

Department of Science and Technology
PHILIPPINE TEXTILE RESEARCH INSTITUTE

MAJOR PROGRAMS AND PROJECTS FOR CY 2022

Program/Project Title	Brief Description of the Project	Beneficiaries	Project Duration	Project Cost (P'000)	Source of Fund	Status
GREEN COLORANTS, MATERIALS AND PROCESSING TECHNOLOGY						
Development of Yarns through Wet-Laid Processing Technologies	A 100% wet-laid process on each kind of fiber (banana and bandala) will be explored to evaluate and compare the processability in nonwoven production for both banana and bandala fibers to be spun into paper yarn.	Banana and bandala producers and processors	Jan 2022 - Dec 2022	5,084	GAA	new
Finishing Technologies for High Blended Philippine Natural Textile Fiber Yarns and Fabrics	This project will explore the performance of PTRI developed yarns from the cotton spinning system in finishing	MSMEs involved in spinning, weaving (handloom), dyeing and other trading industries who are engaged in the utilization of indigenous materials that are available in the Philippine are amongst the beneficiaries of the project.	Jan 2022 - Dec 2022	2,237	GAA	new
Pilot Scale Verification of the Enhanced Spinning Method using Compact Spinning System	This study is the pilot-scale verification of the enhanced spinning system method using the compact spinning system for the development of natural textile fiber based yarns for long staple (semi-worsted) and short staple (cotton) spinning systems.	Pineapple leaf fiber suppliers in Camarines Norte and Aklan Abaca fiber suppliers in Catanduanes	Jan 2022 - Dec 2022	2,201	GAA	new
Banana (Musa acuminata) with Wool Fiber Blended Yarns	This project will be utilizing banana fibers blended with wool to enable to produce 3 sets each of yarns from 25/75, 50/50 and 75/25 banana fiber and wool fiber blended yarns varying from medium to fine count yarns using the semi worsted spinning system.	Fiber producers and sheep farmers in the countryside Designers with the introduction of specialty materials	Jan 2022 - Dec 2022	2,033	GAA	new
Synthesis and Characterization of Lignin-PLA Copolymer from Degumming Spent Liquor	This project aim to develop lignin-PLA copolymers where the lignin will be derived from the spent liquor of degumming Musa sp. pseudostem and pineapple leaf fibers.	Nonwoven industry in general with a potentially improved PLA composite feedstock for melt extrusion processing	Jan 2022 - Dec 2022	3,271	GAA	new
Bio-Based Mordanting for Natural Dyeing of Animal and Plant-Fiber Based Textiles	This project take-off from the 2010 project entitled "Optimization of Tannic Acid as Bio-Mordant for Protein and Cellulose Textile Bio-Polymers and Development of Anti-Microbial Naturally-Dyed Textiles using (1>4)2-Acetamido-2-Deoxy-Glucose (Chitosan) as Bio-Mordant. Tannins from mango bark, coffee pulp and coconut husk will be used as natural mordants.	Farmers/producers (such as communities under the Non-Timber Forest Products Task Force) Communities working with the NatDyes production hubs in Abra, Mindoro and South Cotabato	Jan 2022 - Dec 2022	1,615	GAA	new

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Multi-Locational Rearing of F1 Bivoltine Bombyx mori L. silkworms from the Crosses of Genome-Guided Parent	The project aims to evaluate the larval quality, cocoon productivity and raw silk properties of the six (6) newly developed PTRI hybrid silkworms in Claveria, Misamis Oriental, Gingoog City and Cagayan de Oro City.	Dyers, handloom weavers, knitters, fashion designers, textile artists as well as entrepreneurs would also benefit from the availability of natural dyestuff and dyed products that can be utilized for business Cagayan de Oro Resettlement Socialized Housing Project - 4 (CDORSHP), Brgy. Balubal, Cagayan de Oro City Ms. Flor Docuyan, Brgy. Anei, Claveria, Misamis Oriental Baliguihan Higaunon Ancestral Domain, Inc. Brgy. Eureka, Gingoog City	Jan 2022 - Dec 2022	3,299	GAA	new
SMART TEXTILES R&D PROGRAM						
Color-Tunable Luminescent Ink for Textile Authentication	The program aims to develop security textile materials based on covert optical technology for various types of woven fabrics.	With the anti-counterfeit technology, community weavers could win back control of their products and ward off falsifications.	Jan 2022 - Dec 2022	1,558	GAA	new
TEXTILE RESOURCE MANAGEMENT PROGRAM						
Evaluation of Environmental Impact of the NatDye Powder and Concentrates Production Process and Dyeing Application	It aims to quantify the environmental impact of the natdye powder and concentrates production through Life Cycle Analysis (Cradle to Gate Method)	The life cycle analysis for the production of natdye powders and concentrates shall provide awareness and confirmatory results on the environmental burdens associated with the said products.	Jan 2022 - Dec 2022	2,205	GAA	new
INTEGRATED TEXTILE PRODUCT DEVELOPMENT PROGRAM						
Digitization of Culturally-Significant Filipino Apparel Conserved as Museum Pieces	The project aims to digitize Filipino apparel or garments worn across significant time periods such as pre colonization, colonization (Spanish and American), and post colonization (after 1950s up to present (apparel done by Filipino designers). The project will be limited to the available inventory of the museums that are considered to be partner contributors or collaborators.	The identified beneficiaries are the academe such as those taking textile and fashion, costume and art history. Fashion designers, textile designers and costume designers who can be able to appropriately utilize these materials for fashion and textiles	Jan 2022 - Dec 2022	2,655	GAA	new