

BID DOCUMENT

NATIONAL COMPETITIVE BIDDING

SELECTION OF SYSTEM INTEGRATOR FOR “IMPLEMENTATION OF VIDYA SAMIKSHA KENDRA IN LADAKH”

TENDER NO.: EdCIL/DES/VSKLADAKH/2023

GEM Tender No.: GEM/2024/B/4835411

Dated: 03.04.2024



EdCIL (India) Limited

A Govt. of India Category-I Mini Ratna CPSE

EdCIL House, Plot No. 18A, Sector 16A,

Noida-201301 (U.P.) India

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This RFP is not an Agreement and is neither an offer nor invitation by EdCIL to the prospective Bidders or any other person. The purpose of this RFP is to provide interested parties with information that may be useful to them in making their financial offers (BIDs) pursuant to this RFP. This RFP includes statements, which reflect various assumptions and assessments arrived at by EdCIL in relation to the Project. Such assumptions, assessments and statements do not purport to contain all the information that each Bidder may require. This RFP may not be appropriate for all persons, and it is not possible for the EdCIL, its employees or advisors to consider the investment objectives, financial situation and particular needs of each party who reads or uses this RFP. The assumptions, assessments, statements and information contained in the Bidding Documents may not be complete, accurate, adequate or correct. Each Bidder should, therefore, conduct its own investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments, statements and information contained in this RFP and obtain independent advice from appropriate sources.

Information provided in this RFP to the Bidder(s) is on a wide range of matters, some of which may depend upon interpretation of law. The information given is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. The EdCIL accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein.

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assumption, statement or information contained therein or deemed to form part of this RFP or arising in any way for participation in this BID Stage.

EdCIL also accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any Bidder upon the statements contained in this RFP. EdCIL may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumptions contained in this RFP. The issue of this RFP does not imply that EdCIL is bound to select a Bidder or to appoint the Selected Bidder, as the case may be, for the Project and EdCIL reserves the right to reject all or any of the Bidders or BIDs without assigning any reason whatsoever.

The Bidder shall bear all its costs associated with or relating to the preparation and submission of its BID including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by EdCIL, site visits, investigations, studies or any other costs incurred in connection with or relating to its BID. All such costs and expenses will remain with the Bidder and EdCIL shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a Bidder in preparation or submission of the BID, regardless of the conduct or outcome of the Bidding Process.

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**Notice Inviting Tender
(e-Tendering mode)**

**EdCIL (INDIA) LIMITED
(A Govt. of India Mini Ratna CATEOGRY-I CPSE)
SECTOR 16A, NOIDA**

Date: 03.04.2024

N.I.T. No.: EdCIL/DES/VSKLADAKH/2023

Name of work	SELECTION OF SYSTEM INTEGRATOR FOR “IMPLEMENTATION OF VIDYA SAMIKSHA KENDRA IN LADAKH”
The Currency in which payment shall be made	Indian Rupees (INR)
Date of Issue/Publishing	03/04/2024
Last date & time for seeking clarification, if any	07/04/2024 till 15:00 hrs through email on destenders@edcil.co.in Pre bid meeting on 08/04/2024 at 11:00 hrs
Last Date and Time for receipts of Bids	15/04/2024 till 1500 Hrs In case a Holiday is declared on the day of the event, the same will be held on the next working day at the same time & venue.
Date and Time of Opening of Technical Bids	15/04/2024 at 15:30 Hrs
Earnest Money Deposit	Rs. 4,70,000 (Rupees Four Lakhs and Seventy Thousand Only) in form of Bank Guarantee / Demand Draft. Scanned copy to be uploaded with tender documents and original BG/ DD has to be submitted. In case EMD is submitted in the form of BG, the BG should be valid till 45 days after the bid validity date, as per Annexure-XI. The list of banks is detailed in Annexure-XV
No. of Covers	02 (Two Packets)
Bid Validity days	180 days (From last date of opening of tender)
Performance Bank Guarantee (PBG)	3% of the total work value of the successful bidder. PBG is required to be submitted within 7 days from the date of issue of LOA as per Annexure-XI

Email Address	ninadpatil@edcil.co.in , meghagupta@edcil.co.in , destenders@edcil.co.in
Corporate Office	EdCIL House, 18-A, Sector 16A, Film City, Noida, Uttar Pradesh 201301

Chief General Manager (DES)
EdCIL (India) Limited,
18 A, Sector-16A, Noida-201 301
Tel: 91-120-2512001 to 2512006

CHAPTER- I

Offline and Online Bid Submission Documents

1.1 Offline Submissions:

The bidder is requested to submit the hardcopy of the below mentioned documents in a Sealed Envelope and the hardware equipments to the under mentioned address before the start of Public Online Tender Opening Event.

The envelope shall bear name (the project name), the tender number and the words 'DO NOT OPEN BEFORE' (due date & time).

- I. Original copy of the EMD Security in the form of Demand Draft/BG.
- II. Original Power of Attorney / Board Resolution Copy on a non-judicial stamp paper

Note: The Bidder should also upload the scanned copies of all the above-mentioned original documents as Bid-Annexure during Online Bid-Submission.

1.2 Online Submissions:

The Online bids (complete in all respect) must be uploaded online as explained below: -

Sl. No.	Documents	Content	File Types
1.	Technical Bid	Technical Compliance as per Annexure-I	.PDF
		Organization Declaration Sheet as per Annexure-II	.PDF
2.		Letter of Undertaking as per Annexure-III	.PDF
3.		Undertaking of Non-Blacklisting as per Annexure-IV	.PDF
4.		Annual Average Turnover as per Annexure-V	.PDF
5.		List of Orders Completed During Last 3 years for Govt. Organizations / Autonomous Institutes in India as per Annexure VI	.PDF
6.		Components offered-BOM as per Annexure VII	.PDF
7.		Power of Attorney as per Annexure VIII	.PDF

8.		Letter of Bid Submission as per Annexure IX	.PDF
9.		Earnest Money Deposit as per Annexure X	.PDF
10.		Performa pre contract integrity pact as per Annexure XII	.PDF
11.		Manufacturer Authorization Form as per Annexure XIII	.PDF
12.		Contract Form as per Annexure XIV	.PDF
13.		Equipment Compliance as per Annexure- XVI	.PDF
14.		Performa for declaration on proceedings under insolvency and bankruptcy code, 2016 Annexure-XVIII	.PDF
15.	Financial Bid	Price bid sheet as per bid form and Financial Bid Submission Form	.PDF

Note: Technical Bid should not contain any financial terms and pricing.

CHAPTER-II

Term of Reference & Definitions

Term	Definition
Supplier	“Supplier” means any company responding to the SELECTION OF SYSTEM INTEGRATOR FOR “IMPLEMENTATION OF VIDYA SAMIKSHA KENDRA IN LADAKH”
Authorized Signatory	The bidder’s representative (explicitly, implicitly, or through conduct) with the powers to commit the authorizing organization to a binding agreement. Also called signing officer/authority having the Power of Attorney from the Competent authority of the respective Bidding firm.
Bid	"Bid" means the response to this document presented in Two Packets, Technical Cum Commercial Bid and Financial Bid, which are supplied with necessary documents and forms as given in Annexure, complete in all respect adhering to the instructions and spirit of this document.
Bidder	“Bidder” means any company responding to Request for Proposal and who makes a Bid.
Contract	“The Contract” means the agreement entered into between EdCIL and the selected bidder(s) in terms of clauses mentioned
Day	“Day” means a working day as per rules of EdCIL.
EMD	Earnest Money Deposit
D.D	Demand Draft
EdCIL	EdCIL (India) Limited, Noida (A Mini Ratna Category -I CPSE)
TC	Tender Committee
PBG	Performance Bank Guarantee
Security Deposit (SD)	Amount of the Order Value deposited by the Bidder and retained till the successful completion of the project (as long as the bidder fulfills the contractual agreement).
Services	“Services” means the services to be delivered by the successful bidder and as required to run the project successfully as per the Contract.
RFP/Tender	“ RFP ”/Tender means the Request for Proposals
Goods and Materials	“Goods and Materials” shall mean the articles, materials, equipment, IT Equipment, supplier’s drawings, data and other property and all services-including design, delivery, installation, inspection and maintenance support specified or required to complete the order and incidental thereto.
Order	“Order” shall mean the Purchase Order/Work order and its attachments and exhibits.
Consignee	“Consignee” shall mean EdCIL (India) Limited/ end client.
EdCIL/ Purchaser	“EdCIL/ Purchaser” shall mean EdCIL (India) Limited.

CHAPTER-IV

INSTRUCTION TO BIDDERS

4.1 Due date:

The tender has to be submitted before the due date and time. The offers received after the due date and time will not be considered.

4.2 Preparation of Bids:

The offer/ bid shall be submitted in two bid systems (i.e.) Technical Bid and Financial Bid. The technical bid shall consist of all technical details along with commercial terms and conditions. Financial bid shall indicate component wise price for all the mentioned component in the financial bid in the given PDF format.

4.3 Language of Proposal:

The proposal prepared by the firm and all correspondence and documents relating to the RFP exchanged by the bidder and the Client, shall be written in the English language, provided that any printed literature furnished by the firm may be written in another language so long as accompanied by an English translation in which case, for purposes of interpretation of the bid, the English translation shall govern.

4.4 Cost of Bidding:

The bidder shall bear all costs associated with the preparation and submission of its bid, including cost of presentation for the purposes of clarification of the bid, if so desired by the client and client will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

The firm is expected to carefully examine all instructions, forms, terms and specifications in the bid document. Failure to furnish all information required in the bid document or submission of a bid not substantially responsive to the bid document in every respect will be at the firm's risk and may result in the rejection of the bid.

4.5 EMD:

The Bidder should submit EMD through Demand Draft drawn in favor of "EdCIL (India) Limited" payable at NOIDA. The Bid sent without Bid fee and EMD would be considered as UNRESPONSIVE and will not be considered.

In case EMD is submitted in the form of BG, the BG should be valid till 45 days after the bid validity date, as per Annexure-XI. The list of bank is detailed in Annexure XV.

The bidder should enclose EMD of Rs. 4,70,000/- in the form of Bank Guarantee/ Demand Draft drawn in favour of EdCIL (India) Limited and payable at NOIDA, with the Technical Bid.

Note: Bidders registered with MSME and having valid registration certificate issued by NSIC/MSME are exempted for submission of EMD. However, MSMEs are advised to submit their financial solvency certificate issued not earlier than 3 months from the last date of bid submission.

4.6 Refund of EMD:

- I. The EMD will be returned to unsuccessful Bidder(s) after the award of the rate contract to the successful bidder.
- II. Earnest money will be forfeited if the bidder unilaterally withdraws the offer, or unilaterally amends, impairs or rescinds the offer within the period of its validity.
- III. In Case of Successful Bidder, the EMD shall be returned after submission of 3% Performance Bank Guarantee.

4.7 Acceptance/ Rejection of bids:

- I. EdCIL reserves the right to reject any or all offers without assigning any reason.
- II. EdCIL based on the requirement without assigning any reason to the Bidder may split work/Scope/Bid offer in stages or in parts according to the need of work for ease of execution of work.

4.8 Performance Security

- I. The successful bidder should be required to deposit Performance Bank Guarantee equivalent to 3% of contract value to EdCIL within 7 days from the date of receipt of Work Order. The Performance Bank Guarantee (PBG) should be issued in favor of "EdCIL (India) Limited"

to be valid for a period of 90 days beyond the date of completion of Contract period. This Performance Bank Guarantee should be retained throughout the currency of the contract and should be extended by the bidder from time to time, as required by EdCIL. The list of bank is detailed in Annexure XV.

- II. PBG shall be returned to the successful bidder only after 90 days of the successful completion of the Contract. In case of any shortfall of any activity/ specification/ other terms and conditions of the contract, EdCIL reserves the right to recover damages or loss from the due the payment or by the encashment of PBG.

4.9 Amendment in Tender Document

At any time up to the last date for receipt of RFP, EdCIL may, for any reason, whether at his own initiative or in response to a clarification requested by a prospective firm, modify the Bid Document by an amendment. The amendment will be notified on EdCIL's website and will be binding.

CHAPTER-V

Scope of Work

EdCIL India Limited on behalf of Department of Education, Government of Ladakh invites sealed Proposal (Technical & Financial) from Prospective Bidders/Agencies to participate in tender for the implementation of Vidya Samiksha Kendra (VSK) in the State of Ladakh.

About Vidya Samiksha Kendra (VSK)

Vidya Samiksha Kendra (VSK) is a nationwide programme launched by the Ministry of Education, Government of India. VSK is aimed at leveraging data and technology to bring a big leap in learning outcomes. This can cover data of approx. 15 thousand schools, 56 thousand teachers and 10 lakhs students, and analyze them meaningfully using big data analysis, artificial intelligence and machine learning to enhance the overall monitoring of the education system and, thereby, improving learning outcomes. The ability to effectively collect, monitor, correlate, and analyze data will lead to timely actions to implement schemes. Various initiatives of the Ministry of Education like UDISE, Student Database, NAS, NIPUN Bharat, Teacher Database, DIKSHA etc. are efficient systems that operate in silos. Integrating various data sets and breaking through the barrier of operating in isolation will help to effectively leverage different entities toward a common goal.

NDEAR Complaint VSK Starter Pack

As per the NDEAR Compliant VSK Principles and Guidelines, the starter package of VSK includes three components viz., open-source software, physical infrastructure and PMU.

Open-source Software

Ready to install open-source software, that enables data ingestion, analysis, and visualization that comes as a part of the starter pack and is also further configurable. While developing the software, CIET-NCERT leveraged and contributed to NDEAR building block “Open data and Analytics”. Their objective was to ensure that the solution developed is open-source, expandable, shareable and reusable by all the states/UTs, central agencies and many other participants in the education ecosystem. To adhere to the “Technology architecture principles” of NDEAR, the software is built on open-source, and using open-standards, evolvable, emit data by design, enables distributed observability for data-based decision making, action ability, unbundled and combinable, provides choice by design,

federated and interoperable, ecosystem driven, leverages and unifies existing systems. The software comes with 6 pre-configured programs for the states. These are:

- UDISE
- DIKSHA
- Performance Grading Index (PGI)
- National Achievement Survey (NAS)
- PM POSHAN
- NISHTHA

Physical Infrastructure (Hardware) for VSK

A physical space is where key stakeholders can come together, connect with State, district, block and cluster level stakeholders via video conferencing to enable understanding of the action that data is nudging, create an action plan, enable ownership of actions and track progress. At the VSK centre, the following are required to be established:

S.No.	Name of item	Qty.
1.	Video wall (Active LED)	1 Lot
2.	Video controller, Multi viewer, HDMI Splitters, and Switchers for input out controls, Drive, signal amplification etc required for completing the set up	1 Lot
3.	Acoustics	1 lot
4.	Table	13 Nos.
5.	Round table with 4 chairs	1 lot
6.	Revolving Chairs with Arm	13 Nos.
7.	All in One PC	13 Nos.
8.	Video conferencing hardware and software	1 Lot
9.	Smart Podium with inbuilt computer with Audio System	1 No.
10.	6 nos. CCTV cameras with DVR with 2 TB Internal Surveillance grade hard disk	1 No.
11.	10 KVA online UPS with 30-minutes battery backup for Video Wall/Active LED, Smart Podium and Audio System	1 No.
12.	6 KVA online UPS with 30-minutes battery backup for computers systems, CCTV, NAS Storage, LAN Switch and Video Conferencing Setup	1 No.
13.	48 TB NAS for data storage	1 No.
14.	24 Port GBPS LAN Switch	1 No.
15.	Associated cabling (CAT 6) for networking/ CCTV wiring/, Connectors, I/O box, installation/misc. items, etc as per site requirements	1 lot

16.	Split air-conditioner hot and cold 2 Ton	4 Nos.
17.	65 inch Interactive Flat Panel for display of VSK at Director Office.	1 No.
18.	43-Inch Full HD Professional Display for CCTV output	1 No.

Note: During the period of contract, EdCIL reserves the right of varying components within the range of the total contract value up to $\pm 50\%$ without any increase in the prices of the individual items and/or other terms and conditions.

Technical Specifications:

1. Video wall (Active LED):

Feature	Descriptions
Environment	Indoor
Maintenance	Front
Pixel Pitch	1.89 mm or better
LED Type	3-in-1 SMD
Brightness	600 cd/m ² or more
Brightness Uniformity	$\geq 97\%$ or better
Brightness Control	Programmable/Automatic/Manual
Contrast Ratio	5000:1 or more
Colour Temperature	3200-9300 K or better
Viewing Angle	H: 160 degree; V:120 degree
Viewing Distance	≥ 1.8 m or better
Pixel Density	262144 pixels / m ² or better
High Dynamic Range	Supported
Processing Depth/ Grey Scale	14 bits or better
Operating Temperature	-20 degree C ~ 40 degree C or better
Operating Humidity	10~80%RH
Acoustic Noise	Fanless operation
Video Frame Rate	50 or better
Refresh Rate	3840 Hz or better
Input Voltage	100-240V AC
LED Life Time	$\geq 100,000$ Hours or More
Power Consumption (max)	Maximum 600 W per square meter
Gap Between Modules	Seamless, zero bezel width
Required LED wall Size (W x H) mm	Width 15.7 feet / 4.8m or more Height 5.5 feet / 1.69 m or more
Certification	IP 50 and BIS is required

Cabinet Material	The cabinet material should be Aluminium
Service Center of OEM	OEM should have their authorized service center in J&K/ Ladakh and Bidder is required to submit OEM declaration along with GST registration certificate.
LED wall controller	
Feature	Descriptions
Input	1x DVI/HDMI
LAN Output	2 or more
Control	1x USB/RS232
Certification	BIS certification required

2. Video controller, Multi viewer, HDMI Splitters, and Switchers for input out controls, Drive, signal amplification etc required for completing the set up:

Video controller, Multi viewer (upto 8 in and 4 out), HDMI Splitters and Switchers for input out controls, Drive, signal amplification etc. required for completing the set-up of Video Wall.

Multiview software:

Item Name	Parameters	Minimum Specifications
Multiview software	Multiview software	Multi display system Management software, capable of displaying multiple inputs simultaneously on Display system. Capable of display system as single logical screen, capable of resizing & re-locating multiple input displays on the Multi display system, Should support Drag & Drop of Screen etc. All necessary Cables & Connectors to be provided. Should Support of Single Input or multi inputs on single screen. Multiview software solution should be provided for Vidya Samiksha Kendra

3. Acoustics:

Feature	Descriptions
Acoustic Panel for walls sound proofing	As required basis room area and Sound Proofing is not required

At least 2 fire extinguisher of ABC 4 kg per room to be provided / wall mounted

1 Set

4. Table:

- Approximate table height 750mm, Length 1200mm, Depth 600mm.
- The size may be changed as per the requirement of the site.
- Table Top should be Approximate 25mm Pre laminated Engineered wood with 1.5mm or more Machine Edge banding.
- Drawer 18 mm Pre laminated Engineered wood.
- Modesty Panel should be provided.
- Electrical cabling from nearest wall socket to the user tables as per the site requirement, to be done by the vendor free of charge.
- Tables should preferably be made/assembled on-site, as per the site requirements.
- Provision of Drawers/Keyboard slide out etc. to be done
- Material of the Tables should be sturdy and long lasting – Board/Plywood with Mica pasted on top and sides or Pre laminated Engineered wood or Other long lasting material.
- Minimum warranty of tables should be three year
- Fiber separators to be provided on the table as per User design.
- Provision of Drawers/Keyboard slide out and Connections/System with HDMI, LAN Socket and Power socket etc. to be done.

5. Centre table with 4 chairs:

One centre table:

18mm Prelaminated board, with edge bending, size of table 30 inches x 24 inches.

Chair:

Item Name	Parameters	Minimum Specifications
Revolving Chair with Arm	Back	Cushioned back made of moulded foam.
	Seat	Seat cushion made of Moulded PU foam and Hot-pressed plywood
	Push back	Push Back Mechanism
	Adjustable	Height adjustable with Armrest
	Castor	Castor for 360 movement of chair

6. Revolving Chairs with Arm:

- The seat is made up of 1.5 ± 0.1 cm thick hot - pressed plywood upholstered with fabric and moulded polyurethane foam.
- SEAT ASSEMBLY: 47.00CM (W) X 45.70CM(D), The Back is injection moulded in Glass filled Polypropylene which is upholstered with Mesh fabric.
- The back consist of adjustable lumbar support made of injection moulded Polypropylene having a nominal thickness of 0.3 ± 0.02 cm.
- BACK SIZE: 48.00 cm(W) x 57.60 cm(H).,The polyurethane foam for seat is of density= 48 ± 3 kg/m. The armrest is made of injection moulded Polypropylene which is connecting seat and back. The mechanism is designed with the following features:
 - *360° revolving type.
 - *Centre - Tilt.
 - *Tilt with upright lock.
- The pneumatic height adjustment has a stroke of 10 ± 0.5 cm. The pedestal is injection moulded Polyamide and fitted with 5 nos. twin wheel castors. The pedestal is 66.1 ± 0.5 cm P.C.D. The twin wheel castors are injection moulded in black Polyamide having 6.0 ± 0.1 cm wheel Diameter.

7. All In One:

	Parameters	Minimum Specifications
All in One PC	Display	23.8" or Higher LED Backlight Panel
	Native Resolution	Resolution of 1920x1080 or higher
	Contrast ratio	1000:1 or better
	Aspect Ratio	16:9
	Brightness	250 nits (cd/m ²) or better
	Audio	High Definition Audio
	Webcam	2.0 MP Full HD Webcam or better
	CPU	Intel Core i7 Intel (10th gen or better)
	RAM	8 GB RAM or better
	Hard Disk	1 TB SSD or better
	In-Built Wi-Fi / Wireless LAN Card	Should have an inbuilt Wi-Fi / Wireless LAN Card
	Ports (Minimum)	DP/HDMI x 1, USB ports x 2, LAN Port x 1
	Standard Keyboard	Wired Keyboard
	Optical Mouse	Wired Mouse
	Operating System	Windows 11 professional or better

8. Video conferencing hardware and software with Omni directional Microphone:

Feature	Descriptions
Sensor	1/2.8", CMOS, Effective Pixel: 2.07M
Scanning Mode	Progressive
Lens	f3.5mm ~ 42.3mm, F1.8 ~ F2.8
Optical Zoom	12x or higher
Digital Zoom	16x or higher
Minimal Illumination	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Video S/N	≥55dB
Horizontal Rotation Range	±170 degree
Vertical Rotation Range	Minus 30 degrees ~ Plus 90 degree
Pan Speed Range	2.7 degrees ~ 35 degrees per second or better
Tilt Speed Range	1.7 degrees ~ 31 degrees per second or better
H & V Flip	Support
Image Freeze	Support
Number of Pre-set	255, 10 pre-sets on Remote control
Pre-set Accuracy	0.1°
Video System	1080p/60, 1080p/50, 1080p/30, 1080p/25
USB Featured	
Operate System	Windows 7, Windows 8, Windows 10, Mac OS X, Linux, Android
Colour System	YUY2 / H.264 / MJPEG
Video Format	YUY2 (ISOC): 1080P@60fps H.264 AVC/SVC: 1080P@60fps MJPEG: 1080P@60fps
Audio on USB	Support
USB Video Communication Protocol	UVC 1.1~1.5
IPC Features	
Video	H.264/MJPEG
Video Stream	Main Stream, Sub Stream
Main Stream Resolution	1920x1080, 1280x720, 1024x576

Sub Stream Resolution	1280x720, 720x576, 320x240
Video Bit Rate	328Kbps ~ 20480Kbps
Bit Rate Type	Variable Rate, Fixed Rate
Frame Rate	50Hz: 1fps ~ 50fps, 60Hz: 1fps ~ 60fps
Audio	AAC
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Support protocols	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast
Operational Requirement	
Redundant Power Supply	Device should Support Minimum three power supply method for power redundancy Supports USB 5V power supply, 12V power adapter power supply and PoE power supply.
PoE Power Supply & Controlling	Device should Support PoE power supply for control, Video and audio only need one network cable.
Simultaneous Video Output	Device Should support HDMI,USB3.0 and LAN interface based Video output HD video at the same time.
Low Light	Device Should support High SNR of CMOS sensor, even under low illumination conditions, picture can still keep clean and clear.
Remote Control	All the parameters of the camera can be remote controlled by the high-speed communications
Input/Output Interface	
Video Output	1xUSB3.0/ 1x USB TypeC, 1x HDMI, 1x RJ45
Network Interface	1xRJ45: 10M/100M Ethernet Interface
USB Interface	1x USB 3.0 Type-C
Audio Interface	1-ch: 3.5mm Audio Interface Line In
Communication Interface	1xRS232 In, 1xRS485
Power Jack	JEITA type (DC IN 12V)
Generic Specification	
Input Voltage	DC 12V, DC 5V, PoE(802.3af)
Current Consumption	12V - 1.0A(MAX) / 5V - 1.5A(MAX)
Operating Temperature	0°C ~ 40°C
Storage Temperature	-20°C ~ 60°C
Power Consumption	12W (Max)
Certifications	BIS certification required
Technical Specifications for Omnidirectional Microphone	
Connectivity	wireless USB, Wired USB, Aux IN/Out, Bluetooth

Special features	Device should have capability to cascade with maximum upto 2 mic and both should be operate as a single unit
Battery Life	8 Hours or better
Inbuilt Speakers	Should have minimum (5W+5W) speakers or better
Inbuilt Mic	Should have inbuilt 6 microphone connected in array
Range of Mic	Audio pickup range of 6 mtr or better.

