

## PANCHAYAT SAMITI OFFICE, KHARIAR

### Notice Inviting Tender

No. 4804 / Dated: 18-8-21

Sealed Item rate tenders are invited in 'Double covers system' by Block Development Officer, Panchayat Samiti, Khariar, Dist-Nuapada from intended reputed Firms/Agencies/OEMs for Supply, Installation & Commissioning of (**Interactive Flat Panel-Digital Education Board for Smart Class Room**) to 4 nos. of High Schools under Sinapali Block as per specifications in the tender notice under "**5Ts High School Transformation Programme**" of Govt. Of Odisha for the year 2021-22, having valid GST certificate, PAN card and required test certificates in conformity with the detailed tender call notice.

The bid documents consisting of detailed specifications(Annexure-I), schedule of quantity and a set of terms and conditions and also other necessary documents require to be submitted along with the bid document can be seen and downloaded till 5.00pm of the last date of sale of bid documents which is available in the district portal <http://nuapada.nic.in>. The bids downloaded from district portal must be submitted with tender paper cost of **Rs.6000/-** (Rupees Six Thousand ) only in shape of demand draft (non refundable) in favor of **BDO Sinapali**, payable at **SBI, Khariar** otherwise the bid will be liable for rejection.

Bids must be accompanied with required EMD @1% of the total bid value as put to tender in the **financial bid** by the concerned bidder in shape of demand draft, duly pledge in favor of **BDO Khariar** payable at **SBI, Khariar** . Bids without E.M.D or in other shape will not be considered and liable for rejection. The EMD of the unsuccessful bidders shall be refunded.

Bidders are required to submit the Technical bids and Financial bids in separate sealed envelopes super-scribing "**Technical bid**" and "**Financial bid**" and finally enclosing in a large envelope super-scribing "**Tender for Supply, Installation & Commissioning of (Interactive Flat Panel-Digital Education Board for Smart Class Room) For High Schools Under-"5Ts High School Transformation Programme"** along with self attested photograph of the samples of the items requires to supply.

The bid documents are made available in the website from **21.08.2021, 5.30PM** and closes on dated **01.09.2021 till 5 PM**. The bid documents will be received up to **04.09.2021 till 5 PM** through **Registered/Speed** post only. Tenders received through any other mode shall not be accepted. Bids will be opened on **05.09.2021 at 11.00 AM** in the Office of the BDO, KHARIAR in the presence of the bidder(s) and/or their authorized representatives. The financial bids of unsuccessful bidders who fails in technical bids will not be opened.

Tenders received after due date and time shall not be accepted. **Panchayat Samiti, Khariar** shall not be held responsible for any postal delay or delay due to any other reason(s) beyond its control. The tenders/bids sent through electronic means / Courier shall not be accepted. Any corrigendum/addendum (if any) will be uploaded in the above-mentioned website.

The bids incomplete in any shape shall not be accepted at any cost and liable for rejection.

The Tender Committee reserves the right to accept/reject any or all tenders/bids without assigning any reason thereof. **For any queries, the undersigned may be contacted within office hour (10AM to 5PM) Except on Govt Holidays.**

Address:- PANCHAYAT SAMITI OFFICE, KHARIAR  
At/PO.- Khariar, DIST-NUAPADA  
Mobile No:-  
Email-ori-khariar@nic.in

  
Block Development Officer,  
Khariar

**Supply & Installation of “Interactive Flat Panel-Digital Education Board” for Smart Class Rooms for High School Transformation under-5Ts**

**Important Dates**

|   |  |   |
|---|--|---|
| 1 | Date of hoisting of the bid document on website of District-Nuapada. | 21/08/2021 from 10.30 AM TO 01.09.2021 AT 5.30 PM |
| 2 | Date for Download of the bid documents from website.                 | 21/08/2021 FROM 10.30AM TO 01.09.2021 5.30 PM     |
| 3 | Last date & Time for receipt of completed bid documents.             | 04/09/2021, 5 PM                                  |
| 4 | Date & Time of opening of Bid document                               | 05/09/2021, 11.00AM                               |

