GOVERNMENT MEDICAL COLLEGE & HOSPITAL, CHANDIGARH.
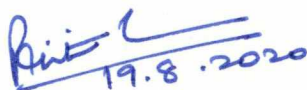
GENETIC CENTRE

Notice for procurement of New born screening application software being Proprietary Article
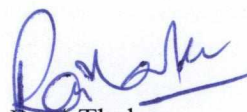
The Genetic Centre intends to purchase New born screening Application software having following detailed specifications mentioned below.

As per knowledge of Genetic Centre, above said software is only manufactured by M/s Northgate Public Service (UK) Ltd, Peoplebuilding Two, Peoplebuilding Estate, Maylands Avenue, Hemet Hempstead, Hertfordshire, HP2 4NW (Principal Firm) and the said firm sells the same or similar through its authorized agent/dealer M/s Rave Technologies (India) Pvt. Ltd., 3rd floor, Madhu Industrial Estate Panduran Budhkar Marg, Worli Mumbai 400013, India. The proprietary certificate issued by the OEM is attached as Annexure-I.

In case, there is any other, OEM for the above said article, then they are requested to submit their proposal to the Director Principal, GMCH, Chandigarh through e-mail dpgmch-chd@gmch.gov.in / hard copy latest by 08.09.2020 failing which it will be presumed that there is no other firm who manufacture the required software and purchase will be processed and finalized from the available source.

Dr. Priti Arun
Prof. & HOD

Dr. Gurjit Kaur
Consultant Lab. Incharge

Dr. Ravi Thakur
Biotechnologist.

Proprietary Certificate

Date – 11ᵗʰ Aug, 2020

To,

The Medical Superintendent,
Government Medical College & Hospital
Sector – 32, Chandigarh

We hereby declare that the India screening software platform ("SMaRT") has been designed and developed solely by Northgate Public Services UK LTD and its associate entity Rave Technologies (India) Pvt. Ltd.

Both these entities are 100% owned by NPS (Holdings) Ltd. The "SMaRT" screening software mentioned above is a proprietary item under international intellectual property rights.
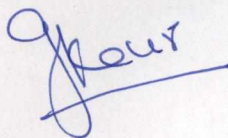
"SMaRT" is designed for the recording of screening activity and the management of screening pathways for Newborn and Adult population based screening programmes and we are the sole supplier of the product in India

Thanking You

Rave Technologies (India) Pvt. Ltd.
(A Northgate Public Services Company)

Authorized Signatory

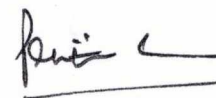Kedar Vasudeo Barve
Managing Director

_pecifications:– Screening, Management and Tracking System Software

1. The product should be available in form of software based service involving newborn baby screening volume based data tracking, data management, and parent follow-up service in form of sms and emails.

2. The software must generate a unique patient ID for each patient that can be linked with multiple samples, printed in barcode format and enable patient record searches to be triggered through barcode reading. The software should be able to read bar code mentioned on the card/ filter paper.

3. The software must provide a role based security model allowing data access rights and functions to be managed based on an individual's role and location.

4. The software should have the facility in a drop down menu (where ever possible) for entering demographic details of baby including baby C.R.No, Name, Date & Time of birth, Sex, Weight at birth, Single/Twin/Triplet, Transfusion if any as well as mother's details i.e. Mother's C.R.No, Mother's Name, Mother's Age, Father's name, Residential Address, Contact Nos. and Email IDs, Gravida, POG and type of delivery, any medical history, Outcome: Live birth/IUD/Still birth/Expired etc.

5. Once the baby's blood spot sample is added, the system should allow for other test like pulse oximetry etc.

6. The system should have a field to record if baby has any visible physical birth defects and if these are present, this system should provide an option to upload a photograph of the physical defect to the babies' record.

7. Once the samples are received at the Genetic Lab, the lab technician should be able to record receipt of the sample in the system by simply scanning the barcode or entering the unique ID from the sample card.

8. The results of sample once obtained by the Laboratory should be automatically recorded against the baby's record. This is to be facilitated through an interface between the screening system and the Laboratory Information Management (LIM) system.

9. NBS software system will analyze test results and categorize them in 'Normal', 'Borderline' and 'Positive'.

10. The NBS software will send the Normal Reports to the concerned Paediatrician via SMS and E-mail. If the test result is 'borderline' then system should send notification to attending Neonatologist, Consultant Incharge Genetics and technician so that another sample can be taken for retesting. All the notification should be in the form of SMS and email. System should also provide facility where user can upload test results manually.