9. Smart Podium with inbuilt computer with Audio System:

Feature	Descriptions
Type/Mounting	Free Standing
Construction	The enclosure should be made of Polycarbonate/Metal Body and Steel Frame with Soft wheels. The Top sliding (Opening/Closing) cover should be made of Polycarbonate Body. The construction of the podium should be such that, while the podium is locked and not in use, there should not be any port exposed on the outer body for breakage/mishandling.
Display	Built-in highly sensitive Interactive Panel with adjustable Motorized tilt & a mechanism to make the Panel stable so that it does not shake while writing with following minimum features -
Technology	Interactive Panel should have both EMR (Electro magnetic resonance) & P-CAP touch technologies to have finger and 2 mm thick touch stylus
Screen Type	LED
Size	53.0 cm (21 inches) or higher
Resolution	1920 x 1080 or higher
Aspect ratio	16.09
Computer interface	One USB, One VGA/DVI/HDMI Port
Interactive Resolution	4000 Lpi (lines per inch)
Response Time	5ms
Viewing Angles	170(H) ; 160(V)
Touch	Finger and Stylus
Reading accuracy	±0.5 mm (centre)
Tracking speed	Approximately 200 points per second
Pen Pressure sensitivity	1024 Levels
System Details	
Processor	Intel Core i5 (10th Gen or better processor)

Small Form Factor	Computer should be of 2 liters Volume or less
In-Built Wi-Fi /Wireless LAN Card	Should have a inbuilt Wi-Fi / Wireless LAN Card
RAM	8 GB or better
Storage	256 GB SSD or better
Ports (Min.)	HDMI x 1, USB ports x 4, LAN Port x 1
Keyboard & Mouse	Wireless
Operating System	Windows 10
Certificate	BIS Certificate required for Mini PC
Multimedia Controller	
Ports on front Panel of Controller (Minimum)	VGA,HDMI,USB3.0x2,Audio IN or more
Buttons on front Panel of Controller (Minimum)	Push buttons to control Volume Up& Down, Volume Mute and to switch sources of HDMI Visual Presenter, VGA Visual Presenter, HDMI Laptop, PC HDMI,VGA Laptop, VGA PC and Controller Power On/Off, Display Power On and Power Off or more
Ports on Rear Panel of Controller (Minimum)	USB 3.0x2, HDMI In x 2, HDMI Out x 1, Audio Out 3.5mm, VGA Out x 1 or more
Built in HDMI Repeater	Yes (HDMI Output port should support 15mtr HDMI cable)
Controller Resolution Output	4K (3840 x 2160) Native
Power	5 V DC (Suitable Adaptor should be supplied with controller)
Built in devices	
Built in Amplifier Power	Amplifier : Class D Rated Power : 200 W or better Impedance : MIC input: 5mV / 600Ω balanced; AUX1,2 input: 350mV / 10KΩ unbalanced RCA connection terminal Mic Input : Minimum 2 input or better Line Input : Minimum 1 input or better Output : MIX OUT: 1000mV / 470Ω unbalanced RCA connector

	<p>Tone : Bass: $\pm 10\text{dB}$ at 100Hz; Treble: $\pm 10\text{dB}$ at 10KHz Frequency Response : 80Hz ~16KHz (+ 1dB, -3dB) SNR : MIC1,2,3: 66dB; AUX1,2: 85dB THD : $< 0.05\%$ (at 1KHz, 1/3 rated power) ; EMC is prior to all audio inputs Channel Crosstalk Attenuation : $\geq 50\text{dB}$ Heat Dissipation : Side-in and rear-out forced fan cooling; fan starts automatically when the device is turned on; infinitely variable speed Protection : Overcurrent protection, short circuit protection Power Supply : AC ~ 220V / 50Hz Power Consumption : 300W</p>																								
Speakers	<p>Two speakers of Minimum 50 W each shall be a part of standard supply.</p> <table border="0"> <tr> <td>Speaker Type</td> <td>:</td> <td>2 Way drivers</td> </tr> <tr> <td>Effective frequency range</td> <td>:</td> <td>100 Hz – 17 kHz</td> </tr> <tr> <td>Rated power</td> <td>:</td> <td>50 watts</td> </tr> <tr> <td>Sensitivity</td> <td>:</td> <td>90 dB or Better</td> </tr> <tr> <td>Impedance</td> <td>:</td> <td>8Ω ohm</td> </tr> <tr> <td>LF transducer</td> <td>:</td> <td>8-inch woofer or better</td> </tr> <tr> <td>HF transducer</td> <td>:</td> <td>2-inch tweeter or better</td> </tr> <tr> <td>Mounting</td> <td>:</td> <td>With mounting bracket fixed by screw</td> </tr> </table>	Speaker Type	:	2 Way drivers	Effective frequency range	:	100 Hz – 17 kHz	Rated power	:	50 watts	Sensitivity	:	90 dB or Better	Impedance	:	8 Ω ohm	LF transducer	:	8-inch woofer or better	HF transducer	:	2-inch tweeter or better	Mounting	:	With mounting bracket fixed by screw
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Mounting	:	With mounting bracket fixed by screw																							
Wireless Microphone Units	One handheld Microphone and One Lapel Microphone with single receiver should be supplied with a range of 10 meters.																								
Gooseneck Microphone	Gooseneck Microphone with XLR output. It should be Phantom powered so that there is no requirement of batteries thereby eliminating consumable cost. The gooseneck length should be at least 21.5cm. The gooseneck microphone shall be permanently polarised condenser, highly directional featuring hyper cardioid /lobar directivity																								
Sliding Trays	Provision for keeping Keyboard & Mouse																								
Power Supply	180 -240V, 50Hz, AC Supply																								

10.6 nos. CCTV cameras with NVR with 2 TB Internal Surveillance grade hard disk:

2MP Dome Network Camera (05 Nos.)

S.No.	Specifications
1	Camera should Incorporate 1/2.7 Progressive Scan CMOS
2	Camera shall Provide at least 1920x1080 Effective pixels
3	Camera should support IR Distance 30 Mtr.

4	Camera Should Support Minimum Illumination Color: 0.01 Lux@F1.2 B/W: 0Lux with IR on
5	Camera Should have Minimum Shutter Speed : Auto/Manual, 1s ~ 1/100000s
6	Camera Should have Dual Stream
7	Camera should be support Primary Stream: 1920×1080, 1280×720 @ 25/30fps
8	Camera should be support Second Stream: 704×576, 640×360, 480×360, 352×288 @ 25/30fps
10	Camera should offer H.265,H.264, H.264H,MJPEG Video Compression Standards : Should be listed on HEVC & AVC Website
11	Camera Should Support Fixed Lens 2.8mm (Acceptance of ± 10%)
12	Viewing Angle Supported by the Camera should be Horizontal: 110.0° Vertical: 59.0°
13	Bandwidth limit should be adjustable between 32Kbps ~ 8192Kbps
14	Signal/ Noise Ratio: More Than >55dB
15	Automatic Gain Control, White Balance, Electronic Day & Night(ICR)
16	Ethernet : 1*RJ45 10M/100M
17	Supports 3D Noise Reduction
18	Camera Should Support Inbuilt Analytics : Intrusion and line crossing based on human detection
19	Privacy Masking Should be valid for up-to 4 areas.
20	Camera should support:DWDR
21	Camera Should Support all These Network IPv4, RTSP/RTP/RTCP, TCP/UDP,DHCP, DNS, DDNS, UPNP, ICMP, IGMP, NTP, SMTP, 802.1x, SNMP, HTTP/HTTPS, PPPOE
22	Camera Should Support Event Trigger: Motion Detection, Network Disconnection, External Input, Alarm, etc.
23	Camera Should Support Event Action : SMTP Upload, SD Card Record, HTTP Notification, etc
24	Camera Should Support IPV4 and IPV6 Network Addressing
25	Camera shall be compliant with ONVIF Profile G,S,T : Should be listed on Onvif Website
26	Camera Should be remotely viewed at Android, Windows Phone
27	Camera should be accessed by minimum 10 Users simultaneously
28	Camera should support On board storage : microSD up to 256GB
29	Power Consumption : Max 5.5W
30	Camera Should Support Various Power Parameters:PoE (802.3af)/ DC 12V±10%
31	Temperature range should vary in between: '-40°C~60°C, Humidity :0~90%(Non-condensing)
32	Product should be BIS, CE, FCC ,RoHS, certified. Copy of certificate need to be submitted along with the Bid
33	Country of Origin: No Bidder as well as OEM with Investors, Venture Capitalist, Consortium members, Shareholders, directors from neighbouring countries will be allowed to participate in the Bid. Non-compliance shall

	result in rejection of Bid. A declaration to be submitted by Bidder & OEM.
34	Products: All Cameras, Recorder & PoE switches should be from same OEM

Panoramic Network Camera (1 No.):

S.No.	Parameters	Specifications
1	Image Sensor	1/2.7" Progressive Scan CMOS with ±20% acceptance on Sensor Size
2	Recording Resolution	2560x1440 Recording Resolution or better
3	IR Distance	20 Mtr or Better
4	Minimum Illumination	Color:0.001Lux @ F1.2 B/W: 0Lux with IR on
5	Shutter Speed	Auto/Manual, 1s ~ 1/100000s
6	Video Stream	Individually configurable triple stream Primary Stream :25fps@2560x1440 Second Stream: 25fps640x480 Third Stream :25fps@1920x1080
7	Video Compression	H.265+, H.265, H.264, MJPEG
8	Lens	Multi-lens/dual-lens/single lens cover 180° Panoramic View
9	Viewing Angle	Horizontal 180°, Vertical 95°
10	Bandwidth	32Kbps ~ 8192Kbps
11	Signal/ Noise Ratio	>60dB
12	Electronic Day & Night (ICR)	supported
13	Ethernet	1*RJ45 10M/100M
14	Noise Reduction	Supports 3D Noise Reduction
15	Audio Compression	G.711/AAC/G.722/G.726
16	Privacy Masking	up-to 8 areas or better
17	Wide Dynamic Range	Minimum 120dB or better
18	Advanced Function	BLC, HLC, 2D DNR, 3D DNR,ROI.AWB,IP Address Filtering, AGC, Corridor Mode, Watermark
19	EIS Feature	supported
20	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, PPPoE, 802.1x, QoS, IGMP, ICMP, SSL
21	Video Analytics	Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed
22	Audio interface	Built-in Microphone
23	Event Trigger	Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.
24	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output etc

25	Compatible Integration	G,S, T
26	VoIP	Camera must support SIP Protocol & Integrate with Major Brands of VoIP Phones
27	On-board storage	microSD/SDHC/SDXC Card Local Storage, up to 256GB
28	Edge Storage	Cameras should be support 256GB SD Card In the event of failure of connectivity to the network storage the camera shall record video locally on the SD card automatically. After the connectivity is restored, these recordings shall be automatically pulled by the network storage recorder such that no manual intervention is required to transfer the SD card-based recordings to network storage
29	Power	PoE (802.3af) / DC 12V±10%
30	Country of Origin	Country of Origin: No Bidder as well as OEM with Investors, Venture Capitalist, Consortium members, Shareholders, directors from neighbouring countries will be allowed to participate in the Bid. Non-compliance shall result in rejection of Bid. A declaration to be submitted by Bidder & OEM.
31	Certifications	Product should be BIS, CE, FCC ,RoHS,IP67 & IK10 certified. Copy of certificate need to be submitted along with the Bid

8 Ch Network Video Recorder:

S.No.	Specifications
1	The NVR Should have Dual-Core Embedded Processor
2	The NVR must be available as a Rack mountable standalone device with on-board hard disk recording and should allow Web Based management
3	The standalone NVR Hardware Must run on Linux OS.
4	Vedio Input Channel :8Ch.
5	The Linux NVR must Incorporate on-board security to protect it from Unauthorized access by blocking network ports not used and having an on-board IP based firewall.
6	NVR should support Incoming Bandwidth :50Mbps.
7	NVR should support Outgoing Bandwidth : 40Mbps
8	NVR should support Total Throughput : 90Mbps
9	NVR should support HDMI-1 Output Resolution:2560×1440,1920×1080, 1280×720, 800×600, 1024×768, 1366×768, 1440×900, 1280×800
10	NVR should support VGA-1 Output Resolution: 1920×1080, 1440×900, 1366×768, 1280×800, 1280×720, 1024×768, 800×600
11	NVR should support Recording Resolution:6MP, 5MP, 4MP, 3MP, 1080P, UXGA, 720P, VGA, 4CIF, DCIF, 2CIF, CIF, QCIF
12	NVR should support Synchronous Playback :1x6MP, 1x5MP, 1x4MP, 1x3MP, 3x1080P, 4x720P
13	NVR should should offer a H.265+, H.265, H.264 Video Compression

	Standards
14	NVR should support Recording Stream: Single Stream Supported
15	NVR should support Screen Split:1/3/4/5/6/7/8
16	NVR should support Audio Output: 1*RCA
17	NVR Should Support Video Content Analytics
18	NVR Should Support Trigger Events : Recording, PTZ Setup, Sequence Interval, Buzzer and Screen Tips.
19	NVR Should Support Abnormal Warning: Network Disconnect, Disk Full, Record Failed, Disk Error, No Disk.
20	NVR Should Support Recording Type :Continuous, Event (Motion Detection, Alarm, VCA, Smart Analysis)
21	The NVR must automatically manage free disk space by deleting recordings older than the specified number of days or when a minimum disk space threshold is met
22	NVR should have Web based support for system configuration & Diagnostics
23	Network Interface:1xRJ45 self-adaptive 10/100 Mbps network interface
24	NVR should support Network Protocol :TCP/IP, ICMP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, IGMP, QoS
25	NVR should support record interval of 1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec
26	NVR should support all these Playback functions: General Playback- Play, Pause, Stop, Rewind, Fast play, Slow Play, Event Playback, Picture Playback, Playback Zoom
27	NVR should support :ONVIF PROFILE
28	NVR should be viewed remotely at iPhone, Android, Windows Phone
29	NVR should support Internal Hard Disks: 1 SATA interface for 1 HDDs, Up to 10TB for each HDD
30	NVR should support USB Interface: 2xUSB 2.0
31	NVR should support AES Encryption :AES128
32	NVR should support : 32 User/Host
33	NVR should support Auxiliary Interface: 1 HDMI, 1 VGA, 2xUSB 2.0
34	Power Supply: DC-12V 3.33A
35	Power Consumption : ≤10W (without HDD)
36	Temperature range should vary in between Temperature: -10°C~55°C, 10%~90% RH
37	Certificate: CE, RoHS ,BIS,FCC

8 Port Fast Ethernet PoE Switch with 2 Gigabit Uplink Port:

S.No.	Specifications	
1	Network Port	Switch should Support: 8*10/100Mbps RJ45 PoE Port 2*10/100/1000Mbps RJ45 uplink port

2	Network protocol standard	switch should support these network protocol IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.ab, IEEE 802.AF/AT
3	Output Power	switch support power output Up to 30Watt Max.
4	PoE Power Budget	switch should support power Budget :120 Watt
5	PoE Mode	End-span
6	Extend Mode	switch should support Extend mode Up to 250m
7	VLAN	switch must Support VLAN
8	Switching Capacity	Switch should support 16Gbps Bandwidth
9	Forwarding Rate	switch should support forwarding rate 100Mbps:148800pps 1000Mbps:1488000pps
10	MAC Address	MAC address table 4K
11	Forwarding Mode	Store and forward
12	Port Function	Power priority mechanism, fast and forward, MAC automatic learning and aging IEEE802.3X Full-duplex and mode and backpressure for Half-duplex mode
13	LED Indicator	Each port has one LINK/ACT PoE Status indicator, whole power indicator
14	Power Input	Single, AC 100~240V, 50/60 Hz
15	Working Temperature	-10°~ 55°C

11. 10 KVA Online UPS with 30 min battery backup:

Feature	Descriptions
Rating in KVA (KVA)	10.0 KVA Single Phase In and Single Phase out
Technology	IGBT-PWM with inbuilt isolation transformer
Input Power single phase	160V - 260V sinewave,50Hz
Output power	Single phase 230V +/-1% sinewave 50 Hz
Backup time (Minutes)	30
Movable trolley for Batteries	With rack
Degree of Protection	IP20
Type of Battery	SMF-VRLA
20% Overload limit	For 1 Minutes or better
Overall Efficiency (%)	>/=90%
50% Overload time	1 seconds or better
Certifications	ISO 9001, ISO 14001, CE, ROHS, BIS, ISO 45001
Country of origin	India (Manufacturing units present in India)

12. 6 KVA Online UPS with 30 min battery backup:

Feature	Descriptions
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Rating in KVA (KVA)	6.0 KVA Single Phase In and Single Phase out
Technology	IGBT-PWM with inbuilt isolation transformer
Input Power single phase	160V - 260V sinewave,50Hz
Output power	Single phase 230V +/-1% sinewave 50 Hz
Backup time (Minutes)	30
Movable trolley for Batteries	With rack
Degree of Protection	IP20
Type of Battery	SMF-VRLA
20% Overload limit	For 30 seconds or better
Overall Efficiency (%)	>/=90%
50% Overload time	1 seconds or better
Certifications	ISO 9001, ISO 14001, CE, ROHS, BIS, ISO 45001,
Country of origin	India (Manufacturing units present in India)

13. 48 TB NAS for data storage:

Features	Description	Qty
FRONT STORAGE	3.5 Chassis	1
BACKPLANE	SAS/SATA Bacapiane	1
REAR STORAGE	2x2.5 Rear Storage	1
Trusted Platform Module	Trusted Platform Module 2.0 V3	1
Processor	Intel Xeon Silver 4309Y 2.8G, 8C/16T, 10.4GT/s, 12M Cache. Turbo. HT (105W)	1
	DDR4-2666	1
Chassis Configuration	3.5" Chassis with up to 12 HDDS (SAS/SATA), 2x2.5" Rear HDDs (SAS/SATA) Adapter PERC	1
Additional Processor	Intel Xeon Silver 4309Y 2.8G. 8C/16T, 10.4GT/s, 12M Cache, Turbo, HT (105W) DDR4-2666	1
Additional Processor	Additional Processor Selected	1
Processor Thermal Configuration	Heatsink for 2 CPU configuration (CPU less than 165W)	1
Memory Configuration Type	performance Optimized	1
Memory DIMM Type and Speed	3200MT/s RDIMMs	1
Memory Capacity	16GB RDIMM, 3200MT/s, Dual Rank	2
RAID Configuration	RAID 1 on Rear + Unconfigured RAID	1
RAID/Internal Storage Controllers	PERC H755 Adapter Full Height	1
Hard Drives	4TB Hard Drive SATA 6Gbps 7.2K 512n 3.5in Hot-Plug	12

Hard Drives (PCIe SSD/Flex Bay)	2.4 TB 10K RPM SAS ISE 12Gbps 512n 2.5in Flex Bay Hard Drive	2
BIOS and Advanced System Configuration Settings	Performance BIOS Settings	1
Fans	High Performance Fan x6	1
Power Supply	Dual, Hot-Plug Power Supply Redundant (1+1), 1400W, Mixed Mode	1
Power Cords	Jumper Cord-C13/C14, 2M, 250V, 10A (India BIS)	2
Power Cords	Power Cord-C13, 1.8M. 250V, 10A (India)	2
PCIe Riser	Riser Config 6, 4x8, 2x16 slots	1
Motherboard	R750 Motherboard with Broadcom 5720 Dual Port 1Gb On-Board LOM-for ICC government order	1
Embedded Systems Management	iDRAC9, Enterprise 15G	1
OCP 3.0 Network Adapters	Broadcom 57416 Dual Port 10GbE BASE-T Adapter, OCP NIC 3.0	1
Bezel	2U Standard Bezel	1
Boot Optimized Storage Cards	Assembly BOSS Blank	1
Quick Sync	No Quick Sync	1
Password	iDRAC, Factory Generated Password	1
Group Manager	iDRAC Group Manager. Enabled	1
Regulatory	BS2 label, ICC	1
Regulatory	EMC label (BIS) for 3.5 Chassis (R750)	1
Rack Rails	ReadyRails Sliding Rails	1
Server Accessories	8X DVD-ROM USB, EXTERNAL	1
Server Accessories	Fan Foam HDD 2U	1
Server Accessories	Internal USB 3.0 Card	1
Software		
Advanced System Configurations	UEFI BIOS Slot Mode with GPT Partition	1
Embedded Systems Management	OpenManage Enterprise Advanced	1
Operating System	Windows Server 2022 Standard 16CORE FI, No Med, No CAL, Multi Language	1
OS Media Kits	Windows Server 2022 Standard, 16 CORE DF Recovery Image, Multi Lang (Downgrade not included)	1

OS Media Kits	Windows Server 2022 Standard, 16CORE Media Kit Multi Lang. (Downgrade not included)	1
OS Media Kits	Windows Server 2022 Standard, No Media WS2019 Std Downgrade DF Media, Muti Language	1
OS Media Kits	Windows Server 2022 Standard No Media, WS2019 Std Downgrade w/DVD	1

14. 24 port GBPS LAN Switch:

Feature	Descriptions
Forwarding Mode	Store-and-Forward
Power Supply	100-240VAC, 50/60Hz
LED	Power, 1000Mbps, Link/Act
Switch capacity	48 Gbps
Packet forwarding rate	35.7Mbps or more

15. Associated cabling (CAT 6) for networking/ CCTV wiring/, Connectors, I/O box, installation/ misc. items:

Feature	Descriptions
CAT 6 Networking	CAT 6 cabling and patch cords as required Connectors, I/O box, installation
CCTV wiring material	Stranded Annealed Bare Copper Conductor
Electrical wiring	Standard electrical wiring with Modular with earthing.