**Checklist of Documents**

| Sl. No. | Particulars of Item   | Status (Yes/No) |
|---------|---|-----------------|
| 1       | Copy of valid Company Registration Certificate and GST Registration Certificate.  |                 |
| 2       | Copy of audited balance sheet and profit and loss account for FY 2017-18, FY-2018-19, FY 2019-20, clearly indicating the turn over.   |                 |
| 3       | Work experience certificate from authorized office not below the rank of Class-I Officer/ copy of work order/ copy of agreement in support of execution of similar nature of works. |                 |
| 4       | Proof of Experience/Contracts.  |                 |
| 5       | Photo copy of the Income Tax Clearance Certificate /PAN card of the supplier/OEM etc.   |                 |
| 6       | Original Money receipt/ Demand Draft as proof of cost of Tender paper.  |                 |
| 7       | EMD @1% of the total bid value as put to tender in the financial bid by the bidder in shape of DD.  |                 |
| 8       | Undertaking for capacity to deliver and onsite installation in stipulated time frame.   |                 |
| 9       | Undertaking for not blacklisting.   |                 |
| 10      | Undertaking for no pending legal cases.   |                 |
| 11      | Bid Processing Fees of Rs 1,500 in shape of DD(Non-refundable).   |                 |
| 12      | Proof of Original/Own Equipment manufacturing Unit.   |                 |
| 13      | Authorisation certificate for channel partners from registered OEMs   |                 |
| 14      | DIC Certification on production facilities.   |                 |
| 15      | Bank Account Details (Self attested 1 <sup>st</sup> page of the Pass Book showing the details of the A/c holder & Blank-cancelled Cheque to be attached)                            |                 |
| 16      | Warranty Certificate in support of qualitative supply.  |                 |

## FINANCIAL BID

| SL.No. | Name of the items with specification  | Unit in Nos.) | Price Quoted per unit in Rs. Inclusive of all taxes | Transportation/Installation Charges if any | Total price/ per unit | Qty.of Supply of as per Bid(nos.) | Total Bidding Price for the Qty of supply |
|--------|---|---------------|---|--|-----------------------|-----------------------------------|---|
| 1      | 2   | 3             | 4   | 5  | 6                     | 7                                 | 8   |
| 1      | Interactive flat Panel-Digital Education Boards with front siding white board(2mm) in gold brown Aluminium Channel.(Closed loop)                                    | 1no           |   |  |                       | 4no                               |   |
| 2      | Smart Class Room furniture of combination of square cross section m s stell and Laminate board top front jalli WITH Back rest(2seater)                              | 1no           |   |  |                       | 84NO                              |   |
| 3      | Power break up online ups system of 5.5kw with Exide battery & Microtel UPS/Exide UPS WITH INSTALLATION   | 1no           |   |  |                       | 1NO                               |   |
| 4      | H.P/DELL /ANY OTHER BRANDED DESKTOP COMPUTER WITH OS WINDOWS 10(REGISTERED VERSION) 10 <sup>th</sup> GENERATION 8GB. RAM 1TB HDD I10 PROCESSOR                      | 1no           |   |  |                       | 5NO                               |   |
| 5      | H.P/DELL /ANY OTHER BRANDED Laptop 14 inch above display with 10 <sup>th</sup> generation and above,8GB RAM ,1TB HDD/SSD I-5 PROCESSOR                              | 1no           |   |  |                       | 2NO                               |   |
| 6      | H.P/DELL /ANY OTHER BRANDED of computer tablet- 10.1"DISPLAY,4GB RAM IPS DISPLAY,ADROID 8.1 AND ABOVE QUALCOMM 700 ABOVE SERIES/EXYNOS -7000 ABOVE SERIES PROCESSOR | 1no           |   |  |                       | 2NO                               |   |
| 7      | Book rack of 7' x 4' size made of ply wood with Formica finish ,fittings wall mounted   | 1no           |   |  |                       | 40 NO                             |   |
| 8      | Material fixing on wall of E-library Study table of 40"/8" size with laptop charging facility,  | 1no           |   |  |                       | 1NO                               |   |
|        | Study table of 15' x 6' size with laptop charging facility  | 1no           |   |  |                       | 1NO                               |   |
| 9      | Charge Facility Partion wall for E library 15' X 5' with electric   | 1no           |   |  |                       | 1NO                               |   |

|    |   |     |  |  |  |            |  |
|----|---|-----|--|--|--|------------|--|
|    | installation  |     |  |  |  |            |  |
| 10 | Computer table  | 1no |  |  |  | <u>5NO</u> |  |
| 11 | Computer Chair , Almira for books with front Glass            | 1no |  |  |  | <u>6NO</u> |  |
| 12 | Chair for Study table   | 1no |  |  |  | <u>5NO</u> |  |
| 11 | High speed WIFI Internet arrangement for all system including | 1no |  |  |  | <u>2NO</u> |  |
| 13 | Routr. Internet connection for 3yrs subscription              | 1no |  |  |  | <u>2NO</u> |  |
| 14 | E-Library Subscription for 1 year                             | 1no |  |  |  | <u>1NO</u> |  |

Total bidding price (including taxes and other charges is Rs.....  
(Rupee.....) in words.

