

**Notice Inviting Auction (NIA) Through GeM Portal  
(Forward Auction) For Digital Signage Solutions across  
Directorate of Medical Education and Research  
Infrastructure/Hospitals/Colleges/Institutes,  
Government of Maharashtra.**

**NIA No: BECIL\RO\DMER\SIGNAGES\2023-24\001**

**Date: 15.09.2023**



**Broadcast Engineering Consultants India Limited**

**Regional Office:** House No.162, II Main, I Cross, AGS Layout, RMV II Stage, Bengaluru – 560094,  
Tel: 080-2341 5853, E-mail ID: [bangalore@becil.com](mailto:bangalore@becil.com)

**Corporate office:** BECIL Bhavan, C-56, A/17, Sector-62, Noida-201201, Uttar Pradesh,  
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# Broadcast Engineering Consultants India Limited

E-Mail: [bangalore@becil.com](mailto:bangalore@becil.com), Web Site: [www.becil.com](http://www.becil.com) On line Forward Auction through GeM  
Forward Portal : <https://forwardauction.gem.gov.in/eprocure/home>.

**M/s. Broadcast Engineering Consultants India Limited (BECIL)**, a Public Sector Enterprise, under the Ministry of Information and Broadcasting (MIB) invites NIA for selection of agencies in BECIL for Installation of Advertisement across Directorate of Medical Education and Research Infrastructure/ Hospitals/ Colleges/ Institutes, Government of Maharashtra. Eligible agencies are invited for the project, which has the similar kind of service experience.

Prospective bidders are requested to go through BECIL website [www.becil.com](http://www.becil.com) & On-line e-tender GeM Portal <https://forwardauction.gem.gov.in/eprocure/home> time to time for any updated information.

The following are the schedule and critical dates for the bid submission:

NIA Reference No	<b>BECIL\RO\DMER\SIGNAGES\2023-24\001</b> <b>Dated: 15.09.2023</b>
Date of Commencement of Sale of NIA Document Through Downloading.	<b>15.09.2023</b>
Last Date and Time for Submission of Bid	<b>22.09.2023 Before 3:00 PM</b>
Place of Opening of Proposals	<b>BECIL, Bengaluru.</b>
Date and Time of Opening of Technical Assessment.	<b>22.09.2023 After 4:00 PM</b>
Last Date and Time for submission of EMD	<b>26.09.2023 Before 5:00 PM</b>
Date and Time of Forward Auction	Will be notified
Online Pre-bid meet	<b>Pre-Bid Meeting for DMER.</b> Wednesday, September 20, 2023 @11:30am – 2:00pm. VC link: <a href="https://meet.google.com/jwj-bvfh-giu">https://meet.google.com/jwj-bvfh-giu</a> .
Address for Communication	<b>General Manager</b> BECIL-RO. No.162, II Main, I Cross, AGS Layout, RMV II Stage, Bengaluru - 560094. E-mail: <a href="mailto:usha@becil.com">usha@becil.com</a> , Telephones: 080-23418583, FAX: 080-23418583.

BECIL reserves the right to amend the Auction Document tentative schedule and critical dates.

**Thanking you,**

**Yours faithfully**  
**-Sd-**  
**Usha Mangalgi**  
General Manager  
BECIL-RO.

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## **PART - 1: SPECIAL INSTRUCTIONS FOR FORWARD AUCTION TO BIDDERS.**

1. Auction Document uploaded by BECIL can be downloaded from the website [www.becil.com](http://www.becil.com). Or <https://forwardauction.gem.gov.in/eprocure/home>.
2. Notice Inviting Auction (NIA) is available at government e-marketplace portal (GeM Portal) <https://forwardauction.gem.gov.in/eprocure/home>. Bid against this Auction shall be submitted online only at government e-marketplace Forward Auction portal (GeM Forward Auction portal) <https://forwardauction.gem.gov.in/eprocure/home>.
3. Desirous companies may participate the forward auction and other details from <https://forwardauction.gem.gov.in>.

### **Note:**

To participate in this e-Auction, the Bidders should get registered on GEM Portal via link <https://forwardauction.gem.gov.in/eprocure/bidder-registration> to obtain the username & password.

In case of any queries relating to registration and participation, bidder may send the same by e-mail to [helpdesk-gem@gov.in](mailto:helpdesk-gem@gov.in) or may contact GeM Team on phone no. 1800-419-3436 & 1800-102-3436.

4. No other mode of bid submission shall be accepted.
5. Bidders should take into account any corrigendum published on the NIA document before submitting their proposals.
6. Please go through the NIA advertisement and the NIA document carefully to understand the documents required to be submitted as part of the proposals.
7. Any queries relating to the NIA document and the terms and conditions contained therein should be addressed to the NIA Inviting Authority for a NIA or the relevant contact person indicated in the NIA.

## PART - 2: SCOPE OF WORK, BIDDERS ELIGIBILITY CRITERIA.

### 1. The Bidder Shall Fulfil the Following Eligibility Conditions (All document to be submitted online under PQ through GeM Forward Auction Portal):

Particular	Eligibility criteria	Documents to be submitted
Legal entity	The bidder has to be a company/ proprietor/ partnership/ LLP firm registered for this purpose under any Law/ Act of Govt. of India.	Certified by Authorized Signatory: 1. Copy of Certificate of Incorporation. 2. Copy of Registration Certificates with the GST & IT (PAN) Authorities.
		Bidder Must provide the Memorandum of Article (MoA) and Article of Association (AoA) Documents.
Office Address	The bidder should have its office in administrative divisions of the state of Maharashtra for which bidder is applying for registration.	List of Office address in India & office/representative in Maharashtra should be attached.
Bidder Turnover	Average Annual Turnover of the Bidder during the three (3) financial years (FY 20-21, FY 21-22 & FY 22-23) should not be less than <b>08 Cr. (Eight Crores)</b> .	Certified by Chartered Accountant: Bidder shall submit CA Certified copy of Average Annual Turnover & Balance sheet of 3 years. Audited Profit & Loss Statement for the last 3 years.
Income Tax Returns (ITR)	The bidder must submit ITR of 3 years FY 20-21, FY 21-22 & FY 22-23.	Details Income Tax Return of 3 years FY 20-21, FY 21-22 & FY 22-23.
Blacklisting	<ul style="list-style-type: none"> <li>The Bidder should not have been blacklisted by any Governmental or quasi-Government entity in India for breach of any applicable law or violation of regulatory prescriptions or breach of agreement as on the date of submission of Bid.</li> <li>The Bidder should not have failed to perform on any agreement, as evidenced by imposition of a penalty by an arbitral or judicial authority or a judicial pronouncement or arbitration award against the Applicant, nor been expelled from any project or agreement or have had any agreement terminated for breach.</li> </ul>	Self-Declaration, it should be notarized in Rs.100 stamp paper. (Prescribed format given in NIA Document)
Experience	The bidder should have experience of minimum 5 years in the field of information dissemination across media.	Bidder should submit the certificates of similar work experience.

## 2. Project Objective & Scope:

### 2.1 Project Objective:

- Digital signage in hospitals offers numerous benefits that enhances patient care, improve communication. Enhanced Communication through Digital Signages can deliver real-time information to patients, visitors, and staff. It can display important announcements, emergency alerts, and wayfinding instructions, ensuring everyone stays informed.
- Digital signage can be used to educate patients about different schemes State and Central Govt., Child & Mother care promos, treatment options, and healthy living tips. This empowers patients to take an active role in their healthcare.
- Purpose of this Digital Indoor & Outdoor full Colour LED Display Panel is to provide information to Citizens, patients, and their relatives.
- Present NIA is to engage an agency who will design, provide, install, operation and maintain Digital Indoor & Outdoor full Colour LED Display Panels in all Medical colleges / Hospitals / Institutions comes under DMER, Govt. of Maharashtra for a period of 5 years on DBOT model.

### 2.2 Scope of Work:

1. Agency should install Indoor & Outdoor LED panels & Displays on Design, Build, Operate and Transfer (DBOT) model.
2. Capital investment and Operation cost for five years of Indoor & Outdoor Active LEDs shall be in the scope of the Agency/contractor.
3. LED Panels for Indoor should have 1920 x 1080 Resolution (Full HD) or better.
4. Agency should be responsible for Electrical work like cabling, Data cabling, Concrete / steel frame for fixing outdoor LED displays, Lightning Arrestor, Earthing, Protection of outdoor LED display's also the safe custody of the installed infrastructure. However, any Civil / Electrical work required will be the responsibility of the Agency at his cost. The Agency will bear the charges of electric meter and monthly electric bill as per applicable rates.
5. Agency should be responsible for electrical requirement for fixing and running LED displays and will install its own network & power lines from the point of connection, which will be provided by DMER and its monthly charges has to be borne by the Agency.
6. Space for fixing Indoor & Outdoor LEDs shall be provided by DMER.
7. The Agency should perform the site survey of all the medical college's/Hospitals etc & BECIL will provide prior approval to proceed with the installation, on behalf of DMER, as a part of the bidder's confirmation letter.
8. Central management console will be used to remotely configure, control, and moNIAor Digital Outdoor & Indoor full Colour LED Display Panels. Central content management server should provide user management as well as real-time moNIAoring, live viewing of remote screen content, notification of events, and session management.
9. Site locations for fixing Indoor LED & Outdoor Active LED displays as per **Annexure - I. Final list of site locations will be provided at the start of this project.**
10. Agency should refer the Technical Specifications of Indoor, Outdoor LEDs, Media players, Servers and Content management Servers as per **Annexure - II.**

