

Notice Inviting Final Bid (in Two-part Format) for Mission NEEV

Maulana Azad Medical College, New Delhi, Department of Pediatrics

In response to the Notice inviting Expression of Interest (Eoi) vide Notice No. 42C in MAMC website (www.mamc.ac.in) of Maulana Azad Medical College, New Delhi, Department of Pediatrics, for Mission NEEV under DSHMFW & RBSK, the intending bidders submitted online proposals on 4th October, 2021 and subsequently participated in the online Pre-Bid Meeting (<https://meet.google.com/geu-bpmt-bnd>) held on 9th November, 2021.

Note : Subsequent to the Pre-Bid meeting it has been decided by the NEEV management committee that as appealed by the start-up companies (during the pre-bid meeting) relaxations in terms of Annual Turnover and No. of years of operation would be granted, provided other terms and conditions mentioned in the Eoi are met.

Final Bids in the given two-bid format are hereby invited from the Vendors who had participated in EOI for the Items as per the Scope of Work mentioned below:

Note: The items are organized into 5 bundles (A to E) given below. Intending bidders may quote for all or selected numbers of bundles. The NEEV Management Committee reserves the right to select a different bidder for each bundle based on the rate cum quality criteria fixed by it.

The bid is to be submitted in two bid (technical and financial) formats. The financial bid is to be password encrypted before uploading onto the Google Form. The password will be requested during the on-line meet for financial bid opening and the bid will be viewable only on receipt of this.

The Mission NEEV team will set up NEEV Project Management Office (PMO) with technical support and manpower at MAMC for operational support of NEEV. The PMO would be the single point of contact for all coordination activities between the NEEV Team, the linked hospitals and other external vendors providing software, servers, networking equipment and services. It will monitor the quality of service provided and will initiate corrective action as required.

The PMO will keep a log of all issues reported from the field at this time and the corrective action for each case. Once the operational trials reach some level of maturity, the final acceptance trial may be conducted. This is the prerequisite for releasing the NEEV network for actual operations and is an important mile-stone for the NEEV project. The main responsibility for this is with selected vendor/s.

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Dt. 10/11/21

A. System Integration for Mission NEEV which would include the Following:

1. Installation of operating system, DBMS, and application modules corresponding to NEEV Transactional server and NEEV DB Server
2. Development of Integrated NEEV Portal to visualize screening data of all children
3. Development of Android Mobile application for Screening for Visible Birth Defect (VBD) along with generating unique identification Number for all screened Children born in Govt. Hospitals (Delhi) under Mission NEEV within 24 hours of birth
4. Integration with Metabolic test results using systems indicated in 1 and 3 above
5. Integration with OAE, Pulse Oximetry and ROP screening onto the above as these become available

A1. VBD Screening (First Screening within 24 hours of Birth): VBD screening is the first screening to be conducted within 24 hours of the birth. The VBD screening mobile app running on the mobile phone of the nurse who conducts the screening is used for this. The information is automatically transferred to the NEEV portal that is accessible from anywhere over the internet. A unique VBD number is created for this child at this time and it may be used later to identify this child. All demographic details of the child and mother is captured over the mobile app and will be visible in the portal along with this number, so that these may be accessed from other systems interlinked with it over the NEEV portal. The barcodes needed during blood sample collection for the metabolic test also are generated and kept in the case sheet (with VBD number in it) so that it can be pasted on the vials of blood samples later.

A2. Subsequent Screenings and Integration to be carried out: Within 48 hours of birth (in any shift), after all newborn children have been screened and provided unique ID, other testing/screening (OAE, Pulse oximetry, ROP) would be done systematically through the instruments/hardware and system provided by different vendors. Additionally, metabolic screening is to be completed. There is no preferred order for these tests and these may be done based on the logistical considerations for each case.

For OAE, PO and ROP, pass/fail information would be forwarded to the NEEV server by the system developed by corresponding vendors. The system integrator has to reflect these in the NEEV portal. For this the system Integrator should work out the protocol with these vendors.

A2.1 Metabolic data Integration: Invocation of the Metabolic screening section of the mobile app will signal the portal that the test is done for the indicated child and results are later expected from the lab. The input to the app is the list of children in the hospital for whom the VBD screening is complete but the metabolic test is not done. The nurse can select any child from the list to initiate the procedure of drawing blood. The blood smear collected from the child would be sent to NEEV Metabolic testing Laboratory where Neonatal TSH, 17-OHP tests would be carried out along with haemoglobinopathy and Thalassemia. The test results would be keyed in at the Metabolic lab and the NEEV portal must have a data entry screen developed by the system integrator.



