculation	Number of reports issued			1	0.20			1	0.20	2	0.40		
		Conducting workshop on Microsoft Excel for RPCs	No of Training Prog.	1	0.10			1	0.10			2	0.20		
BM & Econ	Training	Conducting workshop on basic statistical methods (20 No.)	No of workshops			1	0.15			1	0.15	2	0.30	0.80	PRO/BM
		Conducting workshop on building basic skills on GIS (20 No.)	No of workshops			1	0.15			1	0.15	2	0.30		
PP& MB	Testings	Quarantine testing	Number of reports issued	5	0.05	10	0.05	10	0.05	10	0.05	35	0.20	0.38	H /PP&MB
PP& MID	Testings	Microbiological testing	Number of reports issued	10	0.03	10	0.05	10	0.05	10	0.05	40	0.18	0.38	H/PP&MD
	Soil and Foliar Survey Programme	Provide site specific fertilizer recommendation for mature rubber	Number of samples tested	5%		10%	1.00	40%	1.00	45%	1.00	100%	3.00	4.40	H/S&PN
S&PN	Land suitability evaluation programme	Select suitable land for rubber cultivation in traditional as well as non-traditional areas	Number of reports issued	25%	0.15	25%	0.15	25%	0.15	25%	0.15	100%	0.60		
	Analytical services	Provide analytical reports to stakeholders on fertilizer, soil. Water and plant samples	Number of reports issued	25%	0.20	25%	0.20	25%	0.20	25%	0.20	100%	0.80		





Action Plan for Revenue Collection

Rs. Mn.

					I I I I I									,	
G&PB	Training and workshop on molecular strategies	Conduct workshops or training	No. of trainings/ workshops	-	-	4	0.1	4	0.1	6	0.3	14	0.50	0.50	H/G&PB
	Rubber	Issuing bud wood plants	No. of plants	-	-	600	0.15			600	0.15	1200	0.30		
PS	nursery service	Issuing bud woods	No. Of bud wood meters	80	0.05	80	0.05	80	0.05	80	0.05	320	0.20	0.50	H/PS
RRPD&CE	Client requested	Testing Charges	Number of reports issued	150	0.20	250	0.50	250	0.52	250	0.50	900	1.72	1.92	H/RRPD&
Idd Back	Programmes	Training programs and workshops	No of workshops	1	0.05	1	0.05	1	0.05	1	0.05	4	0.20	1.72	CE
	In service training for Rubber Dev. officers - RDD	Practical workshops on rubber farming (5 days)	No of workshops	1	0.20	1	0.20	1	0.20	1	0.20	4	0.80		H/ASD
ASD	Productivity improvement - RPCs	Field staff of RPCs	No of workshops	1	0.20	1	0.20	1	0.20	1	0.20	4	0.80	2.00	H/ASD
	Productivity improvement of RI	Field staff of rubber manufacturing sector	No of workshops	1	0.08	1	0.08	1	0.08	1	0.08	4	0.30		H/ASD
	Out sourcing of TC	RRISL/TRI/Universities/	No of workshops	1	0.03	1	0.03	1	0.03	1	0.03	4	0.10		H/ASD
Monaragala	Monaragala Sub Station	Sale of Rubber	No of MT	3000 kg	1.75	3000 kg	1.75	3000 kg	1.75	3000 kg	1.75	12000	7.00	7.00	DDRB
Accounts	Other Income	Tender Fees, Loan Interest and Others	No of Activities	25%	0.75	25%	0.75	25%	0.75	25%	0.75	100%	3.00	3.00	SA
Admin	Other Income	Solar, Guest House, Sale of Publication etc.	No of Activities	25%	1.00	25%	1.00	25%	1.00	25%	1.00	100%	4.00	4.00	DDA/SAO
		Sale of Rubber -Estate	No of MT	25%	2.75	25%	2.75	25%	2.75	25%	2.75	100%	11.00	11.00	SME
		Total			10.38		13.85		13.47		13.85		52.55	52.55	-



Programme &

Activity

R&D

Source



RUBBER RESEARCH INSTITUTE OF SRI LANKA

R&D

DISTRIBUTION AMONG THE DIFFERENT DIVISSIONS – January/ Decem

Output

ber 2023	Rs. Mn
	Responsible Officer Name Designation
ved irrigation l from ping models ain guard shooting	Mr. T. U. K. Silva, SRO
s - 25 - 01, new cial microbes	Dr. (Mrs). S. Fernando, Head
ogenies, gn clones octed for nallholder, breeding	Dr.(Mrs)S. P. Withanage, Head
e weed control eas, Three bio r management er plantations, cro nutrients, , Survey 5000 cific fertilizer anting rubber arameters and	Dr.(Mrs). Rasika Hettiarachchi Head
velonment of	

Project 1. Name 2. Duration 3. TEC & Source of Funds	·	Estimate (Rs. Mn) 2023	of funds DF&GF		Targets (Rs. Mn) Jan - Dec		Designation
Plant Science Dept.	aspects of Natural	2.71	CF&GF	FT	2.71	One improved grafting technique introduced, One improved irrigation technique identified (50% progress in 2022), One spatial arrangement identified, Certified rubber plants produced from Government, RPCs and private nurseries, Two intercropping models identified (50%), One improved tapping technique and rain guard type tested, All requested training programs and troubleshooting attended	Mr. T. U. K. Silva, SRO
Plant Pathology Dept.	rvices on all	1.99	CF&GF	FT	1.99	Recommendation of Corynespora resistant Hevea clones - 25 Identification of effective pesticides to control diseases - 01, new reports 01, publications 02, Identification of new beneficial microbes Microboal applications, Trained stakeholders	Dr. (Mrs). S. Fernando, Head
Genetics & Plant Breeding Dept.	s and providing se Rubber	1.99	CF&GF	FT	1.99	Developed 2500 HPs progenies and evaluate two HP progenies, Establish 10 clones in clone museum, Exchanged 5 foreign clones and two selected for commerciality, Three genotype selected for interim recommendation, One genotype identified for smallholder, Molecular characterized 02 genotypes for accelerate the breeding programme	Dr.(Mrs)S. P. Withanage, Head
Soils & Plant Nutrition Dept.	ch & Development Activities and providing services on all aspects of Natural Rubber	1.49	CF&GF	FT	1.49	Introduction of environmental friendly product, Effective weed control method, fertilizer recommendation for nontraditional areas, Three bio efficacy report issued, Introduction of a effective fertilizer management system, Mapping soil spatial variability of selected rubber plantations, Quantification of the variability of Silicon and micro nutrients, Determination of Sulphur status in Agalawatta soil series, Survey 5000 ha of rubber lands and provide 40 - 50 site specific fertilizer recommendation reports, Survey 500 ha of land for planting rubber Provide 3 - 5 land suitability reports, Assess 4000 parameters and provide 120 analytical reports and	Dr.(Mrs). Rasika Hettiarachchi Head
Biochemistry Dept.	Research	0.94	CF&GF	FT	0.94	20% development of weekly harvesting system, 20% development of d4 double cut system, 25 sites, 10 genotypes tested, 10 genotypes tested, 10 sites, 10% development, 3 sites, 2 formulations	Dr. (Mrs) S. Kudaligama, Head





RUBBER RESEARCH INSTITUTE OF SRI LANKA DISTRIBUTION AMONG THE DIFFERENT DIVISSIONS – January/ December 2023

Programme & Project 1. Name 2. Duration 3. TEC & Source of Funds	Activity	R&D Estimate (Rs. Mn) 2023	Source of funds DF&GF		R&D (Rs. Mn) Jan – Dec	Output	Responsible Officer Name Designation
ASD & Training Centre	ll aspects of Natural	0.46	CF&GF	FT	0.46	 Technology transfer to 240 holdings, 03 villages and 35 estates Established 30 processing centers, 4 model estates and 4 demonstration plots, Trained 250 rubber farmers, 500 estate managers, estate field staff and workers, 200 new harvesters, 25 village youth and 50 estate youth, Established 02 Technology transfer centers and One Techno-Park 	Mr. Sanjeewa Gunarathne, AO
R.R. & C.A. Dept.	ng services on a	1.66	CF&GF	FT	1.66	Quality control of raw rubber, Introduce new chemical to reduce yellowish colour in crepe rubber, Introduce new clones with good raw rubber properties, Recommendation based on raw rubber properties	Mrs. A.P. Attanayake SRO
R.R.P.D& C.E. Dept.	Research & Development Activities and providing services on all aspects of Natural Rubber	1.50	CF&GF	FT	1.50	Novel chemical and processes for manufacture of deprotenised natural rubber, novel chemical and process for manufacture of deprotenised rubber, a process for development of advanced foam rubber, Semi-mechanized raw rubber manufacturing process, single day crepe rubber dying system, Cost effective effluent treatment technologies, Advanced mobile app for raw rubber processing, appropriate technologies for clients	Dr. S. Siriwardane, DDR (T)
RT & D	Developm	2.48	CF&GF	FT	2.48	225 entrepreneurs / industries benefited, 5 new rubber composites	Dr (Mrs).D.G. Edirisinghe, Head
Polymer Chemistry Dept.	Research &	1.99	CF&GF	FT	1.99	Value added natural rubber grade, Value added natural rubber composites, Client assistant programs, and testing services	Mr. Y. R. Somarathne, RO





