Submission Template

Challenge Statement:

Title of Proposal:

Submission Requirements

A. Details of Applicant
B. Executive Summary
C. Detailed Project Proposal

A. Details of Applicant

- Legal Name of Lead Company and Collaborator(s), if any
- Lead Applicant’s Email and Contact Number
- Country of HQ and Company Website
- What is your objective(s) for participating in this Crowdsourcing? [in less than 100 words]

B. Executive Summary

Instruction: To provide a summary of the solution, technology and deliverables – tangible and intangible outcomes of the project (in less than 500 words).

Please include items specified in the section, “Detailed Project Proposal” in Slide 5 & 6 (TBC).

C. Detailed Project Proposal

To include in proposal submission:

1. Devices for Biological action
-Wavelength band
-Output power (W) *Note: Not power consumption
-Size of the device
-Life time of the device
-How the combination technology works (Only for 2* shown in attached diagram in slide below)

2. Biological effect
- Has the effect been verified by cellular or in vivo experiments (including pseudo-skin)?
- Are there any papers that provide evidence?
  (General papers in which the tech owner is not the author are also acceptable)

3. Solution
- How do you turn your technology into a product? (Device, Module product or Final product)
- What kind of applications have you tried before?
  (Hair care, beard care, skin care, dental care, body care, etc.)
- What kind of application do you think that the technology also applicable beyond applications you tried?
  (Hair care, beard care, skin care, dental care, body care, etc.)
- What is the novelty and differentiation point compared with existing technologies?

4. Technology Readiness Level (TRL)
-What is the current phase of the device?
 (research phase, development phase, mass production phase, in mass production)

C. Detailed Project Proposal

Bioactive device by Electromagnetic waves

■ **The relation between light type and wavelength**

High energy
(short wavelength)

Low energy
(longer wavelength)

Therapeutic X-rays and gamma rays	Diagnostic X-ray	Ultraviolet ray	Visible light	Infrared ray	Electric wave		
					Sub millimeter wave	Millimeter wave	Microwave

400nm 780nm

Out of Scope:

E.g., Intense Pulsed Light for Skin care product

Target Scope:

1*. Devices and technologies using sources with wavelengths longer than 780nm to the microwave region

2*. Devices and technologies using sources with wavelengths longer than 400nm to the microwave region, and in combination with either electricity and/or magnetism and/or ultrasound waves, etc.

***Number is according to the priority for this survey.**