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A.2 OAE Integration: OAE screening would be done preferably within 24 to 48 hours of birth. The data would be captured in an android handheld and would be sent to the NEEV server, by the OAE system vendor once the OAE instruments are in place (See section C). Failed cases would be tested once again before discharge and if failed then too, the guardians of these children would be advised to report again after 42 days. The role of system integrator is to allow the Passed/failed data to arrive at the NEEV Portal periodically and show the latest data against each child.

A.3 PO Integration: Similar to OAE, Pulse oximeter test results would be reflected in the NEEV server once the PO vendor is selected, the instruments are in place (See section D) and they are integrated to the portal.

A.4 ROP Integration: Similar to OAE, ROP test results would be reflected in the NEEV server once the ROP vendor is selected, the instruments are in place (See section E) and they are integrated to the portal.

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B. Infrastructure and Managed Services for Mission Neev that includes the following:

1. Server Room Setup
2. IT infrastructure commissioning as per guidance of NEEV PMO
3. Operational Trials - The selected vendor will be responsible for procurement and installation of HVAC, Server, Peripherals, Networking, internet connectivity, firewall and other securities with Static IP, Power backup, etc. Minimal acceptable server specification would be:

PowerEdge R440 or any other current model with higher configuration

- Memory 32 GB single
- Solid State Drive 960 GB = 2 Nos.
- Intel Xenon Bronze 3106 1.7 G, 8 Cores, 9.6GT/s, 11M Cache
- SERIAL ATTACHED SCSI, H330, RAID Controller
- Dual -Port 1GbE On-board LAN
- Dual, Hot Plug, Redundant Power Supply (1+1)
- 2.5" Chassis with upto 8 Hot Plug Hard Drives
- RACK RAIL, 1U

Three (3) such units (NEEV Transactional server, NEEV DB Server, and OAE Server) would be needed. Higher specification may be quoted if there is appreciable performance advantage without much increase in cost

The operation of NEEV Transactional server, NEEV DB Server will be managed by the successful bidder of NEEV system integration. The OAE server will be maintained by successful OAE bidder.

During system deployment in various wards of the linked hospitals, it may turn out that Network / WiFi routers are needed at specified locations and FO and LAN cable wiring is needed to be extended there. The rates for these support services are to be indicated in the commercial proposal. Cost of material and labor are to be bundled together in this.

Operational trials of individual segments will be done by individual operators in their respective hospitals.

The rate quoted will include: (a) Setting up the server room, hardware supply, installation and conducting the acceptance tests for the hardware (b) Providing managed hardware support by providing a technical person at PMO (c) Providing remote support to all hospitals under NEEV for hardware related items; (d) Per call charges for site visit to hospitals (e) Supply and installation of Wi-Fi Router and network switch in wards where WiFi connectivity is not existing (f) Supply and laying of FO Cable in wards where Internet connectivity is not existing (g) Supply and laying of LAN Cable in wards where Internet connectivity is not existing;



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C. Supply of OAE System which would include the following:

1. Designing of Additional Screens for the NEEV Portal to visualize OAE screening data of all children
2. Development of Android Mobile application to run on an Android Hand-held for Screening for OAE after the VBD screening is completed.
3. Development of appropriate scheme for subsequent monitoring of OAE failed children that should include sending notifications / SMS. The vendor may optionally consider development of a Mobile App for parents to show history of the OAE screening results, with simultaneous intimation (Yes/No) to NEEV Portal. NEEV portal may show Yes/No field regarding such intimation
4. The test is to be done for both ears and individual pass/fail status is to be provided in the NEEV portal. In case the child starts crying during the test, it may have to be abandoned for the present (for that ear) and redone at a later point. The mobile app has to handle this situation. In case of failure status for either of the ears, the child is to be tagged for OAE defect and tracked to be brought again for re-test after a few weeks of discharge. SMS or Mobile notification to parents/caregivers is to be used for this tracking. The child may come to another hospital (not the originally discharged one) for re-test. The mobile app will interact with the portal to handle the case appropriately.
5. The mobile app to additionally handle monitoring of failed cases that hasn't turned up for re-testing. The portal will always have the raw data from the instrument. This will be tagged with the details of the instrument, date and time of test, left or right indicator, pass/failure status, demographic details of the parents, and the comments from the nurse who conducted the test. This will help in subsequent clinical studies. **Comprehensive result (Report module)** of the OAE findings along with management steps followed, to be made available for individual children.
6. The rate quoted will include: (a) One time design cost for screens with OAE components which will be handed over to the system integrator of the NEEV portal for implementation and the mobile app for any one OAE instrument selected by the vendor that includes the cost of that instrument (to be supplied along with the system for integration and test-out with NEEV portal) (b) The cost of additional instrument (if sourced from the same vendor). NEEV management is at liberty to source the instrument from any other source. (c) One time development cost for integrating the OAE instrument of another brand selected by NEEV later. (d) Providing remote support to all hospitals under NEEV for OAE Screening for a period of one year.

