

Executive Summary

1.Details of the promotional activities to support graduate research and development plan for the 2020 budget year.

1.1 Title

(Thai language) Innovative Synthesized Melanin from Soil as Textile Substitute to Create Garments for the Future

1.2 Responsible committee for the promotional activities and for research grant.

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1.3 Research budget, period of promotional activities and research funding

Funding received in the 2020 budget year, amount 215,000 baht.
Period from April 2020 to April 2021.

2.Summary of activities (write an overview project summary with brief detail that could be published).

2.1 The importance and background of the problems encountered in the organization of the promotional activities and research funding.

One of the four requisites necessary for one's living is clothing. Clothing is necessary to cover our bodies, give us warmth from cold weather. Therefore, human has giving the importance of clothing design especially the adoption of colors in their clothing that in relation to their own skin colors will overall create harmonious with their natural skin tone. This is a strategy in accentuating their own body, reflect their own personality, represent their race and living aesthetic through the help of the clothe they wear.

2.2 The objective of carrying out the promotional activities and research funding.

2.2.1 Study, research and collective knowledge of “Human skin tone” are aimed especially at Thai people living in different regions in order to design clothing which matches with their skin tones.

2.2.2 Produced prototype clothing which represented “The future of material production technology” that enabled the use of melanin to be the evaluation criteria and achieved the result which is the relationship chart between the material and skin tone that match beautifully plus is safe to wear.

2.2.3 Introduce “The philosophy and aesthetic of colors to human skin tone” that strengthen external appearance, tastes and elevate the future of how Thai dresses themselves.

2.3 Method in carry out promotional activities and research funding.

The plan can be divided into 4 regions which are:

2.3.1 The study and research into the Thai skin tone.

2.3.2 The research and experiment on technology to create innovative textile substitution.

2.3.3 The design and production of future garments.

2.3.4 The publication and communication of knowledge to the public.

2.4 The result of promotional activities and research funding.

2.4.1 The researcher was given an opportunity to cp-exhibit the work in Atta Gallery which is the only contemporary jewelry exhibition gallery in Thailand. The gallery is of International standard which was hope to publicize this thesis work to a wider channel of innovative future between 22nd March and 22 April, 2021.

2.4.2 During the exhibition period, the research had plan to hold the conference and has received the honour from Professor Dr. Supakorn Dittapun and Associate Professor. Dr. Singha Indra-Chuto in joining this conference on 20th April, 2021. The conference was aimed at demonstrating the ability outlined in the thesis on the new discovery unlike any other research but this thesis outcome has displayed a different conclusion and challenge the society with this new creativity.

2.4.3 During the period of the exhibition, on 2nd April, 2021, the researcher had given out free lecture to the students from various institutions about the research in order to strengthen the exhibition system and to share the background of the exhibition which consisted of high quality research that could be beneficial to the society or meet the needs of the nation.

2.5 Success and value.

The objective of the output as well as the indicators that gauge the output success have exceeded the requirement. These consists of:

2.5.1 1 copy of the research thesis according to the development plan and objective.

2.5.2 2 written pieces which publicized on academic work have received an overwhelming reception nationwide. These publications are consisted of 13 pieces on a national level and 12 pieces on an international level.

2.5.3 15 future garments prototypes according to the action plan. 20 items were beyond expectation.

2.5.4 1 activity to showcase knowledge according to action plans. 2 activities were beyond expectation.

2.6 Target group and benefit received from the project.

The Y and Z generations. The Y generation is those who were born between 1981-2000 whereas the Z generation is those who were born after 1997. These 2 generations have similarities. Both have grown up surrounded by comfort and convenience and in which the period was fast moving technology. These generations, therefore, were being born with technology adaptation, they were ready to accept and to learn of new technology skills. They were also inhibited the love of challenge, open mindedness towards new things and having abilities to deal with unforeseeable situations. These characteristics are the benefit of this generation which enable them to actively welcoming new ideas and give importance to new innovations from different areas. As a result, the lifestyle of these generations are always to stay up-to-date. However, they also are the generation that is more aware of the natural resources conservation.

As a result, the benefit of this research title “Innovative Synthesized Melanin from Soil as Textile Substitute to Create Garments for the Future” can be seen as the work that was developed with the awareness of being environmentally friendly with the focus of nature rehabilitation as one of the most important costs. In order to meet the daily consumption, one must look at ways in which we can produce products that are eco-friendly and designs that can be used over and over again or otherwise designs to create biodegradable products or designs that is adopting zero waste. It can be seen that this method of production using the innovative design to provide material substitution and helping to reduce production capacity and avoid materials that are harmful to the environment.

2.7 Utilization (describe utilizing method)

2.7.1 The outcome of this research is in line with the national development plan which can be divided into 3 strategies consisted of scientific knowledge innovation, increasing values and worthiness of existing natural resources and design aesthetic.

2.7.2 Innovative textile product as a substitution not less than 50 sheets. The prototype and samples of “substitute textile”, the melatonin bio-fiber, made from research and innovation from synthesis melatonin soil. This innovation shows sustainable design and production cycle as well as the success in strengthening the balance of nature through the philosophy of self-respect which is about seeing the value of blending the skin tone to nature which can be interpreted as respectful to one’s race.

2.7.3 The result of the future garments design not less than 15 pieces produced (20 pieces produced had surpassed the expectation). The collection “future garments” including the effectiveness of the substitute fiber and the potential of the prototype that supports the economic growth in sustainable creative fashion business.

2.8 Suggestions after promotional activities which supported the research were held. (Strategic suggestions, academic suggestions and overall suggestions to be applied in the following year).

The future of human garment is an integration of aesthetic and innovation in the substituted textile especially the selection of clothing that is harmonious with the skin tone. It is the strategy to accentuate the external beauty that represents race and living with nature and safe living and in search or wish to find ways into the new methodology of “self-esteem”. It also maximizing the relationship between human and substituted textile that brought us to respect the true ecological cycle in which mankind can related this content to come to terms with the meaning of life.