We agree to supply the above goods in accordance with the technical specification for the amount mentioned above within a period of 1 months from the receipt of the supply order.

N.B:- (a) in case of discrepancy between unit price and total price, the lowest price among them shall be prevail.

(b) We agree to other terms and conditions of the tender and also confirmed we will provide the materials as per the standard specified in the document.

Place:-

Date:-

**Full signature of the Bidder  
with date and seal.**

**N.B:- The requirements are purely tentative and may vary and the bidder shall be prepared to supply the equipments per our requisition.**

| Specification for Supply of "Interactive Flat Panel Board" for Digital Education of reputed brand like LG/SAMSUNG/SONY/CYBERNETYX/TATA CLASSEGE/OPTAMA & similar qualitative brands |  |   |  |
|---|--|---|--|
| Parameters  | Parameter  | Specification   |  |
| Display   | Active Screen Size   | 65"   |  |
|   | Resolution   | 3840*2160   |  |
|   | Aspect Ratio   | 16:09   |  |
|   | Backlight type   | D-LED   |  |
|   | Brightness (typ.)/(min)  | 450 cd/m <sup>2</sup> /nits   |  |
|   | Contrast Ratio   | 1200:1  |  |
|   | Viewing angle  | 178°  |  |
|   | 4K UHD resolution, Antiglare glass, Ambient Light sensor and cTUVus eye comfort certification for low blue light and flicker free. |   |  |
| Touch Systems   | Touch Points   | 20  |  |
|   | Touch Tool   | stylus or finger  |  |
|   | Response Time  | < 10ms  |  |
|   | Accuracy   | ±1mm  |  |
|   | Minimum object size  | 1.6 mm  |  |
|   | Surface Hardness   | 4mm toughened glass with level 7 of Mohs Standard(Anti glare scratch resistance)                                |  |
| I/O ports for Interactive Display   | HDMI IN 2.0  | 2   |  |
|   | HDMI OUT 2.0   | 1   |  |
|   | USB ports  | 4 (2 x USB2.0 , 2 x USB3.0)   |  |
|   | Touch Out  | 2 (Touch USB type B)  |  |
|   | VGA In   | 1   |  |
|   | Audio In   | 1   |  |
|   | AV in  | 1   |  |
|   | Audio Out  | 1(earphone out)   |  |
|   | RS232 IN   | 1   |  |
|   | RJ45 IN  | 1   |  |
|   | LAN Ports  | 1   |  |
| Audio   | Built-in Speaker   | 2*16W(Stereo)   |  |
|   | Extra Speaker  | Provision for 4 (or as per room size)   |  |
| Android System  | Android version  | Android 8.0   |  |
|   | RAM  | 4GB   |  |
|   | ROM  | 32GB  |  |
|   | Graphics   | Quad core Mali-G51  |  |
|   | Wireless Connectivity  | Bluetooth, Wi-fi  |  |
| Power Consumption   | Power Requirements   | 100-240V AC   |  |
|   | Standby Power  | Stand-by Mode<0.5W  |  |
|   | Power Consumption  | Maximum<220W  |  |
|   | Power Consumption Eco Mode   | Eco<125W  |  |
| Built-in AI Enabled Microphone Features   | No. of Built-in Microphone   | Mic Array of 4 MEMS Microphones   |  |
|   | Integrated Voice DSP Features  | 4- mic adaptive beam-former Full-duplex Acoustic Echo Cancellation (AEC) with barge-in support (up to 50dB att) |  |
|   |  | De-reverberation,   |  |
|   |  | Automatic Gain Control (AEC)  |  |
|   |  | VAD (Voice Activity Detection) and DOA (Direction of Arrival)   |  |
| Noise suppression (up to 15dB att.),  |  |   |  |
| Built in -AI Based Camera for   | Camera Resolution  | 4K Sensor. support 4K UHD (3840 x 2160)   |  |
|   |  | Full HD (1920x1080) & HD (1,280x720)  |  |