DISTRIBUTION AMONG THE DIFFERENT DIVISSIONS – January/ December 2023

Rs. Mn

			T			SSIONS Sanuary December 2023	
Programme & Project 1. Name 2. Duration 3. TEC & Source of Funds	Activity	R&D Estimate (Rs. Mn) 2023	Source of funds DF&GF		R&D (Rs. Mn) Jan – Dec	Output	Responsible Officer Name Designation
Adaptive Research Unit	Research & Development Activities and providing services on all aspects of Natural Rubber	0.61	CF&GF	FT	0.61	Protocols for rubber cultivation in dry zone developed, Impact of rubber cultivation on livelihood in nontraditional areas quantified, Two new areas feasible for rubber cultivation identified, Area specific farming models established, Smallholder onfarm productivity and variability in Kegalle and Kurunegala districts identified, Psycosocioeconomic status of plantation workforce identified	Dr. (Mrs). E. S, Munasinghe, PRO
Biometry Section	elopment Acti	0.36	CF&GF	FT	0.36	Research support for 30 projects identified for 2021 Action Plan, 02 developments/modifications/applications and subsequent publications	Dr. W. Wijesuriya, PRO
Agriculture Economic	Research & Deveserch services on a	0.32	CF&GF	FT	0.32	Change in rubber growth identified, District base poverty indicators developed, Sustainability measures identified, Rubber-farm livelihood types, New Policy guidelines formulated, Awareness reports for the general public, Rubber yield map. Rubber farm household resilience measures.	Mr. J. K. S. Sankalpa SRO
Funds		18.50			18.50		
Other Capital		11.50			11.50		
Total Funds		30.00			30.00		





RUBBER RESEARCH INSTITUTE OF SRI LANKA For the Year 2023 - Divisional Capital / Recurrent Budget

							Di	ivisional	Capita	l							
Departments	Building Rehabilitation	Plant, Machinery & Equipment	Maintenance of Buildings	Furniture & Office Equipment	Other- Laboratory Equipment's	Library Books	Land & Land Improvements - R& D	Monaragala	Polgahawela	Vehicles / Maintenance of vehicle	North East	New leaf disease	PHD	HRD Programme	R & D	Total	Recurrent
Board Office			4.00													4.00	3.88
Director Office																-	0.21
DDR (T)																-	0.19
Administration - RT																-	6.01
Administration -DF														1.50		1.50	40.39
Accounts & Procurement																-	2.31
Stores																-	1.04
Work Section																-	24.18
Internal Audit Unit																-	0.16
Audio Visual & IT Units																-	0.56
Library DF																-	1.50
Library RT																-	0.02
Estate																-	
Monaragala Substation								4.80								4.80	1.23
Polgahawela Substation									0.20							0.20	





									Di	visional	Capital								
Departments	Building	Kehabilitation	Plant, Machinery &	Equipment	Maintenance of Buildings	Furniture & Office Equipment	Other- Laboratory Equipment's	Library Books	Land & Land Improvements - R& D	Monaragala	Polgahwela	Vehicles / Maintenance of vehicle	North East	New leaf disease	PHD	HRD Programme	R&D	Total	Recurrent
DDR (B)				T					0.50				0.50					1.00	0.19
Training Centre - N'kele																		-	0.39
Adaptive Research Unit				T													0.61	0.61	0.90
Adv. Service																	0.46	0.46	3.01
Agriculture & Eco. Unit																	0.32	0.32	0.07
Bio- Chemistry																	0.94	0.94	1.74
Bio Metry																	0.36	0.36	0.76
Genetics & PB																	1.99	1.99	4.04
Plant Pathology																	1.99	1.99	2.60
Plant Science																	2.71	2.71	2.97
Polymer Chemistry																	1.99	1.99	2.08
RR & CA																	1.66	1.66	1.81
RR & CE																	1.50	1.50	1.28
Rubber Technology																	2.48	2.48	1.24
Soils & Plant Nutrition				T													1.49	1.49	2.80
Total	-		-	T	4.00	-	-	-	0.50	4.80	0.20	-	0.50	-	-		18.50	30.00	107.55





RUBBER RESEARCH INSTITUTE OF SRI LANKA DISTRIBUTIONAMONG THE DIFFERENT DIVISSIONS – January/ December 2022 (Recurrent)

Programmed & Project 1. Name	Alloc	cation for	2023	Activity	based bud	get	Source of funds	Fina	ncial Qua	rterly Ta	rgets	Daniel Alle Office to
2. Duration 3. TEC & Source of Funds	CF	GF	Total (Rs. Mn)	Emoluments (Rs.mn)	Other (Rs. Mn)	Total	CF&GF	Q1	Q2	Q3	Q4	Responsible Officer's Name Designation
Board Office	16.43		16.43	14.39	2.65	17.04	CF&GF	4.26	4.26	4.26	4.26	Mr.D.M.S.Dissanayake, SAO
Director Office	20.14		20.14	17.64	0.21	17.84	CF&GF	4.46	4.46	4.46	4.46	Dr. S. Siriwardane, Actg. Dir.
DDR (T)	5.25		5.25	4.60	0.19	4.79	CF&GF	1.20	1.20	1.20	1.20	Dr. S. Siriwardane, DDRT
DDRB	5.25		5.25	4.60	1.42	6.02	CF&GF	1.50	1.50	1.50	1.50	Dr.(Mrs.) S.P.Withanage, Actg. DDRB
Administration (DF,RT)	16.49	26.28	42.76	14.44	48.19	62.62	CF&GF	15.66	15.66	15.66	15.66	Mr.D.M.S.Dissanayake, SAO
Accounts & Procurement	31.22		31.22	27.33	2.31	29.64	CF&GF	7.41	7.41	7.41	7.41	Mr. Sujith Hewage, SA
Stores	3.65		3.65	3.19	1.04	4.23	CF&GF	1.06	1.06	1.06	1.06	Mr. Sujith Hewage, SA
Work Section	55.10	26.28	81.37	48.24	24.18	72.42	CF&GF	18.10	18.10	18.10	18.10	Mr. K. Chathurange, RE
Internal Audit Unit	5.28		5.28	4.62	0.16	4.79	CF&GF	1.20	1.20	1.20	1.20	Mrs. S. Senadheera, IA
Library	6.83		6.83	5.98	1.52	7.49	CF&GF	1.87	1.87	1.87	1.87	Dr.(Mrs.) S.P.Withanage, Actg. DDRB
Adaptive Research Unit	17.66		17.66	15.46	0.90	16.36	CF&GF	4.09	4.09	4.09	4.09	Dr. (Mrs.). E. S, Munasinghe, PRO
Adv. Service and Training	53.04		53.04	46.44	3.40	49.84	CF&GF	12.46	12.46	12.46	12.46	Mr. Sanjeewa Gunarathne, RO / Actg. Head
Agriculture & Eco. Unit	3.23		3.23	2.83	0.07	2.89	CF&GF	0.72	0.72	0.72	0.72	Mr. J. K.S. Sankalpa, SRO







Programmed & Project 1. Name	Alloc	cation for	2023	Activity	based bud	lget	Source of funds	Fin	ancial Qua	rterly Tar	gets	Responsible Officer's
2. Duration 3. TEC & Source of Funds	CF	GF	Total (Rs. Mn)	Emoluments (Rs.mn)	Other (Rs. Mn)	Total	CF&GF	Q1	Q2	Q3	Q4	Name Designation
Bio- Chemistry	12.48		12.48	10.92	1.74	12.67	CF&GF	3.17	3.17	3.17	3.17	Mrs. Sagari Kudaligama Head
Bio Metry	9.93		9.93	8.70	0.76	9.45	CF&GF	2.36	2.36	2.36	2.36	
Genetics & PB	37.53		37.53	32.86	4.04	36.90	CF&GF	9.22	9.22	9.22	9.22	Dr.(Mrs.) S. P. Withanage, Head
Plant Pathology	4.83		4.83	4.23	2.60	6.83	CF&GF	1.71	1.71	1.71	1.71	Dr.(Mrs.).S. Fernando, Head
Plant Science	39.70		39.70	34.76	2.97	37.73	CF&GF	9.43	9.43	9.43	9.43	Mr. T. U. K. Silva,
Polymer Chemistry	14.41		14.41	12.62	2.08	14.69	CF&GF	3.67	3.67	3.67	3.67	Mr. Y. R. Somarathne, RO
RR & CA	16.75		16.75	14.67	1.81	16.47	CF&GF	4.12	4.12	4.12	4.12	Mrs. A.P. Attanayake , SRO
RR & CE	18.40		18.40	16.11	1.28	17.39	CF&GF	4.35	4.35	4.35	4.35	
Rubber Technology	23.49		23.49	20.57	1.24	21.81	CF&GF	5.45	5.45	5.45	5.45	Dr (Mrs.).D.G. Edirisinghe, Head
Soils & Plant Nutrition	24.93		24.93	21.83	2.80	24.62	CF&GF	6.16	6.16	6.16	6.16	Dr.(Mrs.). Rasika Hettiarachchi, Head
	442.00	52.55	494.55	387.00	107.55	494.55	•	123.64	123.64	123.64	123.64	