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1. Supply of Pulse Oximetry System which would include the following:

1. Development of Additional Screens for the NEEV Portal to visualize PO screening data of all children
2. Development of Android Mobile application to run on an Android Hand-held for Screening for PO after the VBD screening is completed.
3. Development of appropriate schemes for subsequent monitoring of PO failed children that should include sending of SMSs. The vendor may optionally consider development of a Mobile App for parents to show history of the PO screening results.
4. A detailed scheme for PO screening and the workflow for subsequent tracking of failed cases will be decided by the PO vendor. After screening the data by their own processing instruments, the PO vendor will send Pass/fail report to NEEV server.
5. The rate quoted will include: (a) One time development cost for the portal screens and the mobile app for any one PO instrument and data filter/processing equipment selected by the vendor that includes the cost of that instrument (to be supplied along with the system for integration and test-out with NEEV portal (b) The cost of additional instrument (if sourced from the same vendor). NEEV management is at liberty to source the instrument from any other source. (c) One time development cost for integrating the PO instrument of another brand purchased by NEEV later (d) Providing remote support to all hospitals under NEEV for PO Screening for a period of one year.

Sure Kapon

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Supply of Retinopathy Screening System which would include the following:

1. Development of Additional Screens for the NEEV Portal to visualize ROP screening data of all children
 2. Development of Android Mobile application to run on an Android Hand-held for Screening for ROP after the VBD screening is completed.
 3. Development of appropriate scheme for subsequent monitoring of ROP failed children that should include sending of SMSs. The vendor may optionally consider development of a mobile App for parents to show history of the ROP screening results.
- Retinopathy screening is conducted on the second or third day of birth. It is done by the nurse using the mobile app that is linked to the Iris-Scope. The test is to be done for both eyes and individual images are to be provided in the NEEV portal for later reference. In case the child starts crying during the test, it may have to be abandoned for the present (for that eye) and redone at a later date. The mobile app has to handle this situation. The portal will always have the image from both eyes from the instrument. This will be tagged with the details of the instrument, date and time of test, left or right indicator, demographic details of the parents, and comments from the nurse who conducted the test. This will help in subsequent clinical studies. The child may come to another hospital (not the originally discharged one) for re-test. The mobile app will interact with the portal to handle the case appropriately. **Comprehensive result (Report module)** of the findings along with management steps followed, to be made available for individual child.
- The rate quoted will include: (a) One time development cost for the portal screens and the mobile app for an Iris-Scope selected by the vendor that includes the cost of the Iris-Scope (to be supplied along with the system for integration and test-out with NEEV portal (b) The cost of additional Iris-scope (if sourced from the same vendor). NEEV management is at liberty to procure the instrument from any other source. (c) One time development cost for integrating the Iris-Scope of another brand procured by NEEV later. d) Providing remote support to all hospitals connected to NEEV for ROP Screening for a period of one year.

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List of Documents for Financial bidding

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Name of Firm*	text	PDF -1
Email/s*	Mail-id	
Name of the contact person and designation*	text	
Contact numbers*	Number	
Year of establishment*	Number	
Upload certificate of incorporation*	pdf file	
Upload audited BS for FYI 18-19*	Link to upload pdf file	
Upload audited BS for FYI 19-20*	Link to upload pdf file	
Upload audited BS for FYI 20-21	Link to upload pdf file	
Upload Brochures	Link to upload pdf file	
Upload DIPP Registration Certificate	Link to upload pdf file	PDF-2
Upload MSME Registration Certificate	Link to upload pdf file	
Detailed Scope of work as understood by the firm segregated into Bundles A-E in line with bundle description given in tender document. Only details of the bundles quoted need be given*	Link to upload pdf file	
Detailed implementation strategy for items in scope of work*	Link to upload pdf file	
Project BAR / GANTT Chart with explanation of sub-tasks*	Link to upload pdf file	
Expectations from NEEV Team, including payment terms (300 words)	Text box	
Expectations from Hospital, including payment terms for items B4-B7 in Financial Bid (300 words)	Text box	PDF-3
The financial bid (Password Protected)	upload pdf file	

All the PDF files to be mailed in a single email to neevmamc@gmail.com latest by 17:00 hrs, 15th December 2021.

Seema Kapoor
DR. SEEMA KAPOOR
 PROGRAM DIRECTOR
 NEEV UNION
 MAMC, NEW DELHI-110002

Format for Financial Bid for Mission NEEV
(To be provided in company letterhead, signed and sealed, scanned to pdf format and submitted with password protection)

Name of the firm:
Email/s:
Name of the Contact person and designation:
Contact Numbers:

PRICE SCHEDULE
(Fill up only the bundles offered by you)

Bundle	Description	Amount quoted in Rs. (Excluding GST)*
A1	Software and RDBMS Installation and configuration for Transactional and Database server of NEEV (Server 1 and 2) after the Server hardware etc. are set-up at NEEV	
A2**	Development of Web Portal for Mission NEEV	
A3**	Developing Android Mobile application for generation, transmission, storage of all screened Child Id. Child defect Atlas should be a part of the system	
A4**	Visible Birth Defect screening of all children and transmission of the same with Unique Id to NEEV Portal (along with ICD 10 for congenital anomalies)	
A5**	Integration with data received from other screening applications Viz., Metabolic, OAE, Pulse Oximetry and Retinopathy after interaction with respective vendors	
A6**	Providing Android Mobile application for selecting a child having ID and Bar Code Printing of the same (4 labels), to be utilized for identification of individual children's blood smear for Metabolic Screening (However, Bar code printer is not within the scope of supply)	
A7**	Providing remote support to hospitals under NEEV for VBD Screening for a period of one year	
B1+	Setting up the Server room with 2 (two) Split Air conditioners each running alternatively. Supply of Server Rack and other peripherals. Supply and installation of new Servers of given specification and associated peripherals, networking, Internet connection, Firewall etc. and supporting the vendor selected for Item C (OAE), for installation of their software in the third Server dedicated for OAE.	
B2**	Monthly charges for providing (after installation) managed hardware support for 90 days period other than providing standard manufacturer's warranty of hardware.	
B3**	Providing remote support to all hospitals under NEEV hardware related items for a period of one year.	
Installation required at the Hospital Sites. The responsibility of B4, B5, B6 and B7 will be with the hospitals		
B4**	Per call charges for site visit, to be (quoted as per visit charges for any location).	
B5**	Supply and installation of Wi-Fi Router of make __ model __ and network hub of make _____ model _____ in wards where WiFi connectivity is currently not existing (to be quoted in per unit basis).	
B6**	Supply and laying of FO Cable in Wards where Internet connectivity is currently not existing. (quoted in per unit cost of 200 meters or parts thereof)	
B7**	Supply and laying of LAN Cable in Wards where Internet connectivity is currently not existing. (to be quoted in per unit cost of 100 meters or parts thereof)	
C1	Development of OAE System, Installing it in the OAE server and supply of same with one number of OAE instrument of Brand _____; Model: _____	
C2**	Unit cost for additional OAE instrument of same brand and model	
C3**	Development cost for OAE instrument of different brand	
C4**	Remote support for OAE	
D1	Development of PO System and supply of same with one number of PO instrument of Brand _____; Model: _____	
D2**	Unit cost for additional PO instrument of same brand and model	
D3**	Development cost for PO instrument of different brand	
D4**	Remote support for PO	
E1	Development of ROP System and supply of same with one number of Iris-Scope of Brand _____; Model: _____	
E2**	Unit cost for additional Iris-scope of same brand and model	
E3**	Development cost for Iris-scope of different brand	
E4**	Remote support for ROP	

*GST to be added with the quoted rate, if applicable, as per prevailing rate
** Mandatory if the corresponding first item (A1, B1, C1, D1, or E1) is included
+ It is assumed that the PMO will be operational at MAMC from the initial period itself. Providing manpower support for PMO is not envisaged under B1. If required, it will be separately availed as per rate quoted for B2.
Note : SSL Certificate for NEEV's domain will be obtained by the PMO team of NEEV

Signature of the bidder

Company / Organization's Seal

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