11. Agency shall install Media players, servers, Content management servers for publishing the content and creating logs/reports on monthly basis. Displays should be Managed remotely by an advanced, web-based management portal and content management software.
12. LED panels enclosure should be in a protective shell made of robust weatherproof material; it would be placed outdoor & it should survive adverse weather condition. Enclosure shall start from the floor level; LED panels shall be fixed in such a way that the centre of the LED panel will be at a height of eye level (03 Mtrs. from floor level). All components of the Digital Outdoor full Colour LED Display Panel must be fabricated of high quality, durable, maintainable, and vandal-resistant materials. To the maximum extent feasible, all surfaces of the Digital Outdoor full Colour LED Display Panel that are accessible to the public must be graffiti resistant. Footings shall be embedded in the sidewalk so that there are no surface plates to create a trip hazard. These structures shall be of stainless steel or any suitable material, and aesthetically designed and structurally stable. The Agency shall also indemnify DMER for any damage due to such structures.
13. Agency should approach Advertising Agencies and Central, State & Semi Govt. Departments for bringing advertisements / Promos/ Govt. Schemes to display on LEDs.
14. Agency's sole responsibility to bring the advertisements / Promos / Govt. Schemes from Advertising Agencies / Central, State & Semi Govt. Departments.
15. Content on the displays shall be published from **9.00 AM to 7.00 PM**.
16. For outdoor and indoor premises, a total of three Hours from **9.00 AM to 12.00 noon** shall be allocated to DMER for publishing the content / promos related to DMER department for free of cost.
17. For indoor premises, the display should be operational for total **6 hours** during the day time. **3 hours** shall be allocated to DMER for publishing the content / promos related to DMER department for free of cost.
18. Agency shall publish the Remaining Hours for publishing the content /promos /schemes /commercials from other departments / Ad agencies, etc. for revenue generation.
19. Agency shall strictly follow Indian broadcast code of ethics of advertisement for publishing static & dynamic visual content on LEDs, along with a news ticker/scroll.
20. The revenue shall be shared between BECIL and Finalized Agency. The revenue sharing portion for BECIL shall form part of Agency selection criteria. Higher the revenue margin for BECIL would result in selection of Agency for execution of this project.
21. All the inventories deployed (excluding manpower) under this scope of project will become the property of BECIL/DMER at the end of five years from the date of project Commissioning. Time set for project commissioning is 6 months from the date of Agreement. After the completion of the 5 years of duration set for the Operation and Management the Agency will not have any legal right on these installed infrastructures. However, all the liabilities such as licences, H/w & S/w maintenances/ recurring expenditures/ manpower/ direct and indirect expenses over the infrastructure for 5 years, Man power during the 5 years of operation and maintenance period will be the total responsibility of the selected bidder.
22. At the end of the five years, the Agency must hand over all the assets created under this project to the BECIL/DMER in proper working condition. In case of any deficiency noticed at the time of such handing over, the Agency must get it rectified at his own cost within 15 days of such handing-over, otherwise, BECIL/DMER will get it rectified at the risk and cost of the Agency. Performance guarantee of Agency will be released only after the successful handing over of all the physical assets in working condition to BECIL/DMER.

23. Agencies to deposit **Performance Bank Guaranty (PBG)** of **Rs. 40,00,000/- (Rs. Forty Lakhs Only)** as a refundable security deposit with the BECIL, which will be released within three months from the date of end of five years, only upon successful completion of the work, settlement of all dues (unless the said amount is forfeited for any breach of contract) and peaceful handover of the physical assets and that the said Performance Bank Guaranty (PBG) shall not carry any interest.
24. The Agency shall be responsible for any theft/damage/loss of assets created under this project and shall be responsible for settlement of the dispute, if any, including under the Court of Law, and follow all instructions and guidelines issued by Maharashtra Police /statutory rules & regulations / BECIL/DMER for prevention of misuse by anti-social elements, terrorist(s) etc.
25. All advertisements / promos displayed on such panel, throughout the five years period, shall be in accordance with the Advertisement Policy of Govt. of India, as amended from time to time. Advertisement content should be approved by BECIL before publishing the content.
26. Undertake all measures for Cyber security, protection of information and communication technology systems of this project from cyber-attacks that are purposeful attempts by unauthorized persons to access ICT systems to achieve the target of theft, disturbance, damage, or other illegal actions. The Agency will detect, analyse, and do mitigation of vulnerabilities and protect Central Control Centre including Data Centre from cyber-attacks throughout the Five years period.
27. Responsible for and provide security at the locations of these panels and shall report crimes to Maharashtra Police and BECIL/DMER without fail.
28. The Agency will not install/Anchor these LED Display panels from the side walls. These panels will only be installed by fixing it with the existing floor. For indoor, existing walls can be used to mount the screens.
29. Report of content pertaining to BECIL/DMER displayed on screen shall be shared to BECIL on monthly basis.
30. The agencies shall make his own arrangement for transport of all materials for installation.



### **PART – 3: TERMS & CONDITIONS, ROLES AND RESPONSIBILITIES FOR BIDDERS.**

#### **a. Terms and Conditions:**

1. The evaluation of the applications for selection shall be carried out by the committee constituted for the purpose.
2. Any un-authenticated, alterations, erasures, overwriting, blanking out or discrepancies may render the NIA submission invalid. The evaluation of the response will only be based on the documents submitted and evaluation committee reserved the right to relax the evaluation criteria.
3. Response submitted by Fax or E-mail or any form other than mentioned above will not be acceptable and liable for rejection by BECIL.
4. During selection period, BECIL reserves the right to de-panel, if the service provided by the vendor is found to be unsatisfactory or if, at any time, it is found that the information provided for selection is false, the BECIL reserves the right to remove such vendors from the selected list without giving any notice to the vendor in advance. BECIL's decision will be final in this regard.
5. The statements and explanations contained in this NIA are intended to provide a better understanding to the Bidders about the subject matter of this NIA and should not be construed or interpreted as limiting in any way or manner the scope of services and obligations of the agencies set forth in the Agreement or the Authority's rights to amend, alter, change, supplement or clarify the scope of work, the order to be awarded pursuant to this NIA or the terms thereof or herein contained. Consequently, any omissions, conflicts or contradictions in the Bidding Documents including this NIA are to be noted, interpreted, and applied appropriately to give effect to this intent, and no claims on that account shall be entertained by the Authority.
6. Incomplete and conditional tenders, late or delayed tenders will summarily be rejected. BECIL reserve the right to accept or reject any quotation fully or partly without assigning any reason.
7. Clause regarding restrictions on procurement from a bidder/ OEM/ Supplier of a country which shares a land border with India as per office memorandum dated 23.07.2020 Rule 144 (xi) in General Financial Rule (GFRs) 2017 and all addendums and clarifications issued by Ministry of Finance, Department of Expenditure, Public Procurement Division, Government of India (F.No. 6/18/2019-PPD) is part of this NIA.

#### **b. Roles and Responsibilities:**

1. Making site survey, feasibility study, finalizing the requirements as per the BECIL/DMER.
2. Preparation of conceptual preliminary design of the Project.
3. Preparing the site and drawings of indoor and outdoor LED panels.
4. Submission of PERT chart.
5. Supply, Installation, Testing & Commissioning of indoor and outdoor LED panels.
6. Operations and management with required manpower.
7. Generating of revenue from the Advertisements by marketing.
8. Submission of logs of commercials/promos /advertisements broadcasted on displays on monthly basis
9. Handing over of the project after 5 years.
10. Documentation on the Project work.

### **c. Bidder Code of Conduct and Business Ethics:**

BECIL is committed to its values & beliefs and business practices to ensure that companies and suppliers, who supply goods, materials, or services, will also comply with these principles.

#### **A. Bribery and Corruption:**

Bidders are strictly prohibited from directly or indirectly (through intermediates or subcontractors) offering any bribe or undue gratification in any form to any person or entity and / or indulging in any corrupt practice in order to obtain or retain a business or contract.

#### **B. Integrity, Indemnity & Limitation:**

Bidder shall maintain high degree of integrity during its dealings with business/contractual relationship with BECIL. If it is discovered at any stage that any business/ contract was secured by playing fraud or misrepresentation or suspension of material facts, such contract shall be voidable at the sole option of the competent authority of BECIL. For avoidance of doubts, no rights shall accrue to the supplier in relation to such business/contract and BECIL or any entity thereof shall not have or incur any obligation in respect thereof. The supplier shall indemnify BECIL in respect of any loss or damage suffered by BECIL on account of such fraud, misrepresentation, or suspension of material facts.

### **d. Force Majeure Clause:**

1. Neither party shall bear responsibility for the complete or partial non-performance of any of its obligations (except for failure to pay any sum which has become due on account of receipt of goods under the provisions of the present contract), if the non-performance results from such Force Majeure circumstances as Flood, Fire, Earth Quake and other acts of God as well as War, Military operation, blockade, Acts or Actions of State Authorities or any other circumstances beyond the parties control that have arisen after the conclusion of the present contract.
2. In such circumstances the time stipulated for the performance of an obligation under the present contract is extended correspondingly for the period of action of these circumstances and their consequences.
3. The party for which it becomes impossible to meet obligations under this contract due to Force Majeure conditions, is to notify in written form the other party of the beginning and cessation of the above circumstances immediately, but in any case, not later than 10 (Ten) days from the moment of their beginning.
4. Certificate of a Chamber of Commerce (Commerce and Industry) or other competent authority or organization of the respective country shall be a sufficient proof of commencement and cessation of the above circumstances.
5. If the impossibility of complete or partial performance of an obligation lasts for more than one month's either party hereto reserves the right to terminate the contract totally or partially upon giving prior written notice of 15 days to the other party of the intention to terminate without any liability other than reimbursement on the terms provided in the agreement for the goods received.

**e. Conflict of Interest:**

Bidder shall furnish an affirmative statement as to the absence of actual or potential conflict of interest on the part of the Bidder (or any prospective subcontractor, if applicable) due to prior, current, or proposed contracts, engagements, or affiliations with BECIL. Additionally, such disclosure shall address any and all potential elements (time frame for service delivery, resource, financial or other) that would adversely impact the ability of the Bidder to complete the requirements as given in the NIA.

**f. Amendment of NIA Document:**

At any time before the submission of bids, BECIL may amend the NIA document by issuing an addendum/corrigendum in writing and by announcing it through its website. The addendum/corrigendum shall be binding on all the Agencies. To give the Agency reasonable time in which to take an amendment into account in their bids, the BECIL may, if the amendment is substantial, extend the deadline for the submission of bid.

**g. Selection Procedure:**

The objective of evaluation methodology is to facilitate the selection of technically superior vendors. The Selection will be valid for 05 years.

The vendor will be selected as per the following process:

1. Vendors satisfying the eligibility criteria will be short listed and will be selected with BECIL after due scrutiny of documents submitted by the bidder. BECIL may, at its sole discretion, decide to seek more information from the Applicants. The clarification shall be given in writing immediately.
2. The Evaluation committee constituted for the purpose, may waive any informality or non- conformity or irregularity in an application which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any applicant. Decision of the Evaluation Committee would be final and binding upon the Applicants.
3. BECIL decision in respect of evaluation methodology and short listing of Applicants will be final and no communications, whatsoever in this respect, shall be entertained.
4. BECIL may add/remove any relevant criteria for evaluating the proposals received in response to this NIA at the sole discretion of BECIL.
5. In case the H1 party fails to execute the project within the stipulated period. BECIL is not bound to give any notice / reminder to H1 party for their failure to deposit the required security deposit or execute the project within the stipulated period. In such case the Performance Bank Guaranty (PBG) of the H1 party will be forfeited.
6. Generally, the Highest Bidder shall be the Selected Bidder. The remaining Bidders shall be kept in reserve and may, in accordance with the process specified in Part – 4: Evaluation Criteria, be invited to

match the Bid submitted by the Highest Bidder in case such Highest Bidder withdraws or is not selected for any reason. If none of the other Bidders match the Bid of the Highest Bidder, the Authority may, in its discretion, either invite fresh Bids from the remaining Bidders or annul the Bidding Process.