Detailed Action Plan for Research & Development: - Agronomy Departments

Annex 2

Genetics & Plant Breeding Department (Rs. Mn. 1.99)

Priority Area

:- Ensuring the availability of raw materials necessary for the rubber industry by providing encouragement for the development of cultivations of small and medium scale rubber estate owners

Objectives

:- Development of genetically improved clones to the Industry

	Objectives	• •	<i>,</i> , , , ,	opinci	it or 5	cnenca	my miproved	Ciones	to the i	nausti y									
		* .0	٧o.	rity No.	Funding Source (CF/GF)	Tot	al Physical Target	Annual Allocation 2023 (Rs. Mn.)				Annual	Target				Expected Output	Expected Outcome	rks
No	Activity	KPIs No.	SDG No.	Prio	ing S XF/G			I All	(Q1	() 2	(Q3	Q	4	ted (o pa	Remarks
		KF	S	Special Priority	Fund ((Unit	No.	Annua 2023	P	F	P	F	P	F	P	F	Expec	Expect	Ř
Eval	rogramme/ Project: Breeding uation of new Genotypes under Breeding Strategies	sing (Conve	entiona	ıl and			1.99		0.22		0.715		0.72		0.335			
1.1	Annual hand pollination (HP) programme						Expect to produce 150 new genotypes to the breeding pool	0.1	10	0.03	90	0.05	100	0.01	100	0.01	Carried out 2500 HPs and produce new genotypes to the breeding pool	Enrich the breeding pool	
1.2	Preliminary evaluation of HP mother plants and maintenance and re- establishment of bud wood nurseries and HP progenies.	2	12		CF	No.	Evaluate two hand pollinated progenies Expand the bud wood nursery with five new promising clones	0.25	10	0.05	40	0.075	70	0.075	100	0.05	Add genotypes for the evaluation process and select outstanding genotypes	Accelerate the evaluation process	





1.3	Multilateral clone exchange programme	Import clones from two countries (France and Vietnam)	0.1	0	0	0	0	50	0.05	100	0.05	Exchanged 5 clones	Strengthen the breeding pool
1.4	Small scale evaluation of new genotypes (SSCTs)	Export to two countries Vietnam and Bangladesh	0.5	25	0.01	50	0.15	75	0.3	100	0.04	Select genotypes for commercial assessment	Estimate the genetic potential of clones
1.5	Evaluation of selected HP entries under estate collaborative level (ECTs)	Prepare 2 SSCT trials	0.28	25	0.07	50	0.14	75	0.035	100	0.035	Select highly performed clones under commercial level	Enrich the Interim clone recommendation
1.6	Evaluation of selected HP entries in collaborating with smallholders in traditional and non traditional rubber growing areas (SRTs)	Establish 5 ECT Trials	0.25	25	0.06	50	0.1	75	0.05	100	0.04	Select highly performed clones under Smallholder level	Enrich the Smallolder clone recommendation
1.7	Molecular characterization of selected genotypes	Establish 4 SRT Trials	0.51	5	0	20	0.2	70	0.2	100	0.11	Characterized 03 genotypes	Accelerate the conventional breeding procedure with precise selections.





Plant Science Department (Rs. Mn.2.71)

Priority Area

:- Ensuring the availability of raw materials necessary for the rubber industry by providing encouragement for the development of cultivations of small and medium scale rubber estate owners

Objectives

:- To improve growth and abiotic stress tolerance in rubber plants

		*.	0.	iority *	Source GF)	Total Phy Targe		al 1.2023 n.)				Annua	l Target				ed it	ed ne	ks
No	Activity	KPIs No.	SDG No.	ial Prio No. **	ding Sou (CF/GF)			Annual ocation 2((Rs. Mn.)	Q	1	Q	2	Q	23	(Q4	Expected Output	Expected Outcome	Remarks
		KP	SL	Special Priority No. **	Funding (CF/C	Unit	No.	Annua Allocation (Rs. Mn	P	F	P	F	P	F	P	F	Ex O	Ex	Re
for th	ogramme/ Project: Ensuring the he rubber industry by providing vations of small and medium sca	g enco	urage	ement fo	or the d	evelopment		1.17		0.34		0.29		0.25		0.29	nded	ty	
1.1	Improvement of growth and abiotic stress tolerance in rubber plants					Stock- scion combin ations	4	0.27	25%	0.05	25%	0.05	25%	0.07	25%	0.10	stock-scion recommended	cost of production, Productivity improvement	
1.2	Different planting strategies and improved irrigation systems for rubber nurseries and field plants	9	8	6	CF	Irrigation systems	1	0.35	25%	0.15	25%	0.10	25%	0.05	25%	0.05	of	st of productic improvement	
1.3	Tissue culture and micro propagation of rubber and other crops					No. of Methods	1	0.40	25%	0.10	25%	0.10	25%	0.10	25%	0.10	combination	of	
1.4	Planting at different densities to obtain maximum economic return from latex and timber					Plant density	1	0.15	25%	0.04	25%	0.04	25%	0.03	25%	0.04	Best coi	Reduction	





2. Programme/ Project: Ensuring the materials necessary for the rubber in encouragement for the development and medium scale rubber estate own	dustr of cult	y by p tivatio	providi ons of sr	ng			0.12		0.03		0.03		0.03		0.03	all rubber	land	
Inspection and certification of nursery	plants	(ongo	ing proj	ect)	6	8	6	CF	No. of plants	2000000	0.12	200000	0.03	200000	0.03	Certification of al plants	Increase rubber land	
3. Programme/ Project: Introducing around tea and rubbe							0.50		0.15		0.10		0.10		0.15	models ed	eration ng a rubber	
Evaluation of intercrops under rubber	CF	Models	2		25%	0.15	25%	0.10	25%	0.10	25%	0.15	Two intercropping me tested/ evaluated	Additional income generation through intercropping a number of crops with rubber				
4. Programme/ Project: Ensuring materials necessary for the rubber encouragement for the development and medium scale rubber	indu of cu	stry l ltivati	oy provions of s	iding small			0.56		0.15		0.15		0.16		0.10	ed rainguard tested	ivity nent in ands	
Testing of different tapping systems and rain guards	3	8	8	CF	Tapping system Rain guard	1		25%	0.15	25%	0.15	25%	0.16	25%	0.10	One improved rainguard technique tested	Productivity improvement in rubber lands	





5. Programme/ Project: Ensuring the availability of raw materials necessary for the rubber industry by providing encouragement for the development of cultivations of small and medium scale rubber estate owners (continuous)			0.36		0.06		0.10		0.10		0.10	rogrammes and nded	vity with good for sustainability	
Conduct training programmes / make advisory visits on nursery techniques, planting, tapping and intercropping	10	8		CF	No. of Programs /advisory	50	0.36	10	0.06	20	0.10	All requested training p troubleshooting atter	Improved productiv agricultural practices	





RUBBER RESEARCH INSTITUTE OF SRI LANKA Plant Pathology & Microbiology Department (Rs. Mn. 1.99)

Priority Area :- Ensuring the availability of raw materials necessary for the rubber industry by providing encouragement for the development of cultivations of small and medium scale rubber estate owners.

Objectives : - Improvement of crop protection and microbiological aspects to improve the sustainability of rubber plantations.

	jectives : - improveme	*		Special Priority No.			hysical		Бресия	to mi	<u> </u>	Annual			14000	- piuii	Output	Expected Outcome	83
No	Activity	KPIs No.	SDG No.	Prior **	Funding Source (CF/GF)			Annual Allocation 2023 (Rs. Mn.)	Q	1	Q	2	(23	Q)4	cted O	ted Ou	Remarks
		K	S	Specia	Fund	Unit	No.	Annu: 2023	P	F	P	F	P	F	P	F	Expected	Expec	24
Scree	ogramme/ Project: Replanting ening of chemicals to control pest es to identify disease resistant clo							0.46		0.10		0.13		0.13		0.10	tive ases resistant	plantation to tity level	
1.1	Screening of chemical pesticide to effectively control the diseases	. 5	G2	1	CF	No of pestici des	6	0.46	25%	0.10	25%	0.13	25%	0.13	25%	0.10	Recommendation of effective pesticides to control diseases ommendation of disease resistant	of healthy e productiv	
1.2	Screening of <i>hevea</i> clones against the economically important diseases	3	02	1	Ci	No of clones	50	0.40	2570	0.10	2570	0.13	2570	0.13	2370	0.10	Recommendat pesticides to c Recommendation	Maintenance sustain th	
	ogramme/ Project: Studies on the cular biology of pests (continuous		ogy aı	nd				0.52		0.11		0.14		0.14		0.13	2		
2.1	Biology and molecular biology of leaf and stem disease pathogens	5	G2	1	CF	Public ations	3	0.52	25%	0.11	25%	0.14	25%	0.14	25%	0.13	Biopesticide - 02	Will be used for the integrated disease management of WRD	
2.2	Biological controlling of pathogens					Biopes ticide	2										Bic	Will be u integrated managen	





