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25AA 991469

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MoU) is made and entered into on this 13th day of December 2024, by and between:

1. **Sahrdaya College of Engineering & Technology** (hereinafter referred to as **Sahrdaya**), located at Kodakara, P.B.No.17, Thrissur (Dt), Pin 680684, Kerala State, India, an autonomous engineering college affiliated to APJ Abdul Kalam Technological University.
2. **Sahrdaya Technology Business Incubator and Innovation Hub** (hereinafter referred to as **Sahrdaya TBII Hub**), located at Sahrdaya College of Engineering & Technology, Kodakara, P.B.No.17, Thrissur (Dt), Pin 680684, the technology business incubator of Sahrdaya.
3. **Eightwe Digital Transformations Pvt. Ltd.** (hereinafter referred to as **Medzell**), located at 10G Phase II, BCG Golden Orchid, Ruby Lane, Thammanam, Kochi, Ernakulam, Kerala - 682032, India, a medical technology company involved in innovation.

On 2/1/25 *Chungath*

STARRON COLLEGE OF

ENGINEERING AND

TECHNOLOGY, KODAKARA

13.12.2024





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Background and Purpose

This MoU outlines the terms of collaboration between Sahridaya, Sahridaya TBII Hub, and Medzell for the development of a novel **Early Breast Cancer Screening Device** using red light and near-infrared (NIR) light. The device aims to facilitate early detection of breast cancer through diffuse optical spectroscopy, which measures oxyhemoglobin and deoxyhemoglobin saturation for accurate tissue oxygenation analysis and identification of potential tumor presence.

Project Overview

Project Title: Early Breast Cancer Screening Device using Red Light and Near-Infrared Light

Total Project Cost: INR 5,00,000

Chengalath

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*Sahridaya Cancer Center
Ernakulam, and
Technology Laboratory*



Key Features of the Device

- Use of red light (700nm) for illumination of breast tissue.
- Near-infrared light (760nm & 850nm) for measuring deoxyhemoglobin and oxyhemoglobin saturation.
- Integrated photodetectors for capturing reflected light and differentiating cancerous tissue.
- Advanced algorithms for analyzing collected data to facilitate early-stage cancer detection.

Scope of Collaboration and Financial Commitment

1. Medzell's Contribution

Total funding of INR 4,00,000 dedicated to:

- INR 1,60,000 for product development.
- INR 2,40,000 for stipends for four final-year students and six months of incubation expenses, including the cost of a 5-seater incubation space at INR 8,000 per month.

2. Sahridaya College of Engineering & Technology's Contribution

Contribution valued at INR 1,00,000, including:

- Access to laboratories and research facilities.
- Provision of incubation center resources.

3. Sahridaya TBII Hub's Contribution

- Provision of a 5-seater incubation space, with costs covered from the project's incubation budget.

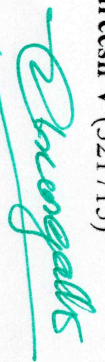
Team Structure

1. Medzell Team:

- **Mr. Sujith**, Founder and CEO of Medzell, will supervise the overall project.
- A designated Medzell staff member will work closely with the student team.

2. Student Project Team from Biomedical Engineering Department:

- **Alvin Reji** (321707)
- **Athira K.B** (321706)
- **Hareesh V** (321715)



- **Mekha P (321020)**

3. **Faculty Supervisors:**

- **Ms. Supriya Mary Sunil, Assistant Professor in Biomedical Engineering**
- **Mr. Jibin Jose, Assistant Professor in Biomedical Engineering**

Intellectual Property (IP) Rights

- The intellectual property rights of the Early Breast Cancer Screening Device will be **jointly held** by Sahrdaya College of Engineering & Technology and Medzell.
- Medzell will have the **exclusive commercialization rights** for the developed product.
- All inventors from Sahrdaya College and Medzell will be listed on any patents or publications arising from the project.
- Each unit sold by Medzell will include a marking or label designating Sahrdaya as the technological partner.
- A **Non-Disclosure Agreement (NDA)** will be signed by the inventors, Sahrdaya, and Medzell to protect proprietary information.

Public Announcement and Formalization

- A public announcement will be made to promote awareness of the partnership.
- This MoU formalizes the collaboration and outlines each party's responsibilities.

Duration and Review Period

- The duration of the project is **9 months**, with review meetings scheduled at regular intervals to monitor progress.

Termination Clause

- This MoU can be terminated by any party with **90 days** written notice. All obligations up to the termination date must be fulfilled.



Dispute Resolution

Any disputes arising from this MoU will be settled through mutual discussion or, if necessary, through arbitration in accordance with Indian law. The jurisdiction for dispute resolution will be Thrissur District, India.

Signatures

In witness whereof, the parties have executed this MoU on the date first mentioned above.

For Sahrdaya College of Engineering & Technology

Fr. Dr. Anto Chungath

Executive Director

Date:13-12-2024

For Sahrdaya TBH Hub

Mr.Jibin Jose

CEO

Date:13-12-2024

For Eightwe Digital Transformations Pvt. Ltd. (Medzell)

Mr. Sujith S

CEO

Date:13-12-2024

Witnesses

Dr. Jis Paul

HOD, Biomedical Engineering, Sahrdaya College of Engineering & Technology

Ms. Arya U

Junior R&D Engineer, Medzell