



Government of Pakistan
Ministry of Federal Education and Professional Training

REQUEST FOR QUOTATION

DESCRIPTION: Request for Quotation (RFQ) for Digital Interactive Smart Boards

POSTING DATE: 01st September 2022

DEADLINE DATE FOR SUBMISSION OF RFQ: 07th September 2022 (by 01:00 p.m.)

The Ministry of Federal Education & Professional Training, Government of Pakistan, has received funding from the World Bank under Response, Recover and Resilience Project (RRREP). It is intended that part of the proceeds of these funds will be applied to make eligible payments under the contract for Procurement of Digital Interactive Smart Boards with associated accessories.

The Ministry of Federal Education & Professional Training, Government of Pakistan, *now* invites quotations from registered suppliers/vendors, on prescribed format for the supply of Digital Interactive Smart Boards, on LOT Basis, as per the given technical specifications. The suppliers/vendors may apply for either one Lot or both, as appropriate. The detailed RfQ along with relevant annexures is available, free of cost, on the Ministry's website and can also be obtained from the address below.

The Suppliers/Vendors may submit their quotations and accompanying documents on LOT Basis by 01:00 p.m. on Wednesday, 07th September 2022 at the below mentioned address. Any response received after this time and date shall not be considered.

Coordinator-Administration & Procurement

Program Coordination Unit (PCU)

Ministry of Federal Education & Professional Training (MoFEPT)

Government of Pakistan.

Pakistan Manpower Institute (PMI) Building,

Zero Point, Islamabad.

Tel: +92-51-9252396-97 or email at: moewb.procurement@gmail.com

The Summary of the required items is as under:

Lot #	Description	Item Name	Quantity	Item Description	Delivery & Installation Time
Lot No. 1	Sindh & Baluchistan	Digital Interactive Smart Board	90	As per Technical Specs (Mentioned in <u>Annex-B</u>)	<u>Within 30 days of issuance of Purchase Order</u>
Lot No. 2	KPK, Punjab and Federal regions	Digital Interactive Smart Board	260		



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TERMS & CONDITIONS FOR QUOTATIONS

I. Minimum Eligibility/Qualification requirements:

- i. The Supplier/Vendor must have at least three (03) years' experience in supply of interactive boards and must provide a minimum of three (03) references for similar tasks undertaken.
- ii. The Supplier/Vendor must have an average annual turnover of more than PKR 25 million over the last three (03) years; financial statements are to be provided for the last three (03) years. *The turnover may be met, individually, for each of the lot that the bidder may participate in.*
- iii. The bidder(s) must be registered with relevant authorities (SECP, FBR, etc) and submit relevant certificates to establish its authenticity.
- iv. The supplier/vendor must have technical resources throughout Pakistan to ensure timely warranty & after sales support.

II. Technical Qualification requirements:

- i. The offered smartboard should be latest in specification and in current production for a minimum of one (01), duly supported by a relevant brochure/literature, etc.
- ii. Warranty for each smartboard must be verifiable on principal portals.
- iii. Manufacturer warranty and One-year 365x24x7 support with original parts replacement.
- iv. The delivery and installation for both the lots to be made within four weeks.
- v. The vendor must have resources to conduct user-level trainings at all locations where smart boards are installed.



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III. GENERAL CONDITIONS:

- i. The procurement under 'Shopping' method will be made as per the World Bank Regulations 2016, revised in January 2011. The acceptable terms & conditions of the lowest cost-responsive quotation shall be incorporated in the brief Purchase Order.
- ii. The Quotation may be submitted on the printed letter head of the bidder in the prescribed format supplied with RFQ and should include all relevant registration information and documents.
- iii. Only One (01) Quotation is accepted from a specific Vendor/Bidder.
- iv. No public opening of Quotations received by the closing date shall be held.
- v. Quotations by fax or by electronic means are not acceptable.
- vi. The Ministry of Federal Education and Professional Training (MoFEPT), Government of Pakistan is not bound to accept any quotation, nor award a contract/purchase order, nor be responsible for any costs associated with a supplier's preparation and submission of a quotation, regardless of the outcome or the manner of conducting the selection process.
- vii. The Competent Authority, MoFEPT, reserves the right to cancel any or all of the offers without assigning any reason, thereof.