exp	rogramme/ Project: Studies on be blore methods to promote small so to strengthen the microbiologica	cale c	ottage	indus	tries			0.52		0.11		0.14		0.14		0.13	cultures 100 gical application2	en technologies	
3.1	Maintenance of national culture collection	-	C2	1	CF	Microbe cultures	100	0.52	250/	0.11	250/	0.14	250/	0.14	250/	0.12	Micro cultu Microbiological	t the green	
3.2	Development of microbiological applications	n	G2	1	Cr	Microbe applications	2	0.52	25%	0.11	25%	0.14	25%	0.14	25%	0.13	N Micro	Support	
	void unwanted sudden disease ep	elopment of obiological applications llance of potential pests and disease outbreaks nwanted sudden disease epidemics - Advisory & Training Programmes (continuous)					0.49		0.10		0.13		0.13		0.13	s to mitigate diseases training programmes	ers to mitigate ons		
4.1	Surveys to Identify destructive disease condition and making early warnings					Early warnings	6										∞ <u> </u>	g the stakeholders disease conditions	
4.2	Advisory services	4	G2	1	CF	Advisory visits	60	0.49	25%	0.10	25%	0.13	25%	0.13	25%	0.13	Early warning advisory and	vering th dise	
4.3	Training programmes					Training programmes	12										Earl	Empowering di	





Soils & Plant Nutrition Department (Rs. Mn. 1.49)

Priority Area :- Ensuring the variability of raw materials necessary for the rubber industry by providing encouragement for

the development of cultivations of small and medium scale rubber estate owners

Objectives :- Improve soil fertility, increase fertilizer use efficiency, methods of soil, water, nutrient conservation & weed

control

		*		rity	Source GF)	Total Phys Target		023			A	nnual	Target	,			_	= 0	
No	Activity	No.	No.	Prio	Son (GF)			Annual cation 2 Rs. Mn.	Q	1	Q	2	Q	3	Q	4	Expected	ectec	ark
110	Activity	KPIs No.	SDG	Special Priority No. **	Funding Sou (CF/GF)	Unit	No ·	Annual Allocation 2023 (Rs. Mn.)	P	F	P	F	P	F	P	F	Expected Output	Expected Outcome	Remarks
1	Programme/ Project: Evaluate the effective environmental friendly agro-management enhancing fertility in rubber soils (2018)	nt pr	actic					0.447									tion of mental product	e plant <i>w</i> th	
1.1	Testing of different organic amendments, organic fertilizer and biofertilizer for soil improvement	2	2	7	GF	No of organic product developed	1	0.447	25%	0.11175	25%	0.11175	25%	0.11175	25%	0.11175	Introduction of environmental friendly product	Enhance plant growth	
2	Programme/ Project: Effect of nutrient Pestalotiopsis disease in rubber (2020 –			ent on t	che			0.1735											
2.1	Developing a fertilizer management system to reduce disease severity of new leaf fall disease	2	2	7	GF	Develop ment level of fertilizer managem ent system	1	0.1735	30%	0.05205	30%	0.05205	20%	0.0347	20%	0.0347	Introduction of a effective fertilizer mgt.	Enhance plant growth	
3	Programme/ Project: Establishment of site specific management zones under traditional rubber plantations for variable rate fertilizer (VRF) application via geo-spatial and geo- statistical approaches (2021 - 2025)	2	2	7	GF	Number of samples collected and soil maps prepared	1	0.398	15%	0.0597	25%	9660'0	40%	0.1592	20%	9620'0	Mapping soil spatial variability of	Enhance soil fertility	





4	Programme/ Project: Evaluation of the effect of Rubber Processing Effluent on Soil Properties and as a nutrient source (2021- 2023)	2	2	7	GF	No of soil properties analyzed	7	0.1735	25%	0.043375	25%	0.043375	25%	0.043375	25%	0.043375	Introduction of safe effluent disposal system & use as a nutrient source to soil	reduction of the cost of effluent treatment & fertilizer	
		ı			1	Г		Г											
5	Programme/ Project: Issuing certification for land suitability, site specific fertilizer applications and analyzing fertilizer samples (2018 – 2025)							0.298											
5.1	Collection of leaf samples and field parameters at different sites	2	2	7	GF	Number of site specific fertilizer recomme ndation reports provide	40	0.148	10%	0.0148	35%	0.0518	35%	0.0518	20%	0.0296	Provide 40 - 50 site specific fertilizer recommendation reports& survey 5000 ha of rubber land	Optimize fertility levels	





5.2	Collection of soil, observe field parameters and GPS information at different sites			Number of land suitability reports provide	5	0.05	25%	0.0125	25%	0.0125	25%	0.0125	25%	0.0125	Provide 3 - 5 land suitability reports and survey 500 ha of land for planting rubber	ensure high return on investment	
5.3	Testing fertilizer, soil, leaf, water and compost samples according to the SLS guidelines			Number of analytical reports provide	100	0.1	25%	0.025	25%	0.025	25%	0.025	25%	0.025	Provide 120 analytical reports and assess 4000 parameters	Assure the application of quality fertilizers	





Bio Chemistry & Physiology Department (Rs. Mn. 0.94)

Priority Area :- Ensuring the availability of raw materials necessary for the rubber industry by providing encouragement for the development of small and medium scale rubber estate owners

Objectives :- Reduced cost of production in rubber plantations

		*	· o	ity No.	Source 3F)	Total Ph Targ		Allocation Rs. Mn.)				Annua	Target	:			utput	ıtcome	KS
No	Activity	s No	SDG No.	rior **	ig Sc			Allo Rs.]	Ç) 1	Ç	22	Q)3	Q	<u>)</u> 4	0 ра	10r	Remarks
		KPIs No.	SD	Special Priority	Funding Sou	Unit	No.	Annual Allocatio 2023 (Rs. Mn.)	P	F	P	F	P	F	P	F	Expected Output	Expected Outcome	Rer
comn	ogramme/ Project: Research, dev nercial introduction of low intens egies (continuous)							0.3		0.04		0.04		0.10		0.12		rease ions.	
1.1	Developing low intensity harvesting strategies					Develop ment	%	0.10	25%	0.01	25%	0.01	25%	0.03	25%	0.04	I systems	of production. Increase lifespan of plantations. e labour scariest.	
1.2	Development of site specific stimulation protocols for LIH	4		8	CF	На.	20	0.10	05	0.01	05	0.01	05	0.03	05	0.04	Adoption of LIH	Reduce cost of production. Increase economical lifespan of plantations. Reduce labour scariest.	
1.3	Introduction of LIH systems to rubber growers					На.	40	0.01	10	0.02	10	0.02	10	0.04	10	0.04	Adol	Reduce co economic Red	
bioch	ogramme/ Project: Research and nemical and physiological aspects inability of rubber farming (cont	to in	nprov					0.64		0.11		0.14		0.18		0.21			
2.1	Supporting the clonal screening activities through physiological and biochemical aspects					Screeni ng	%	0.1	25%	0.02	25%	0.02	25%	0.03	25%	0.03	ivity ment.	the clone ogramme. arvesting jes.	
2.2	Screening of genotypes suitable for suboptimal climates with physiological and biochemical features	4		8	CF	Screeni ng	%	0.17	25%	0.03	25%	0.04	25%	0.05	25%	0.05	Productivity improvement.	Strengthen the clone selection programme. Maximize harvesting strategies.	





2.3	Developing a method to identify yielding capacity of genotypes during early screening stages				Development	%	0.17	25%	0.04	25%	0.04	25%	0.04	25%	0.05		
2.4	Identification of effect of new leaf disease on latex diagnosis and yield determinant factors	4	0	CF.	Development	%	0.1	25%	0.01	25%	0.02	25%	0.03	25%	0.04	ctivity ement.	the clone ogramme. harvesting gies.
2.5	Further development of locally formulated ethephon formulation to withstand tapping stress	1 4	8	CF	Development	%	0.1	25%	0.01	25%	0.02	25%	0.03	25%	0.04	Produc improve	Strengthen selection pi Maximize strate





RUBBER RESEARCH INSTITUTE OF SRI LANKA Adaptive Research Unit (Rs. Mn. 0.61)

Priority Area

:- Ensuring the availability of raw materials necessary for the rubber industry by providing encouragement

for the development of cultivations of small and medium scale rubber estate owners