16. Split Air conditioning:

Item Name	Parameters	Minimum Specifications
3 Star Split Air conditioning	Cooling Capacity	2 tones
	Type	Hot & Cold
	Feature	inverter, dust filter, antibacterial coating, heater, dehumidifier

17. 65 inch Interactive Flat Panel for display of VSK at Director Office.

Feature	Descriptions
Screen size	65" or higher
Resolution	UHD 3840 × 2160 pixels or Higher

Brightness	400 nits or Higher
Contrast ratio (typical/Dynamic)	1100:1 or Higher
Response time	2 ms or Better
Light life	30,000 hrs or Higher
Smart Eye protection	Interactive display should have smart eye protection.
Glass	
Hardness	min 3mm Toughened glass
Anti-glare coating	Interactive display should have Anti-glare coating
Touch screen	
Touch technology	Infrared touch
Touch points	20 touch points or Higher
Touch response time	< 8 ms or Better
System	
CPU	Quad core 1.5 Ghz. or Better
Memory	4GB DDR3/DDR4 or Higher
Storage	32GB or Higher
OS	Android 9.0 or Better
Input/ Output ports	
Input Ports (minimum)	3 × HDMI, 1x VGA, PC (OPS) -1 or Higher
Output Ports (minimum)	1 x AV (3.5mm) or more
USB Ports (minimum)	3 × USB 3.0 Type A, 1 × USB Type (touch) or Higher
Communication Ports (minimum)	1x RS232 In, 1 x RJ45 10/100/1000 Gigabit ethernet port in or Better
Built-in peripherals	
Speaker	Stereo Sound with in-built 15 Watt x 2 speakers
Magnetic pen holder	Should have inbuilt magnetic pen holder with up to two pens
Tutor friendly experience	Should have control buttons on Interactive display like Volume UP/Down, Home, Back, Menu, Touch on/off & Power Buttons for ease in teaching.
Quiz	Should have in built tool to allow participants to submit answers from their Smart Phones (Answering/Voting/Messaging)
Smart Multimedia Port	Should have Built in Type-c multimedia port on front side to deliver Video, Audio, Touch control, Internet Sharing and Fast charging of up to 65 watt using a single USB type C cable
SD Card Support	Should have provision to connect SD card/USB stick supports up to 512 GB of Storage
Built in Wi-fi	Should have inbuilt Dual band Wi-fi (2.4 & 5Ghz)

Built-in Bluetooth	Should have inbuilt Bluetooth version 5.0 or latest
Stylus	Should have minimum 2 Nos of Stylus
Remote control	Should have remote control to operate the Interactive display
Software	
Whiteboard Interactive Software	Should have inbuilt whiteboard software for teaching/training using Interactive display with features like AI Pen, Shape Pen, Sticky Notes, E-mail and others like (Pen, thickness of pen, colours of pen, Pixels eraser and Region eraser, Shapes (Circle, Triangle, Rectangle, arrows), Magnifier, Background of White board (multiple colours also use picture, shape), Redo/Undo, Next/Previous, Select & Drag option, Switching between single touch and multiple touch, Clear screen, List of pages with deleting option, Switching tool bar right to left, Many other Tools (Compass, Protector, Insert Table, Calculator, Curtain, Timer, Calendar, Camera, Spotlight, Multiscreen (divide board in 2,3,and 4 parts with background colour and different pen colour), on screen annotation. Quiz results should be imported into whiteboard application Interactive software should be of the same OEM. Interactive software of the interactive Display should detect the Visual Presenter/ Visualiser and should be able to annotate on the image captured by the Visual Presenter/ Visualiser or similar as per OEM standard software
Wireless screen sharing	Interactive display should allow user to share/mirror the content of Laptop/Desktop and mobile device(Android) wirelessly and should have Screen Share software to show up to 4 Multiple screen at same time.
Quick access tool	Floating Tool should be available on all screen for quick access tools and same should be customized as per user requirement.
Inbuilt Cloud drive	Interactive display should have inbuilt cloud drive access from Google drive & one drive
Software based Video conferencing	Device should support software based VC with internal android platform like Google meet, Cisco WebEx , Skype, Microsoft teams & zoom applications.
Multiple controlling menu	Should have Multi Controlling menu including Side menu, floating menu and pull up menu.

Gesture Control	Should have gesture control like Hold five fingers on screen for Interactive display sleep mode, hold and move three fingers on screen for Floating menu & swipe the screen Upside for Pull up menu control or similiar
Split Screen	Interactive display should have inbuilt split screen user should be able to split the screen to operate multitask like play a video in half of screen and open whiteboard in other half side.
Smart USB Port	All USB 3.0 port should support Smart USB sharing for Android, Internal PC or other External PC / Device
Multilanguage GUI	Device should have GUI interface in both Hindi and English Language
Virtual Keyboard	Device should have inbuilt virtual keyboard with English to Hindi writing support.
Enhanced Security	Should have provision to lock all the USB port, Screen Lock, application lock to restrict unwanted access.
Touch On/Off Button	Should have provision for Touch On/Off on front of Display
Sound enhancement	Should have inbuilt Volume equalizer and surround sound support to enhance the sound quality.
Screen Recording	Should have built in Screen recording feature supports up to full HD resolutions or better
Screen Shot	Should have built-in screen shot option using single click
Power	
Power	AC 100-240V 50/60Hz
Maximum Power Consumption	250 W or Better
Standby Power Consumption	<0.5 W or Better
Environment	
Operating temperature	0°C ~ 40°C or Better
Operating Humidity	10% ~ 80% RH Non-Condensing or Better
Accessories	Wall mount Kit, 1x HDMI Cable (1.5 Meter), 1x USB A to B cable (1.5 Meter), 1x Power Cable (1.5 Meter)
Certifications	BIS certification required

18. 43-Inch Full HD Professional Display for CCTV output:

Specifications	Description
Technology	LED Backlight (IPS)
Display size (Diagonal)	43 inch or higher
Aspect Ratio	16:9

Resolution	1920 x 1080 (Full HD) or higher
View Angle	178 (H), 178 (V) degree
Contrast Ratio	4000:1 or higher
Brightness	400 cd/m ² or higher
Display colour	16.7 million colours or better
Remote	One Hand Held Remote
Response Time (ms)	8 ms or better
Input/Output Ports(Minimum)	2xHDMI, 1x AV, 1x Audio Out(Earphone) or more
Speaker	Inbuilt Two speakers of minimum 20 Watt each and a subwoofer of 10 watt
Other Connectivity	1x RJ45, 2x USB
System Android version	Android 9 or better
CPU	Quad core ARM cortex or better
Memory(RAM)	1 GB or higher
Internal Storage	8 GB or higher
Miracast	Allow user to mobile wirelessly with the help of preinstalled Miracast app
Media/File Support On Android	Audio, Video, Image, & Docs
Power supply requirement	AC 110 - 210V, 50/60 Hz
Max Power consumption	Maximum 75 Watts, Standby <0.5W
Accessories to be supplied	AC Power cord, User Manual, Remote control, Wall mount bracket necessary cables and connectors shall be provided to make it a complete operable unit.

PMU for VSK:

To run the VSK for analysis and insight generation so that data-driven interventions can be taken up, a State will have to institute a team of people fulfilling different roles as per the requirements of manpower specified as follows.

S.No.	Profile	Number of Persons	Minimum Qualification and Experience	Skills and Key Responsibilities
1.	Data Analyst/ Data Visualizer	2	• B.E / B.Tech in Computer Science (CS) / Information Technology (IT) / Electronics and Communication	• Set up mechanisms to distribute data across locations and stakeholders to enable localized and targeted actions as per the

			<p>Engineering (ECE) or equivalent</p> <p>Or</p> <p>Masters Degree in Computer Science / Information Technology or equivalent</p> <ul style="list-style-type: none"> • A minimum of total 3 years of experience with at least a year of experience with administrative data (preferably in India), structured databases, and standardized data models preferred. • Should have been a part of at least one project for Centre/State governments or Multilateral/Bilateral Agencies. • Must have a good understanding of the Sunbird Platform. • Programming proficiency, preferably with Python, R, SQL, Java, JavaScript NOSQL, JSON etc. and other open-source languages. 	<p>insights.</p> <ul style="list-style-type: none"> • Create and design dashboards to visualize & monitor data in a meaningful manner. • Expand the distribution of analytical insights to different stakeholders at different levels. • Interpret data, analyze results using statistical techniques and provide reports. • Commissioning and decommissioning of data sets. • Manage and design the reporting environment, including data sources and data security. • Develop programs to integrate and load data from user departments into the analytics platform. • Identify, analyze, and interpret trends or patterns in complex data sets.
2.	Software Engineer	2	<ul style="list-style-type: none"> • B.E / B.Tech in Computer Science (CS) / Information Technology (IT) / Electronics and Communication Engineering (ECE) or 	<ul style="list-style-type: none"> • Enable the readily available starter pack on client server • Study the readily available client datasets and leverage it to get the VSK going

			<p>equivalent</p> <p>Or</p> <p>Masters Degree in Computer Science / Information Technology or equivalent</p> <ul style="list-style-type: none"> • A minimum of total 3 years of experience in design and delivery of IT solutions, software development and MIS. • At least a year of experience of IT/ICT implementation in education sector for Center/State government. • Should have been a part of at least one project for Centre/State governments or Multilateral/Bilateral Agencies. • Must have good understanding of Web Services protocols such as REST, SOAP and API design for extensibility and portability. • Must have a good understanding of the Sunbird Platform. • Proficient in application stacks like LAMP, JBoss, .Net, MEAN, etc. Programming languages like Php, 	<p>quickly.</p> <ul style="list-style-type: none"> • Communicate with business analysts and Project manager to capture software requirements. • Develop high-level system design diagrams for program design, coding, testing, debugging and documentation. • Development/Updation /Modification of VSK Web application/ Web portal (Starter Pack), Integration of existing Software/Application with readily available APIs with VSK
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			Java, .Net, Python, R, Shell Script, Ruby, etc. and other open-source languages.	
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The Project Management Unit (PMU) will be responsible for the following:

- i. Enable the Centralized Dashboard providing real-time/near real-time performance indicators in school by integrating client's datasets with VSK starter pack.
- ii. Project management and coordination across various stakeholders of the platform to ensure that VSK is developed and maintained as a premier open-access public platform for School Education Datasets.
- iii. Reporting, Updating, and Monitoring of all School Education Datasets like student registry to keep track of enrolled students such as Student attendance, assessment, mid day meal, student progress card, textbook distribution, infrastructure, teacher attendance and indicators around teacher training, NISHTHA, DIKSHA, PM Poshan, PGI, NAS, UDISE and programs like learning at home, dropouts, information on child labor, out of school children, scholarships, assessments, awards, recognition etc.,
- iv. Facilitate and manage data sourcing, standardization, maintenance, and data quality.
- v. Real-time Data Integration & analysis of various existing Samagra Shiksha applications for Centralized Monitoring Dashboard for improving School Management and Governance by timely interventions, streamlining processes, creating transparency, and driving accountability through channelized escalations to field level academic & Non-academic staff and timely actions.
- vi. Support platform development and ensure usability for various user groups.
- vii. Development of Web application/Web portal, Integration of existing Software/Application with VSK
- viii. Insights from VSK to be shared with call center/campaign team/calling team for Feedback monitoring and grievance redressal.
- ix. The PMU shall also be responsible for preparation of Software or Hardware Requirement Specification (if any) in consultation with the concerned department and EdCIL for the overall requirement of Vidya Samiksha Kendra, FRS and SRS should include but not limited to the following:
 - System to monitor the real-time status of various projects/ activities under the ambit of Samagra Shiksha.

- System to keep track of enrolled students including learning outcomes, Dropouts, attendance, support required by teachers and schools, etc.
 - System for centralized semester, summative and periodic assessment.
 - System to monitor and track field level academic and non-academic activities at state level and also empower administrators and teachers in the field to take data driven decisions.
 - System to identify and analyze improvement areas for decision making and implementation that needs urgent attention.
 - System to improve the academic performance of students and to enhance the accountability of teachers in schools and effective utilization of the available resources.
 - Data from VSK to be managed by a centralized helpdesk for grievance redressal mechanism for stakeholders of School ecosystem.
 - A Centralized dashboard providing the real-time performance indicators.
 - A system aimed at increasing accountability among all the field level staffs / administrators & monitor the real-time status towards various projects components / activities under the ambit of School Education.
 - Setting up and integration with command-and-control center.
- x. Provide training on the developed application/modules to the stakeholders.
- xi. Timely preparation of reports and other documents as and when required by EdCIL and the Client.
- xii. Bi-weekly submission of performance reports of individual resources and the milestone's achieved to EdCIL's Centralized VSK PMU, the same has to be automated in the future using open-source project management tools by the bidder.
- xiii. Any other task as and when required in consultation with EdCIL and the Client.

Terms and Conditions for PMU of VSK:

1. The consultant shall submit CVs of the persons proposed as Team Members for each Key Position along with an undertaking that the expert will be available to commence his/her responsibilities as soon as the contract is awarded. The PMU shall be responsible for integration of Starter pack provided by NCERT and shall perform the tasks directed by EdCIL or Department of School Education, Ladakh on time-to-time basis.
2. **The Team Members deployed under this tender should be on pay roll and full-time employee of the successful bidder. Consortium / Joint Venture / Subcontracting is not allowed in this tender.**
3. The manpower provided by the agency shall work as per user departments work schedule.
4. If the Client / EdCIL so recommends, a deployed Team Member must be replaced by the agency within a period of 5 working days.
5. The manpower deployed by the agency shall be the employees of the agency

for all intents and purposes and in no case, there shall be a relationship of employer and employee between the EdCIL / Client and the said manpower. The Agency should submit undertaking received from the respective deployed manpower at client site regarding the same along with appointment letter issued to those manpower/s.

6. In case any employee of the agency so deployed enters in dispute of any nature whatsoever, it will be sole responsibility of the agency to contest the same at appropriate forum(s).
7. The team members shall carry their own devices for performing their duties, no device shall be provided by EdCIL/Client.
8. The Team Members should be stationed at Project Location for the entire project period. The Team Member has to follow the working hours, working days and Holidays of the Client.
9. Team Member shall get prior approval of EdCIL / Client before leaving project location.
10. Leave entitlement and computation will be effective from date of joining the client site.
11. An employee can avail maximum 18 leaves per year on pro-rata basis.
12. Leave cannot be claimed as an employee's right. Except in case of emergencies, all leave will be granted subject to client's requirements. A situation will be considered an emergency on a case-by-case basis and will be decided by the Nodal Officer of the client.
13. EdCIL will offer an induction program to all the Team Members before their deployment in the project under this empanelment.
14. The mode of the training program would be as per the project requirement, which may be online/offline mode, depending on the requirement and availability.

15. Substitution of Team Members

- EdCIL will not normally consider any request of the Selected Bidder for substitution of Team Members deployed as the ranking of the Bidder is based on the evaluation of credentials of Team Members. Substitution will, however, be permitted if a Team Member is not available for reasons of any incapacity or due to health, subject to equally or better qualified and experienced personnel being provided to the satisfaction of the Authority.
- Substitution of the Team Leader will not normally be considered and may lead to disqualification of the Bidder or termination of the Agreement.

16. Penalties

- a) Any unjustified and unacceptable delay resulting from reasons attributable to the Successful Bidder beyond the delivery schedule as per Work order will render the agency liable for liquidated damages at the rate as mentioned in

the following sections.

- b) The Successful Bidder shall render the services strictly adhering to the Important Dates by EdCIL in the Work order. Any delay, not condoned by EdCIL, on the part of Successful Bidder in the performance of its obligations may attract penalty. The penalty shall be charged at the rate of 0.5% of the delayed milestone per week of delay ,subject to a maximum of 10% of the work order value (GST shall be paid extra on penalty). Post that EdCIL will have the option of getting the work done through alternate sources at the cost and risk of the defaulting agency, which will be realized from pending payments of the Successful Bidder, or from the security deposit, or from the Performance Bank Guarantee or by raising claims.
- c) The Successful Bidder shall not refuse to accept EdCIL work order under any pretext. The work order can be collected from EdCIL office or if convenient to the agency, it can be mailed to them. The selected agency shall start the work as per the mutually agreed timelines agreed between the client and the selected agency.
- d) If at any time during performance of the work order, the agency encounter conditions impeding timely performance of the ordered services, the agency shall promptly notify EdCIL in writing of the fact of the delay, its likely duration and its cause(s).

Implementation of the 6 Programs of NDEAR Complaint VSK by PMU

1. Ensure that a Ready to install open-source software that enables data ingestion, analysis and visualization is implemented successfully. The software comes with 6 pre-configured programs for the states.

These are:

- NISHTHA
 - DIKSHA
 - NATIONAL ACHIEVEMENT SURVEY (NAS)
 - PERFORMANCE GRADING INDEX (PGI)
 - UDISE+
 - PM POSHAN
2. Successful bidder is required to integrate and host this open-source software at the cloud infrastructure.
 3. Regular Maintain and check the performance of the 6 programs of NDEAR Complaint at the VSK centre.
 4. The PMU team is also required to integrate those programs which will be added by the NCERT in the Starter pack in the near future as per the requirement of the state.

About NISHTHA

NISHTHA is a capacity building programme for "Improving Quality of School Education through Integrated Teacher Training". It aims to build competencies among all the teachers and school principals. The basic objective of this massive training programme is to motivate and equip teachers to encourage and foster critical thinking in students. The initiative is first of its kind wherein standardized training modules are developed at national level for all States and UTs.

Features of NISHTHA:

- Capacity building of teachers
- Integrated training of principals/heads as key academic support
- Focus on competency and higher order thinking skills-based teaching learning
- Training of all heads and teachers as first level counselors
- Promoting experiential and joyful learning
- Awareness of centrally sponsored schemes/initiatives
- Online monitoring and support system
- Convergence of multi-departmental efforts
- Activity based training modules

The suggested data points to be captured and displayed on the dashboard:

- Total number of module Enrolments by teachers across all courses
- Total courses launched in the NISHTHA program (States/ UT + NCERT +CBSE etc)
- Total number of module completions by teachers across all courses
- Total number of module certifications by teachers across all courses
- Total Languages in which courses are launched in NISHTHA

About DIKSHA:

DIKSHA is a unique initiative, which leverages existing highly scalable and flexible digital infrastructures, while keeping teachers at the center. It is built considering the whole teacher's life cycle - from the time student teachers enroll in Teacher Education Institutes (TEIs) to after they retire as teachers. The DIKSHA platform offers engaging learning material, relevant to the prescribed school curriculum, to teachers, students and parents

Features of DISKSHA:

- Courses for teachers to facilitate continuous learning

- Resources for using it in the classrooms
- Dashboards for assessment and progress
- Communities for discussions and collaboration
- Announcements, circulars and notifications

The features of DIKSHA can be used to create:

- In-class resources
- Teacher training content
- Assessment aids
- Teacher profile
- News and announcement
- Teacher community

Suggested data points to be captured and displayed on the dashboard are:

- Total content published on DIKSHA
- Total number of Energized Textbooks published on DIKSHA
- Total number of unique QR codes printed across all textbooks.

About National Achievement Survey (NAS):

The National Achievement Survey (NAS) is a national level large-scale assessment conducted to obtain information about the learning achievement of students of Classes 3, 5, 8 and 10 studying in State Govt. schools, Govt. Aided schools, Private Unaided and Central Govt. schools. NAS does not provide scores for individual student/school. NAS gives a system-level reflection on the effectiveness of school education. The aim and objective of NAS is to evaluate children's progress and learning competencies as an indicator of the health of the education system, so as to take appropriate steps for remedial actions at different levels. The tools and assessment of the National Achievement Survey (NAS) has been developed by the National Council of Educational Research and Training (NCERT). National Achievement Survey (NAS) level survey would be conducted by the Central Board of Secondary Education (CBSE) as Assessment Administrator. The benefit of NAS is that NAS findings help compare the performance across the spectrum and across the population in order to find the desired direction for improvements.

Features of National Achievement Survey (NAS):

- National Achievement Survey (NAS) provides a system-level reflection on the effectiveness of school education.

- Data Collection: National Achievement Survey (NAS) collects information on relevant background variables such as school environment, teaching processes, and student home and background factors.
- Coverage: NAS covers the whole spectrum of schools including Government schools (both State and Central government), Government-aided schools, and Private schools across India.

The suggested data points to be captured and displayed on the dashboard:

- Total number of schools participating in the NAS survey
- Total number of students assessed in the NAS survey
- Total number of teachers participating in the NAS survey.

About Performance Grading Index (PGI):

The Performance Grading Index (PGI) is a tool to provide insights into the Indian school education system. One of the goals of the PGI is to offer information on the state of school education in States & UTs, including key levels that influence performance and important performance categories.

Features of Performance Grading Index (PGI):

- It helps stakeholders in the school education system, including the students, parents, teachers, and administrators to know the performance of their district vis-à-vis other districts.
- The indicator-wise PGI score shows the areas where a district needs to improve. The PGI-D will reflect the relative performance of all the districts in a uniform scale which encourages them to perform better.
- At the same time, it will also act as a good source of information for best practices followed by States and UTs which can be shared.

The suggested data points to be captured and displayed on the dashboard:

- Overall PGI Score for the State across all PGI domains
- State's score in Learning Outcomes & Quality domain
- State's score in Access domain.
- State's score in Infrastructure and Facilities domain
- State's score in Equity domain
- State's score in Governance Processes domain

About Unified District Information System for Education Plus (UDISE+):

Unified District Information System for Education Plus (UDISE+) is one of the largest Management Information Systems initiated by Department of School Education and Literacy, Ministry of Education, Government of India. Approx. 15 thousand schools, 56 thousand teachers and 10 lakhs students are covered by UDISE+ in Meghalaya. The entire system is online and has been collecting data in real-time since 2018-19. UDISE+ has a mandate of collecting information from all recognized schools imparting formal education from Pre-primary to class XII. Information collected through the digital platform, UDISE+ is utilized for planning, optimizing resource allocation and implementing various education-related programs and assessing progress. UDISE+ provides a platform to organize and classify all school data across the country and build a credible database of school data. It monitors, measures and keeps track of vital KPIs related to school performance.

UDISE+ School Data Capture:

- UDISE+ has the mandate of collecting information from all schools imparting formal education from Classes I to XII.
- UDISE+ has the school as the unit of data collection and district as the unit of data distribution.
- UDISE+ collects information on school profile, physical infrastructure, teachers, enrolments, examination results, etc. through an online Data Collection Form (DCF).
- The DCF is divided into eleven sections and each section contains multiple questions to capture various performance indicators of the school.