IV. SPECIAL CONDITIONS:

1. Price

- (i) Price shall be fixed and quoted in Pakistani rupees (PKR) for each of the LOT. The quoted price shall be inclusive of all related costs including all taxes, packaging costs, transportation costs, installation and trainings, etc.
- (ii) The Price indicated in the Price Schedule shall be delivered duty paid (DDP). The price of other (incidental) services, if any, may be mentioned separately.
- (iii) In case of anomalies between unit rates or prices and the total amount quoted, the unit rates or prices shall prevail. In case of discrepancy between words and figures, the former will govern.
- (iv) Bidder/Supplier shall remain bound to accept the arithmetic corrections made by the Client.



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2. Bid Security

The bidder is required to submit a bid security equivalent to **2% of price for each of the LOT** in the form of “Pay Order or Bank Guarantee” addressed to “Ministry of Federal Education & Professional Training”

3. Bid Evaluation:

The criteria for bid evaluation: **“Lowest Evaluated Responsive Quote for each of the Lot at Delivered Duty Paid (DDP) price basis”**. The details of destination for physical delivery of goods are given in schedule of requirement.

4. Bid validity period:

The period of bid validity shall be **30 days** after the deadline for bid submission specified in the bidding data sheet.

5. Packing

The Supplier shall deliver the goods in scratch less condition in complete packaging with all the manufacturer supplied accessories. Neither the goods nor any accessories shall be acceptable in CKD (Completely Knocked Down) or SKD (Semi Knocked Down) condition.

6. Delivery and Documents

All the Interactive Smartboards and relevant accessories should be supplied as per specified in delivery schedule on DDP basis.

Upon shipment, the Supplier shall notify the Purchaser the full details of the shipment, including Contract number, description of Goods, quantity and Delivery documents. The Supplier share the following documents with the Purchaser:

- (i) Copies of the Supplier’s invoice showing Goods’ description, quantity, unit, price and total amount;
- (ii) Copies of the packaging list with contents of each package for designated schools; The supplier/vendor may also provide a virtual/MS Excel-based database with details of delivery of devices to each school;
- (iii) Manufacturers or Supplier’s warranty certificate; and
- (iv) Delivery Challans/Goods Receipt Note (GRN);



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7. Relevant Inspections and Tests

(i) The Procuring Entity shall check and verify the delivery made by the Supplier in conformity with the technical specifications and notify the Supplier of any defects found. The following inspections and tests shall be performed on receipt of Goods:

- Visual inspection;
- Verification that the items are new and unused;
- Confirmation of brand offered and its serial and part number;
- Inspection for any physical damage;

(ii) Any other test to ensure that the goods supplied are as per technical specification i.e. Brand confirmation, online verification of parts and model number original manufacturer, etc.

(iii) If the Goods are found to be defective or otherwise not in accordance with the specifications, the Client may reject the supplies by giving due notice to the Supplier, with reasons.

8. Insurance

The Goods supplied under the Contract shall be delivered duty paid (DDP) under which risk is transferred to the buyer only after items having been delivered, hence insurance coverage is sellers' responsibility. Since the Insurance is sellers' responsibility, they may arrange appropriate coverage.

10. Warranty

Standard warranty as per **OEM** policy, with a minimum of **One Year**.

The period for correction of defects in the warranty period is: **Thirty (30) days**.

11. Payment

(i) All Payments will be made through Cross-Cheque to the selected bidder, by the Ministry of Federal Education and Professional Training (MoFEPT), within 30 days of receipt of Bill (Invoice), following delivery and inspection, and in no case, later than 45 days.

- a. Taxes will be deduced according to federal and provincial government rules.
- b. No payment will be made for any damaged goods supplied.



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(ii) The method and conditions of payment to be made to the Supplier under this Contract shall be as follows:

Payment for Goods supplied:

Payment shall be made in Pak. Rupees (PKR) in the following manner:

(a) **On Delivery:** Eighty percent (80%) of the Contract Price of the goods shall be paid on their delivery to designated locations and their installation, supported by relevant documentation as specified above;

(b) **On Final Acceptance:** the remaining twenty percent (20%) of the Contract Price of the goods shall be paid after issuance of the Acceptance Certificate by the Procuring Entity. The acceptance certificate will be issued upon inspection of all installed devices and completion of their user-end training.

12. Performance Security

A Performance Security shall be of an amount equal to ten (10 %) percentage of the price for each lot of items. Performance Security shall be submitted within 05 days of the date of the notification of award.

13. Liquidated Damages

The Applicable rate is:

Maximum deduction: The Liquidated damages for the whole of the works are *0.1 percent per day*. The maximum number of liquidated damages for the whole works is *10 percent of the final contract price*.



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ANNEXURE-A

(Format for Submission of Quotation)

Name of the Firm / Distributor / Dealer: -----

Lot #	Item	Item Name	Quantity	Unit Cost (PKR)	Total Cost (PKR)
Lot No. 1	Sindh & Baluchistan	Digital Interactive Smart Board	90		
Lot No. 2	KPK, Punjab and Federal regions	Digital Interactive Smart Board	260		
GST Rate %					
Other Applicable Taxes %					
Total Cost for all LOTS with all Applicable Taxes					
(Total Amount in PKR ----- Only)					

1. We agree to supply the above-mentioned digital interactive smart board in accordance with technical specification and other requirements mentioned in the RFQ for a total contract price of “Rs..... (In words: Rupees -----),” including all applicable taxes.
2. Delivery & Installation will be made, within 30 days of the issue of Purchase Order as per requirements.
3. We also agree and abide with the terms and conditions stipulated in the RFQ document.

(Signature of Bidder with Seal)

Name:

Designation:

Address:



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Contact No:
ANNEXURE-B

Technical Specifications of Digital Interactive SmartBoards (Both Lot-1 & 2)

Tender Specs	Item	Specifications	Bidders' Offer
Display	Diagonal Size	65inch or more	
	Screen Type	TFT LCD (Direct Backlight)	
	Aspect Ratio	16:09	
	Display Area	1462.5x801.5mm(57.6 x 31.6) inch	
	Resolution	1080p (1920 x 1080 p@ 60Hz)	
	Response Time	8ms	
	Refresh Rate	60Hz	
	Display colour	1.07B (10 Bit)	
	Contrast Ratio	4000 ::1	
	Image Diagonal	1636.2mm(64.4'')	
	Image Area Width	1426.5mm (56.2'')	
	Image Area Height	801.5mm (31.6'')	
	Active Area Width	1479.5mm (58.2'')	
	Active Area Height	824.5mm(32.5'')	
Connectivity	HDMI In	3	
	USB Touch	2	
	VGA In	1	
	VGA Audio In	1	
	YPbPr:	1	
	CVBS	1	
	Mic In	1	
	Headphone In	1	
	USB 2.0	2	
	RS232 Serial	1	
	OPS Slot	1(With front usb 2.0 x1 and 3.0 x 1)	
Audio	Speakers	Front Facing stereo speakers	
	Power	2 x15 W	
Power	Power Requirements	100V - 240V AC	



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	Power Consumption (Normal)	120W	
	Power Consumption Standby	<=0.5 W	
Environment	Operating Temperature	0-50 C	
	Storage temperature	-20-60 C	
	Operating Humidity	10-90% non condensing	
	Storage Humidity	10-90% non condensing	
Physical Specifications	Dimension (overall)	1710x1350x540mm (67x53x21) inch	
	Packed Dimension	1544x939x99 mm (61x37x3.9) inch	
	Net Weight	45 kg(99.2lb)	
	Packed Weight	57kg(126lb)	
Interactivity	Continuous Touch Point	10	
	Gestures And Edge Swipe	Windows Supported	
	Touch Technology	Infrared	
	Touch resolution	32768x32768 px	
	Bezel Size	30mm	
	Positioning Accuracy	±2mm	
	Tracking rate	3m/s	
	Scan Rate	6ms	
Compatibility	Compatibility	Windows 7-10 MAC OS 10.12.1 or later Linux Ubuntu 16.04 LTS Chromebook	
Pen	Pen Included	1	
	Pen Type	Battery Less (Not Differentiated from Touch)	
	Pen Holder	Attached to panel	
	Pen Tip Diameter	8mm	
Packed Contents	Active Panel I series	1	
	Pen	1	
	Remote Control	1	
	AAA remote Batteries	2	
	Power cable	(3m/9.8ft)	
	HDMI cable	1 (3m/9.8ft)	
	USB Cable	1 (3m/9.8ft)	



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	Quick Install Guide	1	
	Class Flow Desktop and Activ Inspire Professional Included	1	
Compliance And Certification	CE,FCC,IC,UL,CUL,CB	Should be certified	
Operating System	external PCs running Microsoft Windows (7 to 10); Linux Ubuntu 16.04 MAC OS 10.12.1	Must be compatible	
Intel Stick/Computer	OSS	Windows 10	
	Processor	Intel Atom or Eq	
	Wi-Fi	Intel Wireless 802/11 ac	
	Bluetooth	v4.0	
	Storage	32GB	
	RAM	2GB DDR3	
	USB Port	1 (2.0) + 1(3.0)	
	HDMI Output	Yes	



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Schedule of Requirements

The delivery schedule provides the dates of proposed/actual delivery of items.

Lot #	Item	Item Name	Quantity	Project Site (Destination)	Delivery Schedule	
Lot No. 1	Sindh & Baluchistan	Digital Interactive Smart Board	90	As specified in delivery schedule	As per Requirement	Bidder's Date
Lot No. 2	KPK, Punjab and Federal regions	Digital Interactive Smart Board	260			

LOCATION OF CONSIGNEE FOR DELIVERY WITH QUANTITY

Lo #	Item	Item Name	Quantity	Item Description	Bid Security Amount
Lot No. 1	Sindh & Baluchistan	Digital Interactive Smart Board	90	As per Technical Specs	<u>2% for of the Each LOT</u>
Lot No. 2	KPK, Punjab and Federal regions	Digital Interactive Smart Board	260		
<u>Client's Address:</u>		PROGRAM COORDINATION UNIT (PCU), MINISTRY OF FEDERAL EDUCATION & PROFESSIONAL TRAINING, KHAYABAN-E-SUHARWARDY, ZERO POINT, ISLAMABAD. *			
		<i>:* The Supplier/Vendor will be provided with a list of schools in each of the Lot where it will delivery and install the devices.</i>			



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ANNEXURE-C

(ACTIVITY REQUIREMENTS)

Objectives

- Provision of 280-350 smart boards¹ to select secondary schools (one board per school) in identified lagging² districts³ in Sindh, Balochistan, Khyber Pakhtunkhwa, Punjab, and ICT/Federal Areas
- Access to learning via use of smart boards for over 100,000 students⁴
- Benefitting over 5000 teachers via the use of technology⁵

Background and Context

The Covid-19 pandemic has not only exacerbated the inequities in the education system, it has also expedited the technology transition and led the government to innovate solutions to support and facilitate the most marginalised learners⁶. Utilising the fiscal window opened up by the RRREP project, the Ministry of Federal Education and Professional Training (MoFEPT) is seeking to make technology interventions to improve the learning environment and outcomes in lagging districts all over Pakistan.

The MoFEPT, under this project, has rolled out several distance learning initiatives; provided hygiene kits to 12,000 schools (ongoing), initiated distribution of learning materials in 8000 schools (ongoing), procured gender and inclusion-sensitive digital content that complies with SLOs (ongoing). It has also ensured targeted and quality teacher training focused on pedagogical strategies to enable teachers to support the unique needs of each student.

¹ This number might change, this is a preliminary estimate.

² There was also a proposal of distributing these to Provincial and Federal Teacher Training institutes. Could have helped in future interventions under ASPIRE as well.

³ Currently, the MoFEPT has secondary school information for 50 disadvantaged districts nationwide.

⁴ This number is subject to change after further calculations

⁵ This number is subject to change after further calculations

⁶ Marginalised learners include students who face barriers of access to the educational system for a variety of reasons and those who are not provided targeted or the 'right' support within schools and classrooms. Examples of historically marginalised groups include girls, children with disabilities, children in rural areas and low-income learners.



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To build upon this effort, the MoFEPT now intends to procure interactive smart boards to distribute in lagging districts to ensure that students in these areas have the opportunity to benefit from technology.

Several research studies show that interactive smart boards/whiteboards, if integrated well into the learning ecosystem can improve the learning experience and outcomes of students. For example, a 2020 study on the effectiveness of smart boards eliminating cognitive disparities points to the educational uses of large-scale introduction of the IWB in schools⁷.

The literature review in the study states, ‘Researchers working in this domain are focused on two different yet overlapping aspects of IWB [interactive whiteboards] use in schools: IWB as a tool that promotes a more effective teaching process, and as a tool that supports students’ learning (Morgan, 2012). The literature also suggests that the IWB offers the opportunity to better match learning to different student learning styles (global, local, visual, verbal, etc.) and this allows teachers to customise teaching according to the individual characteristics of the students (Wall et al., 2005). Therefore, it can help teachers in meeting students’ diverse learning needs and provide more opportunities for interaction and discussion in the classroom, also when compared to other ICT (Luo & Yang, 2016; Smith, Higgins, Wall, & Miller, 2005). The use of IWB also brings some significant changes in the teaching process in terms of timesaving for teacher’s preparation of the teaching material, saving of the prepared content for later re-use, rapid transitions within and between the presented contents, fast retrieval of already displayed content, thus enabling a teacher to respond to students’ needs in case of comprehension difficulties.’ (2020, pg. 35)⁸.

Furthermore, a study from Ataturk University demonstrates that students who learned via an interactive whiteboard did significantly better on standardised tests than those who did not use the technology⁹.

However, the optimism for improving learning through smart boards needs to be tempered by instances in which incorporation of technology in education does not necessarily improve learning¹⁰. While acknowledging this, the MoFEPT recognises the need to give access to innovative learning methods that can support the learning needs of students who may not be facilitated by traditional teaching and pedagogical practices. Hence, along with incorporating smart boards, this intervention will also build ownership and capacity of teachers and will encourage the documentation of the process of use to inform

⁷ Making the School Smart: The Interactive Whiteboard against Disparities in Children Stemming from Low Metacognitive Skills.

⁸ https://www.researchgate.net/publication/346038556_Making_the_School_Smart_The_Interactive_Whiteboard_Against_Disparities_in_Children_Stemming_From_Low_Metacognitive_Skills

⁹ <https://insights.samsung.com/2022/03/04/what-are-the-advantages-of-smart-boards-for-schools/>

¹⁰ https://saveourfuture.world/wp-content/uploads/2020/10/EdTech-and-COVID-19-Response_SOF_BP3-1.pdf



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future context-specific instructional models around tech.

Examples of Smart Board use in schools from Pakistan and around the world

As part of a preliminary scoping exercise, the MoFEPT collected data on past and ongoing interventions that utilise smart boards in similar contexts by reaching out to provincial counterparts where this has been piloted such as Punjab and KP and looking at best practices from around the world. Below are some insights MoFEPT have gathered from this exercise:

Punjab: While smart boards have not been upscaled in public schools in Punjab, the success of a few pilots have encouraged the Punjab government to incorporate the use of smart boards in their future planning. In a small 2-school pilot by UWR several years ago, smart boards were made available in Daanish schools¹¹ where they were used for computer science class. The desire to incorporate smart boards has been of great interest to Punjab and the then Chief Minister.¹²

According to the Punjab school education department, the use of a smart board is effective when paired with a LMS customised to the school's needs. Punjab has also proposed installing more smart boards via their work plan under ASPIRE demonstrating the enthusiasm to adopt this technology and use it in the future.

Khyber Pakhtunkhwa: Interactive whiteboards were installed in schools by the Elementary and Secondary Education Department in schools in KP a few years ago. Anecdotal evidence from the provinces including news articles and press releases point to the satisfaction of teachers and students with interactive whiteboards.¹³

¹¹ More information on Daanish Schools: Daanish schools is the largest network of boarding schools for Girls and Boys in the country, they are far-reaching educational welfare schools established for the most marginalised segment of the society. Daanish Schools are located in remote and less developed areas, which are high in poverty and low in literacy. At present, 16 Daanish Schools (8 Girls & 8 Boys) are fully operational across the province. The total student strength is 9365, 4626 Girls and 4739 Boys. The total academic staff for all schools is 526 and administrative staff is 1693. Each class has 03 sections, and the maximum strength is limited to 30-35 students to maintain discipline, individualised attention, and delivery of lessons. The students are admitted in Grade VI and study till F.Sc. all Daanish are registered with BISE Lahore

¹² <https://www.punjab.gov.pk/node/2270>

¹³ <https://newslens.pk/kp-introduces-smart-screens-in-govt-schools/>



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The MoFEPT has requested for requisite further evaluations of these (if available) however, continued enthusiasm by the provincial SEDs demonstrates that there is still a desire to use this technology to improve the learning environment and facilitate the needs of students and teachers.

International Examples: To explore the impacts of smart boards in schools in other countries, please refer to this study on the impact of EdTech on Girls Education in LMIC (2022)¹⁴ to gauge the impacts of these kind of interventions on girls education, to this news article to see how India has incorporated the use of these smart boards in school¹⁵, refer to this study to gauge how smart boards help children who require more targeted instruction¹⁶, refer to this study to gauge the impact of whiteboards of student learning outcomes in Costa Rica¹⁷, and finally, refer to this to see how low-powered interactive whiteboards were used in teacher trainings in Senegal¹⁸¹⁹

This is not an exhaustive list but lays the intellectual and experiential ground for the MoFEPT to undertake this activity.

Smart Board

An interactive smart board is a tool that allows images from a computer screen to be displayed onto a classroom board using a digital projector. The teacher can interact with the images directly on the screen using a tool or even a finger. Furthermore, the teacher can integrate multimodal teaching by sharing multimedia content during lectures, keeping students engaged and catering to a diverse range of learners²⁰.

Hence, smart boards help teachers and students to learn collaboratively, share files, automate tasks, access online resources, and use educational software; innovative technologies could enhance the learning experience for students. Smart boards and the associated software help teachers create more dynamic

¹⁴ <https://dl.acm.org/doi/pdf/10.1145/3491140.3528305>

¹⁵ <https://timesofindia.indiatimes.com/blogs/voices/big-leap-from-blackboards-to-smart-classrooms/>

¹⁶

https://www.researchgate.net/publication/346038556_Making_the_School_Smart_The_Interactive_Whiteboard_Against_Disparities_in_Children_Stemming_From_Low_Metacognitive_Skills

¹⁷ https://www.wider.unu.edu/sites/default/files/Events/PDF/Slides/1_Busso.pdf

¹⁸ <https://www.youtube.com/watch?v=KBE18VTuAhg>

¹⁹ <https://blogs.worldbank.org/edutech/off-the-grid>

²⁰ <https://www.dme.us.com/2018/06/12/the-growing-use-of-interactive-white-boards-in-schools/>



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lessons by writing or typing on screen, calling attention to certain topics with highlights, circles, arrows or zooming in — and sharing multimedia content. The working space in the smart boards can be divided into multiple sections allowing multiple students to work collectively. Students in such classrooms experience immersive learning with additional learning aids such as videos and images, 3-D models and animations, webpages, and presentations. Such technologies also accommodate for different learning needs and styles allowing visual, auditory and kinesthetics learners to be engaged with the learning content. Investment in hardware alone is not sufficient. It will be complemented by the associated teacher training, effective usage policy, and reliable power supply in the schools to improve the learning environment for students²¹.

How to Use a Smart Board in the Classroom

Smart boards are pre-installed with software that helps you interact with lesson plans and with students. It is the equivalent of combining a good old-fashioned chalkboard, a touchscreen computer, and interactive lessons all into one and you have a smart board²².

To ensure there is content schools can use for the smart boards along with their own lesson plans, the Ministry will make available the digital content procured under RRREP for classrooms to use and project onto the smart board.

Features of Smart boards:

²¹ IWB Policy Brief

²² <https://www.teachhub.com/technology-in-the-classroom/2019/08/how-to-use-a-smart-board-in-the-classroom/>



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Multi Touch
Multi touch, support finger or opaque object to write



Finger Gesture Recognition
Use finger gesture to zoom In, zoom out or erase contents, this make operations more simple



Powerful Teaching Software
The provided interactive software provide dozens of useful teaching tools for choice



Environment-Friendly
No chalk dust is generated, good for teacher and students' healthy



Nano/Ceramic Surface
Good quality surface, Nano or Ceramic Surface available



Modular Design
Easy for maintenance, problematic PCB boards can be easily pulled out and exchanged

Solutions provided by the effective use of smart boards^{23/24}:

1. **Boost Student Engagement** by increased peer collaboration and strengthened comprehension. Lessons can be more dynamic and sharing multimedia content such as videos, webpages, presentations, and images is much easier and can be integrated into the lesson faster.
2. **Accommodates Different Learning Styles:** Whether a student is a visual learner, an auditory learner or a hands-on learner, the smart board can enable the use of these mediums in the classroom.
3. **Save, Share and Send Lessons:** Teachers can save their notes and pick up in their next class and start up just requires switching on in the morning.
4. **Whole Class Learning Solution:** Empower teachers to provide effective instruction simultaneously to a wide range of students, engaging the whole class while respecting the unique needs of individual students.
5. **Collaborative Learning Solution:** Encourage project-based activities where students interact and collaborate fostering the intellectual synergy of many minds sharing knowledge and working towards a common goal together.
6. **Personalised Learning Solution:** Leverages interactive, integrated technology to empower

²³ Taken from a IWB report

²⁴ <https://insights.samsung.com/2022/03/04/what-are-the-advantages-of-smart-boards-for-schools/>



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teachers to evaluate students' knowledge and tailor teaching to address the diverse needs of individuals.

7. ***Learning Anywhere Solution:*** Offers the freedom to easily broaden access to interactive, collaborative content and resources, meeting the needs of today's students.

Instructional Model

It is important to emphasise that these kinds of technologies do not replace the teacher or lecture time in the classroom. Instead, they enhance the lesson and provide opportunities for students to engage with the teacher and the lesson. If anything, with the proper capacity building and onboarding of teachers, tools such as smart boards, can support teachers in preparing better lesson plans, cater to their students and ensure an interactive learning environment.

While there are numerous instructional models out there that provide guidance on integrating smart boards into the classroom, the MoFEPT, through this intervention, does not aim to prescribe a certain instructional model. Rather, it aims to provide access to the latest technology, in an enabling environment, and ensure the right capacity-building for the development of organic instructional models rooted in the context of each specific district and school type.

Vendor Responsibilities²⁵:

1. Supply of smart boards
2. Distribution of smart boards
3. Installation of smart boards
4. Capacity building training of teachers (minimum of 2-days) at school level on the use of these boards.
5. Maintenance support for a specific period
6. Upgradation of boards after a stipulated time period

Distribution and Monitoring

Once the list of schools is finalised, the best-case-scenario is engaging the vendor to carry out school-level distributions with the help and support of the SEDs and the Federal Government.

Finalisation of Procurement/Distribution Strategy:

The strategy will be finalised once school selection and respective devices to be distributed are fixed.

However, a brief step by step breakdown is provided below:

²⁵ Subject to change



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Step 1: Centralised procurement of 280-350 smart boards by MoFEPT under WB procurement guidelines

Step 2: Distribution of devices directly to schools via the same vendor with the help of provincial, district and education offices field staff

Step 3: Proof of delivery (Delivery Challan) via certain monitoring checks including evidence of receipts by schools by providing Good Receipt Notes as well as copy of school asset register which shows interactive board entry as well as provision of necessary data on MoFEPT provided Excel Database.

Step 4: Installation of smart board in classroom identified by school management committee by vendor with support from district education offices

Step 5: Compliance with WB guidelines and SOPs covered under the EHS guidelines already disseminated to provinces

Step 6: Quality Assurance checks

Step 7: Capacity-building training of teachers provided by the vendor in collaboration with school management

Step 8: District-level post-distribution monitoring and school-level monitoring.