Fetal Lite: Fetal heart rate monitor for women in labor

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Fetal Lite is an easy to use Biotechnology Industry Research Assistance Council (BIRAC), a Government of India’s enterprise supported innovation developed by Sattva Medtech, a division of InnAccel Technologies Pvt Ltd., Bengaluru, for monitoring fetal heart rate among women in labour. The innovation aims to resolve the technology access issue via its unique technology called Fetal ECG extraction technology.

Fetal Lite is a next generation, AI-powered, fetal heart rate (FHR) monitor, based on fetal ECG signal extraction technology for women in labour. It helps to reduce intra-partum deaths (both woman & fetus) through efficient referral and better diagnosis and care for high risk babies. This technology has completed head-to-head clinical trial comparing it with GE ultrasound system. The innovators have already applied for a patent and the technology is now European CE certified.

Fetal distress is a leading indicator for fetal asphyxia i.e., deprivation of oxygen during labour. Inadequate fetal monitoring leading to undetected fetal asphyxia is a major factor in over 300,000 intra-partum deaths annually in India. While the current doppler-based devices have been available in the market for years, usability issues and the lack of skilled staff have limited the penetration of the technology in smaller birthing centre.