

CALL FOR QUOTATIONS/TENDERS :

CREATION OF VIRTUAL REALITY LAB AT APS UDHAMPUR

Introduction

1. Army Public School, Udhampur invites offers in **two bids system** from the authorized dealers/vendors for the project “**Creation of Virtual Reality Lab at APS Udhampur**”.
2. Bids are invited for the project as specified below:-

S No	Project
(a)	Creation of Virtual Reality Lab at APS Udhampur

Items required for creation of Virtual Reality Lab

S No	VR Lab Setup Hardware	Qty
(a)	Standalone VR Headset	10 Nos
(b)	Tablet	01 No
(c)	Storage case	01 No
(d)	Charger Case	01 No
(e)	Network Device	01 No
(f)	Content, Software and Applications	10 License

Detailed Technical Specifications of the items

Item No. 1 : Virtual Reality Headset

Sr. No	Parameters	Specifications
(a)	In-device Display	4K Fast-LCD HD (High-Definition) screen
(b)	CPU	Snapdragon 821 or Higher
(c)	Lens	Customized Fresnel Lens
(d)	Rechargeable Battery	3400 MAH or Higher
(e)	Wireless Controller	3 DOF
(f)	Resolution	3840*2160
(g)	Audio Jack	3.5 mm
(h)	Other Features	Micro USB, SD Card slot for storage expansion, Return & volume control, Surround Sound System, Button on the VR Headgear, Gravity sensor, compass, gyroscope, light sensor, distance sensor
(j)	Warranty	One year Warranty
(k)	Material of the machine	Flexible plastic or equivalent or Higher
(l)	Indicator Power supply	Equipment ON/OFF indicator light provided For Device charging Micro USB or Higher

Item No 2 : 10 inches or higher Tablet

Sl. No.	Parameter/ Feature	Specification Required
	Make and Model	
(a)	Supported Networks	4G VoLTE, GSM
(b)	OS Ver	Android
(c)	CPU GHz	2.3GHz Octa-Core or Higher
(d)	RAM	6 GB
(e)	ROM	128 GB

Sl. No	Parameter/ Feature	Specification Required
(f)	Expandable Memory	1 TB or Higher
(g)	Display Size(Inch)	10 or Higher
(h)	Resolution	2000 x 1200 (WUXGA+)or Higher
(j)	Screen Type	IPS LCD, 400 NITS (type)
(k)	Camera	Rear with Auto Focus - 8.0 MP and camera front – 8.0 MP
(l)	Universal Port	Micro USB / Type - C
(m)	USB Version	2 or more
(n)	Location	GPS, Glonass, BDS
(o)	Headset	3.5 mm
(p)	Wi-Fi	802.11 b/g/n/ac 2.4GHz
(q)	Bluetooth	5.0 or Higher
(r)	Sensors	Accelerometer, Gyro Sensor, Hall Sensor, RGB Light Sensor
(s)	Weight gm	465 gms or lesser
(t)	Battery mAh	7700 or Higher
(u)	Warranty	One Year Warranty

Item No. 3: - Storage Case

Sl. No.	Parameter/ Feature	Specification Required
(a)	Material	Resin or SS
(b)	Colour	NA
(c)	Other Features	High impact resin/SS and heavy duty construction dust seal, All terrain wheels, Lockable system Cleans Easily, Extra durable, handle
(d)	Warranty	One Year Warranty

Item No. 4 : Charging Console

Sl. No.	Parameter/ Feature	Specification Required
(a)	Specification	Multi Charge plug with single plug charging
(b)	Cable Length	2 meter
(c)	Type	AC 220V input voltage

Item No. 5: - Network Device

Sl. No.	Parameter/ Feature	Specification Required
(a)	Standards	Wi-Fi 5, IEEE 802.11ac/n/a 5 GHz, IEEE 802.11n/b/g 2.4 GHz
(b)	Wi-Fi Speeds	AC1900, 5 GHz: 1300 Mbps (802.11ac), 2.4 GHz: 600 Mbps (802.11n)
(c)	Working Modes	Router Mode, Access Point Mode
(d)	Buttons	WPS/Wi-Fi Button, Power On/Off Button, Reset Button
(e)	Wi-Fi Encryption	WPA, WPA2, WPA3, WPA/WPA2-Enterprise (802.1x)
(f)	Warranty	One Year Warranty

Item No. 6 : Content, Software and Application

Parameters	Specifications
<p>AR & VR Content to be pre-loaded & Utilized in the Android Teacher's Device and VR Headset. And should provide the features:</p> <p>360 Degree Content with rotatable 3D objects and should be capable of playing in offline mode.</p>	<p>Minimum 800+ VR based content Grade-wise for Science & Maths, should use Gamified methodology in Content for Grade 1 to 5 for Hindi, English, Maths, EVS, and for Grade 5 to 10 Coverage of Science and Mathematics aligned with NCERT.</p>
	<p>Duration of a VR module /topic must be for min. 2 Mins. and up to 10 Mins. - depending on the depth of the concept.</p>
	<p>The content library of interactive and Teacher guided 3D 360 degree animated content VR modules covering core concepts.</p>
	<p>Educational VR modules pre-loaded in the headset and Teacher's Device(Tablet) mapped to the curriculum for all content covering World Heritage Sites and virtual tours. Android application for teacher's device and all the concepts must be pre loaded in teacher's device.</p>
	<p>Natural island in which all the students can walk through and visit in a Virtual Environment with each other.</p>
	<p>Teacher Student Pairing System : All the VR device should be managed and monitor by teacher's Device (Tablet) over a LAN with Native Android Application, VR modules related to virtual experiments should have interactivity of multiple types w.r.t. in-module interactions like point-&-select, drag-&-drop, explore 360-degree, etc. Along with Teacher guided animated virtual tours for better student understanding with features like forward , backward, pause, play, audio mute, music mute facilities must be accessible for teacher in teacher's device.</p>
	<p>Teacher can control the content in an interactive environment while the student is interacting with objects. Teachers can perform interactive practical/concept in teacher's Device and same interactivity must be visible in all students Devices simultaneously.</p>
	<p>Content must be played in tablets with 360 degree rotate features.</p>
	<p>In-module formative assessments with the ability to track student scores by the teacher/administrator, and learning analytics and Reports supported by on-cloud LMS Platform.</p>
	<p>Engrossing, engaging & interactive explanation of Science & Maths related concepts in every VR module.</p>
	<p>Complex concepts simplified and converted into hands-on virtual experiments and situational learning.</p>
	<p>Teachers or schools can add new 3D and 360 degree images or Video to Platform and can set up their own content library in each chapter by creating a sub activity/tour/practical to a particular chapter.</p>
<p>Narration language, Application User Interface & Educational content language : Hindi and English. Lessons should be proper animations and illustrations, more illustrated 3D animations rather than 360-degree pictures/video with simulation Content should run in both offline (without internet) & online mode.</p>	

	Maintain high visual standards and consistency with respect to fonts, colors, animations, designs etc. The e-learning courseware contents must not use any materials, images, animations, pictures etc. from the internet.
	Satisfactory Letter for content alignment with NCERT curriculum from government authorized body.
	Content for AR: Teacher tablet should be equipped with AR content , pre-loaded in the same teacher application. Teachers can scan images/QR code to play AR content. 200+ Concepts for science in AR are required. AR content should be aligned with NCERT syllabus and mapped with state curriculum.

Notes :-

1. **After completion of the project, the L1 vendor will present at the time of inspection and provide a completion certificate mentioning Warranty period.**
2. **All items will be checked by Monitoring Committee before installation of items.**
3. **Eligibility criteria**

Technical Bid :

- (a) **Submit Manufacturing Certificate or Authorization Letter from OEM.** The Bidder or its OEM {themselves or through reseller(s)} should have regularly supplied VR lab setups in Government schools to any Central / State Govt Organization / PSU / Public Listed Company during past 3 years before the bid opening date. Copies of relevant contracts/Satisfactory Certificates to be submitted along with bid in support of having supplied some quantity during past 3 years.
- (b) Technical Specification should be attached.
- (c) GST Registration Certificate.
- (d) Latest Qtr/month GST return should be attached.
- (e) PAN Card Copy should be attached.
- (f) Last one year IT return should be attached.
- (g) Experience Certificate in the field of the tender.
- (h) EMD / Submit MSME Certificate.

Commercial Bid

- (a) Prices of the items should be inclusive of GST.
 - (b) However, quoted price should include cost of material, transportation, installation and labour charges incurred to make the items functional in the school premises.
 - (c) Any variation in warranty period other than specified in Para 13 of this Call for Quotation should invariably highlighted separately.
4. Technical Bid and Commercial Bid given above need to be sealed in two separate envelopes and these two bids put in a single envelope and write on top of the single envelope

“Technical and Commercial Bids inside in this envelope”.

Technical Bid और Commercial Bid दो अलग- अलग लिफाफे में रखकर, एक बड़े लिफाफे में डालें और उस बड़े लिफाफे पर लिखें :-

“Technical Bid and Commercial Bid Inside in this envelope”

5. Bids in sealed cover are invited for “**Creation of Virtual Reality Lab at APS Udhampur**”. The vendors/ dealers having proper valid GST Number may submit their bids. Please super scribe “_____ (type of bid) “**Creation of Virtual Reality Lab at APS Udhampur**”. RFP number i.e 1058/APSU and date of opening of the bids i.e. **11 Feb 2025** on the sealed cover to avoid the bid being declared invalid.
6. (a) Last date for submission of bids by **1500 hrs on 10 Feb 2025**. The sealed bids should be reached by the due date and time. The responsibility to ensure this lies with the bidder. Bids received beyond the time and date given above shall be rejected.
- (b) **Manner of depositing the bids**: Sealed bids should be sent by **Registered Post / Courier only** at the address mentioned in **Para 20 below** so as to reach by the due date and time. No responsibility will be taken for postal delay or non delivery/ non receipt of bid documents. Bids sent by FAX or e-mail or deposit by himself in Tender Box will not be considered (unless the latter has been specifically called for by these modes due to urgency).
- (c) **Time and date for opening of bids** : **11 Feb 2025 at 1100 hrs at APS, Primary Wing, Udhampur**. (if due to any exigency or the due date for opening of the bids is declared closed holiday, the bids will be opened on the next working day at the same time or on any other day/time).
- (d) **Earnest Money Deposit**: Bidders are required to submit Earnest Money Deposit (EMD) of **Rs 20,000/-** in the name of Principal, APS Udhampur along with their **technical bid/ submit MSME Cert only**. The EMD should be submitted in the form of Fixed Deposit Receipt (FDR), Call Deposit Receipt (CDR) or cheque from any of the public sector banks or a private sector bank authorized to conduct government business.
- (e) **Technical Bid received without EMD / MSME Cert will be rejected.**

Special conditions

7. **Payment Terms**: It will be mandatory for the bidders to indicate their Bank Account numbers and other relevant details so that payments could be made through cheques.
8. **Full payments shall be made on completion of the full order as specified**, after inspection and acceptance of items for quality, completeness and serviceability by the Board detailed by the purchaser. Payment will be made for the complete order and not in parts.
9. Payment would be made through interbank transfer once the Acceptance has been issued by BOO after receipt, installation and commissioning of stores at loc which will be given in Supply Order. No advance payment is admissible.
10. **Paying Authority** : Army Public School, Udhampur after prior approval of Competent Financial authority.
11. **Quality**: The quality of the stores delivered according to the present Contract shall correspond to the technical conditions and standards valid for the deliveries of the same stores or specifications enumerated as per RFP and shall also include therein Modification to the stores suggested by the Buyer. Such modifications will be mutually agreed to. The Seller shall supply an interchangeability certificate along with the changed part numbers wherein it should be mentioned that item would provide as much life as the original item.
12. **Earliest Acceptable Year of Manufacture**: The items should be manufactured in the year of 2024 or later.
13. **Chinese or Cross Border Products** : Chinese or cross border components/ items will not be incorporated. A certificate to this effect will be provided by the Seller along with the bill that the Chinese or Cross border components/ items have not been incorporated in the project.
14. **Inspection Authority** : The inspection will be carried out by bd of Officers detailed by the school management.

15. **Warranty** : The Seller will provide free comprehensive warranty for a period of **minimum one year** from the date of acceptance of stores by the bd of officers detailed by the school management or date of installation and commissioning, whichever is later that the goods/stores supplied under the contract and each component used in the manufacture thereof shall be free from all types of defects/failures. During warranty period the vendor shall repair/replace without extra cost any equipment/part/accessory that becomes except defective items of a consumable nature.

16. **Liquidated Damages**: Liquidated Damages (LD), if the Seller fails to deliver the stores in full, within the stipulated period from the date of the supply/installation order, he shall pay the CUSTOMER liquidated damages, at the rate of one percent (1%) of the total value of the supply order for each completed week or part there of up to a maximum of ten percent (10%) of the value of undelivered stores of supply/installation order. This payment will be made through demand draft or MRO in favour of Principal Army Public School, Udhampur. Thereafter the CUSTOMER will have right to terminate the supply order in the case of such delay beyond 10 weeks and the customer would have the option to buy the items and accessories from the market at the vendors risk and cost. The mode of risk purchase would be the total discretion of the customer i.e. Principal Army Public School, Udhampur.

General.

17. **Jurisdiction.** The Court of the place from where the acceptance of tender has been issued shall alone have jurisdiction to decide any dispute arising in respect of the contract.

18. No Litigation/Arbitration under any circumstances at any stage is applicable, the decision of Principal/ Mgt Body of Army Public School, Udhampur will be final and binding in all respect.

19. **Ownership Title**: The ownership of all the items being supplied will be with Principal Army Public School, Udhampur. All document and registration details to this effect will be handed over by the vendor at the time of delivery.

20. **Manual and Literature**. All related manuals, literature and Test certificate for the items supplied will also be handed over with the equipment.

21. No insurance charges will be paid by the school. Consignee accept no responsibility of liability for the loss of damage of the storage in transit of the rejected stores lying inside the school premises for reasons whatsoever.

22. The address and contact numbers for sending bids or seeking clarifications regarding this RFP are given below :-

(a) Postal Address :-

**Coordinator
Army Public School
Primary Wing, Udhampur
PO - Garhi
Tehsil & Dist - Udhampur
Pin - 182121
Jammu & Kashmir**

(b) Mobile : **9596881756** (c) E-mail id: **apsudhpurchase@gmail.com**

23. No boarding and lodging for the installation team will be provided inside School premises due to security reasons.

24. This RFP is being issued with no financial commitment and the customer reserves the right to change or vary any part thereof at any stage. No bidder will be called during opening of quotations. Buyer also reserves the right to withdraw the RFP, should it become necessary at any stage.

25. **10% of the tender amount will be retained by the school as security of defect liability which will be released after defect liability period of one year. This amount will be deducted from tendered amount.**

26. Income tax payment will be vendor's liability. 1% TDS will be deducted as per IT Rules.



(Sanjeev Kumar)
Principal