Features of UDISE+:

- Monitor and measure school performance in Real-time.
- Visualization and presentation of complex data in a simple form.
- Standard as well as query-based reports and comparative charts.
- Stakeholders can access and analyse information to make evidence-based decisions
- Suggested data points to be captured and displayed on the dashboard are:
 - Total number of schools surveyed under the UDISE
 - Total number of teachers whose information collected under UDISE
 - Total number of students whose information collected under UDISE
 - Average number of Pupil per Teacher
 - Percentage schools surveyed under UDISE with toilets
 - Percentage schools surveyed under UDISE with electricity
 - Percentage schools surveyed under UDISE with drinking water facility

Features of UDISE+:

- Monitor and measure school performance in Real-time.
- Visualization and presentation of complex data in a simple form.
- Standard as well as query-based reports and comparative charts.
- Stakeholders can access and analyze information to make evidence-based decisions

Suggested data points to be captured and displayed on the dashboard are:

- Total number of schools surveyed under the UDISE
- Total number of teachers whose information collected under UDISE
- Total number of students whose information collected under UDISE
- Average number of Pupil per Teacher • Percentage schools surveyed under UDISE with toilets
- Percentage schools surveyed under UDISE with electricity
- Percentage schools surveyed under UDISE with drinking water facility.
- Social Audit of the Scheme.

Suggested data points to be captured and displayed on the dashboard are:

- Total number of schools covered under the PM POSHAN program
- Total number of districts covered under PM POSHAN program
- Reported meals served
- Percentage of schools reported meals served against the total schools
- Percentage of reported meals served against the total enrollments.

cQUBE (Data visualization and analytic):

- cQUBE is an automated data ingestion from multiple silos data sources. Take data from multiple data sources and process them. cQUBE does the data processing of different source data to create metrics and indices which is customize and useful for the user. Come in with several built in visualizations. Data is also exposed in the form of API so that developer can connect with and create report which is as per requirement of the user.
- Setup the State's backend database for cQUBE Application at the Cloud infrastructure.
- Manage state data sets and configure the API in cQUBE Application.
- Installing and maintaining of cQUBE back-end database.

TERMS AND CONDITIONS FOR VSK IT INFRASTRUCTURE

Insurance & Transportation

- I. The selected Bidder shall be responsible for acquiring comprehensive insurance including transit insurance, liability insurance and any other insurance as required for all the equipment till the delivery, installation and commissioning at the respective end client location/school level (whichever applicable).
- II. For delivery of goods at the end clients location, the insurance should be obtained by the Supplier in an amount equal to 110% of the value of the goods from "supplier location to end client location" (final destinations) on "All Risks" basis including War Risks and Strikes. The insurance should be valid for a period of not less than 3 months after the completion of installation and commissioning. If orders placed on CIF/CIP basis, the insurance should be up to End Client place
- III. The Supplier should make all arrangements towards safe and complete delivery at End Clients Location. Such responsibility on part of the supplier will include taking care of insurance, freight, octroi, state level permits etc. as applicable.
- IV. The supplier should also take care of transit insurance, comprehensive insurance or any other insurance as required which may have direct bearing on the delivery of the items / equipments at End Clients location.
- V. It is the total responsibility of supplier to complete all formalities to transit of goods from the place of dispatch to End Clients Location.
- VI. The bidder should ensure that no person can engage in the business of a common carrier unless he has granted a certificate of registration to do so for supply of items at End Clients Location.
- VII. The transportation of goods through unregistered common carrier is illegal. The bidder should ensure to comply the carriage by latest Road Act and any other relevant.
- VIII. The supplier will keep EdCIL informed about various stages of deliveries & installation.
- IX. All costs related to insurance shall be borne by the selected Bidder for goods supplied under the Agreement against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery etc. A copy of Insurance Certificate should be provided to EdCIL.

Unloading and Unpacking:

Unless specified otherwise in the purchase order, Unloading and storage of the same at the designated place should be undertaken by the successful bidder. The Unpacking of the materials should also be arranged by successful bidder.

Inspection and Tests

- I. The successful Bidder shall facilitate and make available a random 20% sample of each equipment type being supplied by them for a Pre-dispatch Inspection (PDI) by a committee comprising of EdCIL and end client. The PDI will be a key requirement prior to shipment of the equipment. As part of the preparation for PDI, the successful Bidder will provide to EdCIL PDI preparation report.
- II. In the event of the hardware and software failing to pass the PDI, as per the specifications given, a period not exceeding 3 calendar days will be given to the selected Bidder to rectify the failure and clear the inspection, failing which, EdCIL reserves the right to cancel the Purchase Order and levy appropriate penalties in addition to the Liquidated Damages. EdCIL/client will not be responsible for any costs associated with such rejection. The bidder will be responsible for all equipment supplied till they are delivered and commissioned at the designated location/end client location.
- III. Additionally, the bidder shall replace the complete lot of equipment belonging to an equipment type, if more than 25% of the sample size for the equipment type are found defective during the PDI. If the lots for two consecutive types of equipment are rejected, the entire shipment of equipment by the manufacturer shall stand rejected and shall have to be replaced by the selected Bidder with a fresh batch of equipment for shipment and related PDI. Any cost impacts of rejection at any stage shall be borne by the Bidder. If the complete shipment is rejected, EdCIL reserves the right to cancel the Purchase Order and levy penalties in addition to the Liquidated Damages. All penalty calculation are explained in detail in SLA.

Delivery of all Equipments:

- I. Delivery, Installation and commissioning of the at the school level or the desired location should be made within a maximum of 90 calendar days from the date of placement of purchase order.
- II. Till the EdCIL/end client takes over/ receives the equipment/ items, the supplier should be responsible to keep the same in safe custody and the charges (if any) to be borne by the successful bidder.

Installation and Commissioning of all Equipments:

- I. As part of commissioning of the delivered equipment, the selected Bidder shall depute its technically qualified representative(s) to facilitate the conduct of inspection of 100% of the delivered quantity in presence of the EdCIL Official(s) and End Client (s), if required. This inspection shall start immediately after delivery of the equipments at the centralized location.

- II. After completion of the inspection, all the equipment shall be repackaged. Rejected equipment if any shall be returned back to the authorized representative of the selected Bidder. The numbers of such rejected equipment shall be struck off from the Delivery Receipt/Acceptance Receipt and from the Invoice claimed by the bidder.
- III. The equipment to be commissioned for a specific school shall be decided by EdCIL and End client. The power supply and internet connectivity for commissioning will be arranged by End Client. Until the equipment are handed over to respective school authorities/end client location, selected bidder will be solely responsible for the security of all the equipment.
- IV. The selected bidder shall carry out for delivery of all the Smart classroom for the smart classroom to the school level/end client location/location provided by EdCIL and its subsequent installation in the classrooms.

Installation & Commissioning and Final Acceptance Sign off from End Client

Against the commissioning of the STEM Labs in each school, the selected Bidder shall get a Installation and Commissioning Sign-off receipt from the school. In all likelihood, the Installation and Commissioning Sign-off receipt for a school shall be provided to the selected Bidder on the same day of successful commissioning of the equipment for that school. The damaged/defective equipment, if any shall be taken back by the selected Bidder.

Warranty Services

- I. The Selected Bidder is required to provide a standard onsite warranty support for a period of 3 years. The warranty would ensure that the goods/ articles would continue to conform to the standards and specifications as prescribed in the RFP for the entire duration of the Contract.
- II. All infrastructure procured by the selected bidder for this Project must adhere to the minimum requirements.
- III. The period of warranty for all equipment shall commence after project commissioning sign-off date from the end client.
- IV. In case of offsite warranty, replacement of similar specification hardware shall be provided to the end user.
- V. All infrastructure procured by the Selected Bidder for this Project is ready and functional before commencing any kind of services.

Post Warranty Support and Maintenance Services

The scope of post warranty support services will include preventive and corrective comprehensive maintenance and cover installation, diagnosis and resolution of hardware faults in response to the reported problems at the designated service

centre. The selected bidder will also resolve all the problems detected during routine operational support activities and will ensure that the problems are resolved within the defined SLAs including appropriate replacement and /or replenishment of systems and equipment as and when required.

SLA AND PENALTIES:

- (a) The SLA parameters shall be monitored on a Quarterly/yearly basis as per the individual requirement. However, if the performance of the system/services is degraded significantly at any given point in time during the contract and if the immediate measures are not implemented and issues are not rectified to the complete satisfaction of EdCIL, then the EdCIL will have the right to take appropriate disciplinary actions including termination of the contract.
- (b) In case these service levels cannot be achieved at service levels defined in the agreement, EdCIL shall invoke the performance related penalties.
- (c) In case multiple SLA violations occur due to the same root cause or incident then the SLA that incurs the maximum penalty may be considered for penalty calculation rather than a sum of penalties for the applicable SLA violations.
- (d) Total penalty will be restricted to 10% of the value of the affected hardware / software (Quarterly or Yearly).
- (e) The response time to any complaint / incident shall be four (4) hours from the time of complaint logging.
- (f) SLA and Penalties for Onsite-Comprehensive Warranty Period as below:

S. No.	Type of Incident	Resolution Time (C: Date of Reporting of complaint)	Penalty
1.	Incident 1: Repair of any Hardware items, its component and its software.	Within 7 working days of reporting of complaint. C+7= T0	No Penalty
		T0+7=T1	0.5% of the value of the hardware for every unresolved incident
		T1+7=T2	1% of the value of the hardware for every unresolved incident
		T2+7=T3	2% of the value of the hardware for every unresolved incident
		>T3	Penalty of 10% of the value of the hardware for every unresolved

			incident on monthly basis.
2.	Incident 2: Replacement of faulty part/component of any hardware / Replacement of the Hardware	Within 15 (seven) working days of reporting of complaint. C+15= C0	No Penalty
		C0+7=C1	2% of the value of the hardware for every unresolved incident
		C1+7=C2	5% of the value of the hardware for every unresolved incident
		>C2	10% of the value of the hardware for every unresolved incident

Note:

- (a.) In case any complaint cannot be resolved onsite then a backup unit has to be provided until the original unit is fixed and reinstalled.
- (b.) Any miss happening with any human due to faulty performance (Example: Overheating, explosion etc. of electronics products) of products will penalized on back-to-back basis.

LIQUIDATED DAMAGES:

- (a) Delay in delivery: In case of non/partial supply of the equipment within the stipulated period, penalty @ 1% of the total contract value for every week of delay on the defaulted amount shall be applicable, subject to maximum of 10% of the contract value. After reaching the penalty to maximum, EdCIL will have the right to take appropriate disciplinary actions including termination of the contract. Note: Applicable GST shall be charged extra on LD amount.
- (b) EdCIL reserves its right to recover these amounts by any mode such as adjusting from any payments to be made by EdCIL to the selected Bidder.

Technology Advancement

According to the technology advancement successful L1 bidder has to provide upgraded product without any extra cost to meet the technology advancement of the market.

Manuals and Drawings

- a. Before the goods and equipment are taken over by the EdCIL, the Supplier should supply operation and maintenance manuals. These should be in such details as will enable the EdCIL to operate, maintain, adjust and repair all parts of the works as stated in the specifications.
- b. The Manuals should be in the ruling language (English) in such form and numbers as stated in the contract.
- c. Unless and otherwise agreed, the goods equipment should not be considered to be completed for the purpose of taking over until such manuals and drawing have been supplied to the EdCIL.

Indemnity

- I. The selected Bidder shall execute and furnish to EdCIL a Deed of Indemnity in favor of “EdCIL” in a form and manner acceptable to EdCIL, indemnifying EdCIL from and against any costs, loss, damages, expense, claims including those from third parties or liabilities of any kind howsoever suffered, arising or incurred inter alia during and after the Agreement period out of:
 - a) Any negligence or wrongful act or omission by the selected Bidder or the selected Bidder’s Team in connection with or incidental to this Agreement; or
 - b) A breach of any of the terms of selected Bidder Bid as agreed, the RFP and this Agreement by the Bidder or the selected Bidder’s Team.
- II. The indemnity shall be to the extent of 100% in favor of EdCIL.

CHAPTER-VI

Eligibility and Bid Evaluation

6.1 Bid Evaluation Process

Evaluation will be based on the bidder meeting the eligibility criteria, Scoring minimum 70 marks in Technical evaluation and subsequently evaluation of financial bid. It is mandatory for the bidder to fulfil all the eligibility criteria to be qualified for technical evaluation.

6.2 Eligibility Criteria:

Documents must be provided in support of the following otherwise bids will be summarily rejected.

S.No.	Specific Requirement	Documents required
1.	The firm should be a company registered in India under Companies Act 1956, Act 2013 or Proprietorship or a partnership registered under the India Partnership Act 1932 or Partnership firm registered under Limited Liability Partnership Act 2008 with their registered office in India in operation for the last five years.	<ul style="list-style-type: none"> ● Certificate of Incorporation ● Memorandum and Article of association ● Registered Partnership deed ● PAN and GST Registration Certificate for Proprietorship firms.
2.	Bidder must have minimum 3 crores average annual Turnover from IT/ITeS for the last three financial years, i.e., 2020-21, 2021-22 and 2022-23 with positive net worth as on 31 st March 2023.	<ul style="list-style-type: none"> ● Audited balance sheet. ● Auditor certificate clearly specifying the turnover from IT/ITeS services and positive net worth.
3.	Bidder should have experience of successfully completing one Vidya Samiksha Kendra/Command Control	<ul style="list-style-type: none"> ● Work order/MoU/ Agreement ● Completion Certificate by client.

	Center of project value not less than 2 Crore in any Central/State Govt./autonomous bodies during the last 3 years as on bid due date.	
4.	The bidder must have a valid PAN and a registration number for GST.	<ul style="list-style-type: none"> • Copy of PAN card • Copies of relevant GST registration certificates
5.	The bidder should be an ISO 9001:2015 certified company.	Copy of Valid certificate(s) in the name of the firm attested by the authorized signatory of the company.
7.	The bidder must have at least 10 full time professionals on its rolls as on bid due date in India.	Certificate duly attested by appropriate authority on firm's letterhead signed by authorized signatory of the firm
8.	The bidder should have positive net worth in each of the last three financial year i.e., 2020-21, 2021-22 and 2022-23.	Audited and CA Certified financial statements.
10.	A Power of Attorney / Board Resolution in the name of the person signing of the tender.	Original Power of Attorney / Board Resolution Copy on a non-judicial stamp paper
11.	<p>Mandatory Undertaking: firm should:</p> <ul style="list-style-type: none"> • Not be insolvent • Not have been convicted of any criminal offense • Not have been blacklisted by a central/Government institution /PSU/Government Bodies /Autonomous Bodies/Private Sector 	The firm shall furnish an undertaking duly attested by notary on a non-judicial stamp paper of value INR100/- (Rupees One Hundred Only)

Bidder should have Authorization from the OEM as per below table and shall be submitted along with the Technical Bid. Non-compliance shall result in the rejection of the tender.

S. No.	Item for which OEM MAF is required	MAF Required
1	Video wall (Active LED)	Yes
2	Video controller, Multi viewer, HDMI Splitters, and Switchers for input out controls, Drive, signal amplification etc required for completing the set up	Yes
3	Acoustics	No
4	Table	No
5	Round table with 4 chairs	No
6	Revolving Chairs with Arm	No
7	All in One PC	Yes
8	Video conferencing hardware and software	Yes
9	Smart Podium with inbuilt computer with Audio System	Yes
10	6 nos. CCTV cameras with DVR with 2 TB Internal Surveillance grade hard disk	Yes
11	10 KVA online UPS with 30-minutes battery backup for Video Wall/Active LED, Smart Podium and Audio System	Yes
12	6 KVA online UPS with 30-minutes battery backup for computers systems, CCTV, NAS Storage, LAN Switch and Video Conferencing Setup	Yes
13	48 TB NAS for data storage	Yes
14	24 Port GBPS LAN Switch	No
15	Associated cabling (CAT 6) for networking/ CCTV wiring/, Connectors, I/O box, installation/misc. items, etc as per site requirements	No
16	Split air-conditioner hot and cold 2 Ton	No
17	65 inch Interactive Flat Panel for display of VSK at Director Office.	Yes
18.	43-Inch Full HD Professional Display for CCTV output	No

Additional Clauses

- (a) The bidder should submit a land border country registration requirement on their letter-head.
- (b) The bidder needs to submit un-priced BOQ along with their technical bid.
- (c) Bid by Consortium is not allowed.

TECHNICAL EVALUATION

The Technical Evaluation will be conducted based on the relevant support documents submitted by the Bidders.

S.No.	Description	Evaluation Criteria	Criteria wise Marks	Max Marks	Supporting documents
1.	Bidder must have minimum 3 crores average annual Turnover from IT/ITeS for the last three financial years, i.e., 2020-21, 2021-22 and 2022-23 with positive net worth as on 31 st March 2023.	More than 6 Crores	25	25	<ul style="list-style-type: none"> Audited profit and loss statement and balance sheet. Auditor certificate clearly specifying the turnover from IT/ITeS services with net profit and positive net worth.
		More than 4.5 Crores	20		
		More than 3 Crores	15		
2.	The firm should be an ISO 9001:2015 certified company.	ISO 9001:2015	15	15	<ul style="list-style-type: none"> Copy of Valid certificate(s) in the name of the firm attested by the authorized signatory of the company
		ISO/IEC 20000-1:2018	10		
		ISO 27001:2018/2013	5		
3.	Bidder should have experience of successfully completing one Vidya Samiksha Kendra/Command Control Center of project value not less than 2 Crore in any Central/State Govt./autonomous bodies during the last 3 years as on bid due date.	2 Projects and above	20	20	<ul style="list-style-type: none"> Work order/ Agreement /Confirmation on the Go-Live Date of the project from client/ Certificate of Completion with satisfactory performance by client.
		1 Project	10		
4.	The bidder must have at least 10 full time professionals on its rolls as on bid due date.	25 or above	15	15	<ul style="list-style-type: none"> Certificate duly attested by appropriate authority on firm's letterhead signed by
		15 or above	10		
		10 or above	5		

					authorized signatory of the firm
5.	Technical Presentation (Max 20 Minutes)	Understanding of Solution, Technology & Functional requirement	5	25	<ul style="list-style-type: none"> Product Brochure along with technical specification sheet. Technical proposal comprising all necessary details Technical Presentation copy (On request by EdCIL)
		Approach towards site Issue/ complaint Management	5		
		Project Planning & Execution Capability	5		
		Demonstration of the Solution & Product Brochure along with technical specification sheet	10		

- Documents must be provided in support of the following otherwise bids will be summarily rejected.
- Technical bids will also be reviewed for compliance with the necessary Instructions, terms and conditions, scope of work, formats etc. as outlined in this tender.
- The Technical bid will be evaluated by evaluation committee set-up by EDCIL.
- The bidder who scores minimum 70 marks in the technical evaluation shall be declared as technically qualified bidder and those shall be notified for opening of their financial bid.

Evaluation of financial bids:

- The Financial bid shall be opened for only those bidders who have been found to be technically qualified in. They would also be advised to attend opening of the

financial bid. EdCIL shall inform the date, place and time for opening of financial bids.

- Financial bid should be checked by bidders to ensure conformance to the format provided in the tender document.
- If there is any discrepancy between words and figures in any part of the financial bid, the amount indicated in words will prevail.
- The technically qualified bidder who has quoted the lowest price in the financial bid will be L1 and considered for the award of contract.

The bidder should give an undertaking on the company's letterhead that all the documents/certificates/information submitted by them against this TENDER are genuine. In case any of the documents/certificates/information submitted by the bidder is found to be false or forged, EDCIL shall immediately reject the bid of such bidder(s) or cancel/terminate the contract and forfeit bid security / Performance Security submitted by the bidder and debar them from participation in future TENDERS/tenders of EDCIL for a period upto 2 years.

A statement showing Clause-by-Clause compliance to all Terms & Conditions of all the Sections of this TENDER (which forms part of this TENDER), duly Signed and Stamped on the Letter Head of their Organization. The bidder shall submit No-Deviation Certificate along with above.

Chapter-VII

Delivery Timeline & Payment terms

Timelines for IT Infrastructure for VSK:

Bidder shall make all the arrangements for the timely delivery and installation of equipment for successful completion of project. No other incidental/TA/DA/any other such expenditure shall be paid by EdCIL.

S.No.	Milestone	Timeline (In Calendar Days)
1.	Acceptance of LOA	T+7
2.	Bank Guarantee Submission and contract agreement execution	T+14
3.	Pre-Delivery Inspection	T+60
4.	Delivery of IT Infrastructure for VSK at identified location as per client	T+75
5.	Installation of IT Infrastructure for VSK at identified client location	T+90

Note:- * Here ‘T’ Indicates the date of LOA.

EdCIL reserves the right to change the timelines as per the requirement of the client. The milestones and timelines can be minimized as per the requirements of the individual projects/end client at the time of award of work order.

Delivery of the services with the performance in line with the requirements shall be made by the bidder in accordance with the time schedule specified by the Purchaser.

If at any time during performance of the contract, the bidder should encounter conditions impeding timely delivery of the Goods and performance of Services, the bidder shall promptly notify the Purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practical after receipt of the bidder’s notice, the Purchaser shall evaluate the situation and may, at its discretion, extend the bidder’s time for performance with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of the Contract.

Timelines for PMU for VSK:

The duration of the contract shall be for a period of 6 months, which may be extended as per the project requirements on the same terms & conditions based on satisfactory performance and mutual agreement. The Timelines for Deliverables are defined below:

Deliverables	Timeline (T) (where T is date of issue of LOA)
LOA	T
Acceptance of LOA by the successful bidder	T+1 week
Deployment of Resources	T+2 week
Study the starter pack shared by NCERT and NIC and leverage it to get the VSK going quickly.	T+3 weeks
Identify readily available Datasets of the client to integrate with Client VSK	T+5 weeks
Identify Key Programs and key metrics against which Client would like to drive actions & improve them	T+8 weeks
Integrate Client Datasets with the starter pack and enable the centralized dashboard of the VSK	T+16 weeks
User Acceptance Testing	T+18 weeks
Provide training on the developed application/modules to the stakeholders.	T+20 weeks
Facilitate data sourcing mechanism for key programs and metrics identified, for which datasets are not readily available	T+24 weeks

Note:

Basis the Schedule of deliverable provided above for the VSK Project; the successful bidder would submit a detailed work plan based on the TOR of the Project to the Authority.

Chapter-VIII

Payment terms

1. Payment Term for IT Infrastructure of VSK

S.No	Milestone	Payment % of the Contract Value
1.	<p>Payment shall be released after Satisfactory Pre-Delivery Inspection of equipments by PDI Committee, successful delivery of all hardware items at identified location as per client in Ladakh, Ladakh.</p> <p>Payment will be made if items are found in good condition as per term and conditions mentioned in the RFP.</p> <p>The bidder should submit the following documents to the EdCIL for the payment:</p> <ul style="list-style-type: none"> • Original Tax invoice. • Delivery report duly signed by EdCIL officials/Department of School Education, Ladakh. • Copy of Insurance Certificate. 	40%
2.	<p>Payment shall be released after successful installation and commissioning of all hardware items at identified location as per client in Ladakh.</p> <p>Payment will be made if items are found in good condition as per term and conditions mentioned in the RFP.</p> <p>The bidder should submit the following documents to the EdCIL for the payment:</p> <ul style="list-style-type: none"> • Installation report duly signed by EdCIL officials/Department of School Education, 	50%

	<p>Ladakh</p> <ul style="list-style-type: none"> Manufacturer's/ Supplier's warranty certificate. 	
2.	The warranty/AMC will be for a total period of 3 years. Payment shall be released after successful completion of 2nd year AMC/warranty period i.e. after two year from the date of commissioning.	5%
3.	The warranty/AMC will be for a total period of 3 years. Payment shall be released after successful completion of 3rd year AMC/warranty period i.e. after three year from the date of commissioning.	5%

Note:

- Payments will be done only on the back to back basis on receipt of the related payment/funds from the end client, subject to satisfactory acceptance of the deliverables from the end client as per the submission of the required document.
- Warranty start will be reckoned from the date of commissioning as approved by the end client. Part payment can be made against commissioning in accordance to the progress of the project.