Objectives

:- To develop suitable agronomic protocols to cultivate rubber in nontraditional areas and to assess its

socioeconomic and environment impact

	1			SUC	loccon	omic and	u chivii o	imicit	шрас	- L									
		*.	ó	rity No.	ource F)	Total P Tar		ocation Mn.)				Annual	Target	-,			utput	utcome	ks
No	Activity	KPIs No.	SDG No.	Prio!	ng S F/G]			I Allo	(Q1	(Q2	(Q3	Ç	24) pa	Ŏ P	Remarks
		KPI	SD	Special Priority No.	Funding Source (CF/GF)	Unit	No.	Annual Allocation 2023 (Rs. Mn.)	P	F	P	F	P	F	P	F	Expected Output	Expected Outcome	Rei
	1. Programme/ Project: ultivation to nontradition							0.460		0.076		0.152		0.304		0.460	cultivation in loped	tions for drier	
1.1	Development of suitable protocols to cultivate rubber in Dry Zone (96%)		1a			No. of technologies refined	100%	0.140	97%	0.023	98%	0.023	99%	0.046	100%	0.048	Protocols for rubber cultivation dry zone developed	Issuance of recommendations for drier climates	
1.2	Assessments on socioeconomic impact of rubber cultivation in nontraditional areas (90%)	5,6	1.2		CF	No. of impact assessments	94%	0.140	91%	0.023	92%	0.023	93%	0.046	94%	0.048	Impact of rubber cultivation on livelihood in nontraditional areas	Attract farmers in dry zone to rubber cultivation	





1.3	Identification of agronomic and socio-economic feasibility for rubber cultivation in new areas of dry zone (60%)	5,	1a	CF	No. of DS divisions identified	2	0.090	65%	0.015	70%	0.015	75%	0.03	80%	0.03	New areas feasible for rubber cultivation identified (02 no.)	Introduction of rubber to new areas in dry zone	
1.4	Identification of suitable farming models for new areas (35%)	6	1.2		No. of farming models established	2	0.090	40%	0.015	45%	0.015	50%	0.03	55%	0.03	Area specific farming models established (02 no.)	Livelihood of farmers improved in in nontraditional areas	
	ogramme/ Project: Pro ugh technology develop						0.150		0.037		0.075		0.112		0.150			
2.1	Assess the harvesting techniques adoption and its impact on				No. of smallholder fields	60	0.100	25%	0.025	50%	0.025	75%	0.025	100%	0.025	n ie	to ty	
	productivity and the economic life span of the rubber cultivations in the smallholder sector (0%) Identification of	5, 6	4.1, 5, 10.4	CF	assessed No. of	3	0.050	70%	0.012	80%	0.013	90%	0.012	100%	0.013	Level of adoption in harvesting technique identified	Remedial measures to enhance productivity proposed	







Biometry Section (Rs. Mn.0.36)

Priority Area :- All specific priorities

Objectives :- to improve reliability of findings of research on rubber

		* *0	10.	Special Priority No.	Source 3F)	Total Ph Targ		Annual Allocation 2023 (Rs. Mn.)			A	nnual '	Farget				Expected Output	Expected Outcome	ks
No	Activity	KPIs No.	SDG No.	Prio **	ing S YF/G			I Alla	Q1		Q2	2	Q3	3	Q	4	ted (O pa	Remarks
		KP	IS	Special	Funding Sour (CF/GF)	Unit	No.	Annua 2023	P	F	P	F	P	F	P	F	Expec	Expect	R
inter	ogramme/ Project: In pretations of research stical methods (Contin	n projects						0.14		0.06		0.02		0.01		0.02	ects lan	rough blogies s &	
1.1	Research support for research projects conducted by RRISL	No. of research projects benefited	NA		CF	No. of projects analyzed	20	0.07	15%	0.03	20%	0.04	35%	0.05	30%	0.07	Research support for 20 projects identified for 2022 Action Plan	Reliable recommendations through appropriate statistical methodologies (Experimentations, Analysis & Interpretation)	
1.2	Development, modification and application of appropriate statistical methods for agronomic, socio-economic and industrial experiments in the rubber sector	No. of applications/ modifications/applications of statistical methods	NA		CF	No. of develop ments/m odificati ons/appli cations and subseque nt publicati ons	2	0.07	15	0.03	35	0.04	70	0.05	100	0.07	02 developments/modifications /applications and subsequent	Appropriate statistical methods for analyzing data derived from rubber sector research	





chai	nproving the knowled nge & variability for I wing areas (Continuo	better decision					0.22		0.02		0.10		0.06		0.04			
2.1	Maintenance of databases on meteorological data in rubber growing areas	No. of databases maintained	13	CF	Databases maintained	5	0.06	20%		20%		30%		30%		05 databases maintained	Reliable information for stakeholders for better decision making	
2.2	Meteorological data analysis and modeling	No. of indicators analyzed	13		Publications	2	0.00	25%	0.02	25%	0.02	30%	0.01	20%	0.01	02 Publications	Reliable information for stakeholders for better decision making	
2.3	Improving the existing meteorological stations	No. of new equipment established	13	CF	Installing new/repaire d equipment	3	0.16	0	0	50%	0.08	20%	0.05	30%	0.03	Installing new/repaired equipment	Data & information for smallholders	







Agriculture Economics Unit (Rs. Mn. 0.32)

Priority Area :- Ensuring the availability of raw materials necessary for the rubber industry by providing encouragement

for the development of cultivations of small and medium scale rubber estate owners

Objectives :- Provide guidelines to improve the livelihoods of rubber holdings and formulation of effective policy measures

No	Activity	KPIs No. *	SDG No.	Special Priority No. **	Funding Source (CF/GF)	Total Physical Target			Annual Target										S
						Targ	gei	Annual Allocation 2023 (Rs. Mn.)	Q1		Q2		Q3		Q4		ted O	Expected	Remarks
						Unit	No.		P	F	P	F	P	F	P	F	Expected Output	Ex Oı	Re
1. Programme/ Project: Analysis on Socio-economic implications & sustainability issues of rubber cultivation and different policies implemented in the rubber sector (continuous)								0.211									reports	er land ation	
1.1	Trend analysis of Rubber Industry	3, 12	1, 15		CF	No.	2	0.02	65%	0.006	70%	0.002	75%	0.006	80%	0.006	Generated key indicators with reports	Improve productivity of rubber land smallholder income generation	
1.2	Analysis of Poverty reduction through Rubber-based farming systems					No.	1	0.08	70%	0.02	72%	0.02	75%	0.02	80%	0.02			
1.3	Sustainability Analysis of Rubber Based Farming Systems	12				No.	1	0.096	50%	0.004	54%	0.004	58%	0.004	62%	0.084			
1.4	Analysis of rubber sector policy changes					No.	2	0.015	70%	0.004	72%	0.004	74%	0.004	76%	0.003			
2	Programme/ Project: Rubber Industry data management and economic analysis (continuous)																ith	ility	
2.1	Update data bases on rubber industry and economic analysis	3, 12	15		CF	No.	2	0.016	52%	0.004	54%	0.004	56%	0.004	58%	0.004	Generated key indicators with reports	Improve productivity, profitability and income diversification of rubber lands	
2.2	Identification of low productive rubber lands through spatial analysis					No.	2	0.062	34%	0.016	36%	0.016	38%	0.015	40%	0.015			
2.3	Analysis of smallholder rubber farmers' resilience and adaptation to climate change					No.	1	0.031	5%	0.008	10%	0.008	15%	0.007	20%	0.008			





Advisory Service Department (Rs. Mn. 0.46)

Objectives

- :- To introduce skilled tappers in a view to enhance the adoption rate of quality of tapping while reducing the TPD rate
 - To reduce the COP of RSS in smallholder sector
 - To enhance the adoption rate of rubber farming practices of immature and mature up keeping to maintain the recommended stand

		*	0.	rity No.	Source GF)	Total Phy Targo		cation Mn.)				Annual	Target				utput	Outcome	kS
No	Activity	KPIs No.	SDG No.	Prio **	ding Sou (CE/GE)			Allo (Rs.]	Ç) 1	(<u>)</u> 2	Ç	23	Q	<u>)</u> 4	ed O	ıO p	Remarks
		KPI	SD	Special Priority	Funding (CE/C	Unit	No.	Annual Allocation 2022 (Rs. Mn.)	P	F	P	F	P	F	P	F	Expected Output	Expected	Re
app	rogramme/ Project: Str roaches to improve the Ilholder sector (continu	productiv			nsfer			0.46		0.11		0.12		0.18		0.05		ies in	
1.1	Rehabilitation of rubber holdings	11,12, 13,14	8	5	CF	Holdings	80		20		20		20		20		80 rehabilitated rubber holdings	adoption of recommended technologies smallholder sector	
1.2	Rehabilitation of processing centers	11,12, 13,14	8	5	CF	Centers	16		4		4		4		4		16 rehabilitated rubber processing centers		
1.3	Establishment of demonstration plots Rain Guards	11,12, 13,14	8	5	CF	Holdings	20		20		0		0		0		20 demonstrati on plots Rain Guards	Improved	