|                                    |   |  |
|------------------------------------|---|--|
| <b>CBMS &amp; Virtual Tutoring</b> | Camera View Angle   | 110° Distortion-free wide angle, with Dynamic exposure adjust.       |
|                                    | AI Features   | Face Detection.  |
|                                    |   | Auto attendance  |
|                                    |   | Analyze students' perceived attention                                |
|                                    | Analyze students' emotional state, happy, enjoying, bored, sad etc. |  |
| <b>OPS</b>                         | Processor   | Intel Core i5, 8250U, (6MB smart cache), 1.6GHz, Max Turbo frequency |
|                                    | RAM   | 8GB DDR4 or above  |
|                                    | Storage   | 128 GB SSD + 1TB HDD   |
|                                    | OS  | Windows 10 Professional  |
|                                    | Graphics  | Intel USD graphics 620   |
|                                    | Wi-fi   | (Dual Band 2.4 & 5.0) (802.11 ac)                                    |
|                                    | Connectivity  | HDMI (1), USB 2.0 x4, LAN, Audio in, Speaker out                     |

## **Interactive Teaching Software Specification:**

A full-fledged interactive software suite / Teaching App must be bundled with interactive panel with the following features:

- **Teaching Tools:**
  - Must have Mathematics tools (like Ruler, compass, and protractor)
  - Must have Writing recognition for complex Mathematical equations that even solves complex calculations
  - Must have Hand-Writing recognition in English words with suggestions.
  - Teaching app must be able to open office documents (like word, excel, PowerPoint and PDF) within the app,
  - Should be capable to annotate and take screenshot on any 3rd party applications running on Windows OS
- **Content Creation platform & Lesson Planning:**
  - Teaching app must have Built-In access to teaching academy with access to wide range of resources, curates for different curriculum
  - Built-in teaching assistant that can search for education content on any topic in the form of pictures, videos and text.
  - Teaching app must have built in Screen recording
- **Content Sharing & collaboration:**
  - Teaching app must be able to share lesson to all students with single button click
  - Should have built-in wireless mirroring function.
- **Provision for Students to attend classroom from anywhere**
  - Students should be able to collaborate on virtual whiteboard from their devices.
  - Student should be able to access lesson shared by teachers on their Android and iOS Device. And learn at their own pace and time.
  - Students should have access to Free educational resources to our other curriculums.
- **Provide Secure, Live virtual instructions**
  - using built-in video tutoring and audio tutoring functionality without depending on any 3<sup>rd</sup> party app.
- **Assign Syllabus or create customized curriculum**
  - Should be able to provide FREE Adaptive content for popular curriculums.
  - Should have Built in Cloud Search tool that provides educational search results.
  - Option to Create custom curriculum.
- **Create lesson plans and Publish to Cloud**
  - Built in content Authoring tool
  - Class Dashboard, to manage published and unpublished lesson
- **Create Assessments and automate grading process**
  - Should have built-in assessment module so that teachers can create Assessment from anywhere. And Create various different kind of question, like MCQs, Multi-select, true/false, Picture select, Text

- type etc.
- Assessment module should have AI enabled module for auto questions generation from any text or paragraph saving time for teachers.
- Students should be able to take assessment from anywhere, anytime.
- Should have feature to grade assessment automatically
- Assessment module must provide Insights & data so that timely action can be taken, and learning outcomes of students can be improved.
- Must have option to create individual student Profiles, which is powered by AI and can generate the learning path for the students and suggest a more relevant content as per student abilities.
- **Managing Attendance and Performance from one place**
  - Should be able to enrol, manage and promote students virtually,
  - Should be able to appoint and manage Teachers, and analyse their performance and attendance virtually.
  - Should be able to create and manage custom courseware
  - Should be able to classroom equipment of all classrooms remotely and get insights on their effective usage.
- **Broadcast Messages from School administration**

**NB:-**

1. All the Hardware should be with 3 years onsite comprehensive replacement warranty from the date of commissioning.
2. Wall Mounting & Installation to be commissioned by the supplier.
3. On-site Technical support for minimum 3 years.
4. As per requirement training to academic faculties to be imparted.
5. Bidders must provide the MAFs (Manufacturer's Authorization Form) for all the equipment's quoted in the proposal.
6. All the OEMs of the offered product/solution of the bidders must have their owned or authorized service/support centre operational for at least last 5 years or more in Odisha. Bidders are required to submit their undertaking supported with confirmation of OEM with details of such service centers in Odisha with contact person, mobile no, address, years of operation of the service centre, supported credentials/orders/customers satisfactory certificate.
7. OEM of Interactive products must have experience of supplying interactive teaching product / technology at least in **5 large projects (with order Qty > 1000 units)** in Govt. Schools / colleges. (Proof required)
8. OEM must have minimum **10,000 or more classrooms deployment** of interactive teaching product / technology in India (Supportive doc required such as, Market Research Report or other documentary evidence etc)
9. OEM of Interactive Flat Panel must have their **own Blended Learning Platform** that must be offered along with the panel to enable the institute to run classroom smoothly post COVID lockdown wherein partial students will be inside the classroom & rests learning from home but can be able to access interactive teaching canvas simultaneously. OEM must have Blended Learning Platform and **Interactive Teaching software development centre** in India (Declaration required).