11. In case of 'Positive' results, system should send immediate sms to the referring Paediatrician or Neonatologist and consultant Incharge Genetics for further confirmatory tests and management.
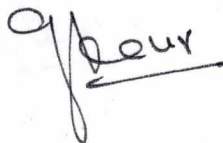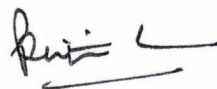
12. The system should support the ability for Users to search for baby records using a number of data items such as baby's name, mother's name, unique ID, name of the hospital, name of the screener, date of birth, etc.

13. The system must be capable of identifying the status of the baby's screening status .eg.
    - A sample has been taken
    - A sample has be received by the lab
    - The sample has been processed
    - A repeat sample is required
    - The baby requires referring as the outcome of the screen is positive (for a condition)
    - A repeat sample collected

14. An Android based mobile Application shall be used by the Screeners through their mobile phones and will enable the recording of the screening.

15. The mobile application should have the capability of allowing the screener to capture the baby's screening details as and when the screening is performed.

16. The Mobile application should enable easy retrieval of password in case the screener forgets the password.

17. The System should be easily configurable .e.g. to support interfaces and integration with other systems (Hospital Information System and Laboratory System) to allow seamless dataflow along the pathway.

18. The system must be capable of integrating with HMIS in order that birth and demographic information pertaining to babies born within the hospital can be automatically transfer to the screening system

19. The software should be configurable to accommodate new screening sites and tests.

20. The software is to be given as 'Software as a Service' model to GMCH with all the responsibility of software up gradation shall lie with the Supplier whenever required.

21. The software must have been implemented in a cloud/data centre/SaaS model.

22. The software should have been used to screen significant number of babies.

23. The software must have the capability to extend to other screening programmes such as ante-natal screening and as per requirement of user department.

24. The Supplier must confirm that the following help facilities are available to the authorized users of the Solution:
    - Telephone access to the Service Desk during Core Service Hours (9.00am to 5.00pm, 365 days per year); and
    - Online access to training and user documentation via the Documentation.

25. The Supplier shall provide the solution in accordance with the Service Level Agreement which will be defined and agreed in writing.

26. Implementation and Training requirements:
    - The Software should automatically pick up data from all the testing machines which are capable of exporting data/results.

- Data Storage must be in accordance with the industry recognized standards(safe and secure). The Supplier must include adequate data storage capacity as part of the solution.
- The Supplier should ensure that the hosting environment conforms to all the relevant Security Standards and Guidelines.
- GMCH data, and the assets storing or processing it, should be protected against physical tampering, loss, damage or seizure.
- The service provider should have a security governance framework that coordinates and directs their overall approach to the management of the service and information within it.
- The service provider should ensure that its supply chain satisfactorily supports all of the security principles that the solution claims to implement.
- GMCH recognises that the solution being proposed is a hosted solution implemented in accordance with national guidelines with respect to the personal data of the patients. It must be accessible over a secure network.
- The Supplier must confirm that the solution has the functionality which shall permit the GMCH to run a number of standard reports based on its patient data within the Software on a monthly, quarterly and annual basis. GMCH should also have the opportunity to export data to undertake its own analysis and assessment and produce localized reports.
- The Company must provide hardware i. e. Desktops and mobile application with network connectivity to atleast five hospitals of U.T. Chandigarh. The data has to be stored for minimum for five years from the time of registration of Newborn.
- The Software should be n-tier architecture and based on latest technology.
- The system should be able to generate the standard reports. GMCH shall specify all the reports before the implementation of the solution. GMCH should be able to export data to undertake its own analysis and assessment and produce localised reports.
- The Solution provided should be ICD – 10 or SNOMED or Health Line – 7 compliant.
- The Supplier should provide information of the hardware installed in the data centre. The maintenance and upgradation shall be the responsibility of the supplier.
- The solution provided should have efficient retrieval, searching, browsing, easy maintenance, sorting, compressing, retention, disposal, backup and restore/ recovery facilities.
- The Supplier will ensure maximum level of parameterization to meet the frequent need for changes without disturbing the software.

27. BIS/CE/USFDA Certified

28. Specification are not tailor made