1.4	Establishment of demonstration plots Inter Crop	11,12, 13,14	8	5	CF	Holdings	8	0	4	0	4	8 demonstration plots Inter Crop		
1.5	Establishment of new processing centers and SS drying system	11,12, 13,14	8	5	CF	Centers	8	2	2	2	2	8 new processing centers		
dev	rogramme/ Project: Tran eloped by the RRISL to in te sector (continuous)				ity of								estates	
2.1	Establishment of model clearings	11,12,	8	1,4	CF	Model clearings	2	0	1	0	1	2 Model clearings	hnologies in es	
2.1	Establishment of demonstration plots - Rain guard	11,12,	8	1,4	CF	Demonst ration plots	2	0	1	0	1	2 demonstration plots - Rain guard	adoption of recommended technologies in	
2.2	Establishment of demonstration plots - Intercrop)	11,12, 13	8	1,4	CF	Demonst ration plots	2	0	1	0	1	2 demonstration plots - Intercrop	Improved adopti	





3. P	rogramme/ Project: Requ	uest based	l advi	sory vi	isits (co	ontinuous)								
3.1	Important issues identified - estates	4,10, 11,12, 13,14	8	1,4	CF	Advisory visits	40	10	10	10	10	40 Advisory visits		
3.2	Important issues identified - smallholdings	4,10, 11,12, 13,14	8	5	CF	Advisory visits	100	25	25	25	25	100 Advisory visits	Improve the productivity	
3.3	Group advisory for selected - estates	4,10, 11,12, 13,14	8	1,4	CF	Advisory visits	2	1	0	1	0	2 Estates	Improve tl	
3.4	Group advisory for selected - smallholdings	4,10, 11,12, 13,14	8	5	CF	Advisory visits	100	25	25	25	25	100 smallholdings/ processing		
	rogramme/ Project: Hum ne rubber sector (continu		rce de	evelopr	nent of	f all stake ho	olders						nd skill iing	
4.1	Upgrading of knowledge & skill development on rubber farming aspects (agronomic, tapping, rubber processing and marketing) - smallholder sector	4,11, 12,13, 14	8	5	CF	Smallhol ders	200	50	50	50	50	200 smallholders	Improved knowledge and skill level of rubber farming technologies	





4.2	Upgrading of knowledge & skill development on rubber farming aspects (agronomic, tapping, rubber processing and marketing) - estate sector	4,11, 12,13, 14	8	1,4	CF	Staff of estates	100	25	25	25	25	100 staff of estates		
4.3	Introduce of new harvesters (smallholder and estate sectors)	4,11, 12,13, 14	8	1,4	CF	New harvesters	100	25	25	25	25	100 new harvesters	Skill development new harvesters	
4.3	Introduction of youth as Para extension service providers	4,11, 12,13, 14	8	1,4	CF	Youths (village and estate)	20	10	0	10	0	20 para extension service providers	Development of youth as a workforce for the rubber sector	
	rogramme/ Project: Deve				ıs)							oer Iters	ınd ınt of	
5.1	Establishment of Rubber technology transfer centers	4,11, 12,13, 14	8	1,4, 5,9	CF	Rubber technolog y transfer centers	1	0	0	0	1	Establishment of Rubber technology transfer centers	Improved awareness and productivity improvement of rubber farming	





Rubber Technology & Development Department (Rs. Mn. 2.48)

Priority Area :- Encouraging rubber related products aimed at local and foreign markets

Objectives :- To provide technical assistance to entrepreneurs / industries for promotion of manufacture of value added rubber products &

develop new rubber products not presently manufactured in the country to save foreign exchange incurred for imports

		***	lo.	iority *	ng e	Total Physic Target	cal	al 2023				Annual	Targe	et	_		ed it	ed ne	ks
	Activity	KPIs No.	SDG No.	ial Pr No. *	Funding Source			Annual cation 2	(Q1	(Q2	(Q3	(Q4	Expected Output	Expected	Remarks
		KP	SD	Special Priority No. **	Fu	Unit	No.	Annua Allocation	P	F	P	F	P	F	P	F	Ex	On Ex	Re
	ogramme/ Project: Technical assist lue added products (continuous)	ance	on m	anufac	ture			2.00										Jo (
1.1	Providing assistance to industries on development of rubber compounds / products					Rubber compounds / products	10	0.27	02	0.05	03	0.07	03	0.08	02	0.07	ndustries composites	of manufacture products	
1.2	Conducting training programs for entrepreneurs /rubber small holders	4	G 12	9	CF	Entrepreneurs / rubber small holders	180	0.29	50	0.06	45	0.07	45	0.08	40	0.08	225 entrepreneurs / industries nefited, 5 new rubber composi		
1.3	Testing raw rubber, rubber compounds and products at the request of the industry					Tests	700	1.25	175	0.85	200	0.25	175	0.10	150	0.05	5 entrepr ited, 5 ne	Increased promotion value added	
1.4	Industrial trouble shooting					Trouble shootings	10	0.19	03	0.04	03	0.06	02	0.04	02	0.05	225 ent benefited,	Inc	
2. Pr	ogramme/ Project: Development of	f new	rubb	er pro	ducts (c	ontinuous)		0.48										of ured for '	
2.1	Development of rubber composites with nano materials for special applications					Composites	03	0.17	02	0.09	01	0.04	-	0.02	-	0.02	roducts	n the number cts manufactu y. Saving of ange incurred User-friendly products.	
2.2	Development of rubber composites with green materials		G 12	9	CF	Products	02	0.31	-	0.12	01	0.09	-	0.06	01	0.03	2 new rubber products	An increase in the number of rubber products manufactured in the country. Saving of foreign exchange incurred for imports. User-friendly green rubber products. Employment generation.	





Polymer Chemistry Department (Rs. Mn. 1.99)

Priority Area Objectives :- Encouraging rubber related products aimed at local and foreign markets

:- To value add polymers through the modification of polymer structure and matrix & Provide guidelines

to improve the livelihoods of rubber holdings and formulation of effective policy measures

		*.0.	Zo.	Special Priority No. **	Funding Source (CF/GF)	Total Phy Targe		Annual Allocation 2023 (Rs. Mn.)				Annua	al Targe	et			Expected Output	Expected Outcome	rks
No	Activity	KPIs No.	SDG No.	cial P No. "	ding (CF/C			ıal Al	Ç	21	Q	2	(Q3	C	24	ected	cted (Remarks
		K	J 2	Spe	Fun	Unit	No.	Annu 202	P	F	P	F	P	F	P	F	Expe	Expe	
	ogramme/ Project: To value add ication of polymer structure and							1.39		0.35		0.40		0.35		0.29			
1.1	Development of modified natural rubber grades		12	8	CF	Systems	2	0.70		0.15		0.20		0.20		0.15	Value added raw materials and polymers	Sustainable rubber industry	
1.2	Peroxide Vulcanization of Natural Rubber in the presence of Multi-arm Physical Cross Linker.					systems	1	0.69		0.20		0.20		0.15		0.14	Value addec	Sustaina	
2. Pro	ogramme/ Project: Client assista	nt prog	grams	(on req	uest) (c	ontinuous)		0.60		0.15		0.15		0.15		0.15	ams	/ings	
2.1	Troubleshooting, testing services and training programs		12	9	CF	Services/ reports	500	0.60		0.15		0.15		0.15		0.15	Client assistant programs and testing services	Foreign exchange savings	





Raw Rubber Processing Development & Chemical Engineering Department (Rs. Mn. 1.50)

		*		Special Priority No. **	Funding Source (CF/GF)	To Phys	tal	Annual Allocation 2022 (Rs. Mn.)				Annua	l Target				Expected Output	ted	rks
No	Activity	KPIs No.	SDG No.	ial P No. *	ing CF/C			I A I	(Q1		Q2	Q	3	Q	4	ted	Expected Outcome	Remarks
		K	S	Speci	Fund ((Unit	No.	Annua 2022	P	F	P	F	P	F	P	F	Expec	当 O	Ā
1	Programme/ Project: Research	Proj	ects					0.70		0.175		0.175		0.175		0.17 5	tions	NRL s,	
1.1	Introduction of an alternative coagulant for NRL from natural substances					No.	6	0.20	25%	0.044	50%	0.088	75%	0.132	100%	0.20	ommenda	ulant for a	
1.2	Sustainable use of rubber effluent water as a liquid fertilizer	8, 11	9	8	GF	No.	6	0.20	25%	0.044	50%	0.088	75%	0.132	100%	0.20	New/revised recommendations	Alternative coagulant for NRL from natural substances,	
1.3	Client requested research projects					No.	5	0.30	25%	0.075	50%	0.15	75%	0.225	100%	0.30	New/re	Alterna	
2	Programme/ Project: Trouble st technology transfer activities	hooti	ng, te	sting and	l			0.40		0.10		0.10		0.10		0.10			ı
2.1	Experiments focused on trouble shooting	9, 11	9	8		No.	15	0.10	25%	0.025	50%	0.05	100%	0.075	100%	0.1	recommendations for preventing	e raw r	
2.2	Providing testing services	, 12				No.	150	0.20	25%	0.050	50%	0.10	75%	0.15	100%	0.2	nmendatior preventing	marketable raw rubber	ı
2.3	Technology transfer activities					No.	120	0.10	25%	0.025	50%	0.05	100%	0.075	100%	0.1	recon	m	i
3	Get accreditation for some selec	ted te	sts as	per ISO	17025			0.40		0.10		0.10		0.10		0.10			ı
3.1	Fulfilling the requirements/ conditions comply with ISO protocols	11	9	8				0.4	25%	0.10	50%	0.2	75%	0.3	100%	0.4	Accr edit ed lab.	Accr edit ed lab.	