Any non-compliance of the above service/support centre of the OEMs or its authorized partner shall make the proposal as being unresponsive and may lead to disqualification of the proposal. The Nodal Agency reserves the right to take appropriate action in this regard.

  
Block Development Officer,  
Kharar

## SECTION-I

### 1. Brief Scope of Work:-

Govt. Of Odisha would like to provide Computer Education and Computer Aided Education in the Government High schools in order to ensure/extends the benefits of digital era to nurture its students by providing e-platform. It is expected that it will enable the enhanced learning outcomes by concretising the fundamental concept of learning and also better results in schools. The project would have been funded under the “**5Ts High School Transformation Programme**” Mission of Govt of Odisha.

In this regard, BDO Sinapali is looking for a OEM/ System Integrator who is ready to work with for the specified purpose i.e Supply, Installation & Commissioning of **(Interactive Flat Panel-Digital Education Board for Smart Class Room)** for 2 nos. of High Schools under Sinapali Block as per terms & conditions defined in the bid document. The brief scope of work involves:-

- I. The Projects are to be implemented on a turnkey basis in Schools. The successful bidder's responsibilities include supply, installation of Hardware and requisite software, Supply and Deployment and Training, and other allied accessories in the specified schools.
- II. The successful bidder will be maintaining and up keeping the supplied infrastructure at each location during the project period of 3 year. The bidder has to supply, install and maintain the infrastructure in each of the locations.
- III. The bidder will be responsible for training of teachers (minimum 5) per school. 5 days within 3 Months of establishment, 2 days follow-up after 6 Months of initial training in first year.
- IV. To impart Training of 10 days to 5 teachers per school of integrated computing device. The course will cover hardware handling, navigation of multimedia content and general troubleshooting.

## SECTION-II

### 2. Pre-Qualification/Technical Evaluation Criteria:-

The bidder should meet the following pre-qualification/Technical Evaluation criteria:

- I. The bidder must be a registered company in India, registered under the Companies Act 1956 and should be in existence since last 5 years or more. Consortium in any form is not allowed.
- II. The eligibility of the Bidder will be judged basis its own or the OEMs credentials. Hence, in case of bidder is a channel Partner, the respective OEM has to authorize in writing on its letter head to allow the Partner in using its credentials for eligibility.
- III. OEMs / Channel partners of OEM's can participate in this tender. For execution of orders, OEM may declare in the Manufacturer's Authorization Form) its channel partners who will be treated as supplier.
- IV. The OEMs / Channel partners of OEM's should have executed at least Three single order of Value Rs. 25 Lakh (Rupees Twenty Five Lakh Only) each or more in last three financial years towards supply and installation of Interactive Flat Panel board and peripherals in Govt./ Semi Govt./ Board/ PSU.

