



## Social Innovation programme for Products: Affordable & Relevant to Societal Health

SPARSH- *Touching a Billion Lives*

### Sparsh announces the successful applicants of first Call on Maternal and Child Health

#### Affordable Product development

**Project Title:** Microfluidics based On-chip Real-Time PCR Device for Neonatal and Maternal Screening

**Applicant:** Dr. Sai Siva Gorthi

**Brief Description:**

The applicant wants to develop a standalone microfluidics based device for diagnosing human immunodeficiency virus infection by nucleic acid test. The project involves design and development of a handheld sample preparation module, followed by the development of a compatible analysis module.

**Project Title:** A novel technique for monitoring of fetal growth through volume imaging of the fundus and estimating the gestational age, amniotic fluid index and intra-uterine growth abnormalities of the fetus

**Applicant:** Nishant Kumar

**Brief Description:**

The central idea of the proposal is to build novel diagnostic tools to monitor the growth of the fetus during pregnancy. This will be achieved by the regular measurement of the volume of the fundus, weight of the pregnant lady and her height.

**Project Title:** Noninvasive electrical device for transcutaneous iron replenishment

**Applicant:** H.N. Shivakumar

**Brief Description:**

The idea is to develop a noninvasive patch for the delivery of iron via transcutaneous route (skin) to treat iron deficiency anemia particularly in case of moderate and severe anemia in which oral therapy would require prolonged duration and parenteral therapy may be inevitable. The patch would be a simple battery operated device that could deliver therapeutic amounts of iron compounds across the skin into systemic circulation.

**Project Title:** Electricity Free Baby Incubator

**Applicant:** Science for Society Techno Services Pvt. Ltd.

**Brief Description:**

Electricity Free Baby Incubator (EFBI) is a baby care unit that creates ideal artificial atmosphere for neonatal baby to save it from hypothermia. The unit that works free of electricity requires only hot water as energy source for charging once in a day.

**Project Title:** Establishing proof of concept for recombinant Sinapultide- A peptide for the treatment of respiratory distress

**Applicant:** Izene life sciences Pvt ltd

**Brief Description:**

Izene is trying to produce Sinapultide (Surfaxin) molecule by recombinant biological system.



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**Project Title:** Implantable Scaffolds for Obstetric Fistula

**Applicant:** Mugagen Laboratories Private Limited

**Brief Description:**

This project is focused on the development of an affordable implantable scaffold which will facilitate growth of normal tissues across the obstetric fistula and maintain mechanical and biological integrity during the process of healing.

**Project Title:** Development of a point-of-care diagnostic tool for pre-eclampsia screening.

**Applicant:** Shantani Proteome Analytics Private Limited

**Brief Description:**

The applicant wants to utilize Shantani's in house protein biochemistry and immunology expertise to first screen and select the antibody against PlGF and sFlt-1, and then use the selected antibodies to develop an immunochromatography method for the detection of PlGF and sFlt-1 and finally validate the method in clinical samples.

**Project Title:** Development of Iron Rich Rice Bran Protein Hydrolysate from the By-product of Rice Bran oil Industry

**Applicant:** Cellzyme Biotech

**Brief Description:**

The project aims to prepare a rice bran based protein hydrolysate that can be either used as a functional food or a fortification agent. The product is expected to be rich in essential vitamins, micronutrients and minerals which can be used by expectant mothers. The product can also be used to address the children malnutrition by fortifying with other foods offered in the mid-day meal scheme executed by the government in various states of India.

### Social Innovation Immersion Program

- Project Title:** Healthcare technology innovation fellowship - Maternal and Child Health  
**Applicant:** Healthcare Technology Innovation Centre
- Project Title:** Entrepreneur-in-residence program aimed at enabling first-time entrepreneurs convert their innovative ideas into successful social enterprises  
**Applicant:** Villgro Innovations Foundation
- Project Title:** Maternal and child health social immersion program  
**Applicant:** KIIT-TBI Bioincubator
- Project Title:** Pune MedTech Fellowships under the BIRAC - Social Innovation Immersion Program  
**Applicant:** Entrepreneurship development Center
- Project Title:** Social Innovation Immersion Programme (SIIP) by Translational Health Science and Technology Institute, Faridabad, India  
**Applicant:** Translational Health Science and Technology Institute