2. Payment Term for PMU-VSK:

- Payment terms are on back-to-back basis and the payment shall be released to the agency by EdCIL only if and when received by EdCIL from the client and subject to submission of complete documents and invoices.
- The payment to the Successful Bidder will be made on quarterly basis depending upon the actual duration of services rendered.
- The bill shall only be generated for the resources that have been deployed at client site and for the period of their deployment.
- The agency will submit pre-receipted bills in triplicate (having details of concerned work-order number, Date and Project-Number of EdCIL) on quarterly basis in the name of EdCIL-Noida by the 5th day of the succeeding quarter along with the Quarterly Satisfactory Performance Report(s) of the Team Members deployed duly signed by Client's Project coordinator. Payment will be made within 30 days of submission of the Bill along with all the completed documents and after deducting the applicable penalty if any.
- Payments shall be made subject to deductions of any amount for which the agency is liable under the empanelment or tender conditions. Further all

payments to agency will be made subject to deduction of TDS (Tax deduction at Source) applicable to deployment of professionals as per the income Tax Act, 1961, and also applicable penalty & other taxes, if any, as per Government of India rules.

- No TA/DA is admissible for the deployment of agency Team Members on projects anywhere in India. However, TA/DA shall be payable directly by the end-client for undertaking any tour in project interest on production of travel documents or other necessary documents in original subject to approval of competent authority of the end-client.
- GST would be paid extra as may be applicable from time to time.
- It is the bounden duty of the Successful Bidder to regularly pay the deployed manpower their entitlements like monthly salaries / wages / annual increment / EPF / ESI / Bonus / Medical Insurance / Accidental Insurance etc. as may be applicable.

3. Performance Security/Performance Bank Guarantee

The successful bidder shall be required to deposit Performance Bank Guarantee equivalent to 3% of contract value to EdCIL within 14 days from the date of receipt of Work Order. The Performance Bank Guarantee shall be issued in favour of "**EdCIL (India) Limited**" to be valid for a period of 90 days beyond the date of completion of O&M period & contractual obligations. This Performance Bank Guarantee should be retained throughout the currency of the contract and shall be extended by the bidder from time to time, as required by EdCIL.

Chapter-IX

Key Contract Terms

1. Arbitration

All disputes or differences whatsoever arising among the parties under and/or in connection with and/or in respect of this tender shall be referred to and decided by a sole arbitrator, who shall be nominated by the CMD, EdCIL. The arbitration shall be conducted in accordance with Arbitration and Conciliation Act of 1996 as amended from time to time and the venue of the arbitration shall be in New Delhi.

For Public Sector Undertaking / Government Departments: “In the event of any dispute or difference relating to the interpretation and application of the provisions of this contract, such dispute or difference shall be taken up by either party for resolution through AMRCD as mentioned in DPE OM No. 4(1)/2013-DPE (GM)/FTS-1835 dated 22.05.2018.

Any party aggrieved with the decision of the committee at the Ist level (tier) may prefer an appeal before the Cabinet Secretary at the Second level (tier) within 15 days from the date of receipt of decision of the committee at First level, through its Administrative Ministry/ Deptt in terms of para 4, 5, and 7 of above DPE OM dated 22.05.2018, whose decision will be final and binding on all concerned.”

2. Non-Disclosure

The firm and their personnel shall not, either during the term or after expiration of this contract, disclose any proprietary or confidential information relating to the services, contract, terms, prices or the client’s business or operations details without the prior written consent of the client.

3. Risk Purchase Clause

In event of failure of supply of the item/equipment within the stipulated delivery schedule, the EdCIL has all the right to purchase the item/equipment from the other source on the total risk and cost of the supplier under risk purchase clause.

4. Compensation

In consideration of the Services hereunder, EdCIL India Limited shall pay BIDDER the fees and expenses (“Charges”) as specified in Commercial. All

amounts payable to BIDDER are exclusive of any Taxes. EdCIL India Limited shall be entitled to deduct from applicable payments to BIDDER, any tax on BIDDER' income deductible at source at the rates applicable as per the provisions of Income Tax Act 1961 and provide BIDDER with evidence or certificate of payment of such tax to the taxing authorities. BIDDER shall submit invoices to EdCIL India Limited in accordance with the payment schedule in Commercial of this document. Payment stages are available at Chapter-VIII

5. Representations and Warranties

Bidder warrants that the Services will be provided in a skillful and workman like manner and in conformity with the scope described in Scope of Work Proposed Functional Scope of this document. Notwithstanding the aforesaid, any Services which are provided by bidder free of charge or are otherwise not chargeable shall be provided on an 'AS IS' basis without any warranties whatsoever. Each Party represents, warrants and covenants to the other that: (i) it is duly organized and validly existing and in good standing under the laws of the state of its incorporation or formation; (ii) it has the full right and authority to enter into and that this Agreement constitutes a legal, valid and binding obligation; and (iii) its execution, delivery and performance of this Agreement does not and will not conflict with, or constitute a breach or default under, its charter of organization, or any contract or other instrument to which it is a party. As set forth in this clause, bidder makes no warranties to EdCIL India Limited, expressed or implied, with respect to any services or deliverables provide hereunder or under scope of work including without limitation and implied warranties of Merchantability or fitness for a particular purpose. All such other warranties are hereby disclaimed by bidder.

6. Limitation of Liability

Neither EdCIL India Limited nor the bidder shall be liable to the other for any special, indirect, incidental, consequential (including loss of revenue, data and/or profit), exemplary or punitive damages, whether in contract, tort or other theories of law, even if the Party has been advised of the possibility of such damages. The total cumulative liability of either party under this Agreement shall not exceed in aggregate the amount paid to bidder by the EdCIL India Limited for the Service that gives rise to such liability during the twelve-month period immediately preceding such claim. The limitation on any Party's liability herein shall not apply to liability for damages, resulting from (i) the willful misconduct; (ii) breach of the use terms in respect of use of bidder Application System; and (iii) breach of confidentiality obligations. Bidder shall not be held liable for any delay or failure in its obligations, if and to the extent such delay or

failure has resulted from a delay or failure by or on behalf of EdCIL India Limited to perform any of EdCIL India Limited's obligations.

7. Confidential Information

Each Party (the "Receiving Party") acknowledges and agrees to maintain the confidentiality of Confidential Information (as hereafter defined) provided by the other Party (the "Disclosing Party") hereunder. The Receiving Party shall not disclose or disseminate the Disclosing Party's Confidential Information to any person other than those employees, agents, contractors, subcontractors and licensees of the Receiving Party, or its affiliates, who have a need to know it in order to assist the Receiving Party in performing its obligations, or to permit the Receiving Party to exercise its rights under this Agreement. In addition, the Receiving Party (i) shall take all such steps to prevent unauthorized access to the Disclosing Party's Confidential Information, as it takes to protect its own confidential or proprietary information of a similar nature, which steps shall in no event be less than a reasonable standard of care, (ii) shall not use the Disclosing Party's Confidential Information, or authorize other persons or entities to use the Disclosing Party's Confidential Information, for any purposes other than in connection with performing its obligations or exercising its rights hereunder, and (iii) shall require all persons and entities who are provided access to the Disclosing Party's Confidential Information, to execute confidentiality or non-disclosure agreements containing provisions substantially similar to those set forth in this Clause. The provisions of this Clause respecting Confidential Information shall not apply to the extent, but only to the extent, that such Confidential Information is: (a) already known to the Receiving Party free of any restriction at the time it is obtained from the Disclosing Party, (b) subsequently learned from an independent third party free of any restriction and without breach of this provision; (c) is or becomes publicly available through no wrongful act of the Receiving Party or any third party; (d) is independently developed by the Receiving Party without reference to or use of any Confidential Information of the Disclosing Party; or (e) is required to be disclosed pursuant to an applicable law, rule, regulation, government requirement or court order, or the rules of any stock exchange. Upon the Disclosing Party's written request at any time, or following the completion or termination of this Agreement, the Receiving Party shall promptly return to the Disclosing Party, or destroy, all Confidential Information of the Disclosing Party provided under or in connection with this Agreement, including all copies, portions and summaries thereof.

8. Force Majeure

The selected Bidder should not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, it's delays in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

- I. For purposes of this Clause, "Force Majeure" means an event beyond the control of the bidder and not involving the bidder's fault or negligence and not foreseeable. Such events shall include, but are not limited to, acts of the EdCIL either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- II. If a Force Majeure situation arises, the bidder should promptly notify the EdCIL in writing of such conditions and the cause thereof. Unless otherwise directed by the EdCIL in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and should seek all reasonable alternative means for performance not prevented by the Force Majeure event.

9. Prices

- I. The price should be quoted in per unit (with breakup) and must include all packing and delivery charges. The offer/bid should be exclusive of taxes and duties, which will be paid as applicable. However, the percentage of taxes and duties should be clearly indicated. The inter se merit position of the bids however shall be decided based on the composite price of the product including taxes, transportation, Warranty with all other incidental expenses indicated.
- II. The prices must be quoted in the Performa given in Financial Bid failing which the Bid would be treated as unresponsive. Any discount or any other offers affecting the package price must be mentioned in Financial Bid only. Discount or any other offers affecting the Package price mentioned at any other place of the bid other than Financial Bid will not be considered.
- III. The price quoted should be inclusive of 3 years on site comprehensive warranty including basic training and demonstration to the end client.

10. Notices

For the purpose of all notices, the following should be the address :

Chief General Manager (DES)
EdCIL (India) Limited,
18 A, Sector-16A,
Noida-201301, Uttar Pradesh

Tel: 91-120-2512001 to 2512006

Supplier: (To be filled in by the supplier)

- Any notice given by one party to the other pursuant to this contract/order should be sent to the other party in writing or e-mail and confirmed in writing from the other party's address.
- A notice should be effective when delivered or on the notice's effective date, whichever is later.

11. Supplier Integrity

The selected bidder is responsible for and obliged to conduct all contracted activities in accordance with the Contract using state of the art methods and economic principles and exercising all means available to achieve the performance specified in the contract.

12. Governing Language

The contract should be written in English language. English language version of the Contract should govern its interpretation. All correspondence and other documents pertaining to the Contract, which are exchanged by the parties, should be written in the same language.

13. Applicable Law

The Contract should be interpreted in accordance with the laws of the Union of India and all disputes should be subject to place of jurisdiction. The place of jurisdiction would be New Delhi (Delhi) INDIA.

14. Right to Use Defective Goods

- I. If after delivery, acceptance and installation and within the guarantee and warranty period, the operation or use of the goods proves to be unsatisfactory, EdCIL should have the right to continue to operate or use such goods until rectifications of defects, errors or omissions by repair or by partial or complete replacement is made without interfering with the EdCIL's operation.
- II. Replacement of Goods broken, damaged or short: In the event of any material or part thereof found broken or damaged or received short during transit or during installation or Commissioning or testing at site, before commissioning in service the suppliers should replace the same free of cost. However, EdCIL

may recover amount equivalent to the cost of such damaged / broken / short supplied materials and will repay when actual replacement is given.

- III. Substitution and Wrong Supplies: Unauthorized substitution or materials delivered in error of wrong description or quality or supplied in excess quantity or rejected goods should be returned to the supplier at their own cost and risk.

15. Taxes

Selected Bidder should be entirely responsible for all taxes, duties, road permits, etc., incurred until delivery of the contracted Goods/Services. EdCIL shall only make payment towards the GST Charged in the invoice other than that no other taxes/ duties/ Charges will be paid.

16. Defective Equipment

- I. If any of the equipment supplied by the Bidder is found to be substandard, refurbished, un-merchantable or not in accordance with the description/specification or otherwise faulty, the committee will have the right to reject the equipment or its part. The prices of such equipment should be refunded by the Bidder with 18% interest if payments for such equipment have already been made.
- II. All damaged or unapproved goods should be returned at suppliers' cost and risk and the incidental expenses incurred thereon should be recovered from the supplier. Defective part in equipment, if found before installation and/or during warranty period, should be replaced on receipt of the intimation from EdCIL/end client at the cost and risk of supplier including all other charges. In case supplier fails to replace above item as per above terms & conditions, EdCIL (INDIA) LTD may consider "Banning" the supplier.

17. Termination for Default

The EdCIL should, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or part:

- I. If the Supplier fails to complete the work within the period(s) specified in the order, or within any extension thereof granted by the EdCIL; or
- II. If the Supplier fails to perform any other obligation(s) under the Contract.

III. If the Supplier, in the judgment of the EdCIL has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

IV. For the purpose of this Clause:

- “**Corrupt practice**” means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.
- “**Fraudulent practice**” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Borrower, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition;”
- In the event the EdCIL terminates the Contract in whole or in part, the EdCIL should procure, upon such terms and in such manner, as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier should be liable to the EdCIL for any excess costs for such similar Goods or Services. However, the Supplier should continue the performance of the Contract to the extent not terminated.

18. Tender Conditions with Implementation of Insolvency and Bankruptcy Code, 2016 (IBC)

- a) It will be the responsibility of the bidder to inform EdCIL within 15 days from the date of order of insolvency resolution process or liquidation or bankruptcy proceeding passed by the Adjudicating Authority namely, National Company Law Tribunal (NCLT) or Debt Recovery Tribunal (DRT) under the Code.
- b) If bidder refuses or fails to share the information regarding their status of insolvency resolution process or liquidation or bankruptcy proceeding in their bid or at any later stage, their offer is liable to be rejected by EdCIL.
- c) EdCIL reserves the right to cancel/terminate the contract without any liability on the part of EdCIL immediately on the commencement of insolvency resolution process or liquidation or bankruptcy proceeding of any party under the contract.
- d) EdCIL reserves its right to evaluate and finalise the bid without considering the bid of any party undergoing insolvency resolution process or liquidation or bankruptcy proceeding under the Code regardless of the stage of tendering.

- e) A declaration / undertaking shall be submitted by the bidder in the Format (as per ANNEXURE-XVIII) along with techno commercial bid.

Guide lines for Evaluation & Short closure:

- a) After opening of price bid but before award, if a bidder(s) is(are) rejected due to initiation of insolvency resolution process or liquidation or bankruptcy proceeding under Insolvency and Bankruptcy Code, 2016 (Code), tender will be finalized ignoring such bid(s).
- b) During execution of contract, if insolvency resolution process or liquidation or bankruptcy proceeding under Insolvency and Bankruptcy Code, 2016 (Code) is initiated against a contractor and EdCIL shall have the right to short close the contract.

19. Disputes and Jurisdiction

Any legal disputes arising out of any breach of contract pertaining to this tender should be settled in the court of competent jurisdiction located within New Delhi.

20. Compliance certificate

This certificate must be provided on their letter head indicating conformity to the technical specifications.

21. Award of Contract

- I. EdCIL reserves the right to accept or reject any proposal and to annul the bidding process and reject all proposals at any time prior to award of contract, without thereby incurring any liability to the Bidders. In case of annulment, all proposals submitted and specifically, proposal securities shall be promptly returned to the Bidder.
- II. EdCIL has the right to review at any time prior to award of contract that the pre-qualification criteria, are still being met by the Bidder whose offer has been determined as first rank. A proposal shall be rejected if the eligibility criteria, are no longer met by the Bidder whose offer has been determined as first rank.

22. User List

Brochure detailing technical specifications and performance, list of industrial and educational establishments where the items have been supplied must be provided.

23. Product Life

The Models offered should strictly conform to the specifications given in the product literature and these models should be supported for a minimum period of 3 years including warranty period. The Models proposed/ marked for withdrawal from the market and the models under quality testing should not be offered.

In addition to the above, if any additional/ enhanced configuration is suggested in view of technological changes, it may be furnished as optional feature with/without cost duly explaining the additional utility of the offered model in both the technical offer document as well as Commercial Offer document. However, the basic quote should be confined only to the configuration/ model offered for.

24. Acknowledgement

It is hereby acknowledged that we have gone through all the conditions mentioned above and we agree to abide by them.

25. Price Information

Price information shall not be there in Technical Bid.

26. Rates in Figures and Words

Rates Quoted by the Bidder in tender in figures and words shall be accurately filled in so that there is no discrepancy in the rates written in figures and words. However, if a discrepancy is found, the rates which correspond with the amount worked out by the contractor shall unless otherwise proved be taken as correct. If the amount of an item is not worked out by the contractor or it does not correspond with the rates written either in figures or in words then the rates quoted by the contractor in words shall be taken as correct. Where the rates quoted by the bidder in figures and in words tally but the amount is not worked out correctly, the rates quoted by the Bidder will unless otherwise proved be taken as correct and not the amount. In event no rate has been quoted for any item(s), leaving space both in figure(s), word(s) and amount blank, it will be presumed that the Bidder has included the cost of this/these item(s) in other items and rate for such item(s) will be considered as zero and work will be required to be executed accordingly.

In the case of any tender where unit rate appear unrealistic, such tender will be considered as unbalanced and in case the tender is unable to provide satisfactory explanation such a tender is liable to be disqualified and rejected.

27. Fall Clause

The Bidder undertakes that the rates quoted by him in the financial bid for each item is not higher than the rate offered by him for similar work to any other PSU/ AB/ Govt. Department. In case, if the price charged by bidder is more, EdCIL will have the right to recover the excess charged amount from the subsequent/unpaid bill of the supplier, provided all condition of the work including time, scope, logistics, specifications and country are same.

ANNEXURE-I

Technical Compliance Sheet

I have also enclosed all relevant documents in support of my claims, (as above) in the following pages.

Video wall (Active LED):

Feature	Descriptions	Compliance (Y/N)
Environment	Indoor	
Maintenance	Front	
Pixel Pitch	1.89 mm or better	
LED Type	3-in-1 SMD	
Brightness	600 cd/m ² or more	
Brightness Uniformity	≥97 % or better	
Brightness Control	Programmable/Automatic/Manual	
Contrast Ratio	5000:1 or more	
Colour Temperature	3200-9300 K or better	
Viewing Angle	H: 160 degree; V:120 degree	
Viewing Distance	≥1.8 m or better	
Pixel Density	262144 pixels / m ² or better	
High Dynamic Range	Supported	
Processing Depth/ Grey Scale	14 bits or better	
Operating Temperature	-20 degree C ~ 40 degree C or better	
Operating Humidity	10~80%RH	
Acoustic Noise	Fanless operation	
Video Frame Rate	50 or better	
Refresh Rate	3840 Hz or better	
Input Voltage	100-240V AC	
LED Life Time	≥100,000 Hours or More	
Power Consumption (max)	Maximum 600 W per square meter	
Gap Between Modules	Seamless, zero bezel width	
Required LED wall Size (W x H) mm	Width 15.7 feet / 4.8m or more Height 5.5 feet / 1.69 m or more	
Certification	IP 50 and BIS is required.	

Cabinet Material	The cabinet material should be Aluminium	
Service Center of OEM	OEM should have their authorized service center in J&K/ Ladakh and Bidder is required to submit OEM declaration along with GST registration certificate.	
LED wall controller		
Feature	Descriptions	Compliance (Y/N)
Input	1x DVI/HDMI	
LAN Output	2 or more	
Control	1x USB/RS232	
Certification	BIS certification required	

Video controller, Multi viewer, HDMI Splitters, and Switchers for input out controls, Drive, signal amplification etc required for completing the set up:

Video controller, Multi viewer (upto 8 in and 4 out), HDMI Splitters and Switchers for input out controls, Drive, signal amplification etc. required for completing the set-up of Video Wall.

Multiview software:

Item Name	Parameters	Minimum Specifications	Compliance (Y/N)
Multiview software	Multiview software	Multi display system Management software, capable of displaying multiple inputs simultaneously on Display system. Capable of display system as single logical screen, capable of resizing & re-locating multiple input displays on the Multi display system, Should support Drag & Drop of Screen etc. All necessary Cables & Connectors to be provided. Should Support of	

		Single Input or multi inputs on single screen. Multiview software solution should be provided for Vidya Samiksha Kendra	
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Acoustics:

Feature	Descriptions	Compliance (Y/N)
Acoustic Panel for walls sound proofing	As required basis room area and Sound Proofing is not required	
At least 2 fire extinguisher of ABC 4 kg per room to be provided / wall mounted	1 Set	

Table:

Item Name	Parameters	Compliance (Y/N)
Table	<ul style="list-style-type: none"> • Approximate table height 750mm, Length 1200mm, Depth 600mm. • The size may be changed as per the requirement of the site. • Table Top should be Approximate 25mm Pre laminated Engineered wood with 1.5mm or more Machine Edge banding. • Drawer 18 mm Pre laminated Engineered wood. • Modesty Panel should be provided. • Electrical cabling from nearest wall socket to the user tables as per the site requirement, to be done by the vendor free of charge. • Tables should preferably be made/assembled on-site, as per the site requirements. • Provision of Drawers/Keyboard slide out etc. to be done • Material of the Tables should be sturdy 	

	<p>and long lasting – Board/Plywood with Mica pasted on top and sides or Pre laminated Engineered wood or Other long lasting material.</p> <ul style="list-style-type: none"> • Minimum warranty of tables should be three year • Fiber separators to be provided on the table as per User design. • Provision of Drawers/Keyboard slide out and Connections/System with HDMI, LAN Socket and Power socket etc. to be done. 	
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Centre table with 4 chairs:

One centre table:

Item Name	Parameters	Compliance (Y/N)
One centre table	18mm Prelaminated board, with edge bending, size of table 30 inches x 24 inches.	

