



Notice Inviting e-Tender

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PROCUREMENT OF REAGENT AND CONSUMABLES FOR NEWBORN SCREENING (NBS) OF INBORN ERROR OF METABOLISM THROUGH ANALYSER IN THE HOSPITALS AND MEDICAL COLLEGES OF THE GOVERNMENT OF WEST BENGAL.

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL /NIT-43/2021

Dated –19.02.2021

Amendment-II

TECHNICAL SPECIFICATIONS

Reagents required: for approximate sample size 3000 for each test per year.

Disease identified	Name of the tests	Method of test	Sample	Reagents required
Congenital hypothyroidism (CH)	Neonatal TSH	Fluorometric Enzyme Immuno Assay for determination of TSH	Dried blood spot	Neonatal TSH FEIA kit
Congenital adrenal hyperplasia	Neonatal 17 OHP	Fluorometric Enzyme Immuno Assay for determination of 17 OHP	Dried blood spot	Neonatal 17-OHP FEIA kit
Galactosemia	Neonatal	Fluorometric	Dried	Neonatal Galactose

	galactose	detection and enzymatic determination of Total galactose	blood spot	Fluometric test kit
G6PD deficiency	Neonatal G6PD	Fluometric detection of G6PD with enzymatic method of quantification	Dried blood spot	Neonatal G6PD, fluometric test kit
Biotinase deficiency	Neonatal Biotinase	Fluometric detection of Biotinase enzyme activity with enzymatic method for quantification	Dried blood spot	Neonatal Biotinase Kit
Hemoglobinopathies	Neonatal Hb Electrophoresis / Isoelectric focussing (IEF)	Specific method of Hb electrophoresis or IEF specially to identify Hb S & Hb E in addition to normal Hb variants	Dried blood spot	Neonatal Hb Electrophoresis Kit / Isoelectric focussing (IEF)

- The kits will include all the controls and calibration reagents and consumables required for the estimation of the each investigation
- The kit should be CE / US FDA approved
- Simple and easy to perform
- Calibrated against the most recent international references
- Kit inserts should be supplied
- **Consumables required:**

Name of items	Specifications
Newborn screening card :	a) CDC and WHO approved Whatman 903 grade filter paper for dried blood spot collection for newborn screening tests b) 5 circles with size of half inch circles for direct blood spots c) There should be column for clinical condition and demographic details for newborn screening d) Clearly printed expiry date and Lot number in every newborn screening card

	<p>e) The card should have specific serial number for identification of samples, quick reference number to ensure proper collection and storage</p> <p>f) There should be wrap around card to protect sample from unwanted exposure to touch and environment</p>
Neonatal lancet	<p>Specification:</p> <p>a) Width and Depth (mm) should be at least 2.50 x 1.00 mm</p> <p>b) Blood volume should be high flow.</p> <p>c) It should be US-FDA / CE certified.</p> <p>d) Firm should provide training to technicians / nurses regularly for blood collection.</p> <p>e) Should be useful for collection of blood from neonate by heel prick</p>

- **7. Contract with the vendor:**
 - The selector company / vendor will be required to supply the all the necessary equipments required to set up newborn screening (NBS) lab free of cost. The following equipments will be supplied free of cost by the company which would be capable for screening of newborn samples taken in form of dried blood spots. The equipments are:
 - a) Fluorometric reader, complete with computer, software
 - b) Automated washer
 - c) Manual puncher
 - d) Automated incubator shaker
 - e) Hb Electrophoresis/ Isoelectric focussing (IEF) system capable to detection of hemoglobinopathies in newborn from dried blood spots, to be provided with necessary software and computers
 - In addition, the company will set up the instruments, train the staff in running the instruments, provide diagnostic standards and solutions for operational issues as well as arrange for maintenance and servicing of the equipments free of cost throughout the contract period. Appropriate KVA of UPS to be supplied.
8. Estimated cost of the reagents and consumables per sample for all parameters: **Rs. 850 (including all taxes)**