- V. The OEM/ Bidder shall have implemented at least one similar project worth Rs. 25 Lakh or more in India. Necessary proof of document needed to be furnished.
- VI. The OEMs / Channel partners of OEM's should have presence in Odisha for last 5 (Five) financial years in the same business area. Documentary evidence with self-attested is to be attached with the bid.
- VII. The OEM / Channel partners should have minimum 05 (Five) OEM certified hardware service engineers in Odisha. The name, Mobile no. Address of the service engineers are to be attached with the bid.
- VIII. The Bidder should have an annual average turnover of Rs. 50 Lakh or above in the last three financial 2017-18, 2018-19 & 2019-20 (Audited balance sheet along with CA certificate is to be submitted ) and aggregate of turnover of last three financial years should be Rs. 1 Crores or above. The Bidder should have positive net worth in the last three financial years 2017-18, 2018-19 and 2019-20. Relevant CA certificate to be submitted.
- IX. The bidder should have executed a single project involving setting-up of Interactive Flat Panel Board for Smart class room, Providing teacher training in at least 20 schools in preceding 3years.
- X. The Bidder should have not been banned / black listed as on date by any Government Agencies / Govt. Department/ Quasi Govt Department / PSU / Board/ council or similar organization on grounds of non-performance, fraud practice, and financial irregularities. A self declaration on the letterhead of the bidder duly signed and stamped by the Authorised Signatory to be submitted.
- XI. OEM should have valid ISO 9001/ISO 27001.
- XII. OEM should have existence in manufacturing, supplying installation and maintaining Interactive Flat Panel Board for Smart Classroom Solution for minimum 5 (Five) years. Copy of Work orders/Completion certificate should be submitted along with bid.
- XIII. Bidders must submit tender specific authorization from the OEM of each of the hardware items including the computing device, isolation transformer and UPS. Bids without such authorizations are liable to be summarily rejected.
- XIV. All hardware items must be quoted with 3 years on site comprehensive manufacturer's replacement warranty. All the Bidders should produce a certificate from the OEMs regarding their acceptance of responsibility of supply, installation and comprehensive maintenance of services during replacement warranty period.
- XV. Tender document must be submitted along with all the relevant documents. This is required to show that the bidder had accepted all the terms and conditions mentioned in this tender document.
- XVI. However, Block/District Authority preserves the right to evaluate the Bidder's performance through the report from any Govt. Department / Quasi Govt. Dept / PSU / Board Council or similar organization at their own discretion or ask the bidder to produce service satisfaction certificate from the customer base mentioned as per above criteria.
- XVII. Tender Specific Authorization Certificate for the supply, installation and maintenance during replacement warranty period from the OEM. The replacement warranty shall include all districts in Odisha.
- XVIII. Technical Brochures of "Items quoted" to be Printed and published in Brochure and / or Web site reference is essential (customised statement on OEM letterhead or likes is not acceptable).
- XIX. Details of service arrangement at all districts of Odisha to be provided.
- XX. The bidder should have valid documentary proof of GST registration and PAN registration number- Self-Certified Copy of PAN /GST registration.

Any non-compliance of the above service/support centre of the OEMs or its authorized partner shall make the proposal as being unresponsive and may lead to disqualification of the proposal. The Nodal Agency reserves the right to take appropriate action in this regard.

  
Block Development Officer,  
Kharlar  


## SECTION-I

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## SECTION-II

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- III. OEMs / Channel partners of OEM's can participate in this tender. For execution of orders, OEM may declare in the Manufacturer's Authorization Form) its channel partners who will be treated as supplier.
- IV. The OEMs / Channel partners of OEM's should have executed at least Three single order of Value Rs. 25 Lakh (Rupees Twenty Five Lakh Only) each or more in last three financial years towards supply and installation of Interactive Flat Panel board and peripherals in Govt./ Semi Govt./ Board/ PSU.

- All the documents submitted by the Bidder shall be self-attested or else will be liable for rejection.
- The delivery shall be made within 30 days from the date of issue of supply order.
- In case the lowest quoted bidder is unable to supply the required number of items in specified period, the committee reserves the right to negotiate with the bidders in L2, L3 etc. in the L1 approved rate.

**13. Opening of Financial Bid:-**

- If the Technical Bid is found complete in all respect and responsive, then the financial bid shall be opened.
- The Financial bids of only the Bidders will be opened whose samples are selected by the evaluation committee (technical).
- Bid shall be awarded to the firm(s) offering the lowest price confirming with bid specification & qualitative supply.

**14. Bid Processing Fee:-**

Apart from cost of tender paper, the bidder shall submit a Bid processing fees of Rs 1,500/- (Rupees One thousand Five Hundreds only) along with Technical Bid failing which the tender will be rejected. It is non-refundable.

**15. Delivery Mechanism:-**

The delivery of the items as per the list of each location shall be made by the bidder at the respective schools. A random quality verification will be conducted at the time of each delivery. If the quality and/or quantity is found to be non-satisfactory, Bidder will be penalized up to 100% of the Order value.

**16. Validity of Tender :-** 60(sixty) days from date of receipt of Bid documents.

**17. Settlement of Dispute:-**

In case of any dispute arises between the supplier and purchaser shall be tried to be resolved amicably by mutual understanding. If the parties fail to resolve the dispute within 21 days shall be settled through arbitration under the jurisdiction of Nuapada Court only as per Indian Arbitration and Conciliation Act-1996.

**18. Bid Price:-**

- The transportation & Installation charges are also to be included in the Bid Price.
- All taxes, duties and other levies payable by the dealer under the contract shall be included in the Bid Price.
- The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.

**18. Payment:-**

Payment shall be made after random inspection of supplied materials by the Inspection team and if found satisfactory and obtaining financial concurrence from the Collector-cum-Chairperson, Mo School Abhiyan, Nuapada.

  
Block Development Officer,  
Khurjar

**Undertaking for Supply, Installation & Commissioning of "Interactive Flat Panel-Digital Education Boards" for Smart Class Rooms**

We confirm that we have the capacity to supply the required items amounting to Rs\_\_\_\_\_ to SINAPALI BLOCK for ( 4 nos. of Interactive Flat Panel-Digital Education Boards for Smart Class Rooms) as per the specification & their requirement in a time frame of 30 days.

For and on behalf of:

\_\_\_\_\_  
\_\_\_\_\_  
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Signature(with Seal)

To:

The Block Development Officer,  
Khariar.

**UNDERTAKING THAT THE FIRM/INSTITUTION IS NOT BLACKLISTED**

We confirm that we are not blacklisted by any Government Institution/CPSE/SLPE/Local Authority.

For and on behalf of:

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\_\_\_\_\_  
\_\_\_\_\_

Signature (with Seal)

To:

The Block Development Officer,  
Khariar

| Specification for Supply of "Interactive Flat Panel Board" for Digital Education of reputed brand like LG/SAMSUNG/SONY/CYBERNETYX/TATA CLASSEGE/OPTAMA & similar qualitative brands |  |   |  |
|---|--|---|--|
| Parameters  | Parameter  | Specification   |  |
| Display   | Active Screen Size   | 65"   |  |
|   | Resolution   | 3840*2160   |  |
|   | Aspect Ratio   | 16:09   |  |
|   | Backlight type   | D-LED   |  |
|   | Brightness (typ.)/(min)  | 450 cd/m <sup>2</sup> /nits   |  |
|   | Contrast Ratio   | 1200:1  |  |
|   | Viewing angle  | 178°  |  |
|   | 4K UHD resolution, Antiglare glass, Ambient Light sensor and cTUVus eye comfort certification for low blue light and flicker free. |   |  |
| Touch Systems   | Touch Points   | 20  |  |
|   | Touch Tool   | stylus or finger  |  |
|   | Response Time  | < 10ms  |  |
|   | Accuracy   | ±1mm  |  |
|   | Minimum object size  | 1.6 mm  |  |
|   | Surface Hardness   | 4mm toughened glass with level 7 of Mohs Standard(Anti glare scratch resistance)                                |  |
| I/O ports for Interactive Display   | HDMI IN 2.0  | 2   |  |
|   | HDMI OUT 2.0   | 1   |  |
|   | USB ports  | 4 (2 x USB2.0 , 2 x USB3.0)   |  |
|   | Touch Out  | 2 (Touch USB type B)  |  |
|   | VGA In   | 1   |  |
|   | Audio In   | 1   |  |
|   | AV in  | 1   |  |
|   | Audio Out  | 1(earphone out)   |  |
|   | RS232 IN   | 1   |  |
|   | RJ45 IN  | 1   |  |
|   | LAN Ports  | 1   |  |
| Audio   | Built-in Speaker   | 2*16W(Stereo)   |  |
|   | Extra Speaker  | Provision for 4 (or as per room size)   |  |
| Android System  | Android version  | Android 8.0   |  |
|   | RAM  | 4GB   |  |
|   | ROM  | 32GB  |  |
|   | Graphics   | Quad core Mali-G51  |  |
|   | Wireless Connectivity  | Bluetooth, Wi-fi  |  |
| Power Consumption   | Power Requirements   | 100-240V AC   |  |
|   | Standby Power  | Stand-by Mode<0.5W  |  |
|   | Power Consumption  | Maximum<220W  |  |
|   | Power Consumption Eco Mode   | Eco<125W  |  |
| Built-in AI Enabled Microphone Features   | No. of Built-in Microphone   | Mic Array of 4 MEMS Microphones   |  |
|   | Integrated Voice DSP Features  | 4- mic adaptive beam-former Full-duplex Acoustic Echo Cancellation (AEC) with barge-in support (up to 50dB att) |  |
|   |  | De-reverberation,   |  |
|   |  | Automatic Gain Control (AEC)  |  |
|   |  | VAD (Voice Activity Detection) and DOA (Direction of Arrival)   |  |
| Noise suppression (up to 15dB att.),  |  |   |  |
| Built in -AI Based Camera for   | Camera Resolution  | 4K Sensor. support 4K UHD (3840 x 2160)   |  |
|   |  | Full HD (1920x1080) & HD (1,280x720)  |  |

### **Interactive Teaching Software Specification:**

A full-fledged interactive software suite / Teaching App must be bundled with interactive panel with the following features:

- **Teaching Tools:**
  - Must have Mathematics tools (like Ruler, compass, and protractor)
  - Must have Writing recognition for complex Mathematical equations that even solves complex calculations
  - Must have Hand-Writing recognition in English words with suggestions.
  - Teaching app must be able to open office documents (like word, excel, PowerPoint and PDF) within the app,
  - Should be capable to annotate and take screenshot on any 3rd party applications running on Windows OS
- **Content Creation platform & Lesson Planning:**
  - Teaching app must have Built-In access to teaching academy with access to wide range of resources, curates for different curriculum
  - Built-in teaching assistant that can search for education content on any topic in the form of pictures, videos and text.
  - Teaching app must have built in Screen recording
- **Content Sharing & collaboration:**
  - Teaching app must be able to share lesson to all students with single button click
  - Should have built-in wireless mirroring function.
- **Provision for Students to attend classroom from anywhere**
  - Students should be able to collaborate on virtual whiteboard from their devices.
  - Student should be able to access lesson shared by teachers on their Android and iOS Device. And learn at their own pace and time.
  - Students should have access to Free educational resources to our other curriculums.
- **Provide Secure, Live virtual instructions**
  - using built-in video tutoring and audio tutoring functionality without depending on any 3<sup>rd</sup> party app.
- **Assign Syllabus or create customized curriculum**
  - Should be able to provide FREE Adaptive content for popular curriculums.
  - Should have Built in Cloud Search tool that provides educational search results.
  - Option to Create custom curriculum.
- **Create lesson plans and Publish to Cloud**
  - Built in content Authoring tool
  - Class Dashboard, to manage published and unpublished lesson
- **Create Assessments and automate grading process**
  - Should have built-in assessment module so that teachers can create Assessment from anywhere. And Create various different kind of question, like MCQs, Multi-select, true/false, Picture select, Text

- type etc.
- Assessment module should have AI enabled module for auto questions generation from any text or paragraph saving time for teachers.
- Students should be able to take assessment from anywhere, anytime.
- Should have feature to grade assessment automatically
- Assessment module must provide Insights & data so that timely action can be taken, and learning outcomes of students can be improved.
- Must have option to create individual student Profiles, which is powered by AI and can generate the learning path for the students and suggest a more relevant content as per student abilities.
- **Managing Attendance and Performance from one place**
  - Should be able to enrol, manage and promote students virtually,
  - Should be able to appoint and manage Teachers, and analyse their performance and attendance virtually.
  - Should be able to create and manage custom courseware
  - Should be able to classroom equipment of all classrooms remotely and get insights on their effective usage.
- **Broadcast Messages from School administration**

NB:-

1. All the Hardware should be with 3 years onsite comprehensive replacement warranty from the date of commissioning.
2. Wall Mounting & Installation to be commissioned by the supplier.
3. On-site Technical support for minimum 3 years.
4. As per requirement training to academic faculties to be imparted.
5. Bidders must provide the MAFs (Manufacturer's Authorization Form) for all the equipment's quoted in the proposal.
6. All the OEMs of the offered product/solution of the bidders must have their owned or authorized service/support centre operational for at least last 5 years or more in Odisha. Bidders are required to submit their undertaking supported with confirmation of OEM with details of such service centers in Odisha with contact person, mobile no, address, years of operation of the service centre, supported credentials/orders/customers satisfactory certificate.
7. OEM of Interactive products must have experience of supplying interactive teaching product / technology at least in **5 large projects (with order Qty > 1000 units)** in Govt. Schools / colleges. (Proof required)
8. OEM must have minimum **10,000 or more classrooms deployment** of interactive teaching product / technology in India (Supportive doc required such as, Market Research Report or other documentary evidence etc)
9. OEM of Interactive Flat Panel must have their **own Blended Learning Platform** that must be offered along with the panel to enable the institute to run classroom smoothly post COVID lockdown wherein partial students will be inside the classroom & rests learning from home but can be able to access interactive teaching canvas simultaneously. OEM must have Blended Learning Platform and **Interactive Teaching software development centre** in India (Declaration required).

Any non-compliance of the above service/support centre of the OEMs or its authorized partner shall make the proposal as being unresponsive and may lead to disqualification of the proposal. The Nodal Agency reserves the right to take appropriate action in this regard.

  
Block Development Officer,  
Kharia