Raw Rubber & Chemicals Analysis Department (Rs. Mn. 1.66)

		* .0	٨o.	Special Priority No.	Funding Source (CF/GF)	Total Phys Target		Annual Allocation 2023 (Rs. Mn.)				Annua	ıl Target	;			Expected Output	Expected Outcome	rks
No	Activity	KPIs No.	SDG No.	Pric	ding Sou (CF/GF)			II AIII	Q	1	Ç	22	Q	3	Q	4	ted	ed C	Remarks
		KF	S	Special	Fund ((Unit	No.	Annual Allo 2023 (Rs.	P	F	P	F	P	F	P	F	Expec	Expect	R
1.Cli	ent assistance services (continuous)							1.00	25%	0.20	50%	0.20	75%	0.5	100%	0.1	er	luct	
1.1	Issuing quality certificates for all forms of dry rubber, field latex, Centrifuged latex and Rubber processing chemicals.(600)					Number of samples	600		100	0.07	200	0.06	100	0.15	200	0.05	Production of quality raw rubber	lity rubber product	
1.2	Sampling , inspection services and troubleshooting activities (05)	9	9		CF	No of visits	5		1	0.07	2	0.06	2	0.20	-	-	luction of qu	ce good quality	
1.3	Conducting Training programs (05)					No. of training programmes	5		1	0.06	2	0.08	2	0.15	1	0.05	Prod	Produce	
	ality assurance and quality improvemer processing chemicals (continuous)	ent of	raw	rubbe	r &			0.66	25%	0.40	50%	0.15	75%	0.05	100%	0.06	jo /	llity	
2.1	Effect of heavy metal ions on latex quality parameters					Parameters	5	0.66	25%	0.40	50%	0.15	75%	0.05	100%	0.06	Ensure the quality of raw rubber	duce good quality	
2.2	Miscellaneous projects based on trouble shooting					-	ı	0.00	20,0		20,3	0.10	, , , ,	0.02	100,0		Ensure	Produce	3 4





MPI Projects

Soils & Plant Nutrition Department (2021 – 2023)

Establishment of environmental friendly, economically viable slow release fertilizer technique to improve crop performance and establishment of accredited laboratory to supply good service to the rubber industry (Rs. Mn. 27.29)

		*.		ority	ource)	Total	Physical Target	l on Vfn.)				Annual	Target				t t	od Ie	S
No	Activity	KPIs No.	SDG No.	ial Prio No. **	ng So F/GF			Annual Illocation 3 (Rs. M		Q1		Q2	(Q3		Q4	Expected Output	Expected Outcome	Remarks
		KP	SD	Special Priority No. **	Funding Source (CF/GF)	Unit	No.	Annual Allocation 2023 (Rs. Mn.)	P	F	P	F	P	F	P	F	Exj O	Ex] Ou	Re
econ perfe	ogramme/ Project: I omically viable slow ormance and establis ice to the rubber indu	relea: hmer	se fertil	lizer te	chnique	to imp	rove crop	27.29		4.5225		6.8705		7.9205		7.9765	1)Imple mentati on of	1. Early opening for	
1.1	Preparation of encapsulated ECB &RPT					No.	ECB (78,000), RPT (26000)	7.93	25%	1.9825	25%	1.9825	25%	1.9825	25%	1.9825			
1.2	Reestablishment of ECB & RPT					No.	ECB (52 000)	2.0	25%	0.5	25%	0.5	25%	0.5	25%	0.5			
1.3	Purchasing of the instrument	5,6	2.3, 2.4. 15.3	1	CF	No.	6 (Water Distillation unit, Analytical Balance, pH meter, Conductivity meter, Fume Hood)	7.9	10%	0.79	30%	2.37	30%	2.37	30%	2.37			
1.4	Collection of growth parameters; soil & plant sample collection					No.	Leaf 100, Soil 100	0.52	25%	0.13	25%	0.13	25%	0.13	25%	0.13			







1.5	Physical and Chemical analysis of Soils samples and nutrient analysis of plant samples					No.	parameters 1000	0.82	25%	0.205	25%	0.205	25%	0.205	25%	0.205	s at correct time	ure phase.	
1.6	Conducting training programme					No.	5	0.06	0%	0	30%	0.018	30%	0.018	40%	0.024	the plants	ent. der immat	
1.7	Preparation of leaflets					No.	2	0.06	25%	0.015	25%	0.015	25%	0.015	25%	0.015	received to	environment. ication under titute	
1.8	Design, implementation, maintenance and improvement of the quality management system of the laboratory	5,6	2.3, 2.4. 15.3	1	CF	No.	1	1.0	20%	0.2	25%	0.25	25%	0.25	30%	0.3	and their correct ratios will be re Standard analytical reports	ussions in the fertilizer appl ned for the ins	
1.9	Enhance laboratory facilities up to laboratory accreditation international standard ISO/IEC 17025					No.	6 Parameters (to be accredited)	7.0	10%	0.7	20%	1.4	35%	2.45	35%	2.45	4)Required nutrients and 5)Access to get high Sta	3.Reduces consequent negative reperc 4. Reduce labour cost associated with 5.Confidence of the analytical reports 6. Income generation path will be ope	





Genetics & Plant Breeding Department (2021 – 2024)

Screening of drought /stress tolerant Hevea clones for sustainable Rubber cultivation in marginal areas (Rs. Mn. 14.5)

		*.0	40.	Special Priority No. **	Funding Source (CF/GF)	Total Ph Targ	•	al 1 2023				Annual	Target	J		·	ed ut	ed me	·ks
No	Activity	KPIs No.	SDG No.	ial Prio No. **	ding Sou (CF/GF)			Annual Allocation 2	Ç	21	C	Q 2	Q	3	(24	Expected	Expected Outcome	Remarks
		K	S	Spec	Func (Unit	No.	Allo	P	F	P	F	P	F	P	F		E	R
	reening of drought /stre ustainable Rubber culti							14.5									es for ing and es for ng	lecular ults	
1.1	Preparation of plants for screening and field establishment					No. tappin g task	02	2.0	Complete the preparation of	0.5	-	0.5	-	1.0	1	-	Prepare 10 clones for molecular screening and establish 4 clones for field screening	Confirm the Molecular screening results	
1.2	Complete the existing Molecular laboratory facilitation process	2	12		CF	Level of comple tion	100	6.0	50%	2.0	ı	4.0	100%	-	1	-	Complete and Improve the infrastructure facilities and equipped the molecular Laboratory	Provide good & healthy working environment to achieve precise results	
1.3	Molecular screening					clone	10	6.5	Completion of 1st cycle of screening	1.0	Completion of 2nd cycle of screening	4.5	Completion of all cycle of screening	1.0	1	-	Screening of ten clones for 10 genes	Select clones which indicate high drought/stress tolerant ability	





Raw Rubber Processing Development & Engineering Department (2021 – 2022)

Monitoring and optimizing the performance of rubber effluent treatment plants in Sri Lanka to improve the treatment efficiency and ensure (Rs. Mn. 10.78)

		* .0	Io.	rity No.	Source GF)	Phys	tal sical get	Annual Allocation 2023 (Rs. Mn.)				Annua	l Target				Output	Expected Outcome	ıks
No	Activity	KPIs No.	SDG No.	Prio **	Funding Sour (CF/GF)			al Allo 3 (Rs.	C)1	(Q2	Q)3	Q	<u>)</u> 4	cted (ted O	Remarks
		K	S	Special Priority	Fund	Unit	No.	Annual 2023	P	F	P	F	P	F	P	F	Expected	Expeci	N N
the p	ogramme/ Project: Moni erformance of rubber ef i Lanka to improve the t re	fluent	treat	ment p	lants			10.78		3.475		1.65		5.095		0.56	water quality testing for small holders	tificate rubber	
1.1	Improvement of infrastructure facilities					No.	1	3.76	100%	3.76	-	-	-	-	-	-	nt water q nt for sma	uality cer disposal	
1.2	Purchase of Scientific Equipment and accessories					No.	12	4.54	25%	1.00	50%	1.00	100%	3.54	-	-	Accepted laboratory for effluent water quality test Cost effective effluent treatment for small holders	ste water qı entally safe	
1.3	Services of research assistant	2, 11, 12	3, 8, 9	8	GF	No.	1	0.275	25%	0.125	50%	0.15						epted was nvironme	
1.4	Training officers	12	9			No.	4	0.97	25%	0.10	50%	0.15	75%	0.36	100%	0.36	1. Accepted labo 2.Cost effective	nally acce	
1.5	Construction of pilot scale treatment plants					No.	10	1.235	20%	0.25	40%	0.35	80%	0.435	100%	0.20	1. A 2.Cc	1.Internationally accepted waste water quality certificate 2.User friendly and environmentally safe disposal rubber waste water	





Plant Pathology & Micro Biology Department (2021 – 2025)

Studies on the biology and epidemiology of the Pestalotiopsis Leaf fall disease and to develop effective management strategies (Rs. Mn. 13.74)

		***	.0	Special Priority No.	Funding Source (CF/GF)	Total Physical Target							Expected Output	Expected Outcome	ks				
No	Activity	KPIs No.	SDG No.		** ding Sou (CF/GF)			al Alle	GR Si OI		Q2		Q3		Q4		cted (ted O	Remarks
		X	S	Special	Fund ((Unit	No.	Annual . 2023 (1	P	F	P	F	P	F	P	F	Expe	Expec	R
epide to de	ogramme/ Project: Studies emiology of the Pestalotiop evelop effective managemer t Pathology & Microbiolog	sis Lea 1t stra	af fall (tegies	disease				8.0		2.14		4.9		4.6		2.1	wledge. um. isease.	vledge on edge to	
1.1	Identification of the pathogen/(s) By molecular methods					Path isolates	60		25	0.3	50	0.5	75	0.7	100	0.5	o of pathogens identified. Publications on new knowledge Effective methods to destroy the grownd inoculum. Identification of effective pesticide to control the disease. No of training programmes	tion of the new pathogens, gaining the knowledge on cycles and application of the gained knowledge to formulate effective management strategies.	
1.2	Studies on the physiological features of the pathogen population	2	15	7	CF	Path isolates	6		25	0.3	50	0.7	75	0.7	100	0.3	No of pathogens identified. Publications on new knowledge. Effective methods to destroy the grownd inoculum. Identification of effective pesticide to control the disease. No of training programmes	Identification of the new pathogens, their life cycles and application of formulate effective manage	







1.3	Studies on the environmental factors influencing the disease development & other conditions associated with the disease development					Path isolates	6	25	0.1	50	0.2	75	0.2	100	0	owledge. lum. lisease.	their life cycles and agement strategies.	
1.4	Studies on the reproductive features of the pathogen population					Path isolates	6	25	0.1	50	0.4	75	0.4	100	0.1	cations on new knot the grownd inocul aide to control the cogrammes	the knowledge on ulate effective mar	
1.5	Screening of fungicides for the effective against the disease – in vitro & in vivo	2	15	7	CF	Trials	12	25	0.5	50	1.5	75	1.5	100	0.5	No of pathogens identified. Publications on new knowledge. Effective methods to destroy the grownd inoculum. Identification of effective pesticide to control the disease. No of training programmes	Identification of the new pathogens, gaining the knowledge on their life cycles and application of the gained knowledge to formulate effective management strategies.	
1.6	Chemical controlling against the disease using drones					На.	400	25	0.5	50	0.5	75	0.5	100	0	No of path Effect Identifica	Identification of the na application of the gair	
1.7	Studies on agronomic means of disease management					Trials	4	25	0.24	50	1.0	75	0.5	100	0.5			
1.8	Training programmes					programm es	04	25	0.1	50	0.1	75	0.1	100	0.2			





TREASURY APPROVED PROJECTS IN OPERATION

(TO BE CONTINUED; FUNDING FROM MINISTRY RESPECTED)

Adaptive Research Unit (2018 – 2023)

Developing a project to approach the Voluntary Carbon Market with the rubber cultivation in Eastern and Uva provinces for sustainable rubber industry (Rs. Mn. 16.50)

No		No. *	No.	Special Priority No.	Funding Source (CF/GF)	Total Phys Target				Annual Target							Output	Outcome	Remarks
No	Activity	KPIs No.	SDG No.	al Pr *	nding Sou (CF/GF)			nal A 23 (R	Q	1	Ç	22	(Q3	C	24	Expected	cted	Rem
		Y		Specia	Fun	Unit	No.	Annt 202	P	F	P	F	P	F	P	F	Exp	Expected	
	loping a project to a cultivation in Easter							16.50		2.10		5.20		12.30		16.50	e plots		
1.1	Maintenance of monitoring plots (Present level 0%)		13		CF	No. of monitoring plots	43	0.50	25%	Verification of carbon credits	50%	0.20	75%	0.30	100%	0.50	Growth data of sample plots available	ts obtained for environmental cultivation by issuing Verified & declaration of rubber related	
1.2	Project verification by an accredited body (Present level 0%)		13		Cr	Level of verification	0%	16.00	10%	Growth data of sample plots available	25%	5.00	50%	12.00	100%	16.00	Validation/verification of carbon credits	Monetary benefits obtained for services of rubber cultivation by Carbon Standards & declaration	





Treasury Allocations Requirements for the January to Dec 2023

		Recurrent			Capital							
Month	1	Rs. Million 442.00]	RS. Million 30.00							
	Salaries	Other Recurrent	Total	Research	Other Assets	Total	Rs. Million					
January	48.44	4.58	53.02	2.16		2.16	55.18					
February	31.44	4.58	36.02	2.16		2.16	38.18					
March	32.44	4.58	37.02	2.16		2.16	39.18					
April	30.94	4.58	35.52	2.16		2.16	37.68					
May	30.94	4.58	35.52	2.16	1.50	3.66	39.18					
June	30.88	4.58	35.46	2.16	2.50	4.66	40.12					
July	29.44	4.58	34.02	2.16		2.16	36.18					
August	32.44	4.58	37.02	2.16		2.16	39.18					
September	29.44	4.58	34.02	2.16		2.16	36.18					
October	29.44	4.58	34.02	2.16		2.16	36.18					
November	29.75	4.58	34.33	2.16		2.16	36.49					
December	31.44	4.58	36.02	2.24		2.24	38.26					
Total	387.00	55.00	442.00	26.00	4.00	30.00	472.00					





Internal Audit Plan for the year 2023

Annex 6

Sri Lanka Rubber Research Institute

Mission of the Institute - To revitalize the rubber sector by becoming a center of excellence in providing high- quality scientific technologies to the rubber

industry and transferring those technologies to rubber growers through advisory services for economic and environmentally sustainable

Development.

Objectives of the Organization - To support the Government of Sri Lanka by providing the necessary technologies for sustainable development with the aim of making

the county's rubber industry competitive internationally.

Accord	ling to the 2022	Action Plan of the	institute	;	Audit Plan for the year -20	023 (as p	er circi	ular No	- DMA/	2009(1)			
ref;- ın	Project/ Section- (Area)	Activities under each area identified	sion	Expected to be achieved by doing the	Areas identified for audit based on annual plan objective	% 5			for inte		සේ දින e used		Remark
(serial No-) re action plan	(Lifett)	in the Action plan (activity)	Annual provision (Rs. Mn)	activity (objectives of the activity/Expecte d result)	achievement and risk assessment (Internal Audit Activity)	** Risk Rating	Q1	Q2	Q3	Q4	යෙදවීමට ඇති මිනිස් ගතන IA resource to be u	Number of reports expected to be provided	Nature of Audit
1	Upgrading the modern technology	DPC(minor) Plant & machinery purchasing for audio visual & research dept.	2.5	Upgrading the modern technology in the environment	ගනුදෙනුවේ පුශස්තභාවය- සහ එම තාක්ෂණය භාවිතය හුරු කරවීම පිළිබඳඵලදායිතාවය පරීක්ෂා කිරිම	75%			V			01	Compliance Audit & performance audit
3, * 1303	Building Maintenance	DPC(minor) Building -	1.5	Improving facilities	අදාල පුසම්පාදන ලිපිගොනු	75%			V			01	Compliance Audit
6	Improving Land productivity	Establish adaption research plots	0.52	Productivity improving	කොපමණ පුමානයක්research plots) සැකසුවේ ද? එලදායිතාවය?	10%		V				01	performance audit





7	Upgrading nurseries	Nursery establishment at Monaragala	4.8	Expanding rubber cultivation area	මෙම කිුයාදාමය තුලින් cultivation area වාාප්තවීද?	10%		V				01	performance audit
8	Main: mature & immature rubber field	adaptive research trial establishment at Pol: substation	0.2		පුතිපාදන වැය කර ඇති ආකාරය සහ එලදායිත්වය පරීක්ෂා කිරීම	10%			V			01	Financial audit
	Administratio n unit	භෞතික මූලා හා මානව සම්පත් නඩත්තුව හා පාලනය		පිරිමැසුම් දායී කාර්යක්ෂම සහ එලදායීපරිපාලන අංශයක් ස්ථාපිත කිරීම	වැටුප් වර්ධක තීරණය,හා ලබාදීම පරීක්ෂා කිරීම	10%				V			Compliance Audit
	Accounting divisions	Doing and reporting Financial operations		Optimum utilizing of financial assets with good transparency	Rescored maintaining-	50%	V						Financial audit
	Work section	Supporting for institutional maintenance actives			vehicle outsource repairing –	60%	V					01	Compliance Audit
3	raw rubber & chemical analysis unit	Revenue collecting by using Test report issued		Earn by testing report issued – Este: income- Rs.mn9.0		10%					V	01	Financial audit
13	Board AMCON	M			•			V	V	V	V		Organizing and report writing
14	Gratuity								V	V	1		accuracy checking
15	Tree up rooting							1	$\sqrt{}$	V	1		Pre- audit