

Re-Request for Proposal (RFP)

For

Development of web-based technology platform

To

Enable State Medical Faculty certification processes as a digital regulator

Tender No. : 4631/22

Date of Notification – 12.05.2022

Proposal Due Date – 18.05.2022 (18:00 hrs)

Estimated value of the bid - 9 Crore

Bid Fee INR 25,000.00 + GST 18% extra = INR 29,500.00

E.M.D. Value - INR 9,00,500.00

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Committee Members

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Reference number: 4631/22

Date of issue: 12.05.2022

Subject: Development of Web-based Technology platform for State Medical Faculty (Uttar Pradesh) as a digital regulator

Dear Sir/Madam,

State Medical Faculty (UP) wishes to procure the services mentioned in the Detailed Terms of reference (given below) through a competitive bidding process. In this respect, the State Medical Faculty (UP) would like to invite your organisation to submit technical and financial proposals as outlined in this request for proposal and the terms and conditions contained herein.

Due date and time for submission of the proposals

Sealed proposals must be submitted latest by the date and Indian local time specified below. Technical and financial proposals should be sealed in separate envelopes. Sealed proposals (technical and financial) received prior to the stated closing time and date will be kept unopened. Proposals received after the stipulated date and time will be invalidated. State Medical Faculty (UP) will not accept any responsibility for the premature opening of the proposals not properly addressed or identified.

Please note that State Medical Faculty (UP) reserves the right to accept or reject all or any of the bids without assigning any reason whatsoever.

In case of any concern please contact:

Shrimati Sunita Malik - Sr Administrative Officer

Mob. No -

Address - 5, Sarvapalli Mall Avenue Rd, The Mall Avenue, Lucknow, Uttar Pradesh 226001

Due date: 18.05.2022

Time: 18:00 hrs

This Request for Proposal (RFP) is issued by the State Medical Faculty (UP), (hereunder called “Issuing Authority”) for inviting proposals to develop a technology platform that enables regulatory functions owned by State Medical Faculty (UP) and is interoperable with the existing technology applications used by related government and private sector organisations.

It is hereby clarified that this RFP is not an agreement and is not an offer or invitation by the Issuing Authority to any party hereunder. The purpose of this RFP is to provide the Bidder(s) with information to assist in the formulation of their proposal submission. This RFP document does not purport to contain all the information Bidders may require. This RFP document may not be appropriate for all persons, and it is not possible for the Issuing Authority to consider the needs of each Bidder. Each Bidder should conduct its own investigation and analysis and should check the accuracy, reliability, and completeness of the information in this RFP document and obtain independent advice from appropriate sources. Issuing Authority and their advisors make no representation or warranty and shall incur no liability financial or otherwise under any law, statute, rules or regulations or otherwise as to the accuracy, reliability or completeness of the RFP document.

The parties to whom this invitation is extended are not mandated under any agreement, made here, to bid. Responding to this invitation will be their sole commercial decision. Such a decision will entail risks, responsibilities, and rewards as described in this RFP. It is deemed that a party/institution choosing to respond by way of a bid, in general, is accepting them. The Issuing Authority may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information in this RFP document.

The Issuing Authority reserves the right not to proceed with the selection process at any stage or to change the process or procedure to be applied in a fair and transparent manner. It also reserves the right to decline to discuss the process further with any party submitting a bid/proposal. No reimbursement of the cost of any type shall be paid to persons, entities submitting a bid/proposal. The Issuing Authority shall not be responsible for any costs or expenses incurred by bidders in connection with the preparation and delivery of bids, including costs and expenses related to visits to the sites.

The Issuing Authority reserves the right to cancel, terminate, change or modify this procurement process and/or requirements of bidding stated in the RFP, without assigning any reason or providing any notice and without accepting any liability for the same.

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1. OVERVIEW

- 1.1. There is a clear national focus on enhancing health service delivery, with the vision of improving overall health outcomes in India. Last year (2020) saw the launch of the Ayushman Bharat Digital Mission (ABDM) with an idea to create an integrated digital health infrastructure that brings together disparate stakeholders (doctors, healthcare service providers, technology providers, citizens) and strengthens India's healthcare delivery landscape.
- 1.2. While ABDM solves a piece of the healthcare puzzle, there's an equally difficult problem that needs to be solved if quality healthcare services are to be provided. The final onus of quality service rests with the human resource in health (can be a doctor, nurse, dentist, allied healthcare professional). Therefore, this makes reforms in management of human resources extremely important.
- 1.3. With the introduction of the National Commission for Allied and Healthcare Professions Act 2021, a window of opportunity has opened up. The legislation provides for regulation and maintenance of standards of education and services by allied and healthcare professionals and the maintenance of a central register of such professionals. It also enables establishment of a national paramedics council along with individual state level councils. This denotes a paradigm shift in terms of creating a strong and well capacitated 'care and wellness workforce' that is incentivized to engage in lifelong learning and impactful service.
- 1.4. As part of fulfilling the mandate laid down by the legislation for states in India, the Government of Uttar Pradesh (UP) has a strong desire to leverage this opportunity to digitally enhance management of human resources in health (HRH). UP has over 4.4 lakh registered health professionals. These include- 1.1 lakh doctors, 0.25 lakh dentists, 2.29 lakh nurses, 0.80 lakh paramedics. Apart from the professionals currently practicing in the State, there is an annual pipeline of several thousand students, studying across hundreds of colleges and training institutions. These professionals are essentially responsible for health care needs of all 20 crore citizens of the state. With such a large scale of operations and the eagerness of the state government for systemic transformation, UP aims to be the starting point for reforms in this domain to be initiated and for it to be eventually replicated in India and the world.

Current challenges in the management of human resource in health

- 1.5. With the scale of operations in UP - both in terms of number of colleges as well as the large number of registered professionals, any regulator tasked with its management and quality assurance is bound to face certain challenges.
- 1.6. With regard to management of institutions, the first and foremost responsibility of the regulator is to ensure that the institution has the capacity to produce and is producing quality health care professionals. UP seeks to define and digitally monitor processes and codify quality standards for institutions that are then enforced.
- 1.7. The other facet of managing human resources in health is assuring quality standards of those authorized to practice as health professionals in the state. In the current scheme of things, the regulator maintains a record of health professionals in the state. This is largely administrative information gathered at the time of registration in the state before beginning independent

practice or seeking employment. In UP, these professionals make a large and distributed workforce. The regulator faces the following issues in their management:

- 1.7.1. There are no codified competencies- domain, functional and behavioral required to practice as a health professional (in addition to the thematic curriculum for the degree)
- 1.7.2. The quality of these professionals vary and there is no ongoing mechanism to gauge the competencies of a professional once they start practicing or are employed. For example: between two nurses with the same bachelor's degree, one cannot objectively ascertain who is more skilled and continues to update the domain, functional and behavioral competencies deemed as necessary by the regulator. This inability to assure quality has implications for the professional advancement and job opportunities - local, national and global for HRH professionals authorized to practice by the UP HRH regulator.
- 1.7.3. The above implies that health professionals are not adequately incentivized to focus on lifelong learning and continuous upskilling as required to succeed in a globally competitive market for health professionals.
- 1.8. The two facets of the problem therefore have a similar underlying issue- the issue of lack of defined standards of capacity for medical institutions and lack of codified competencies for professionals for the regulator to measure, track and recognize. It is felt that if these issues are set right UP has the potential to emerge as the global capital for quality health care professionals opening up significant opportunities for those registered with the UP regulator.

2. Date Sheet

1	Name of the Bid	RFP to onboard a technical agency for creation of State Medical Faculty Technical Platform
2	Time-period of contract	12 months
3	Method of selection	Quality Cum Cost Based Selection (QCCBS):70:30
4	Bid Processing Fee	Non-refundable fee of INR 25,000 + GST (through RTGS only) MSMEs are exempted from the submission of Bid Processing Fee subject to the furnishing of the relevant MSME certificate.
5	Ernest Money Deposit (EMD)	Refundable amount of INR 9,00,500 (through RTGS only) MSMEs are exempted from the submission of EMD subject to the furnishing of the relevant MSME certificate.
6	Mobilisation Advance	No
7	Performance Guarantee	5% of the contract value

8	Financial Bid to be submitted together with Technical Bid (<u>each sealed in separate envelopes</u>)	Yes
9	Name of the Client's official for addressing queries and clarifications	Shri Alok Kumar, Secretary, UP State Medical Faculty
10	Proposal Validity Period	180 days from Proposal Due Date
11	Proposal Language	English
12	Proposal Currency	INR
13	Schedule of Bidding Process	
	Task	Key Dates
	Bid End Date	18.05.2022
	Opening of Technical Bids	19.05.2022
	Technical presentation	23.05.2022
	Opening of Financial Bid	24.05.2022
	Issuance of Letter of Award (LOA)	25.05.2022
14	Consortium to be allowed	No
15	Account details	HOLDER NAME: SECRETARY, U.P. STATE MEDICAL FACULTY A/C No.: 10041131002164 BANK NAME: PUNJAB NATIONAL BANK BRANCH NAME: SADAR, LUCKNOW IFS CODE: PUNB0100410

3. Approach

- 3.1.** The issues listed above can be solved by adopting a digital first approach as well as by leveraging the right levers of governance. The starting point of solving this puzzle will however be clearly defining standards of capacity of medical institutions and codifying competencies of health professionals.

Developing standards for capacity of medical institutions: Rating of Medical Institutions

- 3.2.** This will involve creating a system of scoring or rating for the HRH institutions on select parameters that directly affect the quality of health professionals that the institution is producing. This approach will move away from assessing only infrastructure, availability of labs, beds in attached hospital facilities etc and will focus more on quality of instruction, hours

in clinical skill labs, quality of faculty, impact of alumni amongst other things. The rating parameters as well as the rating attributed to the college will be made available in the public domain so that the best institutions are able to attract the best faculty and best students and everyone has an incentive to keep improving the quality of what they do.

Codifying competencies of health professionals: Competency Passbook

- 3.3.** The vision here will involve competencies for each grade for each profession as codified and made public by the regulator. The competencies will be directly related to the roles and responsibilities each type of health professional is supposed to perform. The regulator seeks to create opportunities for those registered with it to, if they wish, to credibly demonstrate growth and improvement over time and to showcase their credentials in the job market to potential employers and to those seeking their services. This will be through a 'competency passbook' that will be digitally maintained by the regulator for each health professional registered with it. The competency passbook will have a complete view of the professionals skills and upskilling journey over time.

Tech Levers

Creation of an institution registry

- 3.4.** There is an opportunity to create robust college institution profiles with ratings granted by the regulator and individual practitioner profiles with their attached competency passbooks. The vision will be to bring information together in one place and not let this exist as disparate records (like college lists and professional data exists today).

Unified Human Resource in Health Interface (UHRHI)

- 3.5.** Public availability of information on rating of colleges as well as competency profiles of health professionals that they can choose to credibly share is sought to be enabled by creating a Unified Human Resource in Health Interface ecosystem.
- 3.5.1. Creation of Unified Human Resource in Health Interface (UHRHI) along the lines of Unified Payments Interface (extensively being leveraged in India) or Unified Health Interface (currently in the works) will create the base for digital enablement in HRH management.
- 3.6.** The essence of reforms can be understood through a simple user story: For a nurse in her final year of degree in a nursing college in Uttar Pradesh, the journey starts with the creation of the UHRHI ID. As soon as the nurse becomes a part of the ecosystem, she will be able to see the following:
- 3.6.1. Codified competency requirements as well as the level of proficiency towards the completion of her nursing degree
- 3.6.2. Additional competencies she could gather and learning opportunities across platforms and competency building product (CBP) providers
- 3.6.3. Competency acquisition status and well as level of achievement (marks obtained)
- 3.7.** As soon as the nurse graduates from the college, she receives a QR coded degree certificate. This certificate gets stored as a digital certificate in the digilocker enabled through the

ecosystem. With a QR coded degree and a clear view of her competencies including video recordings of her performance in skill lab assessments through the competency passbook, the nurse can share her credentials with any recruiter of her choice. In addition the health professional can also choose to share her credentials with care and wellness seekers using the QR code made available to her.

- 3.8.** This user story is only one of the many examples that UHRHI ecosystem can enable by changing how education, recruitment and health service delivery happens in the healthcare sector.
- 3.9.** State Medical Faculty (UP) therefore endeavours to create this technology platform which enables key functions of institution and individual, for eg. (1) certification, (2) competency mapping, (3) profile creation, and (4) rating. The State Medical Faculty (UP) is looking to onboard an independent, high-quality external vendor who can provide a technical team to develop this platform through this. The Platform Requirement Document shall be shared upon the onboarding of the technical team.
- 3.10.** The State Medical Faculty (UP) invites proposals through this RFP document from firms which have the requisite experience in this field as detailed in this RFP uploaded on 12.05.2022. The main features of the platform, key dates, instructions on how to bid, eligibility criteria, technical requirements, and other important information are outlined in the RFP document.
- 3.11.** The RFP will follow the QCBS (Quality cum Cost Based Selection) system of evaluation with 70% weightage given to technical proposal score and 30% weightage to financial proposal score. Agencies with the highest total score will be awarded the work order. Further details have been provided in section 7.
- 3.12.** Interested applicants are requested to submit their Technical Proposal along with Earnest Money Deposit (EMD) & Bid Fee in hardcopy in one envelope and their Financial Bid in hardcopy in another envelope. Kindly label the two envelopes as <Company name> - Technical Bid ; <Company name> - Financial Bid. Proposals received in an other manner such as online or in person or without following the instructions on labelling of envelopes, will not be considered. MSMEs are exempted from the submission of Bid Fee and EMD subject to the furnishing of the relevant MSME certificate.
- 3.13.** The selected vendor will be awarded a **12 month** contract extendable for two 12 month periods to supply and coordinate the working of a technical team that will be required to build several of these features using an AGILE approach made up of several two week sprints.
- 3.14.** A Bid Evaluation Committee (BEC) will be created by the Issuing Authority to evaluate Proposals and award the work order.
- 3.15.** A Steering Committee consisting of the Principal Secretary, Dept. of Medical Education or any person nominated by them, Directorate General Medical Education and Training, Secretary, SMF, and nominated officials from State Medical Faculty (UP), sector specialists, and external experts will be constituted to guide, oversee, and review the work done by the hired vendor. 9

4. OBJECTIVE

- 4.1.** The objective of the current assignment is to develop the State Medical Faculty (UP) web-based technology platform. This open source IT platform will be built in alignment with MiETY policies. The State Medical Faculty (UP) platform will serve as the regulatory platform for key functions of institutions and individuals for eg. (1) certification, (2) competency mapping, (3) profile creation, and (4) rating. The scope of work for the chosen agency will be evolved using an AGILE approach which will be broken up into fortnightly sprints. The Platform Requirement Document shall be shared upon the onboarding of the technical team.
- 4.2.** The State Medical Faculty (UP) platform will have a configurable, modular and a scalable technology architecture that leverages the open source <https://sunbird.org/> ecosystem to ensure sustainability and re-usability over long term functioning.
- 4.3.** A predefined list of core technical features, an illustrative list of detailed use-cases, high-level technological architecture and development milestones which the platform must meet have been detailed below.
- 4.4.** The team requested under this RFP will be responsible for the 'Technology Platform Development' and warranty support for three months for training & handover to the maintenance team post the application operation/support goes live. Cloud/Infrastructure management will not be a part of this engagement.

5. DETAILED TERMS OF REFERENCE

The scope of work for the hired vendor will be to plan, design, coordinate, and develop the State Medical Faculty (UP) technology platform. Further, the hired vendor will be required to integrate any legacy data, ensuring API-based interoperability between existing entities databases. All of this is to be done under the supervision of the Steering Committee. The details of the following are given below:

5.1. Duration of assignment

The hired vendor will be empanelled for a duration of 12 months starting from the date of issuance of work order.

5.2. Use-case information flows

Illustrative use-cases which must be enabled across 2 user personas - institution and individual (health professional) have been listed below:

1. Certification
2. Competency mapping
3. Profile creation
4. Rating

The complete scope of work for the agency will be evolved using an AGILE approach and will be broken up into several fortnightly sprints. Table 4.2 provides an illustration of micro use-case flow of the certification use-case for institutions.

Table 4.2 - Illustrative use-case flow

Steps	Use-case
1	Institution submits certification claim (application) by submitting required details and attachments
2	Administrator checks application form details and attachments against criteria* for qualification for physical inspection round
3	Administrator initiates communication to institution regarding decision to proceed to physical inspection round
4	Administrator initiates communication to institution regarding renewed documents** required to proceed to physical inspection round
5	Institution submits documents as per administrator requirements
6	Inspector physically visits institution campus and collects required details and documents from institution
7	Inspector receives Institution principal's attestation of details collected from institution
8	Inspector self-attests and submits details and documents collected to SMF
9	Administrator checks inspection details and documents against criteria* to determine claim acceptance, rejection, partial rejection***
10	Institution receives communication from SMF stating final claim decision and reasoning
11	Administrator verifies institution skill competency details in Sunbird RC against criteria and issues certificate

Similarly, such micro use-cases would need to be enabled on the platform for all use-cases for both institutions and individuals.

5.3. High-level technology specifications

The tech platform will comprised of multiple building blocks given in Diagram 4.3.

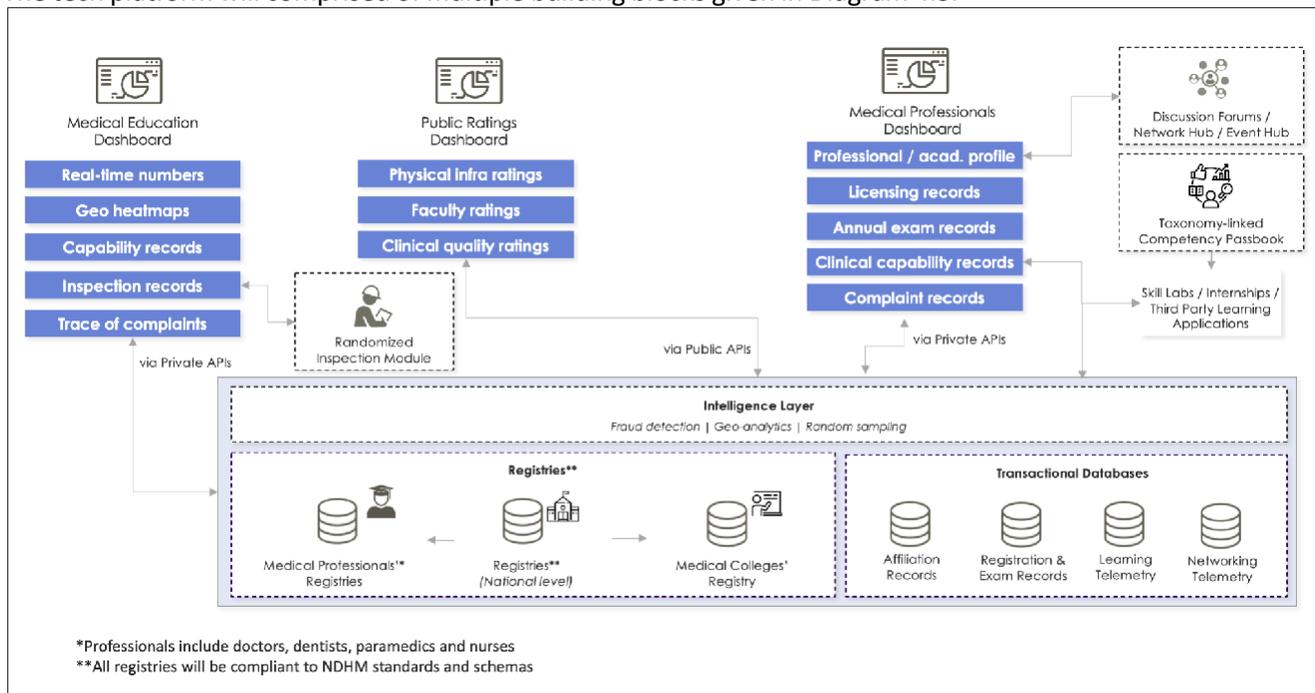


Diagram 4.3 Tech Platform Information Flow Diagram

Each building block must cater to a set of functionalities and must leverage existing technical frameworks/stacks. An illustrative set of building blocks have been provided in Table 4.3

Table 4.3 - Illustrative building blocks

#	Building Block	Functionalities	Source of building blocks	Associated sample use case
1	Registry	a. Unique identification of each entity b. User authentication c. Consent management	Sunbird	Record of all nurses; login into nurse council platform
2	Competency passbook	a. Competency portfolio of student b. Capability portfolio of college c. Learning traces and trends	Sunbird	Track record of a medical student on knowledge and clinical excellence front
3	Monitoring visits	a. Monitoring checklist b. Monitoring records c. Randomized sampling engine	SamagraX	Randomized recommendation on colleges to be inspected every month

4	Intelligence layer	a. Basic insights / trends b. Anomaly / fraud detection	Sunbird	<i>Trends of rising negligence complaints against paramedics in the state</i>
5	Collaboration space	a. Visibility of consented peer profiles b. Opportunities for cross-learning	Sunbird	<i>Two nurses connecting to learn use of a new instrument for diabetes assessment</i>
6	Convening space	a. Webinar scheduling and notification b. Case exposure studies scheduling	Sunbird	<i>Regular webinars between two medical colleges for cross-learning</i>
7	Open data	a. Easy authorised sharing of data b. Public dashboards	Sunbird	<i>A private medical upskilling app adding to the competency passbook of student</i>
8	Examination management	a. Conduction of entry/ annual/ exit examinations b. Consolidated marksheet generation	Sunbird	<i>Students may register themselves for the exam, and view exam wise marksheets</i>
9	Grievance redressal	a. Grievances to be viewed and actioned upon b. Escalation/redirect grievances	Sunbird	<i>Grievances may be viewed and acted upon based on marked person of responsibility</i>
10	Document repository	a. Uniquely identified authentic certificates	IndiaStack	<i>Digital certificates for clearing semester exams and licensing exams</i>

The exact scope of use-cases for the chosen agency will be evolved using an AGILE approach which will be broken up into fortnightly sprints.

6. ELIGIBILITY CHECK AND AGENCY SELECTION

Agency selection will take place over 3 rounds - (1) Eligibility Evaluation, (2) Technical Proposal Evaluation, (3) Financial Proposal Evaluation. The process to be followed by the agency and selection methodology for each round has been detailed in this section.

6.1. Round 1: Eligibility Evaluation

6.1.1. This round will check for eligibility of the organisation against the criteria specified in Table 6.1.1. Agencies must submit relevant artefacts to meet the eligibility criteria as

per Table 6.1.1 along with their Technical and Financial Proposal. Agencies meeting this criteria will proceed to Round 2.

6.2. Round 2: Technical Proposal

6.2.1. This round will evaluate the Technical proposal submitted by the agency. Each evaluated proposal will be given a technical score (TS), with a maximum score of 150. Only those proposals whose technical scores are at least 90 out of a maximum of 150 (60%) will qualify for further consideration and will be ranked from highest to lowest based on their TS.

6.2.2. Out of a total possible technical score of 150, relevant experience would be awarded points out of 75 based on the criteria specified in Table 6.2.1, and expertise and team structure would be awarded points out of 75 based on the collective team profile evaluation done by the tender committee.

6.3. Round 3: Financial Proposal

6.3.1. The Financial Proposals of only those Applicants with a Technical Score of 90 or more will be opened.

6.3.2. Each evaluated proposal will be given a financial score (FS), using the following formula, with a maximum of 150 Points.

$$FS = 150 * (F_{min} / F_{agency})$$

- F_{min} is the least Financial Quote (total) provided amongst agencies for on-boarding the complete 22 member team over 12 months
- F_{agency} is F₂ is the agencies own Financial Quote (total) provided for on-boarding the complete 22 member team over 12 months

6.4. Selection

6.4.1. The evaluated proposals will then be given a final score (S) which will be calculated using the following formula, $S = 0.70 * (TS) + 0.30 * (FS)$. Therefore, the technical proposal will account for 70% of the final score, and the financial proposal will count for 30% of the final score.

6.4.2. Proposals will be ranked according to their combined technical and financial scores (S). The best ranked applicant shall be selected while the second ranked applicant will be kept in reserve.

7. ELIGIBILITY AND EVALUATION CRITERIA

7.1. Round 1: Eligibility Criteria

7.1.1. In order to be eligible for evaluation of its proposal, the Applicant’s organisation shall fulfil the conditions given in Table 6.1.1.

Table 6.1.1 - Eligibility criteria

Sr No.	Parameter Detail	Artefact
1	The Applicant should be a Private/Public Limited Company or	For verification, the Applicant must

	partnership firm or expert institution with operations in India for at least the past 3 years.	submit a Certificate of Incorporation.
2	The Applicant shall have a minimum revenue of Rs 3 crore per annum averaged over the last 3 financial years preceding the proposal due date.	For verification, the Applicant must submit contract award letters, Audited Balance Sheets and Profit and Loss Statements for the years 2018-19, 2019-20 and 2020-21 in the format prescribed by Annexure A
3	The Applicant should not have been blacklisted by the Central Government, any State Government, a Statutory Authority, or a Public Sector Undertaking from participating in any assignment.	The Applicant must submit a Self-Declaration to this effect, in the format prescribed in Annexure C

7.2. Round 2: Technical Evaluation Criteria

7.2.1. Out of a total possible technical score of 150, relevant experience would be awarded points out of 75 and expertise and team structure would be awarded points out of 75.

7.2.2. **Relevant Experience Evaluation Criteria:** Agencies will be evaluated based on criteria provided in **Table 6.2.1**.

Table 6.2.1 - Relevant experience evaluation criteria

Sr No.	Parameter Detail	Max Points	Artefact
1	The Applicant has delivered projects of significance for evaluation of vendor capabilities as listed in Table 6.2.2	15 points/ project Max score of 45 points	Project presentation. Please provide details as mentioned in Table 6.2.2.
2	The Applicant has experience in implementing Sunbird in different clouds (AZURE, AWS, NIC etc...)	2 points/ cloud implementation Max score of 10 points	Provide details of the project and cloud. Describe the nature of cloud services used for each cloud
3	The Applicant has experience in contributing to Sunbird	5 points if valid contribution(s) found via Github repo URL	Explain the nature and extent of the contributions. Github repo URL.
4	The Applicant has experience in handling at least one large platform with high concurrency and throughput complex architecture	3 points if valid details provided for 1 project 5 points if valid details provided for more than 1 project	Provide details of the project, architecture and scale (traffic/benchmarking scores)

5	The Applicant has contributed to national scale open source projects	3 points if valid details provided for contribution to 1 national scale open source project 5 points if valid details provided for contribution to more than 1 national scale open source project	Explain the nature and extent of the contributions. Github repo URL.
6	The Applicant has any one of the 3 certificates - CMMi Level 3 / ISO 9001:2015 / ISO 27001	5 points if any 1 of the 3 valid certificates are provided	Attach the certificate(s).
Total max score		75 points	

*Project details will be evaluated based on the following parameters. Each project can score a maximum of 15 points.

Table 6.2.2 - Project evaluation criteria

Sr No.	Project parameter	Max Points
1	Microservices and API based architecture	1 point/ project
2	Agile development	1 point/ project
3	Security and extensibility	2 points/ project
4	Scale (Userbase, concurrent load)	3 points/ project
5	AI/ML Capabilities	4 points/ project
6	Devops - Infra as code, CI/CD & Automation	4 points/ project
	Max points	15 point/ project Max score of 45 points (for 3 projects)

7.2.3. **Expertise and Team Experience Evaluation Criteria:** Expertise and team structure would be awarded points out of 75 based on the collective team profile evaluation done by the tender committee. The 22 member team must meet technical capabilities as listed in **Table 6.2.3**. Details regarding submission of details on expertise and team structure have been specified in section 7.

Table 6.2.3 - Team expertise requirement

#	Roles	Skillset	FTE
1	Tech Architect	Java, Kafka, Elastocsearch, Cassandra, Neo4j, Scala, Flink, Sunbird, Micro services, Kubernetes	1
2	Project Manager	Project Management, Risk Management, Planning, Issue Management	1
3	Product Manager	Product conceptualization, PRDs and roadmap management, backlog grooming	1
4	Business Analyst	Requirement gathering and analysis, documentation	1
5	Tech Lead - FE	Angular, Node JS, JavaScript, Sunbird	2
6	Tech Lead - BE	Java, Kafka, ElasticSearch, Cassandra, Neo4j, Scala, Flink, Sunbird	2
7	Developer - BE	Java, Kafka, ElasticSearch, Cassandra, Neo4j, Scala, Flink, Sunbird	3
8	Developer - FE	Angular, NodeJS, Javascript	3
9	Data Lead	Spark, stream processing framework like Flink/Samza/Spark streaming, Kafka/Pulsar, NoSQL, Graph DB	1
10	Data Engineer	Spark, stream processing framework like Flink/Samza/Spark streaming, Kafka, NoSQL	1
11	Developer - Mobile	Flutter / Hybrid	1
12	Devops Lead	Azure/ AWS, Ansible, Jenkins, Kubernetes, Docker	1
13	Devops Engineer	Azure/ AWS, Ansible, Jenkins, Kubernetes, Docker	1
14	QA	Testing planning, Test execution	2
15	UX design	Wireframing, prototyping, Visual design, interaction design, UX analysis	1
Total team strength			22

8. SUBMISSION OF PROPOSALS

8.1 Eligibility Criteria Artefacts

8.1.1. Agencies must submit basic details as provided in **Annexure A**. Agencies must also submit relevant artefacts to meet the eligibility criteria as per **Table 6.1.1**.

8.2 Technical Proposal

8.2.1. Relevant Experience: Agencies must submit the necessary information against each 'Parameter Detail' listed in the 'Artefacts' column in **Table 6.2.1**.

8.2.2. Expertise and Team Structure: Agencies must submit a **team structure and CV's** (including Qualifications, Years of Experience and Types of Experience) of the 22-member team proposed. The 22 member team must meet technical capabilities as listed in **Table 6.2.3**.

8.3 Financial Proposal

8.3.1. Applicants shall submit the Financial Proposal as per the template on **Annexure B** clearly indicating the total costs in both figures and words, in Indian Rupees, and signed by the authorised signatory of the firm. The Financial Proposal must provide quotes per hour rates in INR for each of the 15 roles mentioned in **Table 6.2.3**. The technical team onboarded will deliver 8 hours of work per day for 21 working days in a month.

8.3.2 In the event of any difference between figures and words, the amount indicated in words shall be taken into account. In the event of a difference between the arithmetic total and the total shown in the Financial Proposal, the lower of the two shall be taken into account.

8.3.3. The rates indicated in the Financial Proposal shall be without any conditions attached or subject to any assumption and shall be final and binding. The Financial Proposal shall take into account all expenses.

(I) Organisation Profile [Necessary to Assess Eligibility]

Name of Organisation	
Postal Address	
Mobile Fax Email Website	
Contact Person Name Contact Person Designation Contact Person Mobile Contact Person Email	
Date Registered Legal Status No. of Years Completed	<i>(Should provide registration certificate as proof)</i>
Number of Employees	
Financial Capacity: 2018-19 2019-20 2020-21	<i>(Audited Balance Sheets and Profit and Loss Statements for the years 2018-19, 2019-20 and 2020-21)</i>

Budget Summary

Request for Proposal (RFP): XXX

S. No	Description	Amount (Rs.)/ hour basis
1	<Role description>	<Amount in INR>
2	Xxx	xxx

Note:

- 1) The financial evaluation shall be based on the above Financial Proposal.
- 2) No escalation on any account will be payable on the above amounts.
- 3) All payments shall be made in Indian Rupees and shall be subject to applicable Indian laws, withholding taxes, if any.
- 4) Payment shall be made to the organisation on a monthly basis.

(Signature, name and designation of the Authorised signatory's)

Name of Firm:

Address:

ANNEXURE C: SELF DECLARATION - NO BLACKLISTING

(Date)

Chairperson

State Medical Faculty (UP)

<Address>

Dear Sir/Madam,

Ref: RFP for Selection of Technology vendor for development of web-based technology application for executing and managing functions of State Medical Faculty (UP) across India

In response to the RFP for Selection of Technology vendor for development of web-based technology application for executing and managing functions of State Medical Faculty (UP) across India, I/ We hereby declare that presently our Company/ firm _____ is having unblemished record and is not declared ineligible for corrupt & fraudulent practices either indefinitely or for a particular period of time by any State/ Central Government/ PSU/Autonomous Body.

We further declare that presently our Company/ firm _____ is not blacklisted/debarred and not declared ineligible for reasons other than corrupt & fraudulent practises by any State/ Central Government/ PSU/ Statutory Authority on the date of Bid Submission.

If this declaration is found to be incorrect then without prejudice to any other action that may be taken, my/ our security may be forfeited in full and the tender if any to the extent accepted may be cancelled.

Thanking you,

Yours faithfully,

Date.....

Place.....

Signature.....

Name.....

Seal of the organisation

To the Chairperson State Medical Faculty (UP),
<Address>

WHEREAS (name and address of the firm) (hereinafter called "the Agency") has undertaken, in pursuance of RFP/contract no..... dated to offer consultancy for conducting an "xxx" (herein after called "the contract").

AND WHEREAS it has been stipulated by you in the said contract that the Agency shall furnish you with a bank guarantee by a scheduled commercial bank recognised by you for the sum specified therein as security for compliance with its obligations in accordance with and due performance of the contract; AND WHEREAS we have agreed to give the Agency such a bank guarantee; NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the Agency, up to a total of (amount of the guarantee in words and figures), and we hereby irrevocably and absolutely undertake to pay you immediately, upon your first written demand declaring the Agency to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Agency before presenting us with the demand. We further agree that no change or addition to or other modification of the terms of the contract to be performed thereunder or of any of the contract documents which may be made between you and the Agency shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification. The Guarantor Bank represents that this Bank Guarantee has been established in such form and with such content that is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein. The Bank Guarantee shall not be affected in any manner by reason of merger, amalgamation, restructuring or any other change in the constitution of the Guarantor Bank or the Agency. The Bank further undertakes not to revoke this Guarantee during its currency except with the previous express consent of the Client in writing. The Bank declares that it has power to issue this Guarantee and discharge the obligations contemplated herein, the undersigned is duly authorised and has full power to execute this Guarantee for and on behalf of the Bank.

This guarantee shall be valid upto and including the day of, 20.....

(Signature with date of the authorised officer of the Bank)

Name and designation of the officer

.....

Seal, name & address of the Bank and address of the Branch