#### **h. Notification of Selection:**

BECIL shall notify the successful applicant in writing by registered letter or by email, that its application has been accepted. The applicant shall acknowledge in writing, receipt of the notification of selection and shall send his acceptance within seven (7) days of receiving the notification.

Failure to abide by this, may lead to termination of the selection.

Bidder is expected to examine all instructions, terms, specifications, and other information in the bidding documents. Failure to furnish all information required by the bidding document or to submit a bid not substantially responsive to the bidding documents in every respect will be at bidder's risk and may result in the rejection of Bid.

Bidder should attach necessary supporting documents (self-attested copies) as proof in respect of each of the eligibility criteria mentioned in this NIA document.

#### **i. Earnest Money Deposit (EMD):**

1. Bidders shall submit, along with their Bids, refundable EMD of **Rs. 20,00,000/- (Rs. Twenty Lakh only)** and shall be paid through online. EMD shall be accepted through online only. <https://forwardauction.gem.gov.in/eprocure/home> for online payment instructions. The proof of EMD must be submitted online through GeM Forward Auction Portal.

**BECIL Account Details for Submitting the EMD Through Online Mode:**

**Company Name:** Broadcast Engineering Consultants India Limited (BECIL).

**Office Address:** # 162, 2<sup>nd</sup> Main, 1<sup>st</sup> Cross, AGS Layout, RMV 2<sup>nd</sup> Stage, Bangalore- 560094.

**GSTIN No:** 29AAACB2575LIZE.

**Bank Details:** BROADCAST ENGINEERING CONSULTANTS INDIA LIMITED.

**Name & Branch of Bank:** UNION BANK OF INDIA, RMV EXTN NEW BEL MAIN ROAD.

**Bank Account No:** 510331001272052.

**Type of Account:** CURRENT ACCOUNT.

**IFSC Code:** UBINO905828.

2. In case bid is submitted without EMD as mentioned above, then BECIL reserves the right to reject the bid without providing opportunity for any further correspondence to the bidder concerned.
3. Bidder's EMD will be discharged/ returned as promptly as possible, but not later than 120 days after signing of the Contract with the Selected Bidder.
4. The decision of BECIL regarding forfeit of the EMD and rejection of bid shall be final & shall not be called upon question under any circumstances.
5. BECIL may ask bidders to submit additional documents in case any clarification is required.
6. The EMD may be forfeited:
  - a. In the case of a successful bidder, if the Bidder fails to sign the Contract or to furnish Performance Bank Guarantee within specified time.

- b. During the bid process, if a Bidder indulges in any such deliberate act as would jeopardize or unnecessarily delay the process of bid evaluation and finalization.

**j. Performance Bank Guaranty (PBG):**

The supplier shall furnish Purchase Order Security (Security Deposit) in the form of Bank Guarantee (from Scheduled Banks) to the purchaser for an amount equal to **Rs. 40,00,000 (Rs. Forty Lakhs)** within 15 days from the date of issue of Information Letter / Sale Order by the BECIL.

**Note:** Successful Bidder must pay the transaction charges of GeM as per revenue policy of GeM so that they can download Intimation Letter / Sale Order.

The proceeds of the Sale Order Security shall be payable to the Purchaser as compensation for failure to complete its obligations under the contract. The Sale Order Security will be discharged by the Purchaser within 30 days from the date of successful installation and commissioning of the entire system.

The successful bidder's Bid Security will be discharged upon the bidder's acceptance of the LOI / SO / PO satisfactorily and submission of Purchase order Security.

Performance Security to be addressed/ in favour of Chairman & Managing Director (CMD), Broadcast Engineering Consultants India Limited (BECIL), Registered & Corporate Office:C-56, A/17, Sector-62, Noida-201301, U.P. Ph.: 0120-4177850.

**k. Bid Submission Instructions:**

Bid document must be direct, concise, and complete. BECIL will evaluate bidder's proposal based on its clarity and the directness of its response to the requirements of the project as out lined in this NIA. Bidders shall furnish the required information on their technical and commercial proposals in the enclosed/recommended formats only.

Bidders are advised to refer to the GEM Portal for instructions (on usage and pre-requisites), registration on the Portal and online bid submission on the GEM Portal after bid preparation as per the NIA document/ requirements. Any deviations in format would result in bid rejection.

**1. Correction of Error:**

Bidders are advised to exercise adequate care in quoting the prices. No excuse for corrections in the quoted figures will be entertained after the bid submission and/or receipt of commercial proposals by BECIL. All corrections, if any, should be intimated by the person signing the proposal form before submission, failing which the figures for such items may not be considered and/or the financial proposal may be rejected on grounds of incomplete or erroneous proposal.

Arithmetic errors in proposals will be corrected as follows:

- a) In case of discrepancy between the amounts mentioned in figures and in words, the amount in words shall govern. The amount stated in the proposal form, adjusted in accordance with the above procedure, shall be considered as binding.
- b) In case of ambiguities between the quoted (by bidder) uNIA prices/ values and any derived/calculated values, uNIA prices/values shall prevail, and all derived values shall be recalculated using the quoted uNIA prices and the quantities furnished in the NIA.

**m. Notices:**

1. Any notice or other document which may be given by either Party under the Contract/ Agreement shall be given in writing in person or by pre-paid recorded delivery post, email.
2. In relation to a notice given under the Contract/ Agreement, any such notice or other document shall be addressed to the other Party's principal or registered office address as set out below:

**BECIL Details:**

**Address:** No.162, II Main, I Cross, AGS Layout, RMV II Stage, Bengaluru - 560094.

**E-mail:** [usha@becil.com](mailto:usha@becil.com).

**FAX:** 080-2341858,

**Telephone:** 080-23418583.

3. In relation to a notice given under the Contract/ Agreement, a Party shall specify the Parties address for service of notices, any such notice to be copied to the Parties at the addresses set out in this NIA.
4. Any such notice or other document shall be deemed to have been given to the other Party (or, if relevant, its relevant associated company) if delivered between the business hours of 9.00 am and 5.30 pm at the address of the other Party set forth above, or on the next working day thereafter if delivered outside such hours, and 7 days from the date of posting (if by letter).
5. Either Party to the Contract may change its address, telephone number, and nominated contact for notification purposes by giving the other Party reasonable prior written notice of the new information and its effective date.

## PART – 4: EVALUATION CRITERIA & COMMERCIAL OFFER.

### 1. Evaluation Criteria:

The broad guidelines for evaluation of NIA will be as follows:

- a. Only those NIA will be evaluated which are found to be fulfilling all the eligibility and qualifying requirements of the NIA, both technically and commercially.
- b. The NIA submitted by the bidders will be evaluated by BECIL with reference to the technical characteristics/technical parameters/eligibility criteria as mentioned in the NIA. The compliance of technical documents would be determined based on the parameters specified in the NIA.
- c. The bidder whose documents towards technical eligibility criteria are found compliant/suitable after technical evaluation is done by the committee will be allowed for **Forward Auction**.
- d. All taxes and duties quoted by the agency will be considered. The bidder offering highest BECIL margin in terms of Percentage (%) to BECIL would be the deciding factor for finalizing the successful bidder for this project.
- e. The Highest acceptable offer BECIL will be considered further for placement of contract/supply order after complete clarification and price negotiations if required as decided by BECIL. BECIL also reserves the right to do apportionment of quantity, if it is convinced that Highest bidder is not able to provide services within stipulated time and the same will be placed to another bidder at Highest-1 rate.
- f. **Product offered quality and solution:** Field proven industry tested equipment and solutions from renowned and reputed firms from industry with proven track record only will be accepted. Non-standard make/model of equipment without proven and credible local support will disqualify the proposal technically.
- g. **Assurance of supply and support:** With respect to their technical capability, organizational stability, reliability of equipment, ability to meet timelines and past experience of BECIL with Bidders.
- h. Work man ship provided by the contractor should be skilled enough to carry out the particular works for the better and efficient execution of works.
- i. **Delivery Schedule:** Adherence to the delivery time line proposed by BECIL will be critical parameter for evaluation and final decision. The delivery schedule for SITC of indoor & outdoor of LED panels will be 6 months from the date of agreement.
- j. **Safety:** Material and labour safety will be solely responsible of the bidder.
- k. **Quality:** Equipment stability, guaranteed uptime parameters, life of equipment. All the items which are going to be installed should be of approved make and model with an ISI certification.
- l. After awarding of the contract, the bidder has to provide all the technical details, drawings of all the works & electrical related works.

m. It is responsibility of the bidder to maintain the site neat & clean. In case of any damage to the property of **DMER** while execution of the work by the bidder, the same will be recovered from the bidder while settlement of final payment.

n. **Tax Deduction at Source (TDS):** TDS will be deducted as per prevailing rules in force.

## **2. Revenue Sharing:**

The revenue sharing will be done on a back-to-back basis as below:

- The Finalized Agency will submit the logs of the published commercials/promos/ Advertisements on a monthly basis based on the logs generated by the content management server.
- BECIL will raise the invoice to Advertising agencies/ Departments of State & Central Govt as per the logs submitted by the finalized Agency on a monthly basis for the published commercials/promos/ Advertisements, etc. as per DAVP rates.
- BECIL will release the payment to the finalized Agency only after the receipt of payment from Advertising agencies/ Departments of State & central Govt.
- Revenue will be shared with the finalized Agency after deducting Margins set for BECIL against the invoices submitted to BECIL.
- GST, Taxes & TDS deductions will be as per actuals.
- Finalized Agency will raise the invoice to BECIL as per the logs generated for the publishing of commercials/promos/ Advertisements on a monthly basis.
- Request For Advance Payments Will Not Entertained.



