

Department of Science and Technology
PHILIPPINE TEXTILE RESEARCH INSTITUTE

MAJOR PROGRAMS AND PROJECTS FOR CY 2020
 under the Rapid, Inclusive and Sustained Economic Growth

Program/Project Title	Objective	Beneficiaries	Project Duration	Project Cost (Php)	Source of Fund	Status
GREEN COLORANTS, MATERIALS AND PROCESSING TECHNOLOGIES R&D PROGRAM						
Comparative Evaluation of the Spinning Performance of Ramie (<i>Boehmeria nivea</i>)/Pineapple (<i>Ananas comosus</i>) Blended Spun Yarns	To develop pineapple-ramie spun yarns suitable for yarn spinning that could be used for the manufacture of office uniform and hometextile fabrics	Textile manufacturers, garment producer and converters , fiber producers and farmers	Jan 2020 - Dec 2020	2,082,000.00	GAA	new
Enhanced Bio-Chemical Pretreatment of Natural Textile Fibers	To further explore the combined bio-chemical degumming process by employing enzymes in the degumming formulations.	Fiber producers/ processors	Jan 2020 - Dec 2020	2,139,000.00	GAA	new
Semi-Worsted Natural Textile Fiber-Lyocell Yarns for Philippine Tropical Fabrics	To develop natural textile fiber based yarns and cellulose-based material which serve as a replacement blending material for polyester	Fiber producers, textile manufacturers and handloom weavers	Jan 2020 - Dec 2020	1,466,000.00	GAA	new
Spun Silk Yarns with Cellulosic Fiber Blends	To develop spun silk yarns blended with pineapple and lyocell to produce tri-blended yarns	Natural textile fiber farmers and processors	Jan 2020 - Dec 2020	1,049,000.00	GAA	new
Hybrid Cocoon Production System for Silk Development in Northern Mindanao	To establish a cocoon production technology model of PTRI hybrids in support of commercial raw silk production	Sericulture farmers	Jan 2019 - Dec 2020	2,712,000.00	GAA	on-going

NatDyes Concentrates from Philippine Natural Dye-Yielding	To develop and produce natural dyes with a comparable shelf-life	Garment industry and hobbyist	Jan 2020 - Dec 2020	2,712,000.00	GAA	new
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Plants	and color characteristics to the powdered dye					
Philippine Natural Dye Sources for Digital Fabric Printing Ink	To further improve the properties, color and storage stability of the natural dye inks	Clothing manufacturing company and manufacturer of natural dye inks/paints	Jan 2020 - Dec 2020		GAA	new
Enhancing the Products of Natural Textile Fiber Pretreatment via Wet on Wet Processing	To develop and roll-out an efficient and cost-effective process to produce pretreated natural textile fibers for spun yarn production	Farmers and farming cooperatives in Surigao del Norte and Surigao del Sur, handloom weavers	Jan 2020 - Dec 2020	12,000,000.00	GAA	new
TEXTILE TEXTILE R&D PROGRAM						
Cellulose Acetate Nanofiber Membrane from Banana (Musa sapientum cavendish var) Fibers as Dermal Delivery System of Bioactive Molecules	To develop drug-loaded cellulose-based nanofiber membrane as bioactive dermal wound dressing	Textile manufacturers	Jan 2020 - Dec 2020		GAA	new
Flourescent Dye Functionalized Cellulose Nanocrystals as Identity Marking for Specialized Philippine Textiles	To develop identity ink for Philippine textile materials based on flourescent dye-functionalized cellulose nanocrystals	Textile manufacturers	Jan 2020 - Dec 2020		GAA	new
INTEGRATED TEXTILE PRODUCT DEVELOPMENT						
Validation of the DOST Sizing System Based on the 3D Body	To verify the integration of the 3D Body Scanning technology in the product development using Philippine Tropical Fabrics	Textile manufacturers	Jan 2020 - Dec 2020		GAA	new

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PHILIPPINE SILK S&T PROGRAM						
Genome-Based Approach Silkworm Germplasm Maintenance and Hybridization	To determine climatic and location effect on rearing of hybrids produced based on marker-assisted selection	Philippine Silk Industry	Jan 2018 - Dec 2020		GAA	on-going
Support to the Development of the Mindanao Silk through the PTRI Technology Center in Misamis Oriental	To upscale the capability of PTRI TC-Misamis Oriental and re-introduce the industry of sericulture in Mindanao	Sericulture-farmers/cocoon growers of Northern Mindanao; silk handloom weavers/silk fabric producers	Jan 2018 - Dec 2020		GAA	on-going
Support for Productivity Enhancement of Sericulture, Handloom Weaving and Natural Dyeing in Visayas	To enhance the sericulture productivity, handloom weaving and natural dyeing in the Visayas	Sericulture farmers and silk handloom weavers	Jan 2018 - Dec 2020		GAA	on-going
Revitalization of Sericulture in the Cordillera Administrative Region (CAR)	To ensure sustainable supply of quality silkworm eggs and revitalizing and sustaining the production of local silk using germplasm resources and facilities that are available in a systematic manner	Sericulture farmers and silk handloom weavers	Jan 2018 - Dec 2020		GAA	on-going