

National Individual Consultant – Statistical Analyst for Advanced Analysis of the EmONC Survey

📅 08 October 2026

📍 Sri Lanka

📄 National Individual Consultant

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Purpose of consultancy:

Sri Lanka has made notable strides in maternal and newborn healthcare, serving as a global benchmark among low and middle income nations. However, eliminating remaining preventable maternal and neonatal deaths in alignment with Sustainable Development Goal 3 (SDG 3) and the global Ending Preventable Maternal Mortality (EPMM) target of ensuring emergency care access within two hours requires continuous, data-driven optimization of health systems.

To establish a national evidence base for strategic health planning, the Family Health Bureau (FHB) of the Ministry of Health, in partnership with UNFPA Sri Lanka, is leading a nationwide Emergency Obstetric and Newborn Care (EmONC) survey. Sri Lanka is the first country globally to implement the newly updated EmONC assessment methodology developed by Columbia University's Averting Maternal Death and Disability (AMDD) Program alongside UNFPA, UNICEF, and WHO. This revised framework evaluates service availability, facility readiness, referral networks, quality of clinical care, and patient experience. The assessment collects comprehensive data across 9 distinct modules administered at health facilities across all nine provinces:

The Emergency Obstetric and Neonatal Care (EmONC) Survey encompasses 9 distinct modules, generating a large volume of complex data across various variables and record structures. Data collection, cleaning, database management, and basic descriptive analyses were outsourced to a data firm (IPID) under the guidance of Lead Consultants.

However, basic descriptive outputs alone are insufficient for full report writing. Developing a comprehensive EmONC report requires generating outputs from combined variables, establishing standard EmONC signal functions and indicators for international comparison, merging secondary datasets, and customizing analytical tables. To bridge this gap, a dedicated Statistical Analyst is required for a short term 2 month period to work directly under the Research Committee and Lead Consultants to execute advanced data modeling and generate ready to report outputs.

Scope of work: (Description of services, activities, or outputs)

The consultant is expected to carry out the following activities during the period 25th October 2026 to 15th December 2026.

Tasks:

The consultant will work under the supervision of the Lead Consultants and Research Team to perform the following short-term tasks beyond the basic descriptive outputs provided by the company:

- Perform further validation of basic survey results through cross tabulations and case-by-case verifications as requested by the Research Team.
- Construct new composite variables using multiple source variables based on defined clinical/epidemiological criteria (e.g., generating IV antibiotic availability from defined medication lists in Module 2).
- Generate global EmONC signal functions and standard EmONC indicators for international comparison in accordance with the standard EmONC manual.
- Merge primary facility survey data with secondary datasets, including maternal/infant mortality data from the Family Health Bureau and selected morbidity data from e-IMMR.
- Collate and combine data across multiple survey module databases (e.g., linking facility infrastructure from Module 1 with user satisfaction data from Module 7).
- Conduct advanced cross-tabulations using key predictor variables, along with correlation analyses (e.g., evaluating birth weight against parity, gestational age, and delivery mode).
- Disaggregate analytical outputs by province to enable provincial-level reporting.
- Deliver regular progress presentations to the Lead Consultants and members of the Research Team.

Documents

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