**Annexure – I: Site locations for fixing Indoor & Outdoor LED displays.**

*Final list of site locations will be provided at the start of this project.*

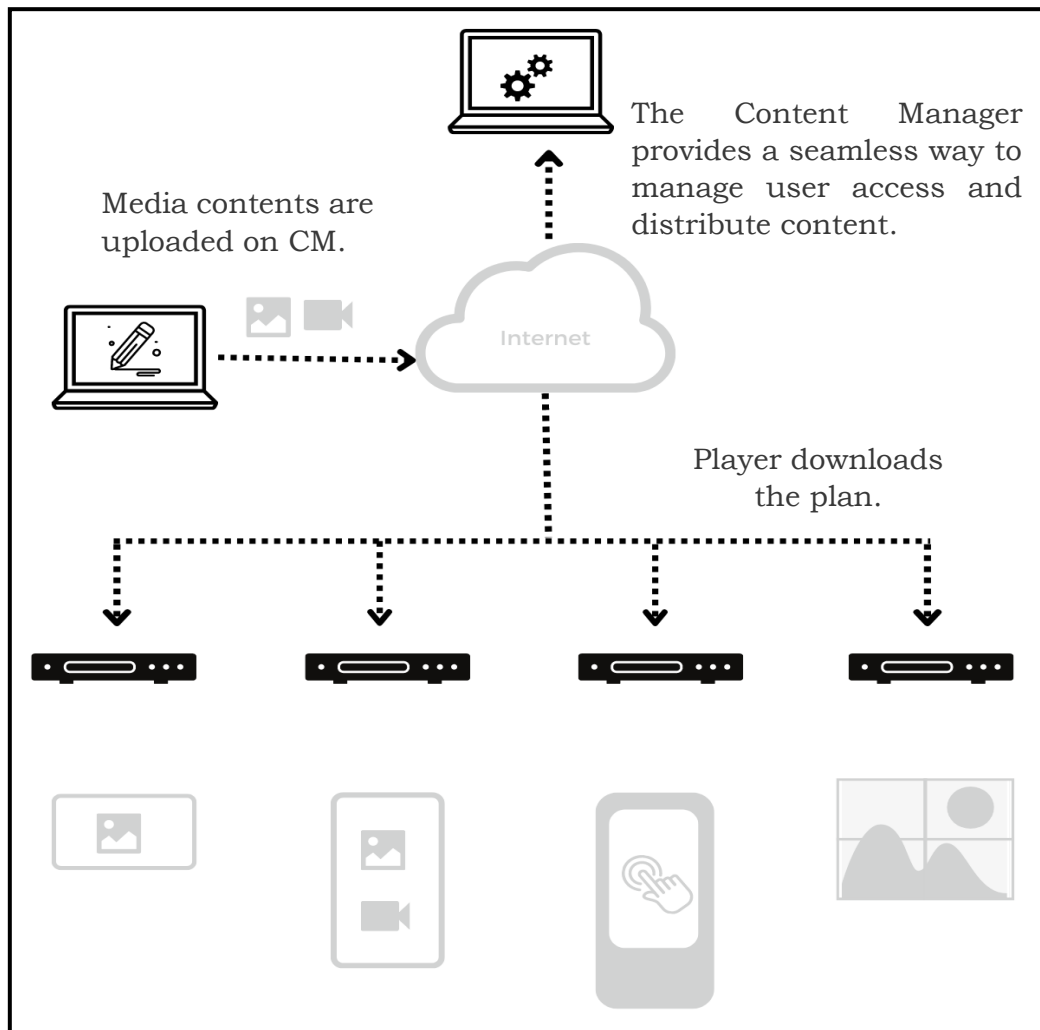
<b>SL No</b>	<b>College &amp; Hospital Names</b>
1.	Grant Govt. Medical College & Sir J. J. Group of Hospitals Mumbai, Mumbai.
2.	St. George's Hospital, Mumbai.
3.	Gokuldas Tejpal Hospital (GT Hospital), Mumbai.
4.	Cama and Albless Hospital, Mumbai.
5.	Sassoon Hospital, Pune.
6.	Government Medical College Hospital, Nagpur.
7.	Indira Gandhi Government Medical College, Nagpur.
8.	Dr. Babasaheb Ambedkar Research Center.
9.	Government Medical College Hospital, Aurangabad.
10.	Government Cancer Hospital, Aurangabad.
11.	Sarvopachar Hospital, Solapur.
12.	Swami Ramanand Tirth Rural Govt. Medical College, Ambajogai.
13.	Government Medical College Hospital, Miraj.
14.	Sarvopachar Hospital, Sangali.
15.	Shri. Shankarao Chavan Government Medical College Hospital, Nanded.
16.	Government Medical College Hospital, Dhule.
17.	Government Medical College Hospital, Yavatmal.
18.	Ch. P. R. Sarvopachar Hospital, Kolhapur.
19.	Government Medical College Hospital, Latur.
20.	Government Medical College Hospital, Akola.
21.	Government Medical College and Hospital, Chandrapur.
22.	Government Medical College and Hospital, Gondia.
23.	Government Medical College and Hospital, Baramati.
24.	Government Medical College and Hospital, Jalgaon.
25.	Sir. J.JI. Group Patient, Mumbai.
26.	St. Georges Hospital, Mumbai.
27.	Go. Te. Hospital, Mumbai.
28.	Cama and Albless Hospital, Mumbai.
29.	Sassoon Hospital, Pune.
30.	Government Medical College Hospital, Nagpur.

## Annexure – II: Technical Specifications of Indoor, Outdoor LEDs, Media players, Servers and Content Management Servers.

- **Hardware & Software Requirements for Digital Signage Solution:**

- Media players.
- Content acceleration devices.
- Indoor digital fixtures.
- Outdoor digital fixtures.
- High-end computer system.
- Secure, stable content management and playback.
- Flexible design and content creation.
- Proven success in scalability.
- Real-time updating.
- Customised software solutions.
- In-house data and analytics platform.
- Live News Feed/Scroll.

- **Solution Architecture:**



• **Minimum specification required from the bidder for Outdoor LED Panel of Size 12\*8 Sqft:**

Module	Pixel Pitch	8.0 mm	Pixel Density	15625Dots/m <sup>2</sup>
	Configuration	1R1G1B	LED Lamp	SMD3535
	Size (Width*Height*Depth)	320*160*19mm	Weight	0.48kg ± 0.01kg
	Structure	Lamp & IC in same PCB	Resolution	40*20 = 800 Dots
	Input Voltage (DC)	4.5 ± 0.1V	Maximum Current	≤ 9.85A
	Power Consumption	≤ 44W	Driving Method	Constant Current 1/5 Scan
	40A Power Consumption for	2-3 pcs module	80A Power supply for	5-6 pcs module
	40A PFC Power supply for	3-4 pcs module	-	-
Cabinet (Magnesium Cabinet)	Cabinet Size (Width*Height*Thickness)		960mm*960mm*169.5mm (with module, cabinet, connecting plate)	
	Cabinet Pixel Density		120*120 = 14400 Dots	
	Cabinet Area		0.9216 m <sup>2</sup>	
	Cabinet Weight		30 kg ± 0.5 kg	
	Cabinet Max Power Consumption		≤ 798W	
	Average Power Consumption (1/3 Max)		≤ 266W	
	Distribution Power (Power Supply Capacity 78%)		≤ 1023W	
Screen	Brightness	≥4500cd/m <sup>2</sup>	Brightness Uniformity	> 0.95
	Horizontal Viewing Angle	140 ± 10 degree	Vertical Viewing Angle	130 ± 10 degree
	Best Viewing Distance	≥ 8.0m	Black Spot Ratio	< 0.0003
	Max Power Consumption	≤ 866W/m <sup>2</sup>	Operation Environment	Outdoor
	Grayscale	12-14bits (RGB each)	Display Color	4398 billion
	Frame Frequency	≥ 60 frame/sec	Refresh Frequency	≥ 960 Hz
	Control Mode	Computer control, Point-to-point	Brightness Adjustment	256-grade manual / automatic
	Life Span	≥ 100,000 hours	Average Failure Free Time	≥ 10,000 hours
	Attenuation (3 years later)	≤ 15%	Operating Humidity	10% - 90% RH

• **Minimum specification required from the bidder for Indoor LED Panel of Size 55" to 85":**

Display Size in Inches'	55" to 85"
Panel Technology	IPS/VA
Aspect Ratio	16:9
Native Resolution	1920 X 1080p (FHD)
Brightness	450 NIAs or better
Interfaces	USB 2.0 (2), HDMI (3), Audio jack 3.5mm (1)
Operation Hours	16 hrs a day
Operation Temperature	0°C to 50°C
Power Supply	100-240 V, 50/60 Hz
Safety	BIS Compliant
Electrical standards	BIS Compliant
Installation	Wall mount installation with necessary wall mounting kit.
Accessories	HDMI cable 5m and HDMI to DP converter, remote controller, installation guide.

• **Hardware and Software requirements of Media Player:**

CPU	Intel Celeron N3160
GPU	Intel HD Graphics
Operating System	Windows 10 IOT
Memory	4GB DDR3L
Storage	128 GB SSD
Power	12V DC In
HDMI	1 x HDMI
Network	2 X Gigabit Ethernet, Wi-Fi Module
Antenna	2 x external Antenna
I/O ports	4 X USB 3.0, 1 x USB 2.0
Dimensions (WxHxD)	175 mm x 127 mm x 39 mm
Net Weight	800 g
Storage Temp	0° to 70 °C
Working Temp	-20 ° to 80 °C
Chassis	Black colour aluminium