Chair:

Item Name	Parameters	Minimum Specifications	Compliance (Y/N)
Revolving Chair with Arm	Back	Cushioned back made of moulded foam.	
	Seat	Seat cushion made of Moulded PU foam and Hot-pressed plywood	
	Push back	Push Back Mechanism	
	Adjustable	Height adjustable with Armrest	
	Castor	Castor for 360 movement of chair	

Revolving Chairs with Arm:

Item Name	Parameters	Compliance (Y/N)
Revolving Chairs with Arm	<ul style="list-style-type: none"> • The seat is made up of 1.5 ± 0.1 cm thick hot - pressed plywood upholstered with fabric and moulded polyurethane foam. • SEAT ASSEMBLY: 47.00CM (W) X 45.70CM(D), The Back is injection moulded in Glass filled Polypropylene which is upholstered with Mesh fabric. • The back consist of adjustable lumbar support made of injection moulded Polypropylene having a nominal thickness of 0.3 ± 0.02 cm. • BACK SIZE: 48.00 cm(W) x 57.60 cm(H).,The polyurethane foam for seat is of density= 48 ± 3kg/m. The armrest is made of injection moulded Polypropylene which is connecting seat and back. The mechanism is designed with the following features: <ul style="list-style-type: none"> *360° revolving type. *Centre - Tilt. *Tilt with upright lock. • The pneumatic height adjustment has a stroke of 10 ± 0.5cm. The pedestal is injection moulded Polyamide and fitted with 5 nos. twin wheel castors. The pedestal is 66.1 ± 0.5 cm P.C.D. The twin wheel castors are injection moulded in black Polyamide having 6.0 ± 0.1 cm 	

	wheel Diameter.	
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All In One:

	Parameters	Minimum Specifications	Compliance (Y/N)
All in One PC	Display	23.8" or Higher LED Backlight Panel	
	Native Resolution	Resolution of 1920x1080 or higher	
	Contrast ratio	1000:1 or better	
	Aspect Ratio	16:9	
	Brightness	250 nits (cd/m ²) or better	
	Audio	High Definition Audio	
	Webcam	2.0 MP Full HD Webcam or better	
	CPU	Intel Core i7 Intel (10th gen or better)	
	RAM	8 GB RAM or better	
	Hard Disk	1 TB SSD or better	
	In-Built Wi-Fi / Wireless LAN Card	Should have an inbuilt Wi-Fi / Wireless LAN Card	
	Ports (Minimum)	DP/HDMI x 1, USB ports x 2, LAN Port x 1	
	Standard Keyboard	Wired Keyboard	
	Optical Mouse	Wired Mouse	
Operating System	Windows 11 professional or better		

Video conferencing hardware and software with Omni directional Microphone:

Feature	Descriptions	Compliance (Y/N)
Sensor	1/2.8", CMOS, Effective Pixel: 2.07M	
Scanning Mode	Progressive	
Lens	f3.5mm ~ 42.3mm, F1.8 ~ F2.8	
Optical Zoom	12x or higher	
Digital Zoom	16x or higher	

Minimal Illumination	0.5 Lux @ (F1.8, AGC ON)	
Shutter	1/30s ~ 1/10000s	
White Balance	Auto, Indoor, Outdoor, One Push, Manual	
Backlight Compensation	Support	
Digital Noise Reduction	2D&3D Digital Noise Reduction	
Video S/N	≥55dB	
Horizontal Rotation Range	±170 degree	
Vertical Rotation Range	Minus 30 degrees ~ Plus 90 degree	
Pan Speed Range	2.7 degrees ~ 35 degrees per second or better	
Tilt Speed Range	1.7 degrees ~ 31 degrees per second or better	
H & V Flip	Support	
Image Freeze	Support	
Number of Pre-set	255, 10 pre-sets on Remote control	
Pre-set Accuracy	0.1°	
Video System	1080p/60, 1080p/50, 1080p/30, 1080p/25	
USB Featured		
Operate System	Windows 7, Windows 8, Windows 10, Mac OS X, Linux, Android	
Colour System	YUY2 / H.264 / MJPEG	
Video Format	YUY2 (ISOC): 1080P@60fps H.264 AVC/SVC: 1080P@60fps MJPEG: 1080P@60fps	
Audio on USB	Support	
USB Video Communication Protocol	UVC 1.1~1.5	
IPC Features		
Video	H.264/MJPEG	
Video Stream	Main Stream, Sub Stream	
Main Stream	1920x1080, 1280x720, 1024x576	

Resolution		
Sub Stream Resolution	1280x720, 720x576, 320x240	
Video Bit Rate	328Kbps ~ 20480Kbps	
Bit Rate Type	Variable Rate, Fixed Rate	
Frame Rate	50Hz: 1fps ~ 50fps, 60Hz: 1fps ~ 60fps	
Audio	AAC	
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps	
Support protocols	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast	
Operational Requirement		
Redundant Power Supply	Device should Support Minimum three power supply method for power redundancy Supports USB 5V power supply, 12V power adapter power supply and PoE power supply.	
PoE Power Supply & Controlling	Device should Support PoE power supply for control, Video and audio only need one network cable.	
Simultaneous Video Output	Device Should support HDMI,USB3.0 and LAN interface based Video output HD video at the same time.	
Low Light	Device Should support High SNR of CMOS sensor, even under low illumination conditions, picture can still keep clean and clear.	
Remote Control	All the parameters of the camera can be remote controlled by the high-speed communications	
Input/Output Interface		
Video Output	1xUSB3.0/ 1x USB TypeC, 1x HDMI, 1x RJ45	
Network Interface	1xRJ45: 10M/100M Ethernet Interface	
USB Interface	1x USB 3.0 Type-C	
Audio Interface	1-ch: 3.5mm Audio Interface Line In	

Communication Interface	1xRS232 In, 1xRS485	
Power Jack	JEITA type (DC IN 12V)	
Generic Specification		
Input Voltage	DC 12V, DC 5V, PoE(802.3af)	
Current Consumption	12V - 1.0A(MAX) / 5V - 1.5A(MAX)	
Operating Temperature	0°C ~ 40°C	
Storage Temperature	-20°C ~ 60°C	
Power Consumption	12W (Max)	
Certifications	BIS certification required	
Technical Specifications for Omnidirectional Microphone		
Connectivity	wireless USB, Wired USB, Aux IN/Out, Bluetooth	
Special features	Device should have capability to cascade with maximum upto 2 mic and both should be operate as a single unit	
Battery Life	8 Hours or better	
Inbuilt Speakers	Should have minimum (5W+5W) speakers or better	
Inbuilt Mic	Should have inbuilt 6 microphone connected in array	
Range of Mic	Audio pickup range of 6 mtr or better.	

Smart Podium with inbuilt computer with Audio System:

Feature	Descriptions	Compliance (Y/N)
Type/Mounting	Free Standing	
Construction	The enclosure should be made of Polycarbonate/Metal Body and Steel Frame with Soft wheels. The Top sliding (Opening/Closing) cover should be made of Polycarbonate Body. The construction of the podium should be such that, while the podium is locked and not in use, there should not be any port exposed on the outer	

	body for breakage/mishandling.	
Display	Built-in highly sensitive Interactive Panel with adjustable Motorized tilt & a mechanism to make the Panel stable so that it does not shake while writing with following minimum features -	
Technology	Interactive Panel should have both EMR (Electro magnetic resonance) & P-CAP touch technologies to have finger and 2 mm thick touch stylus	
Screen Type	LED	
Size	53.0 cm (21 inches) or higher	
Resolution	1920 x 1080 or higher	
Aspect ratio	16.09	
Computer interface	One USB, One VGA/DVI/HDMI Port	
Interactive Resolution	4000 Lpi (lines per inch)	
Response Time	5ms	
Viewing Angles	170(H) ; 160(V)	
Touch	Finger and Stylus	
Reading accuracy	±0.5 mm (centre)	
Tracking speed	Approximately 200 points per second	
Pen Pressure sensitivity	1024 Levels	
System Details		
Processor	Intel Core i5 (10th Gen or better processor)	
Small Form Factor	Computer should be of 2 liters Volume or less	
In-Built Wi-Fi /Wireless LAN Card	Should have a inbuilt Wi-Fi / Wireless LAN Card	
RAM	8 GB or better	
Storage	256 GB SSD or better	

Ports (Min.)	HDMI x 1, USB ports x 4, LAN Port x 1	
Keyboard & Mouse	Wireless	
Operating System	Windows 10	
Certificate	BIS Certificate required for Mini PC	
Multimedia Controller		
Ports on front Panel of Controller (Minimum)	VGA,HDMI,USB3.0x2,Audio IN or more	
Buttons on front Panel of Controller (Minimum)	Push buttons to control Volume Up& Down, Volume Mute and to switch sources of HDMI Visual Presenter, VGA Visual Presenter, HDMI Laptop, PC HDMI,VGA Laptop, VGA PC and Controller Power On/Off, Display Power On and Power Off or more	
Ports on Rear Panel of Controller (Minimum)	USB 3.0x2, HDMI In x 2, HDMI Out x 1, Audio Out 3.5mm, VGA Out x 1 or more	
Built in HDMI Repeater	Yes (HDMI Output port should support 15mtr HDMI cable)	
Controller Resolution Output	4K (3840 x 2160) Native	
Power	5 V DC (Suitable Adaptor should be supplied with controller)	
Built in devices		
Built in Amplifier Power	Amplifier : Class D Rated Power : 200 W or better Impedance : MIC input: 5mV / 600Ω balanced; AUX1,2 input: 350mV / 10KΩ unbalanced RCA connection terminal Mic Input : Minimum 2 input or better Line Input : Minimum 1 input or better	

	<p>Output : MIX OUT: 1000mV / 470Ω unbalanced RCA connector</p> <p>Tone : Bass: ± 10dB at 100Hz; Treble: ± 10dB at 10KHz</p> <p>Frequency Response : 80Hz ~16KHz (+ 1dB, -3dB)</p> <p>SNR : MIC1,2,3: 66dB; AUX1,2: 85dB</p> <p>THD : < 0.05% (at 1KHz, 1/3 rated power)</p> <p>; EMC is prior to all audio inputs</p> <p>Channel Crosstalk Attenuation : ≥50dB</p> <p>Heat Dissipation : Side-in and rear-out forced fan cooling; fan starts automatically when the device is turned on; infinitely variable speed</p> <p>Protection : Overcurrent protection, short circuit protection</p> <p>Power Supply : AC ~ 220V / 50Hz</p> <p>Power Consumption : 300W</p>	
Speakers	<p>Two speakers of Minimum 50 W each shall be a part of standard supply.</p> <p>Speaker Type : 2 Way drivers</p> <p>Effective frequency range : 100 Hz – 17 kHz</p> <p>Rated power : 50 watts</p> <p>Sensitivity : 90 dB or Better</p> <p>Impedance : 8Ω ohm</p> <p>LF transducer : 8-inch woofer or better</p> <p>HF transducer : 2-inch tweeter or better</p> <p>Mounting : With mounting bracket fixed by screw</p>	
Wireless Microphone	<p>One handheld Microphone and One Lapel Microphone with single receiver should be</p>	

Units	supplied with a range of 10 meters.	
Gooseneck Microphone	Gooseneck Microphone with XLR output. It should be Phantom powered so that there is no requirement of batteries thereby eliminating consumable cost. The gooseneck length should be at least 21.5cm. The gooseneck microphone shall be permanently polarised condenser, highly directional featuring hyper cardioid /lobar directivity	
Sliding Trays	Provision for keeping Keyboard & Mouse	
Power Supply	180 -240V, 50Hz, AC Supply	

6 nos. CCTV cameras with NVR with 2 TB Internal Surveillance grade hard disk:

2MP Dome Network Camera (05 Nos.)

S.No.	Specifications	Compliance (Y/N)
1	Camera should Incorporate 1/2.7 Progressive Scan CMOS	
2	Camera shall Provide at least 1920x1080 Effective pixels	
3	Camera should support IR Distance 30 Mtr.	
4	Camera Should Support Minimum Illumination Color: 0.01 Lux@F1.2 B/W: 0Lux with IR on	
5	Camera Should have Minimum Shutter Speed : Auto/Manual, 1s ~ 1/100000s	
6	Camera Should have Dual Stream	
7	Camera should be support Primary Stream: 1920x1080, 1280x720 @ 25/30fps	
8	Camera should be support Second Stream: 704x576, 640x360, 480x360, 352x288 @ 25/30fps	
10	Camera should offer H.265,H.264, H.264H,MJPEG Video Compression Standards : Should be listed on HEVC & AVC Website	
11	Camera Should Support Fixed Lens 2.8mm (Acceptance of ± 10%)	
12	Viewing Angle Supported by the Camera should be Horizontal: 110.0° Vertical: 59.0°	
13	Bandwidth limit should be adjustable between 32Kbps ~	

	8192Kbps	
14	Signal/ Noise Ratio: More Than >55dB	
15	Automatic Gain Control, White Balance, Electronic Day & Night(ICR)	
16	Ethernet : 1*RJ45 10M/100M	
17	Supports 3D Noise Reduction	
18	Camera Should Support Inbuilt Analytics : Intrusion and line crossing based on human detection	
19	Privacy Masking Should be valid for up-to 4 areas.	
20	Camera should support:DWDR	
21	Camera Should Support all These Network IPv4, RTSP/RTP/RTCP, TCP/UDP,DHCP, DNS, DDNS, UPNP, ICMP, IGMP, NTP, SMTP, 802.1x, SNMP, HTTP/HTTPS, PPPOE	
22	Camera Should Support Event Trigger: Motion Detection, Network Disconnection, External Input, Alarm, etc.	
23	Camera Should Support Event Action : SMTP Upload, SD Card Record, HTTP Notification, etc	
24	Camera Should Support IPV4 and IPV6 Network Addressing	
25	Camera shall be compliant with ONVIF Profile G,S,T : Should be listed on Onvif Website	
26	Camera Should be remotely viewed at Android, Windows Phone	
27	Camera should be accessed by minimum 10 Users simultaneously	
28	Camera should support On board storage : microSD up to 256GB	
29	Power Consumption : Max 5.5W	
30	Camera Should Support Various Power Parameters:PoE (802.3af)/ DC 12V±10%	
31	Temperature range should vary in between: '-40°C~60°C, Humidity :0~90%(Non-condensing)	
32	Product should be BIS, CE, FCC ,RoHS, certified. Copy of certificate need to be submitted along with the Bid	
33	Country of Origin: No Bidder as well as OEM with Investors, Venture Capitalist, Consortium members, Shareholders, directors from neighbouring countries will be allowed to participate in the Bid. Non-compliance shall result in rejection of Bid. A declaration to be submitted by Bidder & OEM.	
34	Products: All Cameras, Recorder & PoE switches should be from same OEM	

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Panoramic Network Camera (1 No.):

S.No.	Parameters	Specifications	Compliance (Y/N)
1	Image Sensor	1/2.7" Progressive Scan CMOS with $\pm 20\%$ acceptance on Sensor Size	
2	Recording Resolution	2560x1440 Recording Resolution or better	
3	IR Distance	20 Mtr or Better	
4	Minimum Illumination	Color:0.001Lux @ F1.2 B/W: 0Lux with IR on	
5	Shutter Speed	Auto/Manual, 1s ~ 1/100000s	
6	Video Stream	Individually configurable triple stream Primary Stream :25fps@2560x1440 Second Stream: 25fps640x480 Third Stream :25fps@1920x1080	
7	Video Compression	H.265+, H.265, H.264, MJPEG	
8	Lens	Multi-lens/dual-lens/single lens cover 180° Panoramic View	
9	Viewing Angle	Horizontal 180°, Vertical 95°	
10	Bandwidth	32Kbps ~ 8192Kbps	
11	Signal/ Noise Ratio	>60dB	
12	Electronic Day & Night (ICR)	supported	
13	Ethernet	1*RJ45 10M/100M	
14	Noise Reduction	Supports 3D Noise Reduction	
15	Audio Compression	G.711/AAC/G.722/G.726	
16	Privacy Masking	up-to 8 areas or better	
17	Wide Dynamic Range	Minimum 120dB or better	
18	Advanced Function	BLC, HLC, 2D DNR, 3D DNR,ROI,AWB,IP Address Filtering, AGC, Corridor Mode, Watermark	
19	EIS Feature	supported	
20	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, PPPoE, 802.1x, QoS, IGMP, ICMP, SSL	

21	Video Analytics	Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed	
22	Audio interface	Built-in Microphone	
23	Event Trigger	Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.	
24	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output etc	
25	Compatible Integration	G,S, T	
26	VoIP	Camera must support SIP Protocol & Integrate with Major Brands of VoIP Phones	
27	On-board storage	microSD/SDHC/SDXC Card Local Storage, up to 256GB	
28	Edge Storage	Cameras should be support 256GB SD Card In the event of failure of connectivity to the network storage the camera shall record video locally on the SD card automatically. After the connectivity is restored, these recordings shall be automatically pulled by the network storage recorder such that no manual intervention is required to transfer the SD card-based recordings to network storage	
29	Power	PoE (802.3af) / DC 12V±10%	
30	Country of Origin	Country of Origin: No Bidder as well as OEM with Investors, Venture Capitalist, Consortium members, Shareholders, directors from neighbouring countries will be allowed to participate in the Bid. Non-compliance shall result in rejection of Bid. A declaration to be submitted by Bidder & OEM.	
31	Certifications	Product should be BIS, CE, FCC ,RoHS,IP67 & IK10 certified. Copy of certificate need to be submitted along with the Bid	

8 Ch Network Video Recorder:

S.No.	Specifications	Compliance (Y/N)
1	The NVR Should have Dual-Core Embedded Processor	
2	The NVR must be available as a Rack mountable standalone device with on-board hard disk recording and should allow Web Based management	
3	The standalone NVR Hardware Must run on Linux OS.	
4	Vedio Input Channel :8Ch.	
5	The Linux NVR must Incorporate on-board security to protect it from Unauthorized access by blocking network ports not used and having an on-board IP based firewall.	
6	NVR should support Incoming Bandwidth :50Mbps.	
7	NVR should support Outgoing Bandwidth : 40Mbps	
8	NVR should support Total Throughput : 90Mbps	
9	NVR should support HDMI-1 Output Resolution:2560×1440,1920×1080, 1280×720, 800×600, 1024×768, 1366×768, 1440×900, 1280×800	
10	NVR should support VGA-1 Output Resolution: 1920×1080, 1440×900, 1366×768, 1280×800, 1280×720, 1024×768, 800×600	
11	NVR should support Recording Resolution:6MP, 5MP, 4MP, 3MP, 1080P, UXGA, 720P, VGA, 4CIF, DCIF, 2CIF, CIF, QCIF	
12	NVR should support Synchronous Playback :1x6MP, 1x5MP, 1x4MP, 1x3MP, 3x1080P, 4x720P	
13	NVR should offer a H.265+, H.265, H.264 Video Compression Standards	
14	NVR should support Recording Stream: Single Stream Supported	
15	NVR should support Screen Split:1/3/4/5/6/7/8	
16	NVR should support Audio Output: 1*RCA	
17	NVR Should Support Video Content Analytics	
18	NVR Should Support Trigger Events : Recording, PTZ Setup, Sequence Interval, Buzzer and Screen Tips.	
19	NVR Should Support Abnormal Warning: Network Disconnect, Disk Full, Record Failed, Disk Error, No Disk.	
20	NVR Should Support Recording Type :Continuous, Event (Motion Detection, Alarm, VCA, Smart Analysis)	
21	The NVR must automatically manage free disk space by deleting recordings older than the specified number of days or when a minimum disk space threshold is met	
22	NVR should have Web based support for system configuration & Diagnostics	
23	Network Interface:1xRJ45 self-adaptive 10/100 Mbps network	

	interface	
24	NVR should support Network Protocol :TCP/IP, ICMP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, IGMP, QoS	
25	NVR should support record interval of 1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec	
26	NVR should support all these Playback functions: General Playback- Play, Pause, Stop, Rewind, Fast play, Slow Play, Event Playback, Picture Playback, Playback Zoom	
27	NVR should support :ONVIF PROFILE	
28	NVR should be viewed remotely at iPhone, Android, Windows Phone	
29	NVR should support Internal Hard Disks: 1 SATA interface for 1 HDDs, Up to 10TB for each HDD	
30	NVR should support USB Interface: 2xUSB 2.0	
31	NVR should support AES Encryption :AES128	
32	NVR should support : 32 User/Host	
33	NVR should support Auxiliary Interface: 1 HDMI, 1 VGA, 2xUSB 2.0	
34	Power Supply: DC-12V 3.33A	
35	Power Consumption : ≤10W (without HDD)	
36	Temperature range should vary in between Temperature: -10°C~55°C, 10%~90% RH	
37	Certificate: CE, RoHS ,BIS,FCC	

8 Port Fast Ethernet PoE Switch with 2 Gigabit Uplink Port:

S.No.	Specifications	Compliance (Y/N)
1	Network Port Switch should Support: 8*10/100Mbps RJ45 PoE Port 2*10/100/1000Mbps RJ45 uplink port	
2	Network protocol standard switch should support these network protocol IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.ab, IEEE 802.AF/AT	
3	Output Power switch support power output Up to 30Watt Max.	
4	PoE Power Budget switch should support power Budget :120 Watt	
5	PoE Mode End-span	
6	Extend Mode switch should support Extend mode Up to 250m	

7	VLAN	switch must Support VLAN	
8	Switching Capacity	Switch should support 16Gbps Bandwidth	
9	Forwarding Rate	switch should support forwarding rate 100Mbps:148800pps 1000Mbps:1488000pps	
10	MAC Address	MAC address table 4K	
11	Forwarding Mode	Store and forward	
12	Port Function	Power priority mechanism, fast and forward, MAC automatic learning and aging IEEE802.3X Full-duplex and mode and backpressure for Half-duplex mode	
13	LED Indicator	Each port has one LINK/ACT PoE Status indicator, whole power indicator	
14	Power Input	Single, AC 100~240V, 50/60 Hz	
15	Working Temperature	-10°~ 55°C	

10 KVA Online UPS with 30 min battery backup:

Feature	Descriptions	Compliance (Y/N)
Rating in KVA (KVA)	10.0 KVA Single Phase In and Single Phase out	
Technology	IGBT-PWM with inbuilt isolation transformer	
Input Power single phase	160V - 260V sinewave,50Hz	
Output power	Single phase 230V +/-1% sinewave 50 Hz	
Backup time (Minutes)	30	
Movable trolley for Batteries	With rack	
Degree of Protection	IP20	
Type of Battery	SMF-VRLA	
20% Overload limit	For 1 Minutes or better	
Overall Efficiency (%)	>=90%	
50% Overload time	1 seconds or better	
Certifications	ISO 9001, ISO 14001, CE, ROHS, BIS, ISO 45001	
Country of origin	India (Manufacturing units present in India)	

i. **6 KVA Online UPS with 30 min battery backup:**

Feature	Descriptions	Compliance (Y/N)
Rating in KVA (KVA)	6.0 KVA Single Phase In and Single Phase out	
Technology	IGBT-PWM with inbuilt isolation transformer	
Input Power single phase	160V - 260V sinewave,50Hz	
Output power	Single phase 230V +/-1% sinewave 50 Hz	
Backup time (Minutes)	30	
Movable trolley for Batteries	With rack	
Degree of Protection	IP20	
Type of Battery	SMF-VRLA	
20% Overload limit	For 30 seconds or better	
Overall Efficiency (%)	>/=90%	
50% Overload time	1 seconds or better	
Certifications	ISO 9001, ISO 14001, CE, ROHS, BIS, ISO 45001,	
Country of origin	India (Manufacturing units present in India)	

ii. **48 TB NAS for data storage:**

Features	Description	Compliance (Y/N)
FRONT STORAGE	3.5 Chassis	
BACKPLANE	SAS/SATA Bacapiane	
REAR STORAGE	2x2.5 Rear Storage	
Trusted Platform Module	Trusted Platform Module 2.0 V3	
Processor	Intel Xeon Silver 4309Y 2.8G, 8C/16T, 10.4GT/s, 12M Cache. Turbo. HT (105W)	
	DDR4-2666	
Chassis Configuration	3.5" Chassis with up to 12 HDDS (SAS/SATA), 2x2.5" Rear HDDs (SAS/SATA) Adapter PERC	

Additional Processor	Intel Xeon Silver 4309Y 2.8G. 8C/16T, 10.4GT/s, 12M Cache, Turbo, HT (105W) DDR4-2666	
Additional Processor	Additional Processor Selected	
Processor Thermal Configuration	Heatsink for 2 CPU configuration (CPU less than 165W)	
Memory Configuration Type	performance Optimized	
Memory DIMM Type and Speed	3200MT/s RDIMMs	
Memory Capacity	16GB RDIMM, 3200MT/s, Dual Rank	
RAID Configuration	RAID 1 on Rear + Unconfigured RAID	
RAID/Internal Storage Controllers	PERC H755 Adapter Full Height	
Hard Drives	4TB Hard Drive SATA 6Gbps 7.2K 512n 3.5in Hot-Plug	
Hard Drives (PCIe SSD/Flex Bay)	2.4 TB 10K RPM SAS ISE 12Gbps 512n 2.5in Flex Bay Hard Drive	
BIOS and Advanced System Configuration Settings	Performance BIOS Settings	
Fans	High Performance Fan x6	
Power Supply	Dual, Hot-Plug Power Supply Redundant (1+1), 1400W, Mixed Mode	
Power Cords	Jumper Cord-C13/C14, 2M, 250V, 10A (India BIS)	
Power Cords	Power Cord-C13, 1.8M. 250V, 10A (India)	
PCIe Riser	Riser Config 6, 4x8, 2x16 slots	
Motherboard	R750 Motherboard with Broadcom 5720 Dual Port 1Gb On-Board LOM-for ICC government order	

Embedded Systems Management	iDRAC9, Enterprise 15G	
OCP 3.0 Network Adapters	Broadcom 57416 Dual Port 10GbE BASE-T Adapter, OCP NIC 3.0	
Bezel	2U Standard Bezel	
Boot Optimized Storage Cards	Assembly BOSS Blank	
Quick Sync	No Quick Sync	
Password	iDRAC, Factory Generated Password	
Group Manager	iDRAC Group Manager. Enabled	
Regulatory	BS2 label, ICC	
Regulatory	EMC label (BIS) for 3.5 Chassis (R750)	
Rack Rails	ReadyRails Sliding Rails	
Server Accessories	8X DVD-ROM USB, EXTERNAL	
Server Accessories	Fan Foam HDD 2U	
Server Accessories	Internal USB 3.0 Card	
Software		
Advanced System Configurations	UEFI BIOS Slot Mode with GPT Partition	
Embedded Systems Management	OpenManage Enterprise Advanced	
Operating System	Windows Server 2022 Standard 16CORE FI, No Med, No CAL, Multi Language	
OS Media Kits	Windows Server 2022 Standard, 16 CORE DF Recovery Image, Multi Lang (Downgrade not included)	
OS Media Kits	Windows Server 2022 Standard, 16CORE Media Kit Multi Lang. (Downgrade not included)	
OS Media Kits	Windows Server 2022 Standard, No Media WS2019 Std Downgrade DF Media, Muti Language	

OS Media Kits	Windows Server 2022 Standard No Media, WS2019 Std Downgrade w/DVD	
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iii. 24 port GBPS LAN Switch:

Feature	Descriptions	Compliance (Y/N)
Forwarding Mode	Store-and-Forward	
Power Supply	100-240VAC, 50/60Hz	
LED	Power, 1000Mbps, Link/Act	
Switch capacity	48 Gbps	
Packet forwarding rate	35.7Mbps or more	

iv. Associated cabling (CAT 6) for networking/ CCTV wiring/, Connectors, I/O box, installation/ misc. items:

Feature	Descriptions	Compliance(Y/N)
CAT 6 Networking	CAT 6 cabling and patch cords as required Connectors, I/O box, installation	
CCTV wiring material	Stranded Annealed Bare Copper Conductor	
Electrical wiring	Standard electrical wiring with Modular with earthing.	

v. Split Air conditioning:

Item Name	Parameters	Minimum Specifications	Compliance (Y/N)
3 Star Split Air conditioning	Cooling Capacity	2 tones	
	Type	Hot & Cold	
	Feature	inverter, dust filter, antibacterial coating, heater, dehumidifier	

vi. 65 inch Interactive Flat Panel for display of VSK at Director Office.

Feature	Descriptions	Compliance (Y/N)
Screen size	65" or higher	
Resolution	UHD 3840 × 2160 pixels or Higher	
Brightness	400 nits or Higher	
Contrast ratio (typical/Dynamic)	1100:1 or Higher	
Response time	2 ms or Better	
Light life	30,000 hrs or Higher	
Smart Eye protection	Interactive display should have smart eye protection.	
Glass		
Hardness	min 3mm Toughened glass	
Anti-glare coating	Interactive display should have Anti-glare coating	
Touch screen		
Touch technology	Infrared touch	
Touch points	20 touch points or Higher	
Touch response time	< 8 ms or Better	
System		
CPU	Quad core 1.5 Ghz. or Better	
Memory	4GB DDR3/DDR4 or Higher	
Storage	32GB or Higher	
OS	Android 9.0 or Better	
Input/ Output ports		
Input Ports (minimum)	3 × HDMI, 1x VGA, PC (OPS) -1 or Higher	
Output Ports (minimum)	1 x AV (3.5mm) or more	
USB Ports (minimum)	3 × USB 3.0 Type A, 1 × USB Type (touch) or Higher	
Communication Ports (minimum)	1x RS232 In, 1 x RJ45 10/100/1000 Gigabit ethernet port in or Better	
Built-in peripherals		
Speaker	Stereo Sound with in-built 15 Watt x 2 speakers	
Magnetic pen holder	Should have inbuilt magnetic pen holder with up to two pens	
Tutor friendly experience	Should have control buttons on Interactive display like Volume UP/Down, Home, Back, Menu, Touch on/off & Power Buttons for ease in	

	teaching.	
Quiz	Should have in built tool to allow participants to submit answers from their Smart Phones (Answering/Voting/Messaging)	
Smart Multimedia Port	Should have Built in Type-c multimedia port on front side to deliver Video, Audio, Touch control, Internet Sharing and Fast charging of up to 65 watt using a single USB type C cable	
SD Card Support	Should have provision to connect SD card/USB stick supports up to 512 GB of Storage	
Built in Wi-fi	Should have inbuilt Dual band Wi-fi (2.4 & 5Ghz)	
Built-in Bluetooth	Should have inbuilt Bluetooth version 5.0 or latest	
Stylus	Should have minimum 2 Nos of Stylus	
Remote control	Should have remote control to operate the Interactive display	
Software		
Whiteboard Interactive Software	Should have inbuilt whiteboard software for teaching/ training using Interactive display with features like AI Pen, Shape Pen, Sticky Notes, E-mail and others like (Pen, thickness of pen, colours of pen, Pixels eraser and Region eraser, Shapes (Circle, Triangle, Rectangle, arrows), Magnifier, Background of White board (multiple colours also use picture, shape), Redo/Undo, Next/Previous, Select & Drag option, Switching between single touch and multiple touch, Clear screen, List of pages with deleting option, Switching tool bar right to left, Many other Tools (Compass, Protector, Insert Table, Calculator, Curtain, Timer, Calendar, Camera, Spotlight,	

	Multiscreen (divide board in 2,3,and 4 parts with background colour and different pen colour), on screen annotation. Quiz results should be imported into whiteboard application Interactive software should be of the same OEM. Interactive software of the interactive Display should detect the Visual Presenter/ Visualiser and should be able to annotate on the image captured by the Visual Presenter/ Visualiser or similar as per OEM standard software	
Wireless screen sharing	Interactive display should allow user to share/mirror the content of Laptop/Desktop and mobile device(Android) wirelessly and should have Screen Share software to show up to 4 Multiple screen at same time.	
Quick access tool	Floating Tool should be available on all screen for quick access tools and same should be customized as per user requirement.	
Inbuilt Cloud drive	Interactive display should have inbuilt cloud drive access from Google drive & one drive	
Software based Video conferencing	Device should support software based VC with internal android platform like Google meet, Cisco WebEx , Skype, Microsoft teams & zoom applications.	
Multiple controlling menu	Should have Multi Controlling menu including Side menu, floating menu and pull up menu.	
Gesture Control	Should have gesture control like Hold five fingers on screen for Interactive display sleep mode, hold and move three fingers on screen for Floating menu & swipe the screen Upside for Pull up menu control or similiar	
Split Screen	Interactive display should have inbuilt split screen user should be able to split	

	the screen to operate multitask like play a video in half of screen and open whiteboard in other half side.	
Smart USB Port	All USB 3.0 port should support Smart USB sharing for Android, Internal PC or other External PC / Device	
Multilanguage GUI	Device should have GUI interface in both Hindi and English Language	
Virtual Keyboard	Device should have inbuilt virtual keyboard with English to Hindi writing support.	
Enhanced Security	Should have provision to lock all the USB port, Screen Lock, application lock to restrict unwanted access.	
Touch On/Off Button	Should have provision for Touch On/Off on front of Display	
Sound enhancement	Should have inbuilt Volume equalizer and surround sound support to enhance the sound quality.	
Screen Recording	Should have built in Screen recording feature supports up to full HD resolutions or better	
Screen Shot	Should have built-in screen shot option using single click	
Power		
Power	AC 100-240V 50/60Hz	
Maximum Power Consumption	250 W or Better	
Standby Power Consumption	<0.5 W or Better	
Environment		
Operating temperature	0°C ~ 40°C or Better	
Operating Humidity	10% ~ 80% RH Non-Condensing or Better	
Accessories	Wall mount Kit, 1x HDMI Cable (1.5 Meter), 1x USB A to B cable (1.5 Meter), 1x Power Cable (1.5 Meter)	
Certifications	BIS certification required	

vii. 43-Inch Full HD Professional Display for CCTV output:

Specifications	Description	Compliance(Y/N)
Technology	LED Backlight (IPS)	
Display size (Diagonal)	43 inch or higher	
Aspect Ratio	16:9	
Resolution	1920 x 1080 (Full HD) or higher	
View Angle	178 (H), 178 (V) degree	
Contrast Ratio	4000:1 or higher	
Brightness	400 cd/m ² or higher	
Display colour	16.7 million colours or better	
Remote	One Hand Held Remote	
Response Time (ms)	8 ms or better	
Input/Output Ports(Minimum)	2xHDMI, 1x AV, 1x Audio Out(Earphone) or more	
Speaker	Inbuilt Two speakers of minimum 20 Watt each and a subwoofer of 10 watt	
Other Connectivity	1x RJ45, 2x USB	
System Android version	Android 9 or better	
CPU	Quad core ARM cortex or better	
Memory(RAM)	1 GB or higher	
Internal Storage	8 GB or higher	
Miracast	Allow user to mobile wirelessly with the help of preinstalled Miracast app	
Media/File Support On Android	Audio, Video, Image, & Docs	
Power supply requirement	AC 110 - 210V, 50/60 Hz	
Max Power consumption	Maximum 75 Watts, Standby <0.5W	
Accessories to be supplied	AC Power cord, User Manual, Remote control, Wall mount bracket necessary cables and connectors shall be provided to make it a complete operable unit.	

Signature of Bidder Name: _____

Designation: _____

Organization Name: _____

Contact No.: _____

Seal of the Company: _____

ANNEXURE-II

**<< Organization Letter Head >>
DECLARATION SHEET**

We, _____ hereby certify that all the information and data furnished by our organization with regard to this tender specification are true and complete to the best of our knowledge. I have gone through the specification, conditions and stipulations in details and agree to comply with the requirements and intent of specification.

We further certified that our organization meets all the conditions of eligibility criteria laid down in this tender document. Moreover, we will support on regular basis with technology / product updates and extend support for the warranty.

We, further specifically certify that our organization has not been Black Listed/ De Listed or put to any Holiday by any Institutional Agency/ Govt. Department/ Public Sector Undertaking in the last four years.	NAME & ADDRESS of the VENDOR/ MANUFACTURER/ AGENT
1 Phone	
2 Fax	
3 E-mail	
4 Contact Person Name	
5 Mobile Number	
6 TIN Number	
7 PAN Number	
(In case of on-line payment of EMD)	
8. UTR No. (For EMD)	
9. Kindly provide bank details of the bidder in the following format:	
a) Name of the Bank	
b) Account Number	
c) Kindly attach scanned copy of one Cheque book page to enable us to return the EMD to unsuccessful bidder	

(Signature of the Bidder)

Name: _____

Seal of the Company

ANNEXURE III

Letter of undertaking
(ON THE LETTER HEAD OF THE BIDDER)

To
Chief General Manager (DES)
EdCIL (India) Limited (EdCIL)
EdCIL House, 18 A, Sector-16 A,
NOIDA – 201301 (U.P.)

Sir,

**SUBJECT- SELECTION OF SYSTEM INTEGRATOR FOR
“IMPLEMENTATION OF VIDYA SAMIKSHA KENDRA IN LADAKH”**

This bears reference to EdCIL Bid No. **EdCIL/DES/VSKLADAKH/2023** dated
We, hereby, accept all the terms and conditions for submitting bid as mentioned in
this Bid Document.

We hereby certify that no terms and conditions have been stipulated by us in the
Financial Bid.

We warrant that the services do not violate or infringe upon any patent, copyright,
trade secret or other property right of any other person or other entity. We agree
that we shall not prevent EdCIL from any claim or demand, action or proceeding,
directly or indirectly resulting from or arising out of any breach or alleged breach of
any of the terms & conditions of bid document and contract.

The above document is executed on at (place) _____ and we accept that if
anything out of the information provided by us is found wrong, our bid/ work order
shall be liable for rejection.

Thanking you,

Yours faithfully,

Name of the Bidder _____
Authorized Signatory _____
Seal of the Organization _____

Date:
Place:

ANNEXURE IV

UNDERTAKING OF NON BLACKLISTING

This is to confirm that we M/s _____ (give full address) have not been declared neither **failed to perform on any Agreement, nor have been expelled from any project or Agreement nor any Agreement terminated** for breach by the us (Agency) in any of the government department and public sector undertaking /enterprise or by any other Client in India.

If the above information found false at any stage after the placement of Work Order / Agreement, EdCIL (India) Limited (EdCIL), 18-A, Sector 16-A, Noida will have full right to cancel the Contact and forfeit the Performance Guarantee. All the direct and indirect cost related to the cancellation of the order will be borne by us besides any legal action by EdCIL which shall be deemed fit at that point of time.

Authorized Signatory

Note: *The undertaking regarding the non-blacklisting of firm is to be submitted on a non-judicial stamp paper of Rs. 100/- (Rupees Hundred only).*

ANNEXURE V

Annual Average Turnover(Financial Statement)

Sl. No.	Financial Year	Annual Turn over	Net Worth
1.	2020-21		
2.	2021-22		
3.	2022-23		
Total			
Average of FY 2020-21, 2021-22 and 2022-23			

Note: Certificate from Statutory Auditor/ Chartered Accountant certifying balance sheet only for all three years to be attached.

Signature with Seal of the Chartered Accountant

Signature with Seal of the Bidder

ANNEXURE-VI

**List of Orders Completed During Last 3 years for Govt. Organizations /
Autonomous Institutes in India**

Bid No.:

Date:

Name of the Firm:

S.No	Name of Client	Name of the Project and brief description	Value (Exc Tax)	Date of award	Date of Completion	Current Status and duration of maintenance period for ongoing project	Name of Contact Person and other details
1.							

Signature of Bidder

(Signature with seal)

Name: _____

Designation: _____

Organization Name: _____

Contact No. : _____

ANNEXURE-VII

COMPONENTS OFFERED -BOM

S.No.	Particulars	Make	Model
1	Video wall (Active LED)		
2	Video controller, Multi viewer, HDMI Splitters, and Switchers for input out controls, Drive, signal amplification etc required for completing the set up		
3	Acoustics		
4	Table		
5	Round table with 4 chairs		
6	Revolving Chairs with Arm		
7	All in One PC		
8	Video conferencing hardware and software		
9	Smart Podium with inbuilt computer with Audio System		
10	6 nos. CCTV cameras with DVR with 2 TB Internal Surveillance grade hard disk		
11	10 KVA online UPS with 30-minutes battery backup for Video Wall/Active LED, Smart Podium and Audio System		
12	6 KVA online UPS with 30-minutes battery backup for computers systems, CCTV, NAS Storage, LAN Switch and Video Conferencing Setup		
13	48 TB NAS for data storage		
14	24 Port GBPS LAN Switch		
15	Associated cabling (CAT 6) for networking/ CCTV wiring/, Connectors, I/O box, installation/misc. items, etc as per site requirements		
16	Split air-conditioner hot and cold 2 Ton		
17	65 inch Interactive Flat Panel for display of VSK at Director Office.		
18.	43-Inch Full HD Professional Display for CCTV output		

ANNEXURE-VIII

Power of Attorney

Know all men by these presents, we..... (name of firm and address of the registered office) do hereby constitute, nominate appoint and authorize Mr./Ms..... son/daughter/wife of and presently residing at....., who is presently employed with /retained by us and holding position of.....as our true and lawful attorney

(hereinafter referred to as the “Authorized Representative”) to do in our name and on our behalf, all such acts, deeds and things are as necessary or required in connection with or incidental to submission of our proposal for and selection as the <project title> for the <name of the client>.....project, proposed to be developed by the

..... (the “client”) including but not limited to signing and submission of all applications, proposals and other documents and writings, participating in pre bid and other conferences and providing information /responses to the client, representing us in all matters before the Client, signing and execution of all contracts and undertakings consequent to acceptance of our proposal and generally dealing with the client in all matter in connection with or relating to or arising out of our Proposal for the said project /or upon award thereof to us till the entering into of the Agreement with the client.

AND, we do hereby agree to ratify and confirm all acts, deeds and things lawful done or caused to be done by our said Authorized Representative pursuant to and in exercise of the powers conferred by this power and Attorney and that all acts, and things done by our said Authorized Representative in exercise of the powers hereby conferred shall and shall always be deemed to have been done by us.

[IN WITNESS WHEREOF WE.....THE ABOVE-NAMED PRINCIPAL HAVE EXECUTED THIS POWER OF ATTORNEY ON

THIS DAY OF 2020.

For (Name and registered address of client)

(Signature, name, designation, and address)

Witness:

1. (Signature, name and address)
2. (Signature, name and address)

Notarized

Accepted

.....

(Signature, name, designation, and address of the attorney)

Notes:

1. The mode of the execution of the power of Attorney shall be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executants (s) and when it is so required the same should be under seal affixed in accordance with the required procedure.
2. Wherever required, the applicant should submit for verification the extract of the charter documents and other documents such as a resolution/Power of Attorney in favor of the person executing this Power of Attorney for delegation of power hereunder on behalf of the applicant.
3. For a Power of Attorney executed and issued overseas, the document will also have to be legalized by the Indian Embassy and notarized in the jurisdiction where the Power and Attorney is being issued. However, the Power of Attorney provided by the applicants from countries that have signed The Hague Legislation Convention, 1961 are not required to be legalized by the Indian Embassy it is carries a conforming Apostle certificate.

ANNEXURE-IX

LETTER OF BID SUBMISSION

To
Chief General Manager (DES),
EdCIL (India) Limited,
EdCIL House, 18A, Sector- 16A,
NOIDA- 201 301 (U.P)

SUBJECT: SELECTION OF SYSTEM INTEGRATOR FOR “IMPLEMENTATION
OF VIDYA SAMIKSHA KENDRA IN LADAKH”

-Submission of Bid -

Sir,

Having examined the details given in Press Notice, Notice Inviting Bid & Bid Document for the above work, I/we hereby submit the relevant information.

1. I/We hereby certify that all the statements made and information supplied in the enclosed form _____ and accompanying statements are true and correct.
2. I / we certify that we have not changed/alterd any word/sentence or any figure in number/s or words appearing the original tender document uploaded by EdCIL on the designated web page for e-tendering. In case, if a fraudulent activity is found at any stage between tender submission to final closure of the tender/contract, our candidature/bid/contract shall be immediately cancelled and EMD/Performance security/ security deposit along with the due amount towards the work executed or advance shall be forfeited. EdCIL will not entertain any claim or entertain any reason for this intentional act. EdCIL may go for the legal action against the bidder for recovering any one or all damages caused to EdCIL or its client on this account.
3. I/We have furnished all information and details necessary for eligibility and have no further pertinent information to supply.
4. I/We submit the requisite **certified solvency certificate** and authorize the EdCIL to approach the Bank issuing the solvency certificate to confirm the correctness thereof. I/We also authorize EdCIL to approach individuals,

employers, firms and corporation to verify our competency and general reputation.

5. I/We submit the following **certificates** in support of our suitability, technical knowledge and capability for having successfully completed the following works:

S.No.	Name of Work	Certificate From

6. Earnest Money Deposit amounting to Rs.4,70,000 in the form of DD/Pay Order No. ----- dated ----- issued by ----- Bank is submitted.
7. Demand Draft of Rs. (NIL)/- towards Bid document cost.: If applicable

Enclosures:

Date of Submission:

Bank Guarantee towards Bid Security (EMD)

Bank Guarantee No. _____

To,
Chief General Manager (DES)
EdCIL (India) Limited
EdCIL House, 18 A,
Sector-16 A NOIDA – 201301 (U.P.), India

Whereas (here in after called "the Bidder") has submitted its Bid dated(Date) in response to the RFP No:..... for SELECTION OF SYSTEM INTEGRATOR FOR “IMPLEMENTATION OF VIDYA SAMIKSHA KENDRA IN LADAKH” (here in after called "the Bid")

KNOW ALL MEN by these presents that We having our registered office at..... (hereinafter called the "Bank") are bound onto EdCIL India Limited, Noida (hereinafter called "EdCIL") in the sum of for which payment well and truly to be made to the said EdCIL itself, its successors and assignees by these presents.

The conditions of these obligations are:

1. If the Bidder withdraws its Bid during the period of Bid validity or
2. If the Bidder, having been notified of the acceptance of its Bid by EdCIL

during the period of Bid validity:

1. fails or refuses to execute the Agreement form if required; or
2. fails or refuses to furnish the performance security, in accordance with the Bid requirement

We undertake to pay EdCIL up to the above amount upon receipt of its first written demand, without EdCIL having to substantiate its demand, provided that in its demand EdCIL will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to (Date) and any demand in respect thereof should reach the Bank not later than the above date.

Dated: the Day of for

(indicate the name of bank)

Signature of Banks Authorized official

Witness (Name)_____

Designation with Code No.

1. Full Address.....

2.

Annexure XI

Name of the Bank: _____

To

**Chief General Manager (DES)
EdCIL (India) Limited
EdCIL House, 18 A, Sector-16 A
NOIDA – 201301 (U.P.)**

PERFORMANCE BANK GUARANTEE FORMAT

In consideration of the Chief General Manager EdCIL acting through _____ (Designation & address of Contract Signing Authority), (hereinafter called “The EdCIL (India) Ltd”) having agreed under the terms and conditions of agreement/ Contract Acceptance letter No. _____

Dt : _____ Made between _____ (Designation & address of contract signing Authority) and _____ (here in after called “the said Agency” for the work _____ (here in after called “the said agreement”) having agreed for submission of a irrevocable Bank Guarantee Bond for ₹ _____ (₹ _____ only) as a performance security Guarantee from the Agency for compliance of his obligations in accordance with the terms & conditions in the said agreement.

1. We _____ (Indicate the name of the Bank) hereinafter referred to as the Bank, undertake to pay to the EdCIL (India) Ltd an amount not exceeding ₹ _____ (₹ _____ only) on demand by the EdCIL (India) Ltd.
2. We _____ (Indicate the name of the bank, further agree that (and promise) to pay the amounts due and payable under this guarantee without any demur merely on a demand from the EdCIL (India) Ltd through the

CGM(DES), EdCIL (India) Ltd, Noida or _____ (Designation & Address of contract signing authority), stating that the amount claimed is due by way of loss or damage caused to or would be caused or suffered by the EdCIL (India) Ltd by reason of any breach by the said Agency of any of the terms of conditions contained in the said agreement or by reason of the Agency failure to perform the said agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding ₹ _____ (₹ _____ Only).

3. (A) We _____ (indicate the name of Bank) further undertake to pay to the EdCIL (India) Ltd any money so demanded notwithstanding any dispute or dispute raised by the Agency in any suite or proceeding pending before any court or Tribunal relating to liability under this present being absolute and unequivocal.

(B) The payment so made by us under this Performance Guarantee shall be a valid discharge of our liability for payment there under and the Agency shall have no claim against us for making such payment.

4. We _____ (Indicate the name of bank) to further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the EdCIL (India) Ltd under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged by _____

(Designation & Address of contract signing authority) on behalf of the EdCIL (India) Ltd, certify that the terms and conditions of the said agreement have been fully and properly carried out by the said Agency and accordingly discharges this guarantee.

5 (a) Not withstanding anything to the contrary contained herein the liability of the bank under this guarantee will remain in force and effect until such time as this guarantee is discharged in writing by the EdCIL (India) Ltd or until (date of validity/ extended validity) whichever is earlier and no claim shall be valid under this guarantee unless notice in writing thereof

is given by the EdCIL (India) Ltd within validity/ extended period of validity of guarantee from the date aforesaid.

- (b) Provided always that we _____ (indicate the name of the Bank) unconditionally undertakes to renew this guarantee or to extend the period of guarantee form year to year before the expiry of the period or the extended period of the guarantee, as the case shall be on being called upon to do so by the EdCIL (India) Ltd. If the guarantee is not renewed or the period extended on demand, we _____ (indicate the name of the Bank) shall pay the EdCIL (India) Ltd the full amount of guarantee on demand and without demur.
6. We _____ (indicate the name of Bank) further agree with the EdCIL (India) Ltd that the EdCIL (India) Ltd shall have the fullest liberty without our consent and without effecting in any manner out of obligations hereunder to vary any of the terms and conditions of the said contract from time to time or to postpone for any time or from time to time any to the powers exercisable by the EdCIL (India) Ltd against the said Agency and to forbear or enforce any of the terms and conditions of the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Agency for any bearance act or omission on the part of the EdCIL (India) Ltd or any indulgence by the EdCIL (India) Ltd to the said Agency for by any such matter or thing whatsoever under the law relating to sureties for the said reservation would relive us from the liability.
7. This guarantee will not be discharged by any change in the constitution of the Bank or the Agency.
8. We, _____ (indicate the name of the Bank) lastly undertake not to revoke this guarantee except with the previous consent of the EdCIL (India) Ltd in writing.
9. This guarantee shall be valid up to (Date of Completion plus 90 Days). Unless extended on demand by EdCIL (India) Ltd. Notwithstanding anything to the contrary contained hereinbefore, our liability under this guarantee is restricted to Rs..... (Rs.....only) unless a demand under this guarantee is made on us in writing on or before..... we shall be discharged from our liabilities under this guarantee thereafter.

Dated:	The	Day of	For
		(indicate the name of bank)	
		Signature of Banks Authorized official	
Witness		(Name)_____	
		Designation with Code No. -----	
1		Full Address-----	
2.			

PROFORMA PRE CONTRACT INTEGRITY PACT

GENERAL

This pre-bid pre-contract Agreement (hereinafter called the Integrity Pact) is made on ___ day of the month of 2023, between, on one hand, acting through Shri/Smt. _____, Designation, EdCIL (India) Limited (hereinafter called the “BUYER”/ “EdCIL” interchangeably, which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First Part

AND

M/s _____ represented by Shri _____, Chief Executive Officer (hereinafter called the “BIDDER/Seller” which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

WHEREAS the EdCIL proposes to procure services towards “Selection of System Integrator for “Implementation of Vidya Samiksha Kendra in Ladakh”.

For its clients and BIDDER/Seller is willing to offer the said services and related items as referred to in the Bid document No. **EdCIL/DES/VSKLADAKH/2023** Dated 2023.

WHEREAS the BIDDER is a private company /public company / Government undertaking / partnership / registered expert agency, constituted in accordance with the relevant law in the matter and the EdCIL is a Public Sector Undertaking under Ministry of Human Resource Development performing its functions.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence / prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to:

Enabling the EdCIL to obtain the desired services as referred to in the Bid document No. **EdCIL/DES/VSKLADAKH/2023** dated2023 at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement and Enabling BIDDERS to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the EdCIL will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:

1. Commitments of the EdCIL

- 1.1 The EdCIL undertakes that no official of the EdCIL, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favor or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.
- 1.2 The BUYER will, during the pre-contract stage, treat all BIDDERS alike, and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.
- 1.3 All the officials of the EdCIL will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.

2. In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the EdCIL with full and verifiable facts and the same is prima facie found to be correct by the EdCIL, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings shall be initiated by the EdCIL and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the EdCIL the proceedings under the contract would not be stalled.

3. **Commitments of Bidders**

The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:

3.1 The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the EdCIL, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.

3.2 The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the EdCIL or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with the Government for showing or forbearing to show favour or disfavor to any person in relation to the contract or any other contract with the Government.

- 3.3 Bidders shall disclose the name and address of agents and representatives and Indian BIDDERS shall disclose their foreign principals or associates.
- 3.4 BIDDERS shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid/contract.
- 3.5 The BIDDER further confirms and declares to the EdCIL that the BIDDER is the original manufacturer/integrator/authorized government sponsored export entity and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the EdCIL or any of its functionaries, whether officially or unofficially to the award to the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation, as the case shall be for satisfactory performance of the proposed terms of Bidder.
- 3.6 The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the EdCIL or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.
- 3.7 The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
- 3.8 The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 3.9 The BIDDER shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the EdCIL as part of the business relationship, regarding plans, technical proposals and business details, including information

contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.

- 3.10 The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- 3.11 The BIDDER shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
- 3.12 If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or indirectly, is a relative of any of the officers of the EdCIL, or alternatively, if any relative of an officer of the EdCIL has financial interest / stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filing of Bid.
- 3.13 The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the EdCIL.

4. PREVIOUS TRANSGRESSION

- 4.1 The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this integrity pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify BIDDER's exclusion from the bid process.
- 4.2 The BIDDER agrees that if it makes incorrect statement on this subject. BIDDER can be disqualified from the Bid process or the contract, if already awarded, can be terminated for such reason.

5. EARNEST MONEY DEPOSIT

- 5.1 While submitting Technical bid, the BIDDER shall deposit an amount of Rs. 4,70,000 as Earnest Money with the EdCIL through Account Payee Bank Demand Draft/ BG in favor of EdCIL (India) Limited.
- 5.2 The instrument for Security Deposit made shall be valid up to the specified period and the bidder shall be liable to keep the said instrument valid for such extended period as the case shall be for satisfactory performance of the terms of Bidder above referred till the complete conclusion of the contractual obligations to the complete satisfaction of both the BIDDER and the EdCIL, including O&M period, whichever is later.
- 5.3 In case of the successful BIDDER a clause would also be incorporated in the Article pertaining of Performance Bond in the corresponding Contract governing such agreement that the provisions of Sanctions for Violation shall be applicable for encashment of Performance Bank Guarantee deposited towards forfeiture of said amount in case of a decision by the EdCIL to forfeit the same without assigning any reason for imposing such sanction.
- 5.4 No interest shall be payable by the EdCIL to the BIDDER on Earnest Money Deposit for the period of its currency.

6. **SANCTIONS FOR VIOLATIONS**

- 7.1 Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the EdCIL to take all or any one of the following actions, wherever required:
- i. To immediately call off the pre-contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.
 - ii. The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit / Performance Bond (Bank Guarantee) (after the contract is signed) shall stand forfeited either fully or partially, as decided by

the EdCIL and the BUYER (EdCIL) shall not be required to assign any reason therefore.

- iii. To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.
- iv. To recover all sums already paid by the EdCIL, and in case of an Indian BIDDER with interest thereon at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2% higher than the LIBOR as the case shall be. If any outstanding payment is due to the BIDDER from the EdCIL in connection with any other contract for any other stores or on any account whatsoever and by whatsoever name called, such outstanding payment could also be utilized to recover the aforesaid sum and interest thereto.
- v. To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the EdCIL, along with interest.
- vi. To cancel all or any other Contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the EdCIL resulting from such cancellation/rescission and the EdCIL shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.
- vii. To debar the BIDDER from participating in future bidding processes of the Government of India for a minimum period of five years, which shall be further extended at the discretion of the EdCIL.
- viii. To recover all sums paid in violation of this Pact by BIDDER(s) to any middleman or agent or broker with a view to securing the contract.

- ix. In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the EdCIL with the BIDDER, the same shall not be opened.
- x. Forfeiture by way of encashment of Performance Bond in case of a decision by the EdCIL to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.
- 6.2 The EdCIL will be entitled to take all or any of the actions mentioned at Para 6.1(i) to (x) of this Pact also on the Commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of any offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.
- 6.3 The decision of the EdCIL to the effect that a breach of the provisions of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, an Independent Monitor(s) shall be appointed by EdCIL, in case of breach of the provisions of the pact.

7. INDEPENDENT MONITORS

- 1.1 An Independent monitor (s) shall be appointed by EdCIL, in case of breach of the provisions of the pact.
- 1.2 The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.
- 1.3 The Monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.
- 1.4 Both the parties accept that the Monitors have the right to access all the documents relating to the project / procurement, including minutes of meetings.

- 1.5 As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the EdCIL.
- 1.6 The BIDDER(s) accept that the Monitor has the right to access without restriction to all Project documentation of the EdCIL including that provided by the BIDDER. The BIDDER will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Sub-bidders. The Monitor shall be under contractual obligation to treat the information and documents of the BIDDER/Sub-bidder(s) with confidentiality.
- 1.7 The EdCIL will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings.
- 1.8 The Monitor will submit a written report to the designated Authority of BUYER/Secretary in the Department/within 8 to 10 weeks from the date of reference or intimation to him by the EdCIL / BIDDER and, shall the occasion arise, submit proposals for correcting problematic situations.

2. FACILITATION OF INVESTIGATION

In case of any allegation of violation of any provisions of this Pact or payment of commission, the EdCIL or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

3. LAW AND PLACE OF JURISDICTION

This Pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the EdCIL.

4. **OTHER LEGAL ACTIONS**

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that shall follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

5. **VALIDITY**

5.1 The validity of this Integrity Pact shall be governed by the terms of the Bid No. **EdCIL/DES/VSKLADAKH/2023** towards complete execution of the contract to the satisfaction of both the EdCIL and the BIDDER/Seller, including O&M period, whichever is later. In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract awarding the Bidder with successful bidder.

5.2 Shall one or several provisions of this Pact turn out to be invalid; the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

6. The parties hereby sign this Integrity Pact at _____ on _____.

EdCIL (India) Limited

Name of the Officer :
OFFICER

Designation:

BIDDER

CHIEF EXECUTIVE

Witness:

Witness:

1. _____

2. _____

(The Pre-Contract Integrity Pact shall be modified based in line with the conditions of the Bid Documents

Annexure XIII

Manufacturer (OEM) Authorization Form

No. _____ dated _____

To

Chief General Manager (DES)
EdCIL (India) Limited
EdCIL House, 18 A, Sector-16 A
NOIDA – 201301 (U.P.)

Subject : MAF for SELECTION OF SYSTEM INTEGRATOR FOR
“IMPLEMENTATION OF VIDYA SAMIKSHA KENDRA IN LADAKH”

Dear Sir:

Bid No. _____

We _____ who are established and reputed manufacturer of _____ (name and description of goods offered) having factories at _____ (address of factory) with factory registration no. ----- do hereby authorize M/s _____ (Name and address of Agent) to submit a bid, and sign the contract with you for the goods manufactured by us against the above bid.

We hereby extend our full warranty as per the required terms and conditions of Contracts, for the goods and services offered for supply by the above firm against this Invitation for Bid. We further certify that we shall support vendor with all related spares and maintenance during the entire contract period including the period of warranty and AMC and we also declare that the product proposed in this contract will not be end of life till the contract period.

Yours faithfully,

(Name): _____

(Name of manufacturers): _____

Note: This letter of authority should be on the letterhead of the manufacturer or OEM and should be signed by a person competent and having the power of attorney to legally bind the manufacturer.

Contract Form

THIS AGREEMENT made the day of 2023 between EdCIL (Hereinafter called "the Purchaser") of the one part and (Name & address of Supplier) (Hereinafter called "the Supplier") of the other part:

WHEREAS the Purchase is desirous that certain Goods and ancillary services viz. (Brief Description of Goods and Services) and has accepted a bid by the Supplier for the supply of those goods and services in the sum of (Contract Prize in words and Figures) (Hereinafter called "the Contract Price")

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and constructed as part of this Agreement, viz.,
 - [a] The Price Schedule submitted by the Bidder;
 - [b] The Schedule of Requirements;
 - [c] The Terms & Conditions
 - [d] The EdCIL's Notification of Award/ Purchase Order
3. In consideration of the payments to be made by the EdCIL to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the EdCIL to provide the goods and services and to remedy defects herein in conformity in all respects with the provisions of the Contract.
4. The EdCIL hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the remedying of defects therein, the Contract prices or such other sum as shall become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

Brief particulars of the goods and services, which shall be supplied/ provided by the Supplier, are as under:

S. No.	Brief Description of Goods & Services	Quantity to be supplied	Unit Price	Total Price	Delivery Terms
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TOTAL VALUE:

DELIVERY SCHEDULE:

IN WITNESS where of the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

Signed, Sealed and Delivered by the
said (For the EdCIL)

in the presence of

Signed, Sealed and Delivered by the
said (For the Supplier)

in the presence of

LIST OF AUTHORISED BANKS FOR BG

Any Guarantee issued by PSU Bank (or) Private Bank operating in India must be operational and invocable in Noida only. For Guarantee to be operational in Noida the issuing bank must designate a specified Bank Branch in Noida.

Following banks are permissible for accepting Bank Guarantees:

I- SCHEDULED PUBLIC SECTOR BANKS

S.No.	Name of the Bank
1	Bank of Baroda
2	Bank of India
3	Bank of Maharashtra
4	Canara Bank
5	Central Bank of India
6	Indian Bank
7	Indian Overseas Bank
8	Punjab & Sind Bank
9	Punjab National Bank
10	State Bank of India
11	UCO Bank
12	Union Bank of India

II- SCHEDULED PRIVATE SECTOR BANKS

S.No.	Name of the Bank
1	HDFC Bank Ltd
2	ICICI Bank Ltd
3	Axis Bank Ltd
4	Kotak Mahindra Bank Ltd
5	Indusland Bank Ltd

Annexure XVI

Equipment Specification Compliance

COMPLIANCE STATEMENT FORM

- a) Bidders shall respond to basic sections of this tender clause by clause/Clauses, using a compliance summary statement, the sample format of which is given below. This shall be in sequential order, the same as is given in this specification.

S.No.	Technical specification of each line items as per Scope of work	Compliance statement	Description
		Put Comply or not comply	Explain how the offered good is complaint or not compliant with the requirement of the technical specification attached (if the bidder does not mention justification for compliance, it might be considered as non-compliant)

- b) If no compliance is stated for a clause, the good will be assumed not to comply with that particular specification item, contract and standard commercial terms and Conditions
- c) For purpose of compliance verification, a document and page number cross-reference should be given (where applicable) in the reference column of the compliance summary statement.
- d) The supplier may include other relevant documentation by indicating a page number of document. It is mandatory to include detailed technical documentation, covering specification and quality performance of goods to be offered.

- e) Any clause marked with “comply” in the bidders’ compliance summary statement is binding on the successful bidder to supply goods that meet the requirements of that clause. This shall apply for the lifetime of any awarded contract.

Annexure XVII

Pre-Bid Query Format

Pre-bid queries should be submitted in .XLS format.

RFP Description				
RFP No.				
Organization				
Address				
Contact Person				
Contact No.				
Mail Id				
S.No.	Section No.	Page No.	Clause as per RFP	Clarification Sought

**PERFORMA FOR DECLARATION ON PROCEEDINGS UNDER
INSOLVENCY AND BANKRUPTCY CODE, 2016**

Tender No. :

Name of Work :

Bidder 's Name :

I/ We, M/s. _____ declare that:-

- a) I /We am / are not undergoing insolvency resolution Process or liquidation or bankruptcy proceeding as on date.
- b) I /We am / are undergoing insolvency resolution process or liquidation or bankruptcy proceeding as on date as per Details mentioned below. (Attached detail with technical bid)

Note: Strike out one of above which is not applicable.

It is understood that if this declaration is found to be false, EdCIL (India) Ltd. shall have the right to reject my / our bid, and forfeit the EMD, if the bid has resulted in a contract, the contract will be liable for termination without prejudice to any other right or remedy (including holiday listing) available to EdCIL (India) Ltd.

Place:

Date: Signature of Bidder Name of Signatory

Financial Bid

Instructions to Bidders

1. Financial Bid shall be submitted with full price details.

Financial Bid shall contain only the prices duly filled in as per the format given in Schedule of Rates provided in the tender document. Price bid should not have any Commercial and/or Technical stipulation in addition to, what is already given in Part I – Technical bid.

Financial Bid Standard Form-1 shall be used for the preparation of the price quote according to the instructions provided.

2. The bid shall be evaluated on total Price as shown in financial bid.
3. The prices quoted by the bidder shall be fixed for the quantity mentioned for the duration of the contract.
4. The changes displayed in the corrigendum/addendum to the bid documents, particularly with the financial bid should be attached with the **Financial Bid Submission Form**, in the same packet, duly signed and stamped by the authorized signatory of the Bidder firm.
5. The financial bid form-1 along with financial bid submission form should be filled in all respect and uploaded in **.PDF** format (only) duly signed and sealed by the authorized representative. In case, the financial bid documents are not complete in all respect the same should be treated as incomplete at financial bid stage and shall be considered non-responsive.

FINANCIAL BID SUBMISSION SHEET

{On bidder's letterhead in technical bid}

To,

**Chief General Manager (DES)
EdCIL (India) Limited (EdCIL)
EdCIL House, 18 A, Sector-16 A,
NOIDA – 201301 (U.P.)**

Reference: NIT No.: _____ Dated: _____

Dear Sir,

We, the undersigned bidder, having read & examined in detail, the Bidding Document, the receipt of which is hereby duly acknowledged, I/ we, the undersigned, offer to supply/ work as mentioned in the Scope of the work, Bill of Material, Technical specifications, Service Level Standards & in conformity with the said bidding document for the same.

I/ We undertake that the prices are in conformity with the specifications prescribed. The quote/ price are inclusive of all cost likely to be incurred for executing this work. The prices are inclusive of all type of govt. taxes/ duties as mentioned in the financial bid (BoQ).

I/We undertake, is our bid is accepted, to deliver the goods and services in accordance with the delivery schedule specified in the schedule of Requirements.

I/We hereby declare that in case the contract is awarded to us, we shall submit the performance bank guarantee as prescribed in the bidding document.

I/We agree to abide by this bid for a period of 180 days after the last date fixed for bid submission and it shall remain binding upon us and may be accepted at any time before the expiry of that period.

Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your notification of award shall constitute a binding Contract between us.

I/We hereby declare that our bid is made in good faith, without collusion or fraud and the information contained in the bid is true and correct to the best of our knowledge and belief.

We understand that you are not bound to accept the lowest or any bid you may receive.

Date:

Authorized Signatory:

Name:

Designation:

FORM-1

Subject: Selection of System Integrator for “Implementation of Vidya Samiksha Kendra in Ladakh.

Name of the Owner Individual/ Firm:

A. IT INFRASTRUCTURE FOR VSK:

S.No.	Name of item	Qty. (X)	Unit Cost	GST (%)	GST Amount	Total Unit Cost (Y)	Total Amount (=XxY)
1.	Video wall (Active LED)	1 Lot					
2.	Video controller, Multi viewer, HDMI Splitters, and Switchers for input out controls, Drive, signal amplification etc required for completing the set up	1 Lot					
3.	Acoustics	1 lot					
4.	Table	13 Nos.					
5.	Round table with 4 chairs	1 lot					
6.	Revolving Chairs with Arm	13 Nos.					
7.	All in One PC	13 Nos.					
8.	Video conferencing hardware and software	1 Lot					
9.	Smart Podium with inbuilt computer with Audio System	1 Lot					
10.	6 nos. CCTV cameras with DVR with 2 TB Internal Surveillance grade hard disk	1 No.					
11.	10 KVA online UPS with 30-minutes battery backup for	1 No.					

	Video Wall/Active LED, Smart Podium and Audio System						
12.	6 KVA online UPS with 30-minutes battery backup for computers systems, CCTV, NAS Storage, LAN Switch and Video Conferencing Setup	1 No.					
13.	48 TB NAS for data storage	1 No.					
14.	24 Port GBPS LAN Switch	1 No.					
15.	Associated cabling (CAT 6) for networking/ CCTV wiring/, Connectors, I/O box, installation/misc. items, etc as per site requirements	1 No.					
16.	Split air-conditioner hot and cold 2 Ton	1 lot					
17.	65 inch Interactive Flat Panel for display of VSK at Director Office.	4 Nos.					
18.	43-Inch Full HD Professional Display for CCTV output	1 No.					
Total Amount for IT Infrastructure for VSK (Incl. GST), A							

Total Amount for IT Infrastructure for VSK (Incl. GST) (In Words): _____

Note:

- i. The above prices shall be inclusive of all taxes, delivery charges and installation charges including three years onsite comprehensive warranty at the client site.
- ii. Applicable deduction on payment will be made for TDS/GST.
- iii. Validity of Offer: The offer should remain valid at least for a period of 180 days to be reckoned from the date of bid opening.
- iv. The above prices shall include three years on site comprehensive warranty and AMC.
- v. All other incidental charges relating to transportation of equipments at the site are included in the above prices.
- vi. No amount towards TA / DA and lodging, boarding or incidental to execution of the project

shall be paid.

B. PMU for VSK

S.No.	Profile	Man-Month Rate (In INR) (A)	Applicable Taxes (In INR) (B)	Period of Deployment (in months) (C)	Total Cost (Inclusive of Taxes in INR) (A+B)*C
1	Software Engineer*02			6	
2	Data Analyst*02			2	
Total Cost of PMU (in INR) (1+2)					

Total Cost of PMU (in INR) (in words) : _____

Note:

- The firm must avoid any error while quoting prices for the services as per the format given. If any discrepancy is found in the RFP response, it will be rejected.
- The quoted rates should be in accordance with the scope of work for individual profile.
- The quoted price should be inclusive of all expenses and applicable taxes.
- Validity of Offer: The offer should remain valid at least for a period of 180 days to be reckoned from the date of bid opening.
- No other charges will be paid beyond the above quoted price.
- No TA/DA is admissible for the deployment of agency Team Members on projects anywhere in India. However, TA/DA shall be payable directly by the end-client for undertaking any tour in project interest on production of travel documents or other necessary documents in original subject to approval of competent authority of the end-client.
- The bid price shall include all expenses i.e., conveyance charges, all taxes and levies, PF, gratuity, etc., and shall be in Indian Rupees.

Summary for Financials:

S.No.	Particulars	Total Amount (Incl. GST)
1	IT INFRASTRUCTURE FOR VSK	
2	PMU for VSK	
Total Project Cost (Incl. GST)		

Total Project Cost (incl. all Taxes, Levies and other charges) (In Words) _____

Note:

Least quoted Total Project Cost (in words) inclusive of all Taxes, Levies and other charges in INR will be selected as L1 Bidder.

All the components of this tender should be quoted by a single bidder.

Place:

Date:

Signature and Stamp of the Bidder

Name:

Designation: