

1. Super Interactive Flat Panel (LED Smart Board)
65 inch AVR Minimum Specification

Parameter	Specification
1.Android System Properties	
RAM	3GB or above
ROM (Built in Internal Storage)	32GB or above
CPU	Quad Core processor 1.5GHz
GPU	Built in GPU Card
System OS Version	Android 9.0
Language Support	Default English and Nepali Language in android OS
Display & Touch Parameter	
Screen Size	65 inches
Back light Type	LED (D-LED) Technology
Resolution	3840*2160 (UHD) screen Resolution
Brightness	350 cd/m ² or above
Touch screen Glass	3.2mm Anti-Glare Toughened Glass
Touch Response Time	≤8ms or less
Touch Accuracy	±1mm or less
LED Life	30,000hrs or above
Connectivity	
Wi-Fi	Support 2.4GHz and 5GHz Wi-fi Dual Band
Bluetooth	Bluetooth Function
NFC	Near Field Connectivity (NFC) Function
Hotspot	Hotspot Function 2.4GHz and 5GHz Wi-Fi Dual Band
Wireless Screen Mirroring	Wireless Screen Mirroring Feature Support on Linux, Windows, MAC, IOS and Android OS Platform.
Remote Controller	Wireless Remote Controller for Smart board.
Apps Download Sources	Play Store Supported.
Speaker/Microphone/Camera	
Speaker	10x2Watt Built in Speaker
Microphone	Built in Linear Array microphone With Audio Pick-up Distance: 8 Meter or above
Web Camera	Built in 13MP web Camera
Default Whiteboard Application	<ul style="list-style-type: none"> • Built in Search Engine in whiteboard app • Handwriting and Shape recognition function.
OTA System Update	app for periodic OTA Update via internet
Input/Output Interface	
Ports	input/output Ports are as <ul style="list-style-type: none"> • HDMI port-2 • USB port -5 • OPS Input Port for (Windows)-1 • USB Type C port-1 • VGA port-1

	<ul style="list-style-type: none"> • Display Port-1 • LAN/Ethernet port-2 • RS232 port-1 • Touch-USB -1
Product Certification, Authorization and Warranty	
<ul style="list-style-type: none"> • CE Certified. • Must Provide Product Manufacturer Authorization Letter. • Must provide 3 Years Warranty Letter Issued by the manufacturer. • Bidders must submit the scan copy or e-copy of Certificate, Catalog/ Brochure of proposed items. 	
Accessories:	
• HDMI CABLE*1, POWER CABLE*4, MAGNET TOUCH PEN*2, EXTENSION CABLE*1, WALL MOUNT, REMOTE *1 AND MANUAL BOOK-1	
Service: Professional Advance Training, Physical and Online Tech supports.	
Warranty: 3 years	

2. Interactive Flat Panel (LED Smart Board) 75 inch

Parameter	Specification
Android System Parameter	
RAM	8GB or above
ROM (Built in Internal Storage)	64GB or above
CPU	A73 Quad Core processor 1.8GHz or above
GPU	Built in GPU Card
System OS Version	Android 11.0
Language Support	Default English and Nepali Language in android OS
Display & Touch Parameter	
Screen Size	75 inches
Back light Type	LED (D-LED) Technology
Resolution	3840*2160 (UHD) screen Resolution
Brightness	350 cd/m ² or above
Touch screen Glass	3.2mm Anti-Glare Toughened Glass
Touch Response Time	≤8ms or less
Touch Accuracy	±1mm or less
LED Life	30,000hrs or above
Connectivity	
Wi-Fi	Support 2.4GHz and 5GHz Wi-fi Dual Band
Bluetooth	Bluetooth Function
NFC	Near Field Connectivity (NFC) Function
Hotspot	Hotspot Function 2.4GHz and 5GHz Wi-Fi Dual Band
Wireless Screen Mirroring	Wireless Screen Mirroring Feature Support on Linux, Windows, MAC, IOS and Android OS Platform.
Remote Controller	Wireless Remote Controller for Smart board.
Apps Download Sources	Must support Play Store Application for the download application
Speaker/Microphone/Camera	
Speaker	10x2Watt Built in Speaker or above
Microphone	Built in Linear Array microphone With Audio Pick-up Distance: 8 Meter or above
Web Camera	Built in 13MP web Camera or above

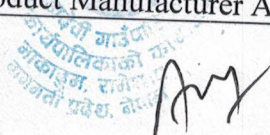
Default Whiteboard Application	Built in Search Engine in whiteboard app
OTA System Update	Handwriting and Shape recognition function. app for periodic OTA Update via internet
Input/Output Interface	
Ports	Input/output Ports are as: <ul style="list-style-type: none"> • HDMI port-2 • USB port -5 • USB Type C port-1 • VGA port-1 • Display Port-1 • LAN/Ethernet port-2 • RS232 port-1 • Touch-USB -1
Hardware Accessories	
Smart Pen	Wireless Smart pen with NFC Connectivity feature, serve as remote control, four in one design (mouse, page turning with scroll up and down, Spot light, Annotation button) with wireless voice assistance(Voice typing) Feature, Rechargeable Battery.
Mirroring Device	Wirelessly Mirror the Laptop or Desktop Screen to interactive Smart board Screen with full touch Response without touching the laptop/Desktop with Single Click of mirroring Device button. Plug and play feature
Magnetic writing Pen, Wall Mount bracket, HDMI Cable, Touch Cable, USB Extension Cable etc.	
Product Certification, Authorization and Warranty	
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3. AVR System Inbuilt Web Camera and Microphone

Parameter	Specification
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ROM (Built in Internal Storage)	64GB or above
CPU	A73 Quad Core processor 1.8GHz or above
GPU	Built in GPU Card
System OS Version	Android 11.0
Language Support	Default English and Nepali Language in android OS
Windows System Parameter	
System OS Version	Windows 10 Pro, 64 Bit Operating System
CPU	Quad Core (8 Thread), i7 , 10th Gen 2.4 GHz Processor
RAM	DDR4 8 GB RAM
Storage	256 SSD + 1TB

काठमाडौं, नेपाल
कार्यपालिकाको कार्यालय
सुदूरपश्चिम प्रदेश, नेपाल

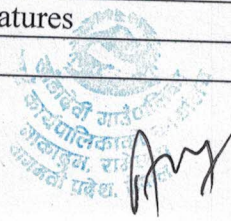
GPU	Intel UHD Graphics
Display & Touch Parameter	
Screen Size	75 inches
Back light Type	LED (D-LED) Technology
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Brightness	350 cd/m ² or above
Touch screen Glass	3.2mm Anti-Glare Toughened Glass
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LED Life	30,000hrs or above
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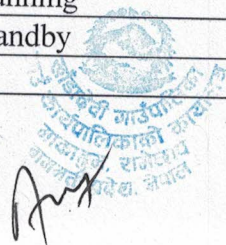
- Must provide 3 Years Warranty Letter Issued by the manufacturer.
- Bidders must submit the scan copy or e-copy of Certificate, Catalog/ Brochure of proposed items.

4. 43 Inch Smart Television

Display	
Type	LED
Size(Diagonal)	43 Inch (109.22 cm)
Resolution	Full HD, 1920 x 1080 Pixels
LED Backlight Type	Direct LED
Local-Dimming	No
Refresh Rate	60 Hz
Response Time	6.5 ms
Contrast Ratio	1200:01:00
Aspect Ratio	16:09
Horizontal Viewing Angles	178 Degrees
Vertical Viewing Angles	178 Degrees
3D TV	No
Curved TV	No
Ultra Slim TV	No
Physical Design	
Color	Black
Weight Without Stand	7.4 Kg
Weight With Stand	7.5 Kg
Dimensions With Stand (WxDxH)	970 x 613 x 214 mm
Dimensions Without Stand (WxDxH)	970 x 565 x 81 mm
Stand Shape	Tabletop
Stand Weight	0.1 Kg
Stand Color	Black
Video	
Analog TV Reception Formats	PAL, NTSC, SECAM
Video Formats Supported	MPEG-1, MPEG-2, MPEG-4
Image Formats Supported	GIF, JPEG, PNG
Audio	
Sound Type	2.0, Stereo
Audio Formats Supported	DTS, MP3
No. of Speakers	2
Output per Speaker	10 W
Total Speaker Output	20 W
Other Smart Audio Features	5 Band Equalizer, Auto volume leveler: Balance



Connectivity /Ports	
USB Ports	3(Side)
USB Supports	Audio, Video, Image
HDMI Ports	3(Side)
MHL Enabled	Yes
Digital/Optical Audio Output Ports	1
Headphone/Speaker output ports	1
RF Input (Analog Coaxial) Ports	1
Ethernet Sockets	1
NFC Ports	No
Smart TV Features	
Smart TV	Yes
Wifi Present	Yes
Band Support	Single Band
Wifi-Direct Support	Yes
Miracast/Screen Mirroring Support	Yes
Bluetooth	Yes
Bluetooth Version	4.2
Processor Type	Quad Core
Inbuilt Apps	Yes, Hotstar, Voot, Sony Liv, Sun Nxt, Zee5, Hungama Play, ALT Balaji, Viu, TVF Play, Flickstree, Play Movies, YouTube, LIVE TV App
Facebook and Social Media Integration	Yes
Games	Yes
Microphone	Yes
Voice Recognition	Yes
Other Smart Features	Display Mirroring, Double USB Sharing, MHL, Screen Casting, SmartView, WiFi Direct, Android, Future Ready
Remote	
Remote Type	RF (Radio frequency)
Universal Control Present	No
Touch Controls Present	No
Internet Access	Yes
Other Remote Features	Smart Control
Power Supply	
Voltage Requirement	100 - 240 V
Power Consmpion Running	75 W
Power Consmpion Standby	0.5 W
Power Saving Mode	Yes



5. Branded Desktop

Brand	To be specified by Supplier
Model	To be specified by Supplier
Processor	i3-10105T
Processor Speed	4-Core, 6MB Cache, 3.6GHz to 4.3GHz, 65W
Generation	10th
RAM	4 GB
Graphics	Intel® Integrated Graphics
Monitor	18.5" or Higher
Operation System	Windows 10
Storage	128GB SSD(Read Speed:530MB/s, High Speed 3.0 SATA Write Speed:450MB/s), 1TB HDD
Ports_and_connectivity	1. Optical Drive (Optional) 2. Power Button 3. Universal Audio Jack 4. USB 2.0 ports (front) (2) 5. USB 3.2 Gen 1 Type-A ports (front) (2) 6. Line-out 7. HDMI 1.4 port 8. DisplayPort 1.4 9. Optional Video Port: DP 1.4/HDMI 2.0b/VGA 10. USB 3.2 Gen 1 Type-A port (rear) (2) 11. USB 2.0 ports with Smart Power on (rear) (2) 12. Thumbscrew 13. Optional Serial/PS2 Port 14. RJ-45 port 10/100/1000 Mbps 15. PCIe x 1 Slot 16. PCIe x 1 Slot 17. PCIe x 16 Slot 18. Power Connection 19. Thumbscrew 20. External Wireless Antenna jack 21. Power indicator light.
Warranty	1 Year



6 . Intel Xeon / 8GB 2666MT/S DDR4 / 1TB HDD Server

Processor:

Intel® Xeon® E-2224G 3.5GHz, 8M cache, 4C/4T, turbo (71W)

Memory:

8GB 2666MT/s DDR4 ECC UDIMM, 4x DDR4 DIMM slots, UDIMM, up to 2666MT/s, 64GB max Supports ECC DDR4 DIMMs

Drive Bays:

1TB 7.2K RPM SATA 6Gbps Entry 3.5in Cabled Hard Drive, Up to 3 x 3.5" SATA (HDD), max 12TB*

I/O & Ports Network options:

1 x 1GbE

Front ports: 2 x USB 2.0, 2 x USB 3.1

Rear ports: 2 x PS2, 2 x DisplayPorts, 1 x Serial, 1 x Audio, 2 x USB 2.0, 4 x USB 3.1

PCIe: 1 x Gen3 slot (x16) 2X Gen3 slot (x4) 1 X PCI

Supported operating systems:

Canonical® Ubuntu® Server LTS

Microsoft® Windows Server® LTSC with Hyper-V

7. 3 in 1 Printer

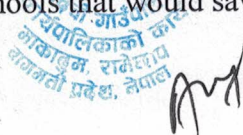
Product	
Brand	Must be specified by vendor
Product Name	Must be specified by vendor
Model	Must be specified by vendor
Memory	32MB
Printer Display	16 characters x 2 lines
Power Consumption	Ready :60W , Printing: 510W,Sleep: 6.6W, Deep Sleep :1.1W
Country of Origin	Japan
Processor	ARM9 266MHz
Windows	Windows 8 (32 & 64 bit), Windows®7 (32 & 64 bit editions), Vista (32 & 64 bit), XP Home Edition, XP Professional (32 & 64 bit), Windows Server 2008 R2, Windows Server 2012 (32 & 64 bit), Windows® Server 2012, 2012 R2 & 2008 R2, Windows® Server 2008 (32 & 64 bit editions), Windows Server 2008 R2
Print	
Print Resolution	Up to 1,200 x 1,200 dpi
Supplies	

Inbox Toner	2,600 page (TN-2355 - 2600 Pages) / Opt : (TN-2305 - 1200pages), Opt : (TN-2305 - 1200 pages), 2,600 page (TN-2355 - 2600 Pages)
Drum Unit	Drum (DR-2305) Up to 12,000 pages (1 page / job)
Paper Handling	
Paper Input	Up to 250 Sheets Standards Papers
Paper Output	Up to 100 Sheets Face Down (80gsm) 1 sheet face-up (straight paper path)
Media Specification	
Media Types & Weight	Plain Paper, Thin Paper, Recycled Paper, 60 - 105 gsm
Media Sizes	A4, Letter, A5 (Long Edge), A6, Executive
Duty Cycle	
Recommended Monthly	Up to 2,000 pages monthly print volume
Environment	
Warranty	1 year
Connectivity	
Connectivity	USB 2.0 @ Hi-Speed, 10Base-T/100Base-TX Ethernet and IEEE 802.11b/g/n Wireless
Wireless	Yes
Printer Drivers	
Macintosh	OS X (10.7) , or Greater
Linux	Linux Cups/LPR
Dimensions	
Without Carton	567(W) x 517(D) x 435(H)mm
Weight	
Product Weight	13.90 Kg

8. School Management System ERP Software Development (include 12 schools, 12 Biometric Device, 2 Bar code scanner)

8. Key Features

- **ADMISSIONS MANAGEMENT**
Manage admissions of all the students easily with their basic details, family information along with passport-sized photographs.
- **MANAGE STUDENTS RECORDS**
Manage academic and general information of all the students in a single platform
- **MAINTAIN TEACHERS RECORDS**
Manage teacher records including their personal details and specialized subjects.
- **ATTENDANCE MANAGEMENT**
Maintain digital attendance system for students and other staff in a real time.
- **EXAMINATION MANAGEMENT**
Fully automated functionalities for comprehensive management of examinations conducted in schools that would save time and effort of the administration.



- **MARKSHEET MANAGEMENT**
Enter and manage marksheets of all students and generate automatic reports.
- **REPORTS AND CERTIFICATE MANAGEMENT**
Generate automatic reports and certificates and ease the daily work of administration.
- **MULTI-USER SYSTEM**
Give access rights based on users - students, parents, teachers, administration.
- **TEACHER LOGIN**
Individual teacher access so that they can view and manage their classes, enter marks and other details of their students.
- **PARENTS LOGIN**
Individual parent access so that they can view their child's reports.
- **LIBRARY MANAGEMENT**
Library Management System) is a ready to use module with a comprehensive set of features that help library managers in establishing and running their libraries.
- **MOBILE APP**
Teachers, students, parents and others staff can access information through mobile app.
- **DYNAMIC WEBSITE**
Each school should have their dynamic website.

All Required Analytics tools & Reports

8.1 Core School Management System

- -Teacher/Student Login
- -Nepali / English Language
- -school creation
- ◆ **Terminal Exam Setting**

Fields: Class, Subject, Exam Type, Participation, Practical Work, Quarterly,

Internal total, External Total,

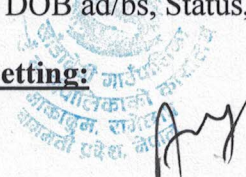
◆ **Account Master:**

Student Entry

excel import

Class, Section, Category, Gender, address, roll no, student Name, shift, permanent Address, current Address, home phone, email, Father Name, Father contact number, Mother Name, Mother contact number, Local Guardian Name, local guardian contact number, Previous school Name, Registration number, DOB ad/bs, Status, Photo

◆ **Admit card setting:**



- Fields: Title, school's name, address, authentication person.
- Authentication person can be entry manually.
- Multiple admit cards can be printed according to selected paper size.

◆ **Salary Request Form:**

Report menu: paper size, orientation, posted by, type (month selection etc.)

Report menu must include: Serial number, staff's name, Sheet roll number, level, qualification, training, temporary staff enrollment date, permanent staff date, first promotion date, second promotion date, first salary, total grade, EPF addition, CIT addition, principal allowances, expensive allowances, other allowances, total salary of a month, total salary of four-month, festival/dress allowance/total amount, Remarks.

◆ **Payroll**

School can make payroll.

◆ **Staff's entry:**

staff's name, category (teacher/non-teacher), address, qualification, contact number, teaching subject, faculty, entry date, sheet roll number, level.

◆ **Teacher setting:**

initial salary, grade, CIT addition, principal allowance, expensive allowance, festival allowance, uniform allowance, other allowance, active/non active.

◆ **School creation:**

Name of school, established date, printing name, address, district, slogan, contact no., school code, vat no., pan no., grade sheet's top slogan, principal's name, principal's contact no.,

class/section entry:

default classes can be downloaded from server.

◆ **Student marks entry:**

fields: class, section, exam, subject, student name, participation, practical work, terminal result, internal result, external exam, with proper validation.

◆ **Mark ledger/grade ledger:**

developing student-based mark ledger/grade ledger according to class, section, individual's student.

◆ **Result Management**

This area will also be automated to allow automatic generation of continuous assessment results, end of term report cards, transcripts, academic summary of a student or of the school/college at a glance and a lot of other academic reports as needed by the school/college from time to time. Major features of this module are listed below:

- ✓ Curriculum setup as per the school/college requirement.
- ✓ Weightage based evaluation system.
- ✓ Customizable report cards.
- ✓ Create different types of exams.
- ✓ Generate report for required exams.
- ✓ Automated, quick and on demand report generation.

◆ Attendance Management

Teachers and other staff's attendance should be recorded in biometric device at a real time. The features should also include students' attendance entry by class teacher. Biometric device include must include fingerprint, pin-code, electronic card-based attendance..

◆ Notifications/Alerts

. School should integrate with SMS, Email and Dashboard notification/alert system. The school/college should notify any number of Parent/Guardian for any reasons at all which will include academic performance, school/college programs, reminders etc.

8.1 Library management system

The core features of LIMAS are listed below.

- ✓ Automatically add similar books.
- ✓ Categories the books as per their nature.
- ✓ Barcode integrated.
- ✓ Easy to issue/renew/deposit books.
- ✓ Separately manage the books & journals.
- ✓ Customizable settings.
- ✓ Alert the students when the books are to be deposited.
- ✓ Track the book issue history.
- ✓ Reports on demand.

8.2. Mobile App(IOS and Android) Development.

Mobile app of school should have following features:

1	Students' login:	Timetable, Library, E-Learning, Academic Calendar, complain box, Online Exam & Result, Attendance & Leave request, Notice, Digital ID-Card and many more
2	Teacher login:	Time Table, Library, Academic Calendar, Exams, Payroll, Attendance & Leave request, Internal Notice and many more
3	Guardian login:	Homework & Assignment report, Academic calendar, Exam report, Attendance Report, Complain box Notice and many more....
4	Administrative Staff login:	Notices, Payroll, Attendances & many more....

5	Admin login:	Student/Employee Information, Complain/Feedback
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8.3 E-LEARNING

The delivery of the learning and training through digital resources. Teachers can upload teaching materials in portal according lesson, subject and grade

8.4 DYNAMIC WEBSITE

- ☞ Pop up image and title in homepage features
- ☞ Top header must contain Calendar, Routine (Class/Exam) according to class and section, Events, Downloads
- ☞ Header menu must contain Home, About(Introduction, Timeline Highlights, Board of directors, Message form Board of Director.), Our Programs., Gallery, Log in
- ☞ Should have image carousel.
- ☞ Should have Introduction, Notices down to image carousel.
- ☞ Note From the principal should appear down to introduction.
- ☞ News and Events should appear down to note from principal.
- ☞ Map should appear before the footer section.
- ☞ Footer section must include school logo and name, useful links, contact information.

Technical Specifications:

- Frameworks: Laravel 10, Bootstraps, react native (for app development)
- Databases-MySQL,
- Languages- PHP \geq 8.1
- Technologies- Web services
- Must Provide all the source code of software