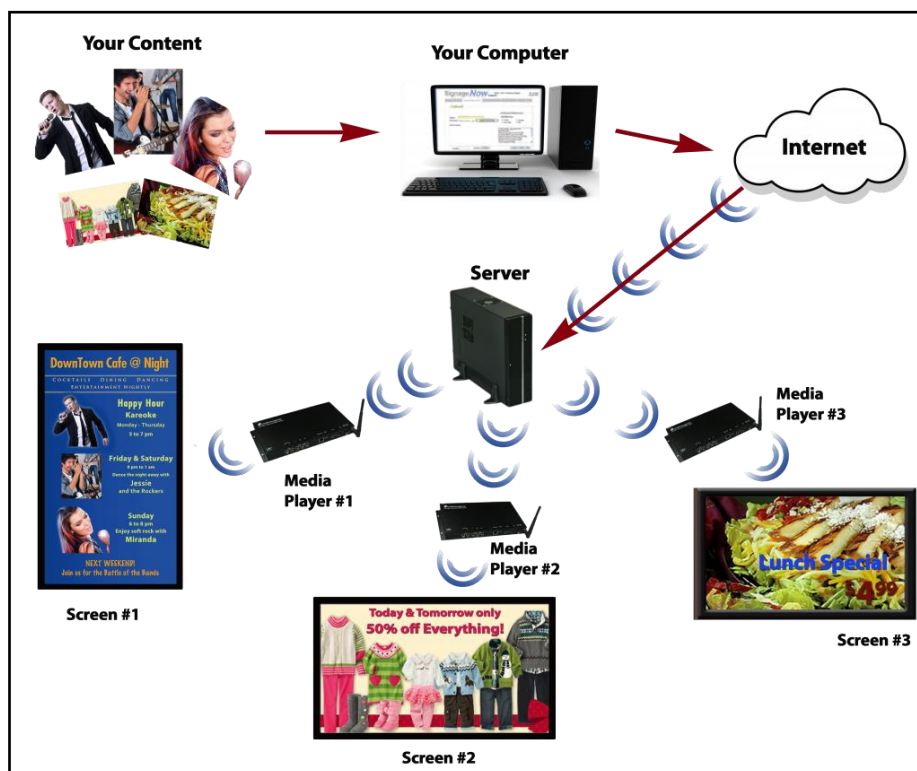
**Certification required:**

1. The product should have ULL, CE certification.
2. BIS certification for the LCD/LED panels, if applicable.

**Note:**

1. The specifications mentioned in the NIA are minimum specifications. Bidder can propose higher specifications.
2. The Applicant has to mention the make and model number of the product offered.
3. Active LED supply, installation, Fabrication along with the mild steel material works will be taken care of by Bidders.

Please refer to below Solution screenshot showing a high-level connectivity diagram of all components involved in the digital signage solution.



- **Supported Formats:**

Different Media Formats Designer composites a large variety of image, video, and audio file formats without file conversion or re-rendering on the server side.

- Image: BMP, GIF, IFF, JPEG, PCD, PCX, PNG, Targa, Tiff and WMF.
- Video: MPEG 1, MPEG 2, WMV and H.26
- Sound: WMA, WAV, MP3.
- HTML/HTML5 URL/Widget.
- Streaming: H264/MPEG2 over RTP/RSTP, Unicast or Multicast.
- Supports All Compatible Language fonts (European languages, Asian languages, Arabic, Hebrew and more).
- Supports Live RRS feeds/Twitter/FB.

- **Music and Sound Supported Formats:**

The following formats are currently supported:

- WAV: May give better results for looping sounds on a low-end player system (other formats may pause between loops).
- MP3: Format of choice.
- WMA: Windows Media Audio.

It is an audio data compression technology developed by Microsoft. The name can be used to refer to its audio file format or its audio codecs. It is a proprietary technology that forms part of the Windows Media framework. PC Players also support .m4a for H264/AVC (AAC in an MP4/MOV container). As with audio in video clips, try to find the best encoding quality at the smallest file size. Similar encoding values can be used: 192-224 Kbps CBR, 44 KHz. You can create Audio Playlists that can play in the background of your Channels. Multichannel Audio the PC Player supports AAC in an MP4/MOV package and with Windows Media (WMV+WMA). For example, an H264 video with a 5.1 AAC audio in an MP4 package. Video Scala currently supports the following video formats: MPEG 1 and 2, WMV and H.264 compression (MPEG4 part 10). MOV files are supported if they have H.264 compression. Apple ProRes444 (AP4H) within a MOV container is also supported. Please note that Scala does not support the other Apple ProRes video formats. MP4 and MOV are container formats for audio and video streams. They are a bit like an envelope for postal mail. You can put different types of content into an envelope (bills, checks, advertisements, birthday cards, handwritten letters, etc). Like an envelope, MOV and MP4 (and .AVI for that matter) has little to do with the letter or bill or whatever you put inside it. If you are using H.264/MPEG-4, please be aware there are different levels in bitrate and resolution and profiles (features and capabilities) that can be used when encoding video. Additionally, the audio track should be in AAC (Advanced Audio Coding) format.

Requirement Description Minimum Storage Separate, dedicated, Operating System Partition of at least 40GB. Separate, dedicated, Data Partition of 40GB, or larger, or at least 3X the estimated maximum amount of total content to active on the player network at any one time. Software RAID-5 is strongly discouraged. Direct Attached Storage (DAS): Actual HW-RAID, from vendors such as HP (Smart Array) /DELL (PERC)/ LSI (MegaRAID) /PMC-Adaptec, is encouraged for the physical hardware, but required for the virtual. RAID is encouraged. The partitions should be implemented on a RAID-1, 1+0, or RAID-6, storage volume. Software RAID, as implemented on Intel RST Chipsets, is acceptable for configurations of RAID-1, or RAID-1+0, on

smaller, < 20, Player networks. RAID-5 is strongly discouraged. For a Virtual-Machine Host, a Hypervisor, HARDWARE RAID functionality is considered essential. If you are using a Storage Area Network (SAN): One LUN should be implemented across at least two storage devices. Recommended (Guest) Operating Systems Windows Server 2012 R2 Windows Server 2014 Windows Server 2016 Windows Server 2019 Windows 7 SP1 Professional/ Enterprise /Ultimate x64. Windows 8.1 Minimum (Hypervisor/Host) Processor Type Intel Core-i5 2400S or better AMD FX-63## or better AMD Opteron 4### or better for a virtual network, make sure your vCPUs are from a Hypervisor host with these processors. System Memory (the OS is 64-bit) 6GB+ Dual-Bank DDR3-1333(PC3-10600)/1600(PC3-12800), or faster. For a virtual server, make sure 2GB of vRAM is allocated from a physical host with the above specifications. Network Adapter Must be: Stable 100Mbps or faster Ethernet PHY/NIC with WHQL-certified device drivers.

Requirement	Description
Minimum Storage	<ul style="list-style-type: none"> <li>• Separate, dedicated, Operating System Partition of at least 40GB.</li> <li>• Separate, dedicated, Data Partition of 40GB, or larger, or at least 3X the estimated maximum amount of total content to active on the player network at any one time.</li> <li>• Software RAID-5 is strongly discouraged.</li> <li>• Direct Attached Storage (DAS): Actual HW-RAID, from vendors such as HP (SmartArray)/DELL (PERC)/ LSI (MegaRAID) /PMC-Adaptec, is encouraged for the physical hardware, but required for the virtual.</li> </ul>
	<ul style="list-style-type: none"> <li>• RAID is encouraged. The partitions should be implemented on a RAID-1, 1+0, or RAID-6, storage volume. Software RAID, as implemented on Intel RST Chipsets, is acceptable for configurations of RAID-1, or RAID-1+0, on smaller, &lt; 20, Player networks. RAID-5 is strongly discouraged.</li> <li>• For a Virtual-Machine Host, a HyperVisor, HARDWARE RAID functionality is considered essential.</li> <li>• If you are using a Storage Area Network (SAN): One LUN should be implemented across at least two storage devices.</li> </ul>
Recommended (Guest) Operating Systems	<ul style="list-style-type: none"> <li>• Windows Server 2012 R2</li> <li>• Windows Server 2014</li> <li>• Windows Server 2016</li> <li>• Windows Server 2019</li> <li>• Windows 7 SP1 Professional/ Enterprise /Ultimate x64.</li> <li>• Windows 8.1</li> </ul>
Minimum (Hypervisor/Host) Processor Type	<ul style="list-style-type: none"> <li>• Intel Core-i5 2400S or better.</li> <li>• AMD FX-63## or better.</li> <li>• AMD Opteron 4### or better.</li> <li>• For a virtual network, make sure your vCPUs are from a HyperVisor host with these processors.</li> </ul>
System Memory (the OS is 64-bit)	<ul style="list-style-type: none"> <li>• 6GB+</li> <li>• Dual-Bank.</li> <li>• DDR3-1333(PC3-10600)/1600(PC3-12800), or faster.</li> <li>• For a virtual server, make sure 2GB of vRAM is allocated from a physical host with the above specifications.</li> </ul>
Network Adapter	<p>Must be:</p> <ul style="list-style-type: none"> <li>• Stable.</li> <li>• 100Mbps or faster Ethernet.</li> <li>• PHY/NIC with WHQL-certified device drivers.</li> </ul>

**I. Content Designing tool:**

1.	Content Creation/Composer, Presentation/Layout Maker & Designer Software.
2.	Capability to drag and drop to any layer/Plug-in on the presentation area.
3.	Plug-in Based Architecture / API for allowing easy custom development of new plug-ins
4.	Allow to create unlimited overlapping layers with full transparency control.
5.	Capability to encrypt presentations & capability to Preview your final layout/presentations before publishing it to Player
6.	Should have Unlimited History to go back to any previous state of the presentation while working on
7.	Capability for Masking Support: Apply mask on every element (including videos) to show only the required portion of the element.
8.	Should have capability for RSS Integration: Display RSS feeds intelligently by merging different content with the data received from the feeds.
9.	Capability for Rich Text Support: Create documents with full flexibility with an option use RSS Feeds as well.
10.	Should have the capability for Professional Alpha Key: Ability to specify the alpha key in videos and display on top of any other zone.
11.	Show preview of media created
12.	Choice of Layout Design in landscape-mode or portrait mode and playback in same mode.
13.	Should have External file support: import Power-Point / PPT as WMV video or Adobe (.pdf),
14.	External plugins for Countdown timer in digital clock: Add countdown timer to a particular date and time or for a particular duration in customizable digital format.
15.	External Database Support for XML, Oracle, Google Spreadsheet, Google Calendar, Microsoft Exchange, SQL Server, Excel, CSV, etc.
16.	Synchronization of elements in different zones
17.	Display any kind of textual data from any database source in the form of crawls/scrawl or tabular form.
18.	Should be Capable of Change the live data (from databases) using predefined set of rules/layouts before they are displayed.
19.	Content creator to create layouts and preview the output in real time before transferring/publishing the content.
20.	Multi language input and display support.
21.	Animations capability for layers (including transition animations, movements, effects and time)
22.	Should be Capable to create QR codes.
23.	Database support for Scrolls/tickers.
24.	Separator/image support for Scrolls/tickers.
25.	Capability to add overlays, (picture in picture)
26.	Option to add vertical scrolls with text and pictures.
27.	Should have capability to Show content from Live camera (without using streaming)
28.	Should have capability of creating gradient/Color animations
29.	Background animations
30.	Should have capability on layer transparency control

31.	Should have capability on timeline for layer time control
32.	Should have capability on stopwatch and timer capability.
33.	Should have digital clock with customization for display format. (DD/MM/YY or MM/DD/YY or MM/DD/YYYY HH:mm:ss)
34.	Capability to show world time (analogue/digital) in regional cultures.
35.	Capability to show World weather with support for current conditions, forecast; in regional cultures.
36.	Should have the capability of edit the media files added in layout.
37.	Should have the capability undo or redo any performed activity
38.	Should have the capability to play two or more different contents with single media designing layout
39.	Should have the capability crop videos/web links/ images as per the requirements
40.	Should have the capability combine the multiple layouts and publish them at once rather than individually scheduling different layouts
41.	Should have the capability on supporting following file formats
	o All Standard Images - Tiff/ Jpeg/ BMP etc.
	o Shockwave / Flash/ RSS Feeds
	o Live Analogue Television
	o DVB Format Digital TV
	o Live Video Capture (DVD, Web Cams, CCTV etc
	o Advanced Systems Format/ DivX
	o XML/ Web Pages
42.	Windows Media Formats
43.	MPEG-1 (.mpeg, .mpg, .m1v)
44.	MPEG Audio Layer III (.mp3)
	MPEG Audio Layer II (.mp2, .mpa)/ M3U (.m3u)/ MP4 (.mp4)/ QuickTime Content (.avi, mov.qt)
<b>II. Content Manager/Scheduler/Publisher Software</b>	
2.1	Should be password protected so as to keep the entire network secure.
2.2	Should have Email Alerts capability: Get Notified as soon as the player goes out of reach and get the support team started on recovery process.
2.3	Should allow to Create and manage schedules in visual Timeline and playlist.
2.4	Lock the players and secure them using your own passwords to prevent unauthorized access.
2.5	Should have strong Encrypted and secure communication between content scheduler and players.
2.6	Should allow seeing what's playing: Check the status of current playback and next items in the playlist.
2.8	Should allow grouping/division of the network in groups for ease of publishing: If you want to play the same content on 50 different locations, assign them to a group and schedule the whole group together, no need to add the schedule for 50 locations individually.
2.9	Should support pulling content from FTP server.
2.10	Capability for Multiple Scheduling Options: Playlist (easy) and Time-Based Scheduling (fine-grained) - Control what to play when.



2.11	Playback status/proof of playback of any player (as Reports).
2.12	Should have Built-in SQL Database for easy back-end management of content & player databases and exporting them.
2.13	Should allow Smart publishing of content. The already sent content needs not to be transferred again, only the changes will be transferred automatically.
2.14	Should allow for addition of Multiple Players: Add multiple players of his network in one go.
2.15	Should have an administrative panel for Password management and e-mail triggering.
2.16	Should show live Machine Health: Be aware of how much system is being used Hard Disk space/Memory and other critical Hardware and Software Statistics.
2.17	Should allow to Pre-Transfer Content: Files used for designing the layout can be transferred in the background while the layout is being designed hence saving your time.
2.18	Should have the capability for Intelligent File Transfer technology: Automatic resume of downloads from the point where it was disconnected. If the content files are reused in multiple presentations, they will be transferred only once.
2.19	Complete Player Control: Remotely control when to sleep/hibernate/switch on/off the system or moNIAor at specific time of day.
2.20	Remotely execute RS232 commands on the media players to manage hardware.
2.21	Add files to the playlist that are in the player but not on the server.
2.21	Alerts on content scheduler on Showing emergency/ alert messages, overriding the playback schedule.
2.22	Should have capability on Filter Campaign View for quick overview of player activity
2.23	Manage and specify shutdown/sleep/hibernate/wake-up time for the media players remotely.
2.25	Servers Watchdog reporting
2.26	Centralized control center for all the systems and content.
2.27	Control Panel Dashboard: View live screenshot of all the installed sites in one go.
2.28	Different content should be targeted to individual screens
2.29	Content should be targeted to category or group of screens
2.30	Proof of playback reports
2.31	Should have the software allow customized proof of playback repots as per playlist
2.32	Should have the Proof-of-Playback Reporting available in XML/pdf Format
2.33	Should have capability to be scalable and be able to support a large network of screens which can increase with time
2.34	Should have capability scheduler software have a proven track record in digital signage for at least 5 years or more.
2.35	Should have capability support standard UDP (Universal Data Protocol)/ TCP (Transmission Control Protocol)/ IP (Internet Protocol)/ FTP (File Transfer Protocol) protocols.
2.36	Should have capability to work the given software work on Internet / LAN/WAN/ Broad bands
2.37	Should have capability to allow creation of a pattern based on week days or month
2.38	Should allow option to schedule distribution of playlist at user defined time schedule (for example - from 9 p.m. to 6 a.m. so that the content will be distributed at defined time only)

2.39	Should allow advanced scheduling (Content scheduled to be played on the screen up to years/months/weeks in advance.)
2.40	Should have capability to send remote commands should be targeted to individual screens or group of screens or all the screens as per user choice
<b>III. Digital Signage Player</b>	
3.1	Should have logging of different types like hardware Health and log views
3.2	Capability for Internal Caching of Data: If the internet gets down, all the external data requests will be fulfilled by the internal Cache. The internal cache is updated every time new data is found.
3.3	Capability for Live TV Playback: Player needs to fetch internal/local Live TV feeds and needs to be played as per the schedule given by CM along with local signage content.
3.4	Should have Self-healing mechanism: Player keeps on monitoring the network status of the system, and automatically updates itself on any change in the network or recover from any software level fault
3.5	Secure and Encrypted communication: All the communication with the scheduler is done on a secure channel.
3.6	Password Protected access: The access to player (schedules, content and logs) is password protected. If the scheduler doesn't have the right password for the player, the player is completely locked from access.
3.7	Smart download: Content can be transferred to the player remotely by scheduler or it can be uploaded to an online ftp server. The player automatically checks if the required content necessary to play the presentation is available locally, or else downloads the content from the internet at the background.
3.8	Should have the capability for Real-time rendering of output at time of playback.
3.9	Should have the capability for all sizes of resolution and content Scaling: Players can render in any standard aspect ratio or custom defined aspect ratio.
3.10	Should be able to receive remote commands from server including custom serial commands.
3.11	Should be able to remotely control the devices attached to players via RS 232.
3.12	Should be able to act as a local content repository/FTP In case of Multiple Players at one site.
3.13	Should be able to play the content during content Downloading /distribution from server.
3.14	Should automatically adjust the display according to the resolution of content.
3.15	Should allow the authorized and encrypted server to interrupt and remove live running campaigns on players within seconds.
3.16	Should support multiple Display options: VGA, DVI, HDMI, Display Port
3.17	Capability to avoid re-download of existing asset/media file
3.18	Multi language input and display support.
3.19	Clearing of Old unused files after a pre-defined time period from the clients (Digital Media Player).
3.20	Media player should be capable of multiple videos /live videos/ images/text crawls/ webpages, ext....

## Software's & Definitions:

- **Digital signage software** use Signage software's and LCD/LED display technologies to display content such as digital images, video, streaming media, and information in public places for informational or advertising purposes.
- **Digital Content Designing tool (DCD)** is a Graphical Digital Content creating/designing tool to create multiple contents with combination of images videos streaming contents, to Make the content Dynamic, design great templates and keep your look clean and consistent while letting any internet user easily add content and text
- **Digital Content Manager (DCM)** is a Content/media-management application that can manage, schedule and publish digital media to displays with secured file formats/ encode/encrypt the content; should be easily assessable on web to control the media players content and schedules. And adjust automatic messaging to reflect customer habits and trends based on factors such as price changes, weather, environmental factors, time, day of the week and season, align inventory, specific business objective and historical data to maximize profits. Automated feedback for systems to optimize your messages and to maximize the sales. Automatically adjust the message as the public and the environment changes, which is particularly important when directly measuring the impact of your content on your target audiences
- **Digital Media Player (DMP)** is a hardware endpoint for video decoding and playback of digital media content across connected digital displays. Content includes high-definition, Video walls, live broadcasts or on-demand video, Flash animations, text tickers, and other web content.

## Conceptual Architecture:

This section provides the Digital Signage conceptual architecture to be implemented in the Rural Development & Panchayat Raj Department, Zila Parishad, Government of Maharashtra.

Digital signage solution is a solution for the publishing of dynamic and on-demand signage using digital media displays deployed locally in the hospital over the IP network. The digital signage application is a media management and publishing application that creates a playlist with a set of content that is required to be published to a single or group of DMPs in the network.

The basic digital signage components are:

- Digital Content Designing tool (DCD).
- Digital Media Player (DMP).
- Digital Content Manager (DCM).

The Digital Signs system is centrally controlled by DCM. Media and messages are sent to the displays with minimal control at the endpoint. DCM administrators control what is shown and when it is shown. The connection between the DCM and the DMP should be LAN connectivity, used for delivering instructions to the DMP from the DCM.

Content Layouts/frames designed by DCD graphical tool, these layouts and content will be sent to DCM; DCM holds all reference content/images/videos/external source contents. ext. all these layouts and

content should be sent to respective DMP's as scheduled referenced by the DCM. All VoD streaming requests issued to the DMP are serviced from Streaming server.

Content, messaging, and live or pre-recorded video can be presented on the displays. Video can be displayed in a subset of the screen with Designed scheduled content around it, allowing for messaging and images to be placed around the borders of the screen.

Depending on the digital media applications and the distributed content, appropriate QoS services must be implemented at the network edge that connects media endpoints and in the server farm where typically centralized management and content servers are deployed.

### **Digital Signage Conceptual Architecture:**

Scope of OEM/Technology Provider – End to End Solution at site, Single point of contact from project end.

- Display – LED OOH – out door panels with installation, mounts, support, and services across locations.
- Signage Solution – Hardware, software and digital solution from OEM.
- Hardware – OEM Media Player, single HDMI Port for HD content.
- Software – Single HD Licenses for HD content across LED.
- Content – Based on Raw content, OEM design team will create and publish on display as per schedule.
- Project – Complete components applicable in project take care by OEM project team.
- Service – Complete services of software/Hardware/Display/Content.
- Support – Remote as well at site, depend on severity level so content should be live.
- Helpdesk/SPOC – Allocate team for coordinate with your SPOC for all action and updates.
- Procurement – Any third-party tools required for project; we will take care as per agreed rate card.

### **Implementation Roadmap:**

1. Digital Media Players and Displays deployment at the selected/required places.
2. Digital Content Designing tool (DCD) deployment at different Zila Parishad.
3. Digital Content Manager (DCM)Server deployment.
4. Configuring DMP's with DCM licenses.
5. Developing of the video content to be presented.
6. Upload and organize the content into folders, based on specific criteria.
7. Configure network connections for the digital signage components. Configure switches to support unicast/multicast service.
8. Integrations with Domain Controller.
9. Testing and go-live.

**Annexures for Submission of Bid.**

**Annexure - A**

**Bid Covering Letter**

*(To be Submitted on Bidders Company's letter head)*

**To,**

**The General Manager,**

Broadcast Engineering Consultants India Limited (BECIL),  
(A Government of India Enterprise),  
#162, II Main, Ist Cross, AGS Layout,  
RMV II Stage, Bengaluru-560094.

**Subject: Bid Covering Letter.**

**Dear sir/Madam,**

We, the undersigned, offer to BECIL, for “Design, Build, Operate and Transfer (DBOT) of Digital Signage Solutions across Directorate of Medical Education and Research Infrastructure/ Hospitals/Colleges/Institutes, Government of Maharashtra” in response to the NIA No:....., Dated:...../...../2023.

We are hereby submitting our Proposal, which includes the technical bid and the Commercial Bid.

We hereby declare that all the information and statements made in this technical bid are true and accept that any misinterpretation contained in it may lead to our disqualification.

We undertake, if our Proposal is accepted, to initiate the implementation services related to the assignment not later than the date indicated in the NIA Document.

**Thanking you,**

Place:

Signature of bidder:

Date:

Name in Full:

Designation:

**Self-Declaration: Not Blacklisted.**

*[Affidavit on Non-Judicial Stamp Paper of INR 100 duly attested by Notary/ Magistrate]*

**Declaration by the Bidder**

This is to certify that I/We.....(authorized signatory – it should be Director, or any person specifically authorized. In case of specific authorization, the authority letter is required) of, M/s....., in submission of this offer confirm that:

I/We hereby undertakes that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.

I/We hereby undertakes that I/we do not have records of poor performance such as abandoning the work, not properly completing the contract, inordinate delays in completion, litigation history or financial failures etc.

I/We hereby undertakes that Neither M/s.....nor Business has not been barred or blacklisted by any State/ Semi / Central Government/ Public Sector Undertaking or Enterprise of Central/Semi/State Government at the time of submission of bid or during previous five years.

I/We have submitted all the supporting documents and furnished the relevant details as per prescribed format.

The information and documents submitted with the tender by us are correct and we are fully responsible for the correctness of the information and documents submitted by us.

I/We hereby declare that all the information and statements made in this tender are true and accept that any misinterpretation contained in it may lead to our disqualification.

I/We hereby authorize BECIL, in case any false undertaking/facts/document are found in our bid, to cancel our bid and take further action as per rule.

**Thanking you,**

Date: Signature of Authorized Signatory.....

Place: Name of the Authorized Signatory.....

Designation: Name of the Organization .....

**Format of Authorization Letter for Signing the Bid Document on Behalf of Bidder.**

*(To be Submitted on Bidders Company's letter head)*

**To,**

**The General Manager,**

Broadcast Engineering Consultants India Limited (BECIL),

(A Government of India Enterprise),

#162, II Main, Ist Cross, AGS Layout,

RMV II Stage, Bengaluru-560094.

**Subject:** Notice Inviting e-Tender Through GeM Portal (Forward Auction) For Digital Signage Solutions across Directorate of Medical Education and Research Infrastructure/ Hospitals/ Colleges/ Institutes, Government of Maharashtra.

**Ref: NIA No:** \_\_\_\_\_.

**Dear Sir,**

We, [bidder's company's name and address] hereby authorize Sri/Smt .....to sign, bid, negotiate and conclude the contract with BECIL on behalf of us against subject NIA floated on your behalf for **Notice Inviting Tender (NIA) for Selection of Agencies in BECIL for Design, Build, Operate and Transfer (DBOT) of Digital Signage Solutions across Directorate of Medical Education and Research Infrastructure/ Hospitals/ Colleges/ Institutes, Government of Maharashtra** for the equipment/items supplied by us.

**Yours faithfully,**

Authorised Signatory:

Name:

Place:

Date:

Verified Signature by  
Director/CEO.

**Acceptance of Terms & Conditions**

*(To be Submitted on Bidders Company's letter head)*

**To,**

**The General Manager,**

Broadcast Engineering Consultants India Limited (BECIL),

(A Government of India Enterprise),

#162, II Main, Ist Cross, AGS Layout,

RMV II Stage, Bengaluru-560094.

**NIA Title:** Notice Inviting e-Tender Through GeM Portal (Forward Auction) For Digital Signage Solutions across Directorate of Medical Education and Research Infrastructure/ Hospitals/ Colleges/ Institutes, Government of Maharashtra.

**NIA Reference No.:** \_\_\_\_\_.

**Dear sir/madam,**

I have carefully and thoroughly gone through the Terms & Conditions along with scope of work contained in the NIA Document..... regarding "Design, Build, Operate and Transfer (DBOT) of Digital Signage Solutions across Directorate of Medical Education and Research Infrastructure/ Hospitals/Colleges/Institutes, Government of Maharashtra".

I declare that all the provisions/clauses including scope of work of this NIA Document are acceptable to my company. I further certify that I am an authorized signatory of my company and am, therefore, competent to make this declaration.

**Thanking you,**

Place:

Signature of bidder:

Date:

Name in Full:

Designation:



**Details of Works/ Services of Similar Nature Carried Out by The Bidder During the Last 3 Years.**

*(To be Submitted on Bidders Company's letter head)*

SL. No.	Name of the Customer	Description of work	Value of work	From	To	Remarks

**Note:** Photocopy of Performance Certificate/Completion Certificate of customer in Support of the work mentioned above is required to be enclosed.

Place:

Signature of bidder:

Date:

Name in Full:

Designation:

**General Information of The Bidder.***(To be Submitted on Bidders Company's letter head)*

<b>SL. No.</b>	<b>Particulars</b>	<b>Details of the bidder</b>
1.	Name and Address of the bidder.	
2.	Name and Designation of the concerned officer or authorized person to whom all references shall be made.	
3.	Fax Nos.	
4.	Phone Nos./ Mobile Nos.	
5.	e-Mail ID:	
6.	Head of the organization and his/her contact details viz E-mail ID and Telephone.	
7.	Type of the Organization (Public Sector/ Private limited/ Partnership/ Proprietary/ Society/ Any other).	
8.	No. of the offices/ Centres with address (Enclose the list).	
9.	Bidder's Proposal Number and Date.	
10.	Particulars of past experience of similar works furnished.	
11.	Name and address of local representative at Maharashtra, if any.	
12.	Any other information that bidder may like to give in order to highlight his bid.	

Place:

Signature of bidder:

Date:

Name in Full:

Designation:

**CA Certificate of Average Annual Turnover & Net-Worth.***(CA Certificate, With UIDN No)*

The bidder shall indicate herein his annual turnover from similar work during preceding 3 years based on the audited balance sheet/profit and loss account statement.

SL. No.	Particulars	FY 2020-21 Rs. (In Lakhs)	FY 2021-22 Rs. (In Lakhs)	FY 2022-23 Rs. (In Lakhs)
1	Annual Turnover			
2	Average Annual Turnover			
3	Positive Net worth			

**Note:**

1. Copies of audited balance sheets with profit and loss account of past 3 years shall be submitted along with the technical bid in support of above entries.

Place:

Signature of Auditor:

Date:

Name in Full:

UIDN No:

**Performance Bank Guarantee.***(To be Submitted on Bankers letter head)***From:****Bank:** \_\_\_\_\_,**To,****The Chairman and Managing Director,**

Broadcast Engineering Consultants India Limited,

Under Ministry of Information &amp; Broadcasting,

Government of India, New Delhi.

**Dear Sir,**

Whereas you have entered into a contract No..... Date..... (hereinafter referred to as the said Contract with M/s....., hereinafter referred to as the "Contractor/Supplier" for supply of services as per Part-II of the said contract to the said contractor and whereas the contractor/supplier has undertaken to produce a bank guarantee for 05% of total Contract value amounting to.....to secure its obligations to The Chairman and Managing Director.

We the.....bank hereby expressly, irrevocably and unreservedly undertake and guarantee as principal obligors on behalf of the contractor/supplier that, in the event that The Chairman and Managing Director declares to us that the services have not been provided according to the Contractual obligations under the aforementioned contract, we will pay you, on demand and without demur, all the any sum up to a maximum of ..... Rupees.....only.

Your written demand shall be conclusive evidence to us that such repayment is due under the terms of the said contract. We undertake to effect payment upon receipt of such written demand.

We shall not be discharged or released from this undertaking and guarantee by any arrangements, variations made between you and the Contractor/supplier indulgence to the Contractor/Supplier by you, or by any alterations in the obligations of the Contractor/Supplier or by any forbearance whether as to payment, time performance or otherwise.

In no case shall the amount of this guarantee be increased.

This guarantee shall remain valid for months from the effective date of contract according to the contractual obligations under the said contract.

Unless a demand or claim under this guarantee is made on us in writing or on before the aforesaid expiry date as provided in the above referred contract or unless this guarantee is extended by us, all your rights under this guarantee shall be forfeited and we shall be discharged from the liabilities hereunder.

This guarantee shall be a continuing guarantee and shall not be discharged by any change in the constitution of the bank or in the constitution of M/s .....

**Self-Declaration for The Code of Integrity.**

*(To be Submitted on Bankers letter head)*

I / We declare that the information given above are true to the best of my/our knowledge. I / we also understand that if at any stage it is found/noticed by the BECIL that any information thus provided by me / us is untrue / incorrect partly or fully and in case of receipt of adverse /Unsatisfactory report from other clients/Bankers, the BECIL may not consider my/ our application and/or may reject me/ us and /or may take any appropriate action against us.

I/We also understand that partly / wrongly filled application and / or applications not in prescribed pro-forma and / or applications not accompanying relevant documents / enclosures / annexed documents are liable to be summarily rejected by the BECIL.

I / We also declare that I / we will not get myself / ourselves registered as vendor(s) in BECIL in more than one name.

I/ We agree and authorize the BECIL to obtain the confidential report from my / our clients, to obtain credit opinion from the BECIL and to verify the work executed by us.

I/ We submit all the documents as mentioned in the Eligibility Criteria for Selection. I/we shall submit additional documents whenever asked for by BECIL.

I/ We confirm that all the Rules prevailing in the concerned state, the Labour Laws, Risk Insurance obligations, Central, State & Semi Govt statutory requirements etc are complied by me/ us.

I/We understand that this is merely an application and does not entitle me / us to be necessarily qualified by the BECIL and the BECIL reserves the right to reject all and / or any application without assigning any reason whatsoever.

Place:

Signature of bidder:

Date:

Name in Full:

Designation:

**Arbitration Clause - Indigenous Private Bidders.**

*(To be Submitted on Bankers letter head)*

All disputes of differences arising out of or in connection with the present contract including the one connected with the validity of the present contract, or any part thereof should be settled by bilateral discussions.

Any dispute, disagreement of question arising out of or relating to this contract or relating to construction or performance (except as to any matter the decision or determination whereof is provided for by these conditions), which cannot be settled amicably, shall within sixty (60) days or such longer period as may be mutually agreed upon, from the date on which either party informs the other in writing by a notice that such dispute, disagreement or question exists, will be referred to a sole Arbitrator.

Within (60) days of the receipt of the said notice, an arbitrator shall be nominated in writing by the authority agreed upon by the parties.

The sole Arbitrator shall have its seal in New Delhi or such other place in India as may be mutually agreed to between the parties.

The arbitration proceedings shall be conducted under the Indian Arbitration and Conciliation Act, 1996 and the award of such Arbitration Tribunal shall be enforceable in Indian Courts only.

Each party shall bear its own cost of preparing and presenting its case. The cost of arbitration including the fees and expenses shall be shared equally by the parties, unless otherwise awarded by the sole arbitrator.

The parties shall continue to perform their respective obligations under this contract during the pendency of the arbitration proceedings except in so far as such obligations are the subject matter of the said arbitration proceedings.

**Note:** In the event of the parties deciding to refer the dispute/s for adjudication to an Arbitral Tribunal then one Sole Arbitrator shall be appointed by CMD, BECIL and the case will be referred to the Indian Council of Arbitration (ICADR) for nomination of the third arbitrator. The fees of the arbitrator appointed by the BECIL shall be borne by each party and the fees of the third arbitrator, if appointed, shall be equally shared by the Customer and Contractor.

Place:

Signature of bidder:

Date:

Name in Full:

Designation:

**Bidder Declaration**

*(To be Submitted on Bankers letter head)*

**To,**  
**The General Manager,**  
Broadcast Engineering Consultants India Limited (BECIL),  
(A Government of India Enterprise),  
#162, II Main, I Cross, AGS Layout,  
RMV II Stage, Bengaluru-560094.

**NIA Title:** Notice Inviting e-Tender Through GeM Portal (Forward Auction) For Digital Signage Solutions across Directorate of Medical Education and Research Infrastructure/ Hospitals/ Colleges/ Institutes, Government of Maharashtra.

**NIA Reference No.:** \_\_\_\_\_.

**Dear sir/madam,**

I/We hereby certify that the information furnished above is true and correct to the best of my / our knowledge and I have read and understood the terms and conditions contained in the NIA document. I/We understand that in case any deviation is found in the above statement at any stage, I / We will be blacklisted and will not have any dealing with the in future.

Place:

Signature of bidder:

Date:

Name in Full:

Designation:

**Check List***(To be Submitted on Bidders Company's letter head)*

<b>SL. No.</b>	<b>Description</b>	<b>Compliance/Confirmation by Bidder (Tick Yes or No)</b>	<b>Please Indicate Page No. of the Bid Document</b>
1.	Company Registration Certificate.		
2.	Certificate of Incorporation		
3.	GST Certificate		
4.	Company PAN		
5.	List of Office address in India & office/representative in Maharashtra.		
6.	Memorandum of Article (MoA) and Article of Association (AoA) Documents.		
7.	ISO certificate if any.		
8.	GEM Registration certificate.		
9.	Client/Customer list (Govt./PSU) along with PO copy.		
10.	Authorization letter for signing the bid document on behalf of the bidder.		
11.	Bid Covering Letter stating clearly that all the terms and conditions of this NIA are accepted.		
12.	Self-Declaration: Not Blacklisted certificate.		
13.	Authorization Letter for Signing the Bid Document on Behalf of Bidder.		
14.	Acceptance of Terms & Conditions.		
15.	Works/ Services of Similar Nature Carried Out by The Bidder During the Last 5 Years.		
16.	General information of the bidder.		
17.	CA Certificate of Average Annual Turnover & Net-Worth.		
18.	Performance Bank Guarantee.		
19.	Company Registration copy.		
20.	Self-Declaration for The Code of Integrity.		
21.	Arbitration Clause - Indigenous Private Bidders.		
22.	Bidder Declaration.		
23.	Bid Security Declaration Form.		
24.	Any Other document bidder would like to attach		

Place:

Signature of bidder:

Date:

Name in Full:

Designation:



**Bid Security Declaration Form***(To be Submitted on Bankers letter head)*

**To,**  
**The General Manager,**  
Broadcast Engineering Consultants India Limited (BECIL),  
(A Government of India Enterprise),  
#162, II Main, Ist Cross, AGS Layout,  
RMV II Stage, Bengaluru-560094.

**Subject:** Notice Inviting e-Tender Through GeM Portal (Forward Auction) For Digital Signage Solutions across Directorate of Medical Education and Research Infrastructure/ Hospitals/ Colleges/ Institutes, Government of Maharashtra.

**Ref: NIA No:** \_\_\_\_\_.

**Dear Sir,**

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of THREE years from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

- a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or
- b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Place:

Signature of bidder:

Date:

Name in Full:

Designation:

**List of Office Address/Divisional Office Address Across Maharashtra***(To be Submitted on Bidders Company's letter head)*

<b>SL. No.</b>	<b>Office Address</b>	<b>Representative Name</b>	<b>Contact Number</b>	<b>Email ID</b>	<b>Additional Info if any</b>

Place:

Signature of bidder:

Date:

Name in Full:

Designation:

**Terms and Conditions - Compliance***(To be submitted as part of NIA)***To,****The General Manager,**

Broadcast Engineering Consultants India Limited (BECIL)

(A Government of India Enterprise)

#162, II Main, Ist Cross, AGS Layout, RMV II Stage,  
Bengaluru-560094.**NIA No:** BECIL\RO\DMER\SIGNAGES\2023-24\001 Date: 15.09.2023**• Minimum specification required from the bidder for Outdoor LED Panel of Size 12\*8 Sqft:**

Technical Specification					Compliances (Yes/ No)	Deviation if Any
Module	Pixel Pitch	8.0 mm	Pixel Density	15625Dots/ m <sup>2</sup>		
	Configuration	1R1G1B	LED Lamp	SMD3535		
	Size (Width*Height*Depth)	320*160*19mm	Weight	0.48kg ± 0.01kg		
	Structure	Lamp & IC in same PCB	Resolution	40*20 = 800 Dots		
	Input Voltage (DC)	4.5 ± 0.1V	Maximum Current	≤ 9.85A		
	Power Consumption	≤ 44W	Driving Method	Constant Current 1/5 Scan		
	40A Power Consumption for	2-3 pcs module	80A Power supply for	5-6 pcs module		
	40A PFC Power supply for	3-4 pcs module	-	-		
Cabinet (Magnesium Cabinet)	Cabinet Size (Width*Height*Thickness)		960mm*960mm*169.5mm (with module, cabinet, connecting plate)			
	Cabinet Pixel Density		120*120 = 14400 Dots			
	Cabinet Area		0.9216 m <sup>2</sup>			
	Cabinet Weight		30 kg ± 0.5 kg			
	Cabinet Max Power Consumption		≤ 798W			
	Average Power Consumption (1/3 Max)		≤ 266W			

	Distribution Power (Power Supply Capacity 78%)		≤ 1023W			
Screen	Brightness	≥4500cd/ m <sup>2</sup>	Brightness Uniformity	> 0.95		
	Horizontal Viewing Angle	140 ± 10 degree	Vertical Viewing Angle	130 ± 10 degree		
	Best Viewing Distance	≥ 8.0m	Black Spot Ratio	< 0.0003		
	Max Power Consumption	≤ 866W/ m <sup>2</sup>	Operation Environment	Outdoor		
	Grayscale	12-14bits (RGB each)	Display Color	4398 billion		
	Frame Frequency	≥ 60 frame/sec	Refresh Frequency	≥ 960 Hz		
	Control Mode	Computer control, Point-to-point	Brightness Adjustment	256-grade manual / automatic		
	Life Span	≥ 100,000 hours	Average Failure Free Time	≥ 10,000 hours		
	Attenuation (3 years later)	≤ 15%	Operating Humidity	10% - 90% RH		

• **Minimum specification required from the bidder for Indoor LED Panel of Size 55” to 85”:**

Technical Specification		Compliances (Yes/ No)	Deviation if Any
Display Size in Inches'	55" to 85"		
Panel Technology	IPS/VA		
Aspect Ratio	16:9		
Native Resolution	1920 X 1080p (FHD)		
Brightness	450 NIAs or better		
Interfaces	USB 2.0 (2), HDMI (3), Audio jack 3.5mm (1)		
Operation Hours	16 hrs a day		
Operation Temperature	0°C to 50°C		
Power Supply	100-240 V, 50/60 Hz		
Safety	BIS Compliant		
Electrical standards	BIS Compliant		
Installation	Wall mount installation with necessary wall mounting kit.		
Accessories	HDMI cable 5m and HDMI to DP converter, remote controller, installation guide.		

- **Hardware and Software requirements of Media Player:**

Technical Specification		Compliances (Yes/ No)	Deviation if Any
CPU	Intel Celeron N3160		
GPU	Intel HD Graphics		
Operating System	Windows 10 IOT		
Memory	4GB DDR3L		
Storage	128 GB SSD		
Power	12V DC In		
HDMI	1 x HDMI		
Network	2 X Gigabit Ethernet, Wi-Fi Module		
Antenna	2 x external Antenna		
I/O ports	4 X USB 3.0, 1 x USB 2.0		
Dimensions (WxHxD)	175 mm x 127 mm x 39 mm		
Net Weight	800 g		
Storage Temp	0° to 70 °C		
Working Temp	-20 ° to 80 °C		
Chassis	Black colour aluminium		

We shall comply with, abide by, and accept without variation, deviation, or reservation all terms and conditions of the NIA Document.

Place: Signature of bidder:

Date: Name in Full:

Designation: