

WEBEL TECHNOLOGY LIMITED

NOTICE INVITING e-TENDER

e-Tender are invited for Development of smart and virtually enabled State-of-the-Art Training Infrastructure at Chandrapura Thermal Power Station (CTPS) of DVC.

Bids are invited from reputed bidders having sufficient experience and credentials for successful completion of “**Similar Nature**” of work in a Central/State Government/PSU/Autonomous Body.

1.	Tender No. & Date	WTL/DVC/TRAINING/25-26/025 DATED 16/09/2025
2.	Tender Version No.	1.0
3.	Brief description of Job	Supply and Development of smart and virtually enabled State-of-the-Art Training Infrastructure at Chandrapura Thermal Power Station (CTPS) of Damodar Valley Corporation.
4.	Tender Fee	Rs.6000.00 (Rupees Six Thousand only). The amount to be transferred online through e-tender portal.
5.	Earnest Money Deposit	Rs. 2,90,000.00 (Rupees Two Lakh Ninety Thousand only) The amount to be transferred online through e-Tender portal.
6.	Date of Downloading/Sale of Tender document	16/09/2025
7.	Pre-Bid Meeting date & time	23/09/2025 at 12PM (On-Line Meeting) <ul style="list-style-type: none">• Pre-Bid meeting will be organized on online platform only.• Only queries as per format (Section - M) reaching WTL by 22/09/2025 at 3 PM will be taken for decision.• Interest bidders are requested to send mail to purchase@wtl.co.in for participation of online pre-bid meeting. Based on request WTL will share meeting id / links for meeting. If there is any change in date and time, then will inform.• Queries will be sent to Purchase Department (purchase@wtl.co.in)
8.	Bid Submission Start date & time	09/10/2025 at 14:00 hours
9.	Last date & time of EMD & Tender Fee submission intimation.	Before Uploading of Tender
10.	Last date & time of Bid Submission	14/10/2025 at 12:00 hours
11.	Date & time of Technical Bid Opening	16/10/2025 at 12:00 hours
12.	WTL Address	WEBEL TECHNOLOGY LIMITED (A Govt. of West Bengal Undertaking) Plot - 5, Block – BP, Sector – V, Salt Lake City, Kolkata – 700091.
13.	Contact person	033-23673403-06

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1. Intending bidder may download the tender documents from the website <https://wbtenders.gov.in> directly with the help of Digital Signature Certificate. Necessary Tender fee may be remitted online through e-tender portal in favour of “Webel Technology Limited” and also to be documented through e-filing. Necessary Earnest Money Deposit (EMD) may be remitted online through e-tender portal in favour of “Webel Technology Limited” and also to be documented through e-filing.
2. Both Techno Commercial Bid and Financial Bid are to be submitted concurrently duly digitally signed in the website <https://wbtenders.gov.in>.
3. Tender documents may be downloaded from website and submission of Techno Commercial Bid and Financial Bid will be done as per Time Schedule stated in Section – C of this Tender Document.
4. The Financial Bid of the prospective Bidder will be considered only if the Techno Commercial Bid of the bidder is found qualified by the Tender Committee. The decision of the ‘Tender Committee’ will be final and absolute in this respect. The list of Qualified Bidders will be displayed in the website.
5. All clarifications / corrigenda will be published only on the <https://wbtenders.gov.in>.

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SECTION – A

PROJECT BACKGROUND

Background & Objective of the Project

In large-scale, multi-location organizations such as Damodar Valley Corporation (DVC), an efficient and timely skill development program is very essential for creating a pool of quality human resources. Presently, training sessions are organized but they are not being done in a modern facility, using the digital advantage and better ways of knowledge sharing.

With increasing operational complexity and the need for better and highly skilled human resources, especially in headquarters and plant environments, the limited availability of skilled manpower has become a significant limitation.

This project has been conceived to address these challenges by implementing distributed Training Centers. These training rooms will perform in two ways:

1. Interactive Smart Class, and
2. Virtual Class (Online Class)

The primary purpose of this project is to establish Training Center at Chandrapura Thermal Power Station (CTPS) that enables DVC effectively train their human resources in the Plant. This will be accomplished by developing a Smart and Virtually Enabled State of the Art Training Rooms which will help to up skill the human resources of DVC.

The objective of this project is to design, implement, and operationalize high-end training halls for DVC that ensures reliable, real-time and best in class training facilities at headquarters and the plant locations. The specific goals of the project include:

- **Enhance Trainee Engagement and Participation:**
 - To increase active participation and collaboration among trainees in classroom activities.
 - To make learning more interactive and enjoyable, thereby reducing boredom and increasing attentiveness.
 - To cater to diverse learning styles through multimedia content and interactive tools.
- **Improve Teaching Effectiveness and Efficiency:**
 - To empower trainers with advanced tools for content delivery, presentation, and assessment.
 - To enable real-time feedback and assessment, allowing trainers to quickly identify learning gaps and adjust their training methods.
- **Improve Learning Outcomes:**
 - To create a more conducive and stimulating learning environment that leads to better comprehension and retention of concepts.
- **Optimize Classroom Management and Administration:**
 - To simplify trainees tracking, assignment submission, and grading processes through integrated digital systems.
 - To enable easier communication between trainers and trainees.
- **Promote Sustainable and Eco-friendly Practices:**
 - To reduce reliance on paper-based materials, contributing to environmental sustainability.

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SECTION – B

SCOPE OF WORK

In the Chandrapura Thermal Power Plant of DVC a 40 seater class room needs to be created with large format interactive panel, best in class audio system, tracking cameras, a dais with a podium, proper air conditioning and lighting, CCTV, relaxed seating, acoustic environment with proper ceiling and wooden flooring for best acoustic effect, dry pantry and ladies and gents wash rooms. This also has a small lounge outside the training hall with some seating and a digital signage.

I. Key Components

- i. Civil Work
 - a. Toilet and Pantry
 - b. Waterproofing of the toilet area
 - c. Tiles laying
 - d. Wooden Flooring
 - e. Partition and panelling
 - f. Full Height Acoustical Partition
 - g. UPVC Windows
 - h. Skirting
 - i. False Ceiling
 - j. Wall Panelling
 - k. Wall Finish
 - l. Painting
- ii. Carpentry
 - a. Main Door
 - b. Toilet Door
 - c. Toilet Partition & Door
 - d. Table for the Trainers
 - e. Table for the Trainees
 - f. Chair for the Trainers
 - g. Chair for the Trainees
- iii. Air Conditioning
 - a. Ceiling mount Air conditioners
- iv. Electricals
 - a. Electrical cabling
 - b. Lights
- v. Electronics
 - a. Interactive panel
 - b. OPS
 - c. Large Format Display
 - d. Digital Podium
 - e. Auto tracking Camera
 - f. PTZ Camera
 - g. Ceiling Mount Kit for Camera
 - h. Ceiling mount Microphone
 - i. Handheld microphones and Lapels
 - j. Ceiling Mount Speakers
 - k. Tablet for controlling all Electronics
 - l. High End PC including antivirus
 - m. 4 MP Dome camera
 - n. 8 port NVR
 - o. Networking
 - p. Digital signage

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II. DELIVERABLES

The following deliverables need to be provided as part of the project implementation for Training Room at Chandrapura Thermal Power plant site:

a. Components To Be Delivered During Implementation

- Civil: Redoing the entire space allocated for this purpose, which includes:
 - False ceiling
 - Wooden flooring
 - Wash rooms
 - Dry Pantry
 - Windows
- Doors and Partition:
 - Main Door
 - Washroom and Pantry doors
 - Hall Partition
 - Washroom partitions
- Electrical: Providing electrical connections for all equipments placed in the training room, pantry, washrooms and the lounge.
- AV Equipments: All AV equipment that is required to conduct the classes
- Seating arrangements (Table & Chairs) for the Trainers and the Trainees
- Air-conditioning
- CCTV
- Networking

b. Installation & Configuration

- Installation and Commissioning of TV panels
- Installation and Commissioning of sound systems
- Installation and Configuration of CCTVs
- Hardware Integration
- Software Integration

c. Documentation & Training

- User and Technical Manuals – For system operation and troubleshooting.
- Onsite Training Sessions – For designated DVC personnel on operating the system.

d. Implementation and Post Implementation Support

- Testing and Handover – Complete functional testing of all components.
- Support – Initial support for stabilization and issue resolution post-deployment for 6 months.

III. Resources to be Deployed

a. Hardware Resources

- Audio Visual equipment
- Speakers
- Fixed and handheld microphones
- Televisions
- CCTVS
- Seating arrangements
- Digital Podium
- Computer
- Tablet for centralised command and control
- Air conditioning
- Networking

b. Installation & Logistics

- Transportation and delivery of all BoQ materials to plant locations

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- Tools and equipment for mounting and network setup

c. Software & Licenses

- Required software licenses (as applicable)

d. Technical Team

- Civil Engineers and support staff
- Network engineers for installation and configuration
- Onsite support technicians
- Project manager for overall coordination

Contractor shall be responsible for providing end to end project management for implementation and support of the entire project along with all components and sub-components. Contractor shall deploy team of experts for project management and delivery.

The Project Manager shall be the single point of contact and shall assume overall responsibility of the Project to ensure end to end working of the Project. The Project manager shall function as the primary channel of communication for all Client requirements to the implementation team. In case of any absence of the project manager (vacation or sickness), Contractor shall ensure that an alternate project manager (of similar or better qualification) is present on site during the absence period of the proposed Project Manager.

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SECTION – C

DATE AND TIME SCHEDULE

Sl. No.	Particulars	Date & Time
1	Date of uploading of N.I.T. & other Documents (online) (Publishing Date)	16/09/2025
2	Documents download/sale start date (Online)	16/09/2025
3	Last Date and time of sending the queries (Offline)	22/09/2025 3PM
4	Pre-Bid Meeting (Online)	23/09/2025 12PM
5	Corrigendum, if any will be published (Online)	-
6	Bid Submission start date & time (Online)	09/10/2025 2PM
7	Last Date & time of submission of Earnest Money Deposit & submission of remittance details	Before Uploading of Tender
8	Last Date & time of submission of Tender Fee & submission of remittance details	Before Uploading of Tender
9	Bid Submission closing date & time (Online)	14/10/2025 12PM
10	Bid opening date & time for Technical Proposals (Online)	16/10/2025 12PM
11	Date of uploading the final list of Technically Qualified Bidder (online) after disposal of appeals, if any	-
12	Date for opening of Financial Bid (Online)	-

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SECTION – D

ELIGIBILITY CRITERIA

Bidder's Eligibility Criteria

1. The bidder must be a company registered under Companies Act, 1956/2013 or Partnership or LLP or OPC or Proprietary Firm. Documentary (Certificate of incorporation/Relevant document) evidence to be submitted.
2. The bidder must be a System Integrator in the IT/ITES sector. Relevant document to be submitted.
3. The bidder should have been operating for the last 5 years in India. Copy of Certificate of Incorporation and/ or Certificate of Commencement of Business issued by the Registrar of Companies/ Partnership Registration/ sole proprietorship registration under the Shops & Establishments Act to be submitted/other relevant document. has to be submitted as supporting document.
4. The bidder must have their Registered/ Branch office in West Bengal. Valid trade license and local GST Registration Certificate are to be submitted
5. The bidder should have a valid GST Registration Certificate & PAN. Bidder shall have to submit a photocopy of the documents.
6. Bidders/OEM should have their own local call center number (Undertaking letter should be submitted from the bidders) OEM Call Centre number will not be treated as bidder's call center number. Call Center details for bidder with number & details to be submitted. Bidders shall have to submit the Complain/Call escalation matrix in their own letterhead with undertaking.
7. Bidder/OEM should have authorized service center/replacement centers in India. Service Center details to be submitted duly signed by the authorized signatory of the company.
8. The bidder shall have executed single order of amount Rs. 1.15 Crore of "Similar Nature" (i.e. Smart class / Audio Visual Solution / Conference system) within last 07 (Seven) financial years (considering FY – 2018-19, 2019-20, 2020-21, 2021-22, 2022-23, 2023-24, 2024-25) in Central/State Government/PSU/Autonomous Body. References order copy with the completion certificate for the project to be provided.

OR

The bidder shall have executed two orders of amount Rs. 70 Lakhs in aggregate of "Similar Nature" (i.e. Smart class / Audio Visual Solution / Conference system) within last 07 (Seven) financial years (considering FY – 2018-19, 2019-20, 2020-21, 2021-22, 2022-23, 2023-24, 2024-25) in Central/State Government/PSU/Autonomous Body. References order copy with the completion certificate for the projects to be provided

OR

The bidder shall have executed three orders of amount Rs. 56 Lakhs in aggregate of "Similar Nature" (i.e. Smart class / Audio Visual Solution / Conference system) within last 07 (Seven) financial years (considering FY – 2018-19, 2019-20, 2020-21, 2021-22, 2022-23, 2023-24, 2024-25) in Central/State Government/PSU/Autonomous Body. References order copy with the completion certificate for the projects to be provided

9. The bidder should have a minimum average annual turnover of Rs. 2.25 Crore in the last three financial years (2021-22, 2022-23, 2023-24). Bidders shall have to submit an Audited Balance Sheet / Audited Accounts / Auditor Certificate in support of their claim.
10. Bidders should have Positive net worth for the last three financial years (2021-22, 2022-23, 2023-24).

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Bidders shall have to submit an Audited Balance Sheet / Audited Accounts / Auditor Certificate in support of their claim.

11. The bidder should have ISO certification of ISO 9001:2015. Certificate to be submitted.
12. The bidder must submit the Manufacturers Authentication Form (as per SECTION S) for Interactive Panel, OPS, Large Format Display, Digital Podium, Auto Tracking & PTZ Camera, Microphone, Speaker, Amplifier, DSP, Desktop, CCTV & Accessories, Switch, Access Point, LAN Passive items, Table, Chair, etc as per prescribed format enclosed.
13. Technical Compliance statements to be submitted for Table, Chair, Interactive Panel, OPS, Large Format Display, Digital Podium, Auto Tracking & PTZ Camera, Microphone, Speaker, Amplifier, DSP, Desktop, CCTV & Accessories, Switch, Access Point, LAN Passive items . Without these documents from the OEMs, the offer will be treated as non-responsive and summarily rejected.
14. The bidder shall submit Bid Form (Section – E) duly signed by the authorized signatory of the company as per the format enclosed. Deviation in format may not be accepted.
15. Bidder shall submit NIT Declaration (Section – O) duly signed by the authorized signatory of the company as per the format. Deviation in format may not be accepted.
16. The bidder shall not have been blacklisted by any State/Central Government or PSU Organization or bilateral/multilateral funding agencies for breach of ethical conduct or fraudulent practices as on date of submission of the proposal (as per DIT guidance note issued on 26-Dec-2011). Declaration on bidder's letter head to be submitted.

OEM's Eligibility Criteria

OEM Criteria for Chair:

Sr #	Eligibility Criteria
1.	The product should have Greengard (by UL)
2.	The product should have Indoor Advantage Gold,
3.	The product should have BIFMA Level-2 and Greenpro Certification
4.	The manufacturer should have ISO 9001:2015, ISO 50001:2018, ISO 45001:2018, ISO 14001:2015 (All ISO certificate must be from NABCB/IAF recognized accreditation body),
5.	The manufacturer should have IGBC Platinum & AIOTA certification

OEM Criteria for Table:

Sr #	Eligibility Criteria
1.	The product should have Certification from Indian Green Building Council,
2.	The product should have Greenguard (by UL),
3.	The manufacturer should have ISO 9001:2015,

OEM Criteria for Digital Podium, PTZ Camera, Amplifier, DSP:

Sr #	Eligibility Criteria
1.	Bidders should have back to back tie up with OEM's to provide Hardware & Software support. The bidder needs to produce a letter from the respective OEM in this respect for major components of the solution (Digital Podium,PTZ Camera, Amplifier, DSP.)
2.	The Manufacturer should be in the business in India for more than 3 years as on 31-03-2025. This should be supported by the certificate of registration issued under the companies act by a competent authority.
3.	The Manufacturer for Technical Evaluation should submit catalogue, datasheet and other supporting documents with complete technical details of the proposed solution. The respective features and specification should be publicly available on websites having videos/documents for

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	verification. The bid evaluation committee if required may invite the bidders for live demonstration to verify the proposed specifications /features. Bids failing to fulfill technical evaluation and not able to showcase the features will be technically rejected
4.	There should be no complaint against the Manufacturer for poor performance of the equipment supplied.
5.	The bidder should undertake to provide after sale-service whenever needed by the purchaser

OEM Criteria for Interactive Panel, Large Format Display, Display, OPS, and Display Software:

Sr #	Eligibility Criteria
1.	OEM must have presence in India for more than 15 years (Certificate of Incorporation required).
2.	The OEM must have a minimum Annual Turnover of Rupees 5000 Crores (each year) during last three financial years in India.
3.	The OEM must have a factory in India (valid factory license Copy required).
4.	OEM must have registered office in the State for last 10 years (GST and Trade License Copy required).
5.	OEM should have at least one direct Service Centre in state and also have franchisee service centers network all cross the state
6.	OEM must have ISO 9001:2015, ISO 14001:2015 and BS OHSAS 18001:2007 / ISO45001:2018 certifications

OEM Criteria for Passive items:

Sr #	Eligibility Criteria
1	Passive OEM offers must be in steady profitable business in India for more than at-least 15 years.
2	OEM should have members participating in the Telecommunications Industry Association (TIA) committee. Membership shall be available for validation at www.tiaonline.org
3	OEM shall have RCDD certified technical staff based out of India.
4	OEM must have ISO 9001:2015 certified manufacturing unit in India, functioning for min. 15 years.
5	The Cat6A SCS must be tested by an accredited 3rd Party test facility to the following standards: - ANSI/TIA 568-C.2: Category 6A Channel – 4 connector 3rd Party verification for both 100m Long channel & Short Channel (15m) testing must be provided as part of the bid response. Copies of test reports should be appended to this RFP.
7	All offered components must be ROHS compliant. ROHS compliance shall be mentioned in datasheets.
8	All Passive items should have single OEM.
9	OEM authorization specific to this tender

OEM Criteria for CCTV and Accessories:

Sr #	Eligibility Criteria
1	The OEM must have its own in-house, government-registered R&D facility in India, and should not outsource any development, design or research activities, and submit the undertaking on OEM Letterhead. Also, R&D registration certificates issued by a government body must be attached as proof. R&D should be ISO 9001, 27001 and 20000 Certified.
2	The MAC addresses of Cameras and NVRs must be genuine, registered in the name of the OEM manufacturing the Cameras, and should originate from India.
3	The OEM of the CCTV camera must have more than 250 employees on its payroll in India. Any OEM which is a part of a larger group company but meeting the 250 employee criterion in India is also eligible. This is to justify that CCTV OEM has made investment in India and is serious about its business in India which will ensure long term after sales support and spare support from the OEM. Respective document/ certificate to be provided along with the bid.
4	OEMs should have existing capability and infrastructure to provide technical support as well as their own factory in India.
5	OEM company for Camera & NVR should have its own company registered in India since last 10 years. Any representation through a Dealer/ Distributor/ Joint Venture/ Subsidiary/ consortium shall not be treated as OEM. This has to be supported by necessary statutory documents.OEM should be a

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Sr #	Eligibility Criteria
	registered business entity in India with their own office in India. Submit Certificate of Incorporation under the provisions of companies Act, 1956.
6	CCTV Camera should support ONVIF (Profile S, G, T) Model should be listed on the ONVIF website or ONVIF Report should be submitted.
7	The CCTV OEM should have below ISO Certifications for Quality, Environment, Security management and Health & Safety Management system for manufacturing of all types of Cameras & NVR. All the CCTV Components (Camera, NVR, etc.) should be from the same OEM for seamless integration and ease of operation. The Bidders shall attach the copy of the OEM's ISO Certificate along with the bid ISO 9001:2015, ISO 14001:2015, ISO 27001:2013, ISO 20000:2018 and ISO 45001:2018, CMMI Level 3 or above certification
8	The Intellectual Property Rights (IPR) of all manufactured final product and source code of all software including firmware should not reside in countries sharing land borders with India, unless specifically allowed by the Government of India and is registered with the Competent Authority of Government of India. Proof of IPR & source code residing in which country and requisite permission & registration with Competent Authority of Govt. of India, as applicable to comply with the above, shall be provided by the OEMs.

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SECTION – E

INSTRUCTIONS TO BIDDER

1. DEFINITIONS

In this document, the following terms shall have following respective meanings:

“Agreement” means the Agreement to be signed between the successful bidder and WTL including all attachments, appendices, all documents incorporated by reference thereto together with any subsequent modifications, the RFP, the bid offer, the acceptance and all related correspondences, clarifications, presentations.

“Acceptance Test Document” means a document, which defines procedures for testing the functioning of installed system. The document will be finalized with the contractor within 7 days of issuance of the Letter of Award.

“Bidder” means any firm offering the solution(s), service(s) and /or materials required in the RFP. The word Bidder when used in the pre award period shall be synonymous with Bidder, and when used after award of the Contract shall mean the successful Bidder.

“Contract” is used synonymously with Agreement.

“Contract Price” means the price to be paid to the Contractor for providing the Solution, in accordance with the payment terms.

“Contractor” means the Bidder whose bid to perform the Contract has been accepted by Tender Committee and is named as such in the Letter of Award.

“Default Notice” mean the written notice of Default of the Agreement issued by one Party to the other.

“Installation” means installation of supplied Hardware & Software.

“Fraudulent Practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a Contract and includes collusive practice among Bidders (prior to or after Bid submission) designed to establish Bid prices at artificial noncompetitive levels and to deprive WTL and eventually Departments of Gov. of W. Bengal of the benefits of free and open competition.

“GoI” shall stand for the Government of India.

“GoWB” means Government of West Bengal.

“Personnel” means persons hired by the Bidder as employees and assigned to the performance of the Solution or any part thereof.

“Similar Nature of Work” means Works entailing completion of a project in the field i.e. Development of Smart class / Audio Visual Solution / Conference system Room for in any Central/State Government/PSU/Autonomous Body.

“Project” means Development of smart and virtually enabled State-of-the-Art Training Infrastructure at Chandrapura Thermal Power Station (CTPS) of Damodar Valley Corporation.

“Services” means the work to be performed by the Bidder pursuant to this Contract, as described in the detailed Scope of Work.

“Interest rate” means “364 days Government of India (GoI) Treasury Bills” rate.

“Law” shall mean any Act, notification, bye law, rules and regulations, directive, ordinance, order or instruction having the force of law enacted or issued by the Central Government and/or the

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Government of West Bengal or any other Government or regulatory authority or political subdivision of government agency.

“**LOI**” means issuing of Letter of Intent shall constitute the intention of the WTL to place the Purchase Order with the successful bidder.

“**Requirements**” shall mean and include schedules, details, description, statement of technical data, performance characteristics, standards (Indian as well as International) as applicable and specified in the Contract.

“**Service**” means provision of Contracted service viz., operation, maintenance and associated services for DEPLOYED SYSTEMS as per Section titled “Scope of Work”.

“**Termination Notice**” means the written notice of termination of the Agreement issued by WTL.

“**Uptime**” means the time period when specified services are available with specified technical and service standards as mentioned in section titled “WARRANTY SUPPORT” “%**Uptime**” means ratio of 'up time' (in minutes) as mentioned in section titled “Warranty support”.

“**Service Down Time**” (SDT) means the time period when specified services with specified technical and operational requirements as mentioned in section titled “WARRANTY SUPPORT” are not available to Gov. of W. Bengal and its user departments and organizations.

“**WTL**” means Webel Technology Limited a Govt. of West Bengal undertaking.

2. **PRE BID MEETING**

Pre Bid Meeting will be held on 23/09/2025 12pm (Online Meeting). Bidder can send their queries as per format (Section - M) to Purchase Department (purchase@wtl.co.in). Only the queries received within the stipulated date prior to the Pre Bid Meeting will be answered. Interest bidders are requested to send mail to (purchase@wtl.co.in) for participation of online pre-bid meeting. Based on request WTL will share meeting id / links for meeting. If there is any change in date and time then will inform.

3. **COST OF BIDDING**

The bidder shall bear all costs associated with the preparation and submission of the bid and WTL will no case be responsible for those costs regardless of the conduct or outcome of the bidding process.

4. **BID DOCUMENT**

Bidder is expected to examine all instructions, forms, terms and requirement in the bid document. The invitation to bid together with all its attachment thereto shall be considered to be read, understood and accepted by the bidder unless deviations are specifically stated in the seriatim by the bidder. Failure to furnish all information required by the bid document or a bid not substantially responsive to the bid document in every respect may result of the bid.

5. **AMENDMENT OF BID DOCUMENT**

At any time prior to the deadline for submission of proposals, WTL reserves the right to add/modify/delete any portion of this document by issuance of a Corrigendum, which would be published on the website and will also be made available to the all the Bidder who have been issued the tender document. The Corrigendum shall be binding on all bidders and will form part of the bid documents.

6. **MODIFICATION AND WITHDRAWAL OF BIDS**

The bidder cannot modify or withdraw its bid after submission.

7. **LANGUAGE OF BID & CORRESPONDENCE**

The proposal will be prepared by the Bidder in English language only. All the documents relating to the proposal (including brochures) supplied by the firm should also be in English, and the correspondence between the Bidder & WTL will be in English language only. The correspondence by fax/E-mail must be subsequently confirmed by a duly signed formal copy.

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8. BIDDER'S SOLUTION

The bidders are requested to study the Bill of Material supplied with this document carefully. While working out the solution the bidder has to work with the broad minimum specification provided in the tender documents, conforming to the model, make and Part number (wherever provided). While submitting the bid the bidder has to detail out all components needed to complete the system BOM. The bidder is required quote for each item retaining all major components/sub system detailed and specified. As the contractor will be responsible for smooth functioning of the system, availability of spares during the tenure of the warranty period have to be taken care of by the contractor to maintain the guaranteed uptime.

9. EARNEST MONEY DEPOSIT (EMD)& TENDER FEE

The bidder shall furnish Online Receipt against payment of Tender Fees and Earnest Money Deposit.

10. REFUND OF EMD

EMD will be refunded to the unsuccessful bidders without interest by following guidelines of circular 3975-F(Y) dated 28/07/2016 on final selection of Successful Bidders.

11. FORFEITURE OF EMD

EMD made by Bidder may be forfeited under the following conditions:

If Bidder withdraws the proposal before the expiry of validity period.

During the evaluation process, if a Bidder indulges in any such activity as would jeopardize the process, the decision of WTL regarding forfeiture of EMD shall be final and shall not be called upon question under any circumstances.

If Bidder violates any of the provisions of the terms and conditions of the proposal.

In the case of a successful Bidder, if Bidder fails to:

- a) Accept the work order along with the terms and conditions.
- b) Furnish performance security.
- c) Violates any of the work conditions of this proposal or indulges in any such activities as would jeopardize the work.
- d) Submitting false/misleading information/declaration/documents/proof/etc.

The decision of WTL regarding forfeiture of EMD shall be final and shall not be called upon to question under any circumstances, besides, forfeiture of EMD even the Bidder will be deferred from participating in any job for a period of one year.

12. FORMS AND FORMATS

The various inputs for the Techno Commercial as Financial Bids are to be submitted in the format specified. The bidder shall use the form, wherever specified, to provide relevant information. If form does not provide space for any required information, space at the end of the form or additional sheets shall be used to convey the said information. For all other cases, the bidder shall design a form to hold the required information.

13. LACK OF INFORMATION TO BIDDER

The bidder shall be deemed to have carefully examined the Bid document to his entire satisfaction. Any lack of information shall not relieve the bidder of his responsibility to fulfill his obligation under the bid. If bidder has any queries relating to bid document, then he can send the queries before the Pre Bid Meeting.

14. CONTRACT EXECUTION

On receipt of the Letter of Award the contractor should submit a Performance Bank Guarantee (PBG) equivalent to 5% of the total contract value within three weeks from the date of receipt of Letter of Award/Order. The PBG should be valid for six month more than the warranty period. All delivery of the material will have to be completed within 60 days from the date of acceptance of contract. Subsequent to the award of contract, the contractor will have to arrange for the requisite material as per BOM.

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15. TIME SCHEDULE FOR DELIVERY & INSTALLATION

Overall Project Implementation Timeline will be as follows

Activity	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	W16	W17
Project Kickoff, Site Readiness Check, Finalization of BoQ & Locations																	
Delivery of Hardware to the respective Locations after site preparation is complete																	
Site preparation - Civil work																	
Site preparation - False Ceiling																	
Site preparation - necessary plumbing for washrooms and kitchen																	
Site preparation - Electrical and AC base work																	
Site preparation - Tiles and other masonry work																	
Site preparation - Fixing doors, partitions and windows																	
Site preparation - Fixing sanitary and other equipments in washrooms and kitchen																	
Site preparation - painting																	
Site preparation - Dias and wooden flooring																	
Site preparation - Tables & Chairs																	
Site preparation - Final Electrical and lights																	
Site preparation - Airconditioners																	
Installation of all hardware and configuration																	
Testing, tweaking and syncing all gadgets																	
User Training, Documentation Handover, and Final Review																	

16. LOCATION FOR DELIVERY & INSTALLATION

Chandrapura Thermal Power Station (CTPS) of DVC, Chandrapura, Jharkhand

17. LIQUIDATED DAMAGE

Liquidated Damage Clause will be back to back between DVC to WTL and WTL to Contractor.

The proposed LD clause is as follows, which can be changed during the time of final contract award:

- I. 0.5% of the total bill value for every 10 working days delay caused exclusively because of the contractor in meeting the delivery schedule
- II. The maximum deductible is capped at 5% of the total of the total contract value (excluding all taxes & duties and other charges).
- iii. In the event of LD exceeds 5% of the order value, WTL reserves the right to terminate the contract and WTL will get the job completed by any other competent party. The difference of cost incurred by WTL will be recovered from the contractor and PBG will be invoked.

18. LIABILITY

In case of a default on bidder's part or other liability, WTL shall be entitled to recover damages from the Contractor. In each such instance, regardless of the basis on which WTL is entitled to claim damages from the Contractor (including fundamental breach, negligence, misrepresentation, or other contract or tort claim), Contractor shall be liable for no more than:

- Payment referred to in the Patents and Copyrights clause.
- Liability for bodily injury (including death) or damage to real property and tangible personal property limited to that cause by the Contractor's negligence.
- As to any other actual damage arising in any situation involving nonperformance by Contractor pursuant to or in any way related to the subject of this Agreement, the charge paid by WTL for the individual product or Service that is the subject of the Claim. However, the contractor shall not be liable for
 - For any indirect, consequential loss or damage, lost profits, third party loss or damage to property or loss of or damage to data.
 - For any direct loss or damage that exceeds the total payment for Contract Price made or expected to be made to the Contractor hereunder.

19. PATENTS & COPYRIGHT

If a third party claims that a product delivered by the Contractor to WTL infringes that party's patent or copyright, the Contractor shall defend WTL against that claim at Contractor's expense and pay all costs, damages, and attorney's fees that a court finally awards or that are included in a settlement approved by the Contractor, provided that WTL.

- Promptly notifies Contractor in writing of the claim
- Allows Contractor to control and co-operate with Contractor in the defense and any related settlement negotiations.

Remedies: If such a claim is made or appears likely to be made, WTL would permit Contractor to

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enable WTL to continue to use the product, or to modify it, or replace it with one that is at least functionally equivalent. If Contractor determines that none of these alternatives is reasonably available, WTL agrees to return the product to Contractor on Contractor's written request. Contractor will then give WTL a credit equal to for a machine. WTL's net book value (provided WTL has followed generally accepted accounting principles for a generally available software product produced by Contractor (Program) the amount paid by WTL or 12 months charges (whichever is lesser) and for materials the amount paid by WTL for the materials. These will be Contractor's entire obligation regarding any claim of infringement.

20. SUSPENSION OF WORK

WTL shall have the power at any time and from time to time by notice to the Contractor to delay or suspend the progress of the work or any part of the work due to any other adequate reasons and on receipt of such notice the contractor shall forthwith suspend further progress of the work until further notice from WTL. The Contractor shall recommence work immediately after receiving a notice to do so from WTL. The whole or any part of the time lost for such delay or suspension shall, if WTL in its absolute discretion thinks fit, but not otherwise, be added to the time allowed for completion.

21. TERMS OF PAYMENT

Payment terms will be on back-to-back basis, i.e., payment terms will follow the terms agreed with Customer and payment to Contractor will be made only on receipt of payment from customer. A tentative payment term is as depicted below:

- 10% as Mobilization Advance along with work order
- 70% on partial delivery of items as per project timeline
- 20% on Installation & Commissioning (Go-Live).

22. GOVERNING LAWS

This contract should be governed by and interpreted by Arbitration clause in accordance with Laws in force in India. The courts at Kolkata shall have exclusive jurisdiction in all matters arising under the contract. The selected vendor shall keep himself fully informed of all current national, state and municipal law and ordinances. The selected vendor shall at their own expense, obtain all necessary permits and license and pay all fees and taxes required by law. These will be selected vendor's entire obligation regarding any claim of infringement. The selected vendor hereto agrees that it shall comply with all applicable union, state and local laws, ordinances, regulations and codes in performing its obligations hereunder, including the procurement of licenses, permits certificates and payment of taxes where required. The selected vendor shall establish and maintain all proper records (particularly, but without limitation, accounting records) required by any law, code/practice of corporate policy applicable to it from time to time including records and returns as applicable under labor legislation.

23. CORRUPT OR FRAUDULENT PRACTICES

The Tender Committee requires that the bidders under this Tender observe the highest standards of ethics during the procurement and execution of such contracts. For this purpose, the definition of corrupt and fraudulent practices will follow the provisions of the relevant laws in force. The Tender Committee will reject a proposal for award if it detects that the bidder has engaged in corrupt or fraudulent practices in competing for the contract in question. The Tender Committee will declare a firm ineligible, either indefinitely or for a stated period of time, if it at any time determines that the firm has engaged in corrupt and fraudulent practices in competing for, or in executing, a contract.

24. BINDING CLAUSE

All decisions taken by the Tender Committee regarding the processing of this tender and award of contract shall be final and binding on all parties concerned. The Tender Committee reserves the right:

- To vary, modify, revise, amend or change any of the terms and conditions mentioned above and,
- To reject any or all the Tender/s without assigning any reason whatsoever thereof or to annul the bidding process and reject all bids at any time prior to award of contract, without thereby incurring any liability to the affected bidder(s) or any obligation to inform the affected bidder(s) of the grounds for such decision.

25. WORKMEN'S COMPENSATION

In every case in which by virtue of the provision of the workmen's compensation Act 1923 or any other

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relevant acts and rules, compensation to a workman employed by the contractor, is payable, then this should be done by the Contractor. If WTL is obliged to make any compensation under the said rules and acts, then the amount shall be recovered without prejudice, from the bills and due of the Contractor. WTL shall not be bound to contest any claim made against the Contractor in respect of workmen's compensation.

26. CONTRACTOR'S EMPLOYEES

The Contractor shall comply with the provision of all labour legislation including the requirement of the payment of Wage Act 1936 and the rules framed there under and modifications thereof in respect of men employed by him in carrying out the contract. The Contractor must ensure that he complies with PF, ESI regulation for all his deployed employees. The Contractor shall see that all authorized Sub Contractors under him similarly complied with the above requirement.

27. SAFETY MEASURES

The Contractor shall in the course of execution of the work take all necessary precaution for the protection of all persons and property. The Contractor shall take adequate measures to protect the work and prevent accident during the work. In the event of any accident to any person or persons or damage or injury of any description to any person or property due to failure on the part of the contractor in taking proper precautionary measures the contractor shall be responsible for and must make good the loss the damage at his own cost to the satisfaction of the department and employees of the department shall be indemnified from all claims or liabilities arising there from or any expenses incurred on account thereof.

28. EQUIPMENT

All tools & tackles necessary for the work shall have to be procured by the contractor unless otherwise specified elsewhere in these tender documents. The equipment used by the contractor for a particular work must be appropriate for the type of work. The contractor shall maintain the equipment used on the work properly so that they are in good working condition. In no case shall the contractor use defective or imperfect equipment in the work. The contractor shall arrange to replace or repair all defective equipment so that the progress of the work is not hampered. No defective equipment should be left at the site of work and the department shall not be responsible for any loss or damage to any of these equipments during the course of the execution of the work.

29. SUB-CONTRACT

The purchaser (WTL) does not recognize the existence of Sub-Contractors. The Contractor's responsibility is not transferable. No consortium partner is allowed.

30. TERMINATION FOR DEFAULT

WTL may without prejudice to any other remedy or right of claim for breach of contract by giving not less than 30 days written notice of default sent to the contractor, terminate the order in whole or in part. If the contractor materially fails to render any or all the services within the time period specified in the contract or any extension thereof granted by WTL in writing and fails to remedy its failure within a period of thirty days after receipt of default notice from WTL. If the project (delivery, commissioning as well as warranty maintenance support is not carried out according to specification due to deficiency in service as per terms of the contract. In such case WTL will invoke the amount held back from the contractor as PBG.

31. BANKRUPTCY

If the contractor becomes bankrupt or have a receiving order made against him or compound with his creditors or being a corporation commence to be wound up, not being a voluntary winding up for the purpose only or amalgamation or reconstruction, or carry on their business under a receiver for the benefit of their creditors or any of them, WTL shall be at liberty to terminate the engagement forthwith without any notice in writing to the contractor or to the liquidator or receiver or to any person in whom the contractor may become vested and without any compensation to give such liquidator or receiver or other person the option of carrying out the engagement subject to their providing a guarantee for the due and faithful performance of the engagement up to an amount to be determined by WTL.

32. FORCE MAJEURE

It is hereby defined as any cause, which is beyond the control of the Contractor or WTL as the case may be, which such party could not foresee or with a reasonable amount of diligence could not have

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foreseen and which substantially affect the performance of the contract, such as

- War, Hostilities or warlike operations (whether a state of war be declared or not), invasion, act of foreign enemy and civil war.
- Rebellion, revolution, insurrection, mutiny, usurpation of civil or military, government, conspiracy, riot, civil commotion and terrorist area.
- Confiscation, nationalization, mobilization, commandeering or requisition by or under the order of any government or de facto authority or ruler, or any other act or failure to act of any local state or national government authority.
- Strike, sabotage, lockout, embargo, import restriction, port congestion, lack of usual means of public transportation and communication, industrial dispute, shipwreck, shortage of power supply epidemics, quarantine and plague.
- Earthquake, landslide, volcanic activity, fire flood or inundation, tidal wave, typhoon or cyclone, hurricane, nuclear and pressure waves or other natural or physical disaster.

If either party is prevented, hindered or delayed from or in performing any of its obligations under the Contract by an event of Force Majeure, then it shall notify the other in writing of the occurrence of such event and the circumstances of the event of Force Majeure within fourteen days after the occurrence of such event. The party who has given such notice shall be excused from the performance or punctual performance of its obligations under the Contract for so long as the relevant event of Force Majeure continues and to the extent that such party's performance is prevented, hindered or delayed.

The party or parties affected by the event of Force Majeure shall use reasonable efforts to mitigate the effect of the event of Force Majeure upto its or their performance of the Contract and to fulfill its or their obligation under the Contract but without prejudice to either party's right to terminate the Contract.

No delay or nonperformance by either party to this Contract caused by the occurrence of any event of Force Majeure shall.

- Constitute a default or breach of the contract.
- Give rise to any claim fro damages or additional cost or expense occurred by the delay or nonperformance. If, and to the extent, that such delay or nonperformance is caused by the occurrence of an event of Force Majeure.

33. INSURANCE COVERAGE

Appropriate insurance to cover all solution components for the transit period and until the time of its acceptance at the respective site is to be taken by the contractor. As the contractor will carry the risk for the material in his books during transit, the contractor should arrange insurance for the total system as period from the dispatch till Acceptance Test is successfully achieved. Further the contractor is to take all required insurance coverage in respect of all its personnel who shall be working on this engagement.

34. WARRANTY & MAINTENANCE

- For All hardware and accessories, Warranty of 12 Months after Implementation of the Solution (complete Operations and Maintenance tenure). This does not include natural calamities or man caused issues.
- During the warranty period no active component should be declared "End of Life". In case it is declared "End of Life" during this period, the vendor has to replace such equipment at their own cost. The rate should be quoted inclusive of warranty.
- One telephonic line (Non-Toll Free) under the Warranty & Technical Support scheme, should be available with a support window on DVC business days from 10:00 hrs to 18:00 hrs to resolve any technical issue about the device both during installation as well as service support. There shall be an email system as well, to handle, identify and resolve open tickets.
- In case of system failures: immediate telephonic support to ground DVC technicians as well site visit within 48 hours of call, if the need be.
- The obligation excluded from Warranty agreement.

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- Any type of upgrading of the application.
- Fire damage caused by non-manufacturing factors
- Damage caused due to uncontrollable forces of nature / Natural Disasters
- Damage caused by unauthorized modification, disassembly, or opening not in accordance with user manuals
- Damage caused by unauthorized modification of circuits and mismatch or misuse of the battery and charger.
- Warranty will not cover battery.
- Any type of upgrading of the device.
- Any major failure of due to an erratic power supply or faulty line condition.
- Repair of malfunction or damage due to failure due to use of non-standard electrical power, or parts.

35. PERFORMANCE BANK GUARANTEE (PBG)

As a guarantee for timely delivery, installation and commissioning of equipment, software and services as well as performance of on-site warranty support from the date of final acceptance of systems and pertaining to proper running of the systems, the bidder will have to submit 5% of the contract value as security in the form of Performance Bank Guarantee from any nationalized bank as per format enclosed (Section – O).

36. SI/BIDDER/CONTRACTOR'S RESPONSIBILITIES

Refer Section – A & B

37. NO WAIVER OF RIGHTS

Neither the inspection by WTL or any of their agents nor any order by WTL for payment of money or any payment for or acceptance of the whole or any part of the works by WTL, nor any extension of time, nor any possession taken by WTL shall operate as a waiver of any provision of the contract or of any power reserved to WTL, or any right to damages here in provided, nor shall any waiver of any breach in the contract be held to be a waiver of any other subsequent breach.

38. ENFORCEMENT OF TERMS

The failure of either party to enforce at any time any of the provision of this contract or any rights in respect thereto or to exercise any option here in provided shall in no way be construed to be a waiver to such provisions, rights or options or in any way to affect the validity of the contract. The exercise by either party of any of its rights herein shall not preclude or prejudice either party from exercising the same or any other right it may have hereunder.

39. PERIOD OF VALIDITY OF OFFER

For the purpose of placing the order, the proposals shall remain valid till 180 days. During the period of validity of proposals, the rates quoted shall not change. In exceptional circumstances, WTL may ask for extension of the period of validity and such a request shall be binding on Bidders. WTL's request and the response to such a request by various Bidders shall be in writing. A Bidder agreeing to such an extension will not be permitted to increase its rates.

40. TAXES & DUTIES

- The prices shall be inclusive of all taxes & levies including GST and other statutory duties as applicable. Rate of taxes should be indicated separately in the Price Bid.
- Contract Price specified in Price Bid should be based on the taxes & duties and charges prevailing at the date one day prior to the last date of Bid submission.
- Statutory deduction, wherever applicable, shall be made from invoice as per government rules. Necessary certificate will be issued for such deductions.
- Bidder submitting a bid shall produce valid statutory documents / certificates with respect to GST, Income Tax, ROC, Prof. Tax, Trade License, etc. All such documents / certificates shall remain valid on the last date of tender submission.
- In case of inter-state transaction, WTL will provide "Waybill". However, statutory charges, if any will be borne by the bidder.
- GST component of the invoice of the bidder may be kept on hold in case there is any mismatch / irregularity in GST return filling on the part of the bidder.

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41. DISCREPANCIES IN BID

- Discrepancy between description in words and figures, the rate which corresponds to the words quoted by the bidder shall be taken as correct.
- Discrepancy in the amount quoted by the bidder due to calculation mistake of the unit rate then the unit rate shall be regarded as firm.
- Discrepancy in totaling or carry forward in the amount quoted by the bidder shall be corrected.

42. BID DUE DATE

The tender shall be submitted not later than the due date and time specified in the Important Dates Sheet. WTL may as its discretion on giving reasonable notice by fax, or any other written communication to all prospective bidders who have been issued the bid documents, extend the bid due date, in which case all rights and obligations of the WTL and the bidders, previously subject to the bid due date, shall thereafter be subject to the new bid due date as extended.

43. LATE BID

Any proposal received after the deadline for submission of proposals may not be accepted.

44. OPENING OF BID BY WTL

Bids shall be opened and downloaded electronically through operation of the process in the e-Tender portal in presence of Tender Committee. Bidders interested to remain present during electronic bid opening may attend the bid opening session at WTL premises at scheduled date & time.

45. CONTACTING WTL

Bidder shall not approach WTL officers beyond office hours and/or outside WTL office premises from the time of the Bid opening to the time of finalization of successful bidder. Any effort by bidder to influence WTL office in the decision on Bid evaluation, Bid comparison or finalization may result in rejection of the Bidder's offer. If the bidder wishes to bring additional information to the notice of WTL, it should be in writing.

46. WTL'S RIGHT TO REJECT ANY OR ALL BIDS

WTL reserves the right to reject any bid and to annul the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected bidder(s) or any obligation to inform the affected bidder(s) of the grounds for such decision.

47. BID CURRENCIES

Prices shall be quoted in Indian Rupees, inclusive of all prevailing taxes, levies, duties, cess etc.

48. PRICE

- Price should be quoted in the BOQ format only. No deviation is acceptable.
- Price quoted should be firm, inclusive of packing, forwarding, insurance and freight charges.
- Percentage/specified amount of taxes & duties should be clearly mentioned otherwise WTL reserves the right to reject such vague offer.
- Price to be quoted inclusive of supply, installation & commissioning charges.

49. CANVASSING

Canvassing or support in any form for the acceptance of any tender is strictly prohibited. Any bidder doing so will render him liable to penalties, which may include removal of this name from the register of approved Contractors.

50. NON-TRANSFERABILITY OF TENDER

This tender document is not transferable.

51. FORMATS AND SIGNING OF BID

The original and all copies of the proposals shall be neatly typed and shall be signed by an authorized signatory(ies) on behalf of the Bidder. The authorization shall be provided by written Power of Attorney accompanying the proposal. All pages of the proposal, except for un-amended printed literature, shall be initialed by the person or persons signing the proposal. The proposal shall contain no interlineations, erase or overwriting. In order to correct errors made by the Bidder, all corrections

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shall be done & initialed with date by the authorized signatory after striking out the original words/figures completely.

52. WITHDRAWAL OF BID

Bid cannot be withdrawn during the interval between their submission and expiry of Bid's validity period. Fresh Bid may be called from eligible bidders for any additional item(s) of work not mentioned herein, if so required.

53. INTERPRETATION OF DOCUMENTS

If any bidder should find discrepancies or omission in the specifications or other tender documents, or if he should be in doubt as to the true meaning of any part thereof, he shall make a written request to the tender inviting authority for correction/clarification or interpretation or can put in a separate sheet along with his technical bid document.

54. SPLITTING OF THE CONTRACT AND CURTAILMENT OF WORK

WTL reserves the right to split up and distribute the work among the successful technically qualified bidders and to curtail any item of work in the schedule partly or fully based on scheme requirement. As it is a time constrained process, the work may be distributed as mentioned above at L1 rate arrived through the process.

55. PREPARATION OF TENDER

Tender shall be submitted in accordance with the following instructions:

1. Tenders shall be submitted in the prescribed forms. Digital signatures shall be used. Where there is conflict between the words and the figures, the words shall govern.
2. All notations must be in ink or type written. No erasing or overwriting will be permitted. Mistakes may be crossed out and corrections typed or written with ink adjacent thereto and must be initialed in ink by the person or persons signing the tender.
3. Tenders shall not contain any recapitulation of the work to be done. Alternative proposals will not be considered unless called for. No written, oral, telegraphic or telephonic proposals for modifications will be acceptable.
4. Tenders shall be uploaded as notified on or before the date and time set for the opening of tenders in the Notice Inviting Tenders.
5. Tenders subject to any conditions or stipulations imposed by the bidder are liable to be rejected.
6. Each and every page of the tender document must be signed with company seal by the bidder.

56. CLARIFICATION OF BIDS

During evaluation of the bids, the Customer/Tender Committee, at its discretion may ask the bidder for clarification of its bid. The request for the clarification and the response shall be in writing (fax/email) and no change in the substance of the bid shall seek offered or permitted.

57. COMPLIANCE WITH LAW

The contractor hereto agrees that it shall comply with all applicable union, state and local laws, ordinances, regulations and codes in performing its obligations hereunder, including the procurement of licenses, permits certificates and payment of taxes where required.

The contractor shall establish and maintain all proper records (particularly, but without limitation, accounting records) required by any law, code/practice of corporate policy applicable to it from time to time including records and returns as applicable under labor legislation.

58. ERASURES OR ALTERNATIONS

The offers with overwriting and erasures may make the tender liable for rejection if each of such overwriting/erasures/manuscript ions is not only signed by the authorized signatory of the bidder. There should be no hand-written material, corrections or alterations in the offer. Technical details must be completely filled up. Correct technical information of the product being offered must be filled in. Filling up of the information using terms such as "OK", "accepted", "noted", "as given in brochure/manual" is not acceptable. The Customer may treat offers not adhering to these guidelines as unacceptable. The Customer may, at its discretion, waive any minor non-conformity or any minor irregularity in the offer. This shall be binding on all bidders and the Tender Committee reserves the right for such waivers.

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59. FINAL INSPECTION

Final inspection may be carried by the authorized representative from WTL.

60. PRE-DISPATCH INSTRUCTION

All materials / equipment's supplied against the purchase order may be subjected to Inspection, check and /or test by the authorized representative from WTL.

61. SITE INSPECTION

Bidder can inspect (at their own cost) the sites if required, for which they have to take necessary permission from WTL in writing. WTL will take at least four days to organize such permission.

62. QUALITY CONTROL

- The contractor is obliged to work closely with WTL act within its authority and abide by directive issued by them on implementation activities.
- The contractor will abide by the safety measures and free WTL from all demands or responsibilities arising from accident/loss of life, the cause of which is due to their negligence. The bidder will pay all indemnities arising from such incidents and will not hold WTL responsible.
- The contractor will treat as confidential all data and information about the system, obtained in the execution of its responsibilities in strict confidence and will not reveal such information to any party without the prior written approval of WTL.
- WTL reserves the right to inspect all phases of contractor's operation to ensure conformity to the specifications. WTL shall have engineers, inspectors or other duly authorized representatives made known to the contractor, present during the progress of the work and such representatives shall have free access to the work at all times. The presence or absence of representatives of WTL does not relieve the contractor of the responsibility for quality control in all phases.
- The Court of Kolkata only will have the jurisdiction to deal with and decide any legal matters or dispute whatsoever arising out of the contract.

63. SERVICE LEVEL AGREEMENT

Purpose

The purpose of this Service Level Agreement (hereinafter referred to as SLA) is to clearly define the levels of service which shall be provided by the Contractor to the Client for duration of the project.

The benefits of these SLAs are to:

1. Trigger a process that applies to the Contractor's management attention to some aspect of performance when that aspect drops below an agreed upon threshold, or target.
2. Makes explicit the expectations that the Client has for performance
3. Helps the Client control the levels and performance of Contractors service

The final SLAs will be back-to-back between DVC-WTL and WTL-Contractor. The SLA for service support in compliance to the minimum SLA required must be submitted by the L1 bidder on placement of order. WTL reserves the right to change/modify the SLAs during the finalization of the contractual agreement with the successful bidder.

Following are indicative SLAs

Definitions:

- **Availability:** shall mean the time for which the Equipments, other components and Software are available for conducting operations. This will exclude the planned downtime agreed with customer.
- **Days:** All working and Non-working days in a Calendar year
- **24*7:** Means 24 hours per day applicable for all seven days of a week (inclusive of all working and non-working days).

A. SLA during implementation and Associated Penalties:

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1. **On Time Delivery:** This SLA shall be used to evaluate the timelines for completion of deliverables, i.e., supply and installation of equipments and software as per scope of the work defined for the project.

SLA penalty calculation will be as follows:

For delay of every week in completion & submission of the deliverable mentioned, the Contractor would be charged with penalty of 0.5% per month on balance work with maximum of 5% of total contract value.

64. GENERAL TERMS

- a) All the documents to be submitted by the bidder along with their offer should be duly authenticated by the person signing the offer and if at any point of time during procurement process or subsequently it is detected that documents submitted are forged/tampered/manipulated in any way, the total responsibility lies with the bidder and WTL reserves the full right to take action as may be deemed fit including rejection of the offer and such case is to be kept recorded for any future dealing with them.
- b) No Technical/Commercial clarification will be entertained after opening of the tender.
- c) Quantity mentioned in the tender document is indicative only and orders shall be placed subject to actual requirement. WTL reserve the right to increase or decrease the quantity specified in the tender.
- d) WTL reserve the right to reject or accept or withdraw the tender in full or part as the case may be without assigning the reasons thereof. No dispute of any kind can be raised the right of buyer in any court of law or elsewhere.
- e) WTL reserve the right to ask for clarification in the bid documents submitted by the bidder. Documents may be taken if decided by the committee.
- f) Supporting technical brochures/catalogues indicating each feature in respect of offered model and make must be submitted along with the offer, in absence of which the offer is liable to be ignored.
- g) No dispute by the bidders in regard to Technical/Commercial points will be entertained by WTL and decision taken by the Tender Committee will be final.
- h) Discrepancy in the amount quoted by the bidder due to calculation mistake, the unit rate shall be regarded as firm and the totaling or carry in the amount quoted by the bidder shall be corrected accordingly.
- i) The price offers shall remain firm within the currency of contract and no escalation of price will be allowed.
- j) The acceptance of the tender will rest with the accepting authority who is not bound to accept the lowest or any tender and reserves the right to reject in part or in full any or all tender(s) received and to split up the work among participants without assigning any reason thereof.
- k) The customer/WTL at its discretion may extend the deadline for the submission of Bids.
- l) The Court of Kolkata only will have the jurisdiction to deal with and decide any legal matters or dispute whatsoever arising out of the contract.

m) Below mentioned clauses are applicable for all OEM / Products & Bidders:

Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority [DPIIT OM No.6/18/2019- PPD dated 23.07.2020].

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- i. "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.
- ii. "Bidder from a country which shares a land border with India" for the purpose of above- mentioned Order means:
 - n) The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.

WEBEL TECHNOLOGY LIMITED

SECTION – F

BID FORM

(Bidders are requested to furnish the Bid Form in the Format given in this section, filling the entire Blank and to be submitted on Letter Head in original)

To
Webel Technology Limited
Plot – 5, Block – BP,
Sector - V,
Salt Lake City,
Kolkata – 700091.

Sub: Development of smart and virtually enabled State-of-the-Art Training Infrastructure at Chandrapura Thermal Power Station (CTPS) of DVC.

Dear Sir,

1. We the undersigned bidder/(s), having read and examined in details the specifications and other documents of the subject tender no WTL/DVC/TRAINING/25-26/025 DATED 16/09/2025, do hereby propose to execute the job as per specification as set forth in your Bid documents.
2. The prices of all items stated in the bid are firm during the entire period of job irrespective of date of completion and not subject to any price adjusted as per in line with the bidding documents. All prices and other terms & conditions of this proposal are valid for a period of 180 (one hundred eighty) days from the date of opening of bid. We further declare that prices stated in our proposal are in accordance with your bidding.
3. We confirm that our bid prices include all other taxes and duties and levies applicable on bought out components, materials, equipments and other items and confirm that any such taxes, duties and levies additionally payable shall be to our account.
4. Earnest Money Deposit & Tender fee: We have transferred EMD & Tender Fee amount online through e-Tender portal.
5. We declare that items shall be executed strictly in accordance with the specifications and documents irrespective of whatever has been stated to the contrary anywhere else in our proposal. Further, we agree that additional conditions, deviations, if any, found in the proposal documents other than those stated in our deviation schedule, save that pertaining to any rebates offered shall not be given effect to.
6. If this proposal is accepted by you, we agree to provide services and complete the entire work, in accordance with schedule indicated in the proposal. We fully understand that the work completion schedule stipulated in the proposal is the essence of the job, if awarded.
7. We further agree that if our proposal is accepted, we shall provide a Performance Bank Guarantee of the value equivalent to five percent (5%) of the Order value as stipulated in Financial Bid (BOQ).
8. We agree that WTL reserves the right to accept in full/part or reject any or all the bids received or split order within successful bidders without any explanation to bidders and his decision on the subject will be final and binding on Bidder.

Dated, thisday of2025

Thanking you, we remain,

WEBEL TECHNOLOGY LIMITED

Yours faithfully

.....
Signature

.....
Name in full

.....
Designation

Signature & Authorized Verified by

.....
Signature

.....
Name in full

.....
Designation

.....
Company Stamp

WEBEL TECHNOLOGY LIMITED

SECTION – G

TECHNO COMMERCIAL EVALUATION & AWARDING OF CONTRACT

1. EVALUATION PROCEDURE

- The Eligibility Criteria (Section - D) will be evaluated by Tender Committee and those qualify will be considered for further evaluation.
- The Tender Committee shall verify the Technical Specification (Technical Specification & Compliance Statement, Section – R) Deviation in specification shall not be allowed. Bidder qualified in Technical Specification shall be considered for further evaluation.
- The Tender Committee would evaluate the Techno Commercial Evaluation. In order to facilitate the evaluation, the marking scheme presented is an indication of the relative importance of the evaluation. Bidders securing a minimum of 75% marks in the Techno Commercial Evaluation for qualifying evaluation.
- Bidders after qualifying in Techno Commercial Evaluation will only be considers for Financial Bid Evaluation.

2. EVALUATION CRITERIA

Techno Commercial Evaluation

The evaluation methodology would take into consideration both the Technical response as well as the financial response. During the evaluation process, the evaluation committee will assign each desirable/preferred feature a whole number score for the Techno Commercial Bid as defined in the table below

Sl. No.	Technical Evaluation Criteria	List of documents/	Points
1	<p>Turnover : The Bidder should have an average annual turnover of minimum Rs. 3 Crore over the last 3 financial years (FY 2021-22, 2022-23 & 2023-24) – (Maximum Marks – 20)</p> <p>Score</p> <p>a. \geq Rs 10 Cr: 20 Marks</p> <p>b. \geq Rs 5 Cr and $<$ Rs 10 Cr: 15 Marks</p> <p>c. \geq Rs 2.5 Cr and $<$ Rs 5 Crore: 10 Marks</p>	Audited Balance Sheets (Profit/Loss account)	20
2	<p>Experience in delivering project with project value</p> <p>In the last Seven financial years (2018-19, 2019-20, 2020-21, 2021-22, 2022-23, 2023-24, and 2024-25), the Bidder has completed – (Maximum Marks – 30)</p> <p>Case 1: Single Order – Minimum value of Rs. 1.2Cr.</p> <p style="text-align: right;">30 Marks</p> <p>Or</p> <p>Case 2: Two Orders (Aggregate) – Minimum total value of Rs. 75L</p> <p style="text-align: right;">20 Marks</p> <p>Or</p> <p>Case 3: Three Orders (Aggregate) – Minimum total value of ₹ 60L – (Marks 10 Marks</p>	Work Order and completion certificate	30
3	<p>Experience with Technology</p> <p>In last 5 years prior to bid due date, the Bidder has completed similar project(s) (i.e. Smart class / Audio Visual Solution / Conference system) in Government Department/PSU/Autonomous Body in India.</p> <p>Score</p> <p>\geq 3 Projects: 20 Marks</p> <p>\geq 2 Projects (Minimum 1 Project) 10 Marks</p> <p>(Similar project means: Smart class / Audio Visual Solution/ Conference system)</p>	Work Order and completion certificate	20

WEBEL TECHNOLOGY LIMITED

Sl. No.	Technical Evaluation Criteria	List of documents/	Points
4	Proposed Solution : Presentation on Proposed Solution and Delivery Methodology to be given by the proposed team of the bidder to the tender evaluation committee. (Maximum Marks – 30)	Presentation	30
TOTAL			100

All claims to be supported by relevant documents / certificates. Onus of substantiating claims lies with the bidder.

Passing Marks: 75

3. FINAL EVALUATION

Financial Proposal of the bidders qualifying in the evaluation of Techno Commercial will be evaluated. The bidder who has qualified in the Techno Commercial and returns with lowest quote (L1) in Financial Bid will normally be awarded the contract subject to Post Qualification.

4. AWARDING OF CONTRACT

An affirmative Post Qualification determination will be prerequisite for award of the contract to the most overall responsive bidder for this project. Bidders, if disqualified in the technical evaluation, it will result in rejection of bidder's bid. Technically qualified bidders shall be evaluated for price bid. The lowest bidder shall be determined through price bid evaluation. WTL will award the contract to the successful bidder whose bid has been determined to be substantially responsive after final negotiation may held with the most responsive bidder (L1), if required.

- Bidders must submit price bid for this project. Any non-compliance to the price bid shall lead to rejection.
- L1 Bidders shall be awarded the contract for this project.

5. POST QUALIFICATION

The determination will evaluate the Bidder's financial, technical, design, integration, customization, production, management and support capabilities and will be based on an examination of the documentary evidence of the Bidder's qualification, as well as other information WTL deems necessary and appropriate. This determination may include visits or interviews with the Bidder's client's reference in its bid, site inspection, and any other measures.

WEBEL TECHNOLOGY LIMITED

SECTION – H

GUIDANCE FOR E-TENDERING

Instructions / Guidelines for electronic submission of the tenders have been annexed for assisting the Bidders to participate in e-Tendering.

1. **Registration of Bidder:**

Any Bidder willing to take part in the process of e-Tendering will have to be enrolled & registered with the Government e-Procurement System through logging on to <https://wbtenders.gov.in>. The Bidder is to click on the link for e-Tendering site as given on the web portal.

2. **Digital Signature Certificate (DSC):**

Each Bidder is required to obtain a Class-II or Class-III Digital Signature Certificate (DSC) for submission of tenders from the approved service provider of the National Informatics Centre (NIC) on payment of requisite amount. Details are available at the Web Site stated above. DSC is given as a USB e-Token.

3. The Bidder can search & download N.I.T. & BOQ electronically from computer once he logs on to the website mentioned above using the Digital Signature Certificate. This is the only mode of collection of Tender Documents.

4. **Participation in more than one work:**

A prospective bidder shall be allowed to participate in the job either in the capacity of individual or as a partner of a firm. If, found to be applied severally in a single job all the applications will be rejected.

5. **Submission of Tenders:**

Tenders are to be submitted through online to the website stated above in two folders at a time, one in Techno Commercial Proposal & the other is Financial Proposal before the prescribed date & time using the Digital Signature Certificate (DSC). The documents are to be uploaded virus scanned copy duly Digitally Signed. The documents will get encrypted (transformed into non readable formats)

The proposal should contain scanned copies of the following in two covers (folders).

Techno Commercial Cover:

Technical Document1

1. Bid Form as per format (Section – F)
2. Other documents, if any

Technical Document2

1. N I T Declaration duly stamped & signed in bidder's letter head, (Section – P)
2. Other documents, if any

Technical Compliance

1. Detailed Technical Specification with required documents, Section – R
2. Manufacturer Authorization Form, Section – S
3. Detailed Make, Mode with required documents, Section – Q

Financial Cover:

BOQ (Bill of Quantity) will be downloaded and same will be uploaded with quoted rates. While uploading BOQ file name shall remain unchanged. Absence of this document shall lead to summary rejection of the bid.

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NON-STATUTARY COVER (MY SPACE) CONTAIN FOLLOWING DOCUMENT:

(In each folder, scanned copy will be uploaded with single file having multiple pages)

Sl. No.	Category Name	Sub Category Name	Sub Category Description
A	CERTIFICATES	A1. CERTIFICATES	<ul style="list-style-type: none">• GST Registration Number• PAN• Document as per Section – D
B	COMPANY DETAILS	B1. COMPANY DETAILS 1	<ul style="list-style-type: none">• Document as per Section – D• Other documents, if any
		B2. COMPANY DETAILS 2	<ul style="list-style-type: none">• Company Profile (Not more than 3 pages)• ISO Certificate as per Section –D
C	CREDENTIAL	CREDENTIAL 1	<ul style="list-style-type: none">• Order copies as per Section – D
		CREDENTIAL 2	<ul style="list-style-type: none">• Product brochure• Other documents, if any
D	DECLARATION	DECLARATION 1	<ul style="list-style-type: none">• Order details (Section – N)• Financial Capability of Bidder as per format (Section – K)
		DECLARATION 2	<ul style="list-style-type: none">• Document as per Section – D• Other documents, if any
		DECLARATION 3	<ul style="list-style-type: none">• Bidder's Details as per format (Section – L)• Service Centre Details
		DECLARATION 4	<ul style="list-style-type: none">• Details of Capability as per format (Section – J)• Checklist as per Section – T
		DECLARATION 5	<ul style="list-style-type: none">• Other documents, if any
F	FINANCIAL INFO	P/L & BALANCE SHEET 2021-2022	P/L & BALANCE SHEET 2021-2022
		P/L & BALANCE SHEET 2022-2023	P/L & BALANCE SHEET 2022-2023
		P/L & BALANCE SHEET 2023-2024	P/L & BALANCE SHEET 2023-2024

WEBEL TECHNOLOGY LIMITED**SECTION - I****BILL OF MATERIAL**

The bill of material (BOM), for Development of smart and virtually enabled State-of-the-Art Training Infrastructure at Chandrapura Thermal Power Station (CTPS) of DVC are as shown below:

SL #	Item	Work Details	Unit	Qty
1	Civil	Waterproofing	Sq Mtr	120
2	Civil	Wooden Flooring	Sq Mtr	21
3	Civil	Vitrified Tiles Flooring	Sq Mtr	96
4	Civil	Tiles Laying	Sq Mtr	120
5	Civil	Toilet & Pantry	Lump Sum	1
6	Civil	Partition & Paneling	Sq Mtr	14
7	Civil	Full Height Acoustical Partition	Sq Mtr	85
8	Civil	UPVC Windows	Sq Mtr	36
9	Civil	Skirting	RMtr	12
10	Civil	Skirting	RMtr	8
11	Civil	Skirting	RMtr	35
12	Civil	False Ceiling	Sq Mtr	80
13	Civil	Wall Paneling	Sq Mtr	35
14	Civil	Wall Finish	Sq Mtr	250
15	Civil	Painting	Sq Mtr	250
16	Door & Partition	Main Door	Nos	1
17	Door & Partition	Toilet Door	Nos	3
18	Door & Partition	Toilet Partition & Door	Nos	4
19	Furniture	Table for trainee	Nos	36
20	Furniture	Table for Trainer	Nos	5
21	Furniture	Chair for Trainer	Nos	4
22	Furniture	Chair for Trainee	Nos	36
23	Furniture	Waiting Chair	Nos	1
24	Furniture	Stool	Nos	1
25	Furniture	Stage	Sq Mtr	20
26	Electrical	Air Conditioning	Tonn	14
27	Electrical	Cabling	Sq Mtr	130
28	Electrical	Pop up Box	Nos	20
29	Electrical	Light.	Nos	68
30	Furnishing	Soft Furnishings	Sq Mtr	55
31	Interactive Panel	86" Interactive Panel	Nos	1
32	OPS	OPS for Interactive Panel	Nos	1
33	Large Format Display LFD	Large format Display LFD for Classroom 55"	Nos	3
34	Podium	Digital Podium	Nos	1
35	VC Camera	Auto Tracking Camera	Nos	1
36	PTZ Camera	PTZ Camera	Nos	1
37	Ceiling mount for Camera	Ceiling mount for Camera	Nos	1

WEBEL TECHNOLOGY LIMITED

SL #	Item	Work Details	Unit	Qty
38	Camera Switcher	4 X HDMI In, 1 X HDMI Out, 1 X USB Out, Picture in Picture, Picture by Picture	Nos	1
39	Microphone	Ceiling Tile Microphone	Nos	1
40	PoE Injector	PoE Injector	Nos	1
41	Handheld Microphone	Wireless Collar and Handheld Microphone Set of 4 ultra Variable Frequency 4 Channel Wireless microphone (1 Receiver, 2 Handheld & 2 Collar Microphones).	Set	1
42	Speaker	Ceiling Speakers	Nos	4
43	Amplifier	Amplifier	Nos	1
44	DSP	DSP	Nos	1
45	Controller System	Controller System	Nos	1
46	Programming for Controller	Programming for Controller	Job	1
47	Tab	Tablet 10"	Nos	1
48	Wireless Presenter	Screen Beam Wireless Presentation Device	Nos	1
49	Matrix Switcher	Matrix Switcher 4 HDMI In x 4 HDMI Out	Nos	1
50	Distribution Amplifier	Distribution Amplifier 1 HDMI In 4 HDMI Out.	Nos	1
51	HDMI Extender	HDMI Extender Transmitter & Receiver connected on Cat6 cable, Supports Up to 50 Mtr, Full HD	Nos	6
52	Desktop	High End PC- : i7, 11th Gen, 16 GB RAM, 512 GB SSD , 1TB HDD, Windows 11 including antivirus	Nos	1
53	Recorder& streaming	Recorder& streaming	Job	1
54	Cable & Connectors	Cable & Connectors	Lump Sum	1
55	Service	Installation of AV & DV system	Job	1
56	CCTV	5MP Dome 30 Mtr. IR CCTV Camera	Nos	4
57	NVR	8 Port 1 SATA NVR	Nos	1
58	Hard Disk	10 TB Surveillance HDD	Nos	1
59	Network Rack	27U Network Rack	Nos	1
60	LAN Switch	16 Port or higher PoE Switch	Nos	1
61	Patch Panel	24 Port CAT-6 Patch Panel	Nos	1
62	UTP Cable	CAT-6 Cable (305 Mtr.)	Nos	1
63	Patch Cord	Patch Cord 1 Mtr.	Nos	4
64	PVC Box	PVC Box 4/6	Nos	4
65	Keystone	Keystone Jack	Nos	4
66	Access Point	Indoor Access Point	Nos	1
67	Large format Display LFD	32" Digital Signage	Nos	1
68	Application Software	Software for Display per panel based	Lump Sum	1
69	Software	Google Workspace Education Plus subscription for 3 years - minimum quantity is 50 users	Nos	50
70	Software	Google Workspace Education Plus Teaching & Learning Upgrade for 3 years	Nos	8

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SL #	Item	Work Details	Unit	Qty
71	Visi cooler	Visi cooler 450 Ltrs. Single Door	Nos	1
72	Microwave Oven	28 L Convection Microwave Oven	Nos	1
73	Induction	Induction Cooktop	Nos	1
74	Installation Service	Installation and configuration of CCTV Camera	Job	4
75	Installation Service	Installation and configuration of NVR	Job	1
76	Installation Service	Installation of RACK	Job	1
77	Installation Service	Installation of Access point	Job	1

WEBEL TECHNOLOGY LIMITED

SECTION – J

DETAILS OF TECHNICAL CAPABILITY OF BIDDER

(Tender No. WTL/DVC/TRAINING/25-26/025 DATED 16/09/2025)

Sl. No.	Project Name	Start Date	End Date / Status	Brief description of project & scope of work (Implementation, operation & maintenance)	Type of project	Approx value of the project	Contact details of the Customer

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

- a. Type of Project shall indicate the implementation of services (Networking Setup, System Integration).
- b. Scope of work shall indicate whether it is implementation, Operation or maintenance.
- c. Submit Customer Order Copy details of the order indicating the project value, customer contact details, project completion certificate, customer satisfaction certificate etc.

WEBEL TECHNOLOGY LIMITED

SECTION – K

FINANCIAL CAPABILITY OF BIDDER

(Tender No. WTL/DVC/TRAINING/25-26/025 DATED 16/09/2025)

FINANCIAL INFORMATION

Sl. No.	Name of the Bidder	Turnover (Rs. / Crores)		
		2023-2024	2022-2023	2021-2022
1				

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

WEBEL TECHNOLOGY LIMITED**SECTION – L****BIDDERS'S DETAILS**

(Tender No. WTL/DVC/TRAINING/25-26/025 DATED 16/09/2025)

1	Name of the Firm	
2	Registered Office Address	
	Contact Number	
	Fax Number	
	E-mail	
3	Correspondence / Contact address	
	Name & Designation of Contact person	
	Address	
	Contact Number	
	Fax Number	
4	E-mail	
	Is the firm a registered company? If yes, submit documentary proof	
	Year and Place of the establishment of the company	
6	Former name of the company, if any	
7	Is the firm <ul style="list-style-type: none">▪ a Government/ Public Sector Undertaking▪ a propriety firms▪ a partnership firm (if yes, give partnership deed)▪ a limited company or limited corporation▪ a member of a group of companies, (if yes, give name and address and description of other companies)▪ a subsidiary of a large corporation (if yes give the name and address of the parent organization). If the company is subsidiary, state what involvement if any, will the parent company have in the project.	
8	Is the firm registered with Sales Tax department? If yes, submit valid GST Registration certificate.	
9	Is the firm registered for Service Tax with Central Excise Department (Service Tax Cell)? If yes, submit valid Service Tax registration certificate.	
10	Total number of employees. Attach the organizational chart showing the structure of the organization.	
11	Are you registered with any Government/ Department/ Public Sector Undertaking (if yes, give details)	
12	How many years has your organization been in business under your present name? What were your fields when you established your organization	
13	What type best describes your firm? (Purchaser reserves the right to verify the claims if necessary) <ul style="list-style-type: none">▪ Manufacturer▪ Supplier▪ System Integrator▪ Consultant▪ Service Provider (Pl. specify details)▪ Software Development▪ Total Solution provider (Design, Supply, Integration, O&M)▪ IT Company	
14	Number of Offices in district headquarters in West Bengal	
15	Is your organization having ISO 9001:2015 certificates?	
16	List the major clients with whom your organization has been / is currently associated.	

WEBEL TECHNOLOGY LIMITED

17	Have you in any capacity not completed any work awarded to you? (If so, give the name of project and reason for not completing the work)	
18	Have you ever been denied tendering facilities by any Government / Department / Public sector Undertaking? (Give details)	

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Company Rubber Stamp: _____

WEBEL TECHNOLOGY LIMITED

SECTION – M

PRE-BID MEETING QUERY

(Tender No. WTL/DVC/TRAINING/25-26/025 DATED 16/09/2025)

Name of the Bidder:

Queries

Sl. No.	Section No.	Clause No.	Page No.	Queries

Note: The filled form to be submitted in XLS and PDF Format. There is a cut off date for receiving of queries before Pre Bid Meeting. Queries received after the cutoff period will not be accepted. The Purchaser reserves the right to respond all queries over e-mail.

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Company Rubber Stamp: _____

WEBEL TECHNOLOGY LIMITED

SECTION – O

PROFORMA FOR PERFORMANCE BANK GUARANTEE

(On non-judicial stamp paper of appropriate value to be purchased in the name of executing Bank)

**PROFORMA OF BANK GUARANTEE FOR SECURITY DEPOSIT –CUM-PRFORMANCE
GUARANTEE**

Ref Bank Guarantee no.....

Date.....

PROFORMA OF BG FOR SECURITY DEPOSIT

KNOW ALL MEN BY THESE PRESENTS that in consideration of WEBEL TECHNOLOGY LIMITED, a Government of West Bengal Undertaking incorporated under the Companies Act, 1956 having its Registered office at Plot - 5, Block BP, Sector V, Kolkata-700 091 (hereinafter called "The Purchaser") having agreed to accept from _____ (hereinafter called "The Contractor") Having its Head Office at _____, a Bank guarantee for Rs. _____ in lieu of Cash Security Deposit for the due fulfillment by the Contractor of the terms & conditions of the Work Order No. _____ dated _____ issued by the Purchaser for _____ (hereinafter called "the said work order _____ dated _____)". We _____ (Name & detailed address of the branch) (hereinafter called "the Guarantor") do hereby undertake to indemnify and keep indemnified the Purchaser to the extent of Rs. _____ (Rupees _____) only against any loss or damage caused to or suffered by the Purchaser by reason of any breach by the Contractor of any of the terms and conditions contained in the said Work Order No. _____ dated _____ of which breach the opinion of the Purchaser shall be final and conclusive.

(2) AND WE, _____ DO HEREBY Guarantee and undertake to pay forthwith on demand to the Purchaser such sum not exceeding the said sum of _____ Rupees _____) only as may be specified in such demand, in the event of the Contractor failing or neglecting to execute fully efficiently and satisfactorily the order for _____ Work Order no. , _____ dated _____

(3) WE _____ 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 order as laid down in the said Work Order No. _____ dated _____ including the warranty obligations and that it shall continue to be enforceable till all the dues of the Purchaser under or by virtue of the said Work Order No. _____ dated _____ have been fully paid and its claims satisfied or is charged or till the Purchaser or its authorized representative certified that the terms and conditions of the said Work Order No. _____ dated _____ have been fully and properly carried out by the said contractor and accordingly discharged the guarantee.

(4) We _____ the Guarantor undertake to extend the validity of Bank Guarantee at the request of the contractor for further period of periods from time to time beyond its present validity period failing which we shall pay the Purchaser the amount of Guarantee.

(5) The liability under the Guarantee is restricted to Rs. _____ (Rupees _____) only and will expire on _____ and unless a claim in writing is presented to us or an action or suit to enforce the claim is filled against us within 6 months from _____ all your rights will be forfeited and we shall be relieved of and discharged from all our liabilities (thereinafter)

(6) The Guarantee herein contained shall not be determined or affected by liquidation or winding up or insolvency or closer of the Contractor.

(7) The executants has the power to issue this guarantee on behalf of Guarantor and holds full and valid power of Attorney granted in his favour by the Guarantor authorizing him to execute the Guarantee.

(8) Notwithstanding anything contained herein above, our liability under this guarantee is restricted to Rs.

WEBEL TECHNOLOGY LIMITED

_____ (Rupees _____) only and our guarantee shall remain in force up to _____ and unless a demand or claim under the guarantee is made on us in writing on or before _____ all your rights under the guarantee shall be forfeited and we shall be relieved and discharged from all liabilities there under.

WE, _____ lastly undertake not to revoke this guarantee during the currency except with the previous consent of the Purchaser in writing. In witness whereof we _____ have set and subscribed our hand on this _____ day of _____.

SIGNED, SEALED AND DELIVERED

(Stamp of the executants)

WITNESS

1) _____

2) _____

(Name & address in full with Rubber Stamp)

WEBEL TECHNOLOGY LIMITED

INSTRUCTIONS FOR FURNISHING BANK GUARANTEE

1. Bank Guarantee (B.G.) for Advance payment, Mobilization Advance, B.G. for security Deposit-cum-Performance Guarantee, Earnest Money should be executed on the Non- Judicial Stamp paper of the applicable value and to be purchased in the name of the Bank.
2. The Executor (Bank authorities) may mention the Power of Attorney No. and date of execution in his/her favour with authorization to sign the documents. The Power of Attorney is to be witnessed by two persons mentioning their full name and address.
3. The B.G. should be executed by a Nationalised Bank/ Scheduled Commercial Bank preferably on a branch located in Kolkata. B.G. from Co-operative Bank / Rural Banks is not acceptable.
4. A Confirmation Letter of the concerned Bank must be furnished as a proof of genuineness of the Guarantee issued by them.
5. Any B.G. if executed on Non-Judicial Stamp paper after 6 (six) months of the purchase of such stamp shall be treated as non-valid.
6. Each page of the B.G. must bear signature and seal of the Bank and B.G. Number.
7. The content of the B.G. shall be strictly as Proforma prescribed by WTL in line with Purchase Order /LOI/ Work Order etc. and must contain all factual details.
8. Any correction, deletion etc. in the B.G. should be authenticated by the Bank Officials signing the B.G.
9. In case of extension of a Contract the validity of the B.G. must be extended accordingly.
10. B.G. must be furnished within the stipulated period as mentioned in Purchase Order / LOI / Work Order etc.
11. Issuing Bank / The Bidder are requested to mention the Purchase Order / Contract / Work Order reference along with the B.G. No. For making any future queries to WTL.

WEBEL TECHNOLOGY LIMITED

SECTION – P

NIT DECLARATION FOR BIDDER

(Bidders are requested to furnish the Format given in this section, filling the entire Blank and to be submitted on Bidder's Letter Head)

To
Webel Technology Limited
Plot-5, Block-BP, Sector-V,
Salt Lake City,
Kolkata-700091.

Sub: Development of smart and virtually enabled State-of-the-Art Training Infrastructure at Chandrapura Thermal Power Station (CTPS) of DVC

Dear Sir,

We the undersigned bidder/(s) declare that we have read and examined in details the specifications and other documents of the subject Tender No. WTL/DVC/TRAINING/25-26/025 DATED 16/09/2025 for Development of smart and virtually enabled State-of-the-Art Training Infrastructure at Chandrapura Thermal Power Station (CTPS) of DVC published by Webel Technology Limited in e-Tender website.

We further declare that we have agreed and accepted all the clauses / sub-clauses / formats / terms & conditions other requirements related to the said tender and we will abide by the same as mentioned in the tender document while participating and executing the said tender.

Thanking you, we remain

Yours faithfully

.....
Signature

.....
Name in full

.....
Designation

.....
Company Stamp

Dated, this.....day of.....2025

WEBEL TECHNOLOGY LIMITED**SECTION – Q****MAKE, MODEL & PART NUMBER DECLARATION**

(Tender No. WTL/DVC/TRAINING/25-26/025 DATED 16/09/2025)

Development of smart and virtually enabled State-of-the-Art Training Infrastructure at Chandrapura Thermal Power Station (CTPS) of DVC

SL	Item	Work Details	Unit	Qty	Make	Model	Part no.
1	Civil	Waterproofing	Sq Mtr	120			
2	Civil	Wooden Flooring	Sq Mtr	21			
3	Civil	Vitrified Tiles Flooring	Sq Mtr	96			
4	Civil	Tiles Laying	Sq Mtr	120			
5	Civil	Toilet & Pantry	Lump Sum	1			
6	Civil	Partition & Paneling	Sq Mtr	14			
7	Civil	Full Height Acoustical Partition	Sq Mtr	85			
8	Civil	UPVC Windows	Sq Mtr	36			
9	Civil	Skirting	RMtr	12			
10	Civil	Skirting	RMtr	8			
11	Civil	Skirting	RMtr	35			
12	Civil	False Ceiling	Sq Mtr	80			
13	Civil	Wall Paneling	Sq Mtr	35			
14	Civil	Wall Finish	Sq Mtr	250			
15	Civil	Painting	Sq Mtr	250			
16	Door & Partition	Main Door	Nos	1			
17	Door & Partition	Toilet Door	Nos	3			
18	Door & Partition	Toilet Partition & Door	Nos	4			
19	Furniture	Table for trainee	Nos	36			
20	Furniture	Table for Trainer	Nos	5			
21	Furniture	Chair for Trainer	Nos	4			
22	Furniture	Chair for Trainee	Nos	36			
23	Furniture	Waiting Chair	Nos	1			
24	Furniture	Stool	Nos	1			
25	Furniture	Stage	Sq Mtr	20			
26	Electrical	Air Conditioning	Tonn	14			
27	Electrical	Cabling	Sq Mtr	130			
28	Electrical	Pop up Box	Nos	20			
29	Electrical	Light.	Nos	68			
30	Furnishing	Soft Furnishings	Sq Mtr	55			
31	Interactive Panel	86" Interactive Panel	Nos	1			
32	OPS	OPS for Interactive Panel	Nos	1			
33	Large format Display LFD	Large format Display LFD for Classroom 55"	Nos	3			
34	Podium	Digital Podium	Nos	1			
35	VC Camera	Auto Tracking Camera	Nos	1			
36	PTZ Camera	PTZ Camera	Nos	1			

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37	Ceiling mount for Camera	Ceiling mount for Camera	Nos	1			
38	Camera Switcher	4 X HDMI In, 1 X HDMI Out, 1 X USB Out, Picture in Picture, Picture by Picture	Nos	1			
39	Microphone	Ceiling Tile Microphone	Nos	1			
40	PoE Injector	PoE Injector	Nos	1			
41	Handheld Microphone	Wireless Collar and Handheld Microphone Set of 4 ultra Variable Frequency 4 Channel Wireless microphone (1 Receiver, 2 Handheld & 2 Collar Microphones).	Set	1			
42	Speaker	Ceiling Speakers	Nos	4			
43	Amplifier	Amplifier	Nos	1			
44	DSP	DSP	Nos	1			
45	Controller System	Controller System	Nos	1			
46	Programming for Controller	Programming for Controller	Job	1			
47	Tab	Tablet 10"	Nos	1			
48	Wireless Presenter	Screen Beam Wireless Presentation Device	Nos	1			
49	Matrix Switcher	Matrix Switcher 4 HDMI In x 4 HDMI Out	Nos	1			
50	Distribution Amplifier	Distribution Amplifier 1 HDMI In 4 HDMI Out.	Nos	1			
51	HDMI Extender	HDMI Extender Transmitter & Receiver connected on Cat6 cable, Supports Up to 50 Mtr, Full HD	Nos	6			
52	Desktop	High End PC- : i7, 11th Gen, 16 GB RAM,512 GB SSD , 1TB HDD, Windows 11 including antivirus	Nos	1			
53	Recorder& streaming	Recorder& streaming	Job	1			
54	Cable & Connectors	Cable & Connectors	Lump Sum	1			
55	Service	Installation of AV & DV system	Job	1			
56	CCTV	5MP Dome 30 Mtr. IR CCTV Camera	Nos	4			
57	NVR	8 Port 1 SATA NVR	Nos	1			
58	Hard Disk	10 TB Surveillance HDD	Nos	1			
59	Network Rack	27U Network Rack	Nos	1			
60	LAN Switch	16 Port or higher PoE Switch	Nos	1			
61	Patch Panel	24 Port CAT-6 Patch Panel	Nos	1			
62	UTP Cable	CAT-6 Cable (305 Mtr.)	Nos	1			
63	Patch Cord	Patch Cord 1 Mtr.	Nos	4			
64	PVC Box	PVC Box 4/6	Nos	4			
65	Keystone	Keystone Jack	Nos	4			

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66	Access Point	Indoor Access Point	Nos	1			
67	Large format Display LFD	32" Digital Signage	Nos	1			
68	Application Software	Software for Display per panel based	Lump Sum	1			
69	Software	Google Workspace Education Plus subscription for 3 years - minimum quantity is 50 users	Nos	50			
70	Software	Google Workspace Education Plus Teaching & Learning Upgrade for 3 years	Nos	8			
71	Visi cooler	Visi cooler 450 Ltrs. Single Door	Nos	1			
72	Microwave Oven	28 L Convection Microwave Oven	Nos	1			
73	Induction	Induction Cooktop	Nos	1			

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Company Rubber Stamp: _____

WEBEL TECHNOLOGY LIMITED**SECTION – R****TECHNICAL SPECIFICATION COMPLIANCE STATEMENT**

(Tender No. WTL/DVC/TRAINING/25-26/025 DATED 16/09/2025)

Technical Specification (Please mark Compliance Yes / No):**Water proofing:**

Sr. No.	Description	Compliance	Remarks
1.	The toilet base slab shall first be cleaned of all dirt laitance, etc. Over the cleaned surface first the Gola of 20 mm thick (Corner chamfering) should be applied on floor and wall up to 900mm and till the slab level on the diverter wall with acrylic base polymer compound of approved make. After the Gola is prepared a layer of cementitious compound with Polymeric Compound shall be followed by another Cementitious Coat in ratio of Polymer : Cement :Sand 1:2:2 should be applied on floor and continued on wall as per the specific height. The surface shall be cured for two weeks and checked for water tightness before being filled up. water proofing on bare slab to be done in the same manner. Rate in Sq Mtr		

Wooden Flooring:

Sr. No.	Description	Compliance	Remarks
1.	Providing and fixing of 18mm thick Engineered WOODEN FLOORING of approved size and make with 5 mm thick kini foam over a base of 12 mm thk. ply fixed on IPS/TILES flooring with proper line and level including an ALUMINUM PROFILE SEPARATOR fixed in mortar between flooring transition , all complete as per drawing and as directed by Architect or Engineer-in charge. EXCLUDING IPS FLOORING (Mikasa Make) Rate in Sq Mtr		

Vitrified Tiles Flooring:

Sr. No.	Description	Compliance	Remarks
1.	Providing and laying 10 mm thick VITRIFIED TILES (as per drawing) of approved sample and shade over a base cement mortar of thickness 30-40mm in 1:4 laid to proper line and level with proper curing as per direction and joints filled with Kerakoll Fugalite Eco grout matched with tiles shade all complete as per direction of the Engineer In Charge/ Architect		

Tiles Laying:

Sr. No.	Description	Compliance	Remarks
1.	Providing and laying 10 mm thick VITRIFIED TILES (as per drawing) of approved sample and shade over a base cement mortar of thickness 30-40mm in 1:4 laid to proper line and level with proper curing as per direction and joints filled with Kerakoll Fugalite Eco grout matched with tiles shade all complete as per direction of the Engineer In Charge/ Architect Rate in Sq Mtr		

Toilet & Pantry:

Sr. No.	Description	Compliance	Remarks
1.	Toilet Fixture as per selection W.C, Basin, Sink and Urinal		

Partition & Panelling:

Sr. No.	Description	Compliance	Remarks
1.	Providing and fixing ABOVE CEILING PARTITION for curtain. complete with all hardware as per drawing Rate in Sq Mtr		

Full Height Acoustical Partition:

Sr. No.	Description	Compliance	Remarks
1.	Providing and making of 65mm thick. Full Height Acoustical paneling (up to false ceiling level). on frames made of Sal Wood/aluminum section (50x50 sections to be fixed 600mm c/c vertically and horizontally) rock-wool filling		

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	to be done inside and 6 mm plywood. Surface to be completed with 3mm thk. veneer (of approved colour & brand) with all necessary hardware ,fire retardant paint etc all complete as per drawing. Rate in Sq Mtr		
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UPVC Windows:

Sr. No.	Description	Compliance	Remarks
1.	UPVC Window as per vendor specification. Rate in Sq. Mtr		

Skirting:

Sr. No.	Description	Compliance	Remarks
1.	Providing and Fixing of 100mm high wooden skirting in polish finish of approved shade as per sample and all complete as per drawing.(Rate in running Mtr)		

Skirting:

Sr. No.	Description	Compliance	Remarks
1.	L Alum. angle - 25mm x 25mm TRANSITION PROFILE for floor joining between different material. (Rate in running Mtr)		

Skirting:

Sr. No.	Description	Compliance	Remarks
1.	Providing & Fixing of 10mm thick. and 100 mm high VITRIFIED TILE skirting on wall fixed with stone adhesive, flushing with wall finish level, finished as per drawing. (Rate in running Mtr)		

False Ceiling:

Sr. No.	Description	Compliance	Remarks
1.	Providing and fixing Acoustic False Ceiling, horizontal suspended 8mm thick ceiling as per design fixed with G.I. grid made at 18 mm x 18 mm 'L' section 24 gauge strap hinges not more than 600 mm centre to centre. (Rate in Sq Mtr)		

Wall Panelling:

Sr. No.	Description	Compliance	Remarks
1.	Providing and fixing 4mm thick. Veneer on 19MM thk. plywood structure supported on Sal wood section as per drawing and applying proper anti-termite treatment including preparation of surface as per direction and sand papering the intermediate coats including providing necessary putty work including provision for trap door and all necessary coves , niches , cutouts for lights etc. as per drawing.)		

Wall Finish:

Sr. No.	Description	Compliance	Remarks
1.	10-12 mm thick Patta paris with Putty punning to plastered wall with base preparation with all labour and material including scaffolding charges. (Rate in Sq Mtr)		

Painting:

Sr. No.	Description	Compliance	Remarks
1.	Providing and Applying two coats of primer with two coats of acrylic emulsion paint of approved shade, quality and manufacturer on wall including preparation of surface as per direction and sand papering the intermediate coats including providing necessary putty work (Rate in Sq Mtr)		

Main Door:

Sr. No.	Description	Compliance	Remarks
1.	Making of 35mm thick. Main door, finished with laminate of approved shade and sample. butt hinge, door handle with all necessary hardware & fittings etc complete as per drawing (Rate in Nos)		

Toilet Door:

Sr. No.	Description	Compliance	Remarks
1.	Making of 35mm thick. solid toilet door, finished with laminate of approved		

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	shade and sample. butt hinge, door handle with all necessary hardware & fittings etc complete as per drawing.		
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Toilet Partition & Door:

Sr. No.	Description	Compliance	Remarks
1.	Providing and supplying of 18mm thick. toilet partition and partition door with all necessary fittings as per drawing.		

Stage:

Sr. No.	Description	Compliance	Remarks
1.	Making of Stage with wooden/aluminium structure and 19 mm ply top as per design		

Air Conditioning:

Sr. No.	Description	Compliance	Remarks
1.	Split AC		

Cabling:

Sr. No.	Description	Compliance	Remarks
1.	Electrical as per detail drawing with popup box		

Pop up Box:

Sr. No.	Description	Compliance	Remarks
1.	Pop up box at floor for all tables		

Light:

Sr. No.	Description	Compliance	Remarks
1.	Ceiling Light		

Soft Furnishings:

Sr. No.	Description	Compliance	Remarks
1.	Blackout curtains		

Table for Trainer and Trainee:

Sr. No.	Description	Compliance	Remarks
1	Table top: Made of 25mm thick prelaminated particle board of approved shade. All the edges of		
2	cabin table surface shall be provided with machine pressed 2mm thick imported PVC lipping		
3	glued with hotmelt Eva glue free from any VOC.		
4	Modesty Panel: 18mm thick 450mm ht PLT modesty panel is considered at Main side Which is		
5	machine pressed 2mm thick imported PVC lipping glued with hotmelt Eva glue free from any		
6	VOC.		
7	Under Structure Support: Table top is supported on Gable Ends		
8	Wire Management: Grommet hole.		
9	PLB Shelves provided		
10	Certification from Indian Green Building Council, Greenguard, ISO 9001:2015,		

Chair or Trainer:

Sr. No.	Description	Compliance	Remarks
1	Supply & Placement of Mesh Mid Back Ergonomic Chair for learner as per the following specification. SEAT/BACK ASSEMBLY: The cushioned seat assembly consists of seat base molded in glass-filled Poly- amide, molded Polyurethane foam & upholstered with high stretch knitted polyester fabric. The Back is injection molded in glass filled Polypropylene which is upholstered with Mesh fabric. The back consist of adjustable lumbar		

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	<p>support made of injection molded Polypropylene having an adjustment of 3.0 ±0.1 cm. Mesh Back Size : 45.5 cm. (W) x 54.0 cm. (H), Seat Size : 48.5 cm. (W) x 49.0 cm. (D). HIGH RESILIENCE (HR) POLYURETHANE FOAM: The HR polyurethane foam used in seat and back cushion is molded in Density Min 48 kg/m³, and hardness load 15 ± 2 kgf as per IS:7888 for 25% compression. TILT MECHANISM, SPINES & SPINE CONNECTOR: The seat and back are firmly connected to the base frame and are cantilevered in such a way that it gives a multi-dimensional movement possibility just with a simple lean on the sides or back, without need for complex manual adjustments. The cantilevered seat offers impact cushioning while sitting and synchronizes with the back movement during posture changes. The "S" shaped spines molded in high strength glass-filled Poly-amide and the spine connector molded in glass-filled Poly-amide form the back-spine structure involved in multi-dimensional recline motion. The variable tilt angle recline motion can be adjusted with 3 position Tilt Limit feature which is inbuilt in seat base and the tension (return force) is user weight dependent. ADJUSTABLE ARMRESTS: The assembly consists of armrest housing sliding over the armrest structure, both molded in glass-filled Poly-amide. The height adjustment feature is button operated having adjustment of 6.6±0.5cm. The Armrest Top is made up of integral skin PU molded over plastic inner molded in glass-filled Poly-amide. PNEUMATIC HEIGHT ADJUSTMENT: The seating height can be adjusted with a pneumatic gas-lift having an adjustment stroke of 9.2 ± 0.3 cm. PEDESTAL ASSEMBLY: The pedestal is injection molded in glass-filled Poly- amide and fitted with 5 nos. twin wheel castors. The pedestal is 66.0±0.5 cm. pitch centre diameter and 76.0±1.0 cm. with castors. TWIN WHEEL CASTORS: 5 nos. twin wheel castors are injection molded in Poly-amide having 5.0±0.1cm wheel diameter and assembled to the pedestal. The product should have Greenguard (by UL), Indoor Advantage Gold, BIFMA Level-2 and Greenpro Certification and the manufacturer should have ISO 9001:2015, ISO 50001:2018, ISO 45001:2018, ISO 14001:2015 (All ISO certificate must be from NABCB/IAF recognized accreditation body), IGBC Platinum & AIOTA certification</p>		
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Chair or Trainee:

Sr. No.	Description	Compliance	Remarks
1	<p>Supply & Placement of Mesh Mid Back Ergonomic Chair for learner as per the following specification. SEAT/BACK ASSEMBLY: The cushioned seat assembly consists of seat base molded in glass-filled Poly- amide, molded Polyurethane foam & upholstered with high stretch knitted polyester fabric. The Back is injection molded in glass filled Polypropylene which is upholstered with Mesh fabric. The back consist of adjustable lumbar support made of injection molded Polypropylene having an adjustment of 3.0 ±0.1 cm. Mesh Back Size : 45.5 cm. (W) x 54.0 cm. (H), Seat Size : 48.5 cm. (W) x 49.0 cm. (D). HIGH RESILIENCE (HR) POLYURETHANE FOAM: The HR polyurethane foam used in seat and back cushion is molded in Density Min 48 kg/m³, and hardness load 15 ± 2 kgf as per IS:7888 for 25% compression. TILT MECHANISM, SPINES & SPINE CONNECTOR: The seat and back are firmly connected to the base frame and are cantilevered in such a way that it gives a multi-dimensional movement possibility just with a simple lean on the sides or back, without need for complex manual adjustments. The cantilevered seat offers impact cushioning while sitting</p>		

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	<p>and synchronises with the back movement during posture changes. The "S" shaped spines molded in high strength glass-filled Poly-amide and the spine connector molded in glass-filled Poly-amide form the back-spine structure involved in multi-dimensional recline motion. The variable tilt angle recline motion can be adjusted with 3 position Tilt Limit feature which is inbuilt in seat base and the tension (return force) is user weight dependent. ADJUSTABLE ARMRESTS: The assembly consists of armrest housing sliding over the armrest structure, both molded in glass-filled Poly-amide. The height adjustment feature is button operated having adjustment of 6.6±0.5cm. The Armrest Top is made up of integral skin PU molded over plastic inner molded in glass-filled Poly-amide. PNEUMATIC HEIGHT ADJUSTMENT: The seating height can be adjusted with a pneumatic gas-lift having an adjustment stroke of 9.2 ± 0.3 cm. PEDESTAL ASSEMBLY: The pedestal is injection molded in glass-filled Poly- amide and fitted with 5 nos. twin wheel castors. The pedestal is 66.0±0.5 cm. pitch centre diameter and 76.0±1.0 cm. with castors. TWIN WHEEL CASTORS: 5 nos. twin wheel castors are injection molded in Poly-amide having 5.0±0.1cm wheel diameter and assembled to the pedestal. The product should have Greenguard (by UL), Indoor Advantage Gold, BIFMA Level-2 and Greenpro Certification and the manufacturer should have ISO 9001:2015, ISO 50001:2018, ISO 45001:2018, ISO 14001:2015 (All ISO certificate must be from NABCB/IAF recognized accreditation body), IGBC Platinum & AIOTA certification</p>		
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Waiting Lounge Chair:

Sr. No.	Description	Compliance	Remarks
1	<p>Supply & Placement of Waiting lounge chair with cushion and Handle set of 3 as per the following specification. The seat shell should be a welded assembly of seat,back and side frame. The seat and back should be made of 0.12±0.013cm thick CR steel sheet with oblong perforations.They should be welded to sideframe of size 3.2±0.05cm x 0.5 ± 0.05 cm thick HR steel.The welded assembly should be powder coated (DFT 40-60 microns). The seat has a front water fall edge to provide popliteal clearance for comfortable seating. It also has a buttock support curve that not only provides rear support but also prevents small children from falling through the gap between seat and back. Clean and flat surfaces of seat and back aids in easy maintenance. * SEAT SIZE : 47.8 cm (W) x 44.6 cm (D) * BACK SIZE : 41.6 cm (W) x 23.0 cm (H) Understructure assembly conssshould be ts of connecting beam and leg assembly made of M.S. E.R.W. oblong tube of size 7.5±0.03cm x 2.5±0.03cm x 0.2±0.016cm thk.The welded structure assembly should be powder coated (DFT 40-60 microns).The leg assembly should be fitted with shoes and levellers in Nylon. The leg structure should be designed with minimal should be a of contact close to ground providing easy access for cleaning purposes. The shoes fitted to leg assembly help in aligning the structure for back to back arrangements. Levellers take should be of uneven flooring.Connecting beam should be fitted with snap locking end cap.It also aids in side-by-side understructure alignment . Armrest assembly conssshould be ts of armrest frame and armrest pad . The armrest frame should be made up of size 3.175±0.05cm x 0.47±0.027cm thk HR steel and it should be powder coated (DFT 40-60 microns). Armrest pad should be injection molded in Nylon and should be fitted onto the armrest frame. The cushions for seat and back should be made up of 1.5 ± 0.1 cm</p>		

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	thk foam on a flat MR grade ply 0.8±0.04cm thick and should be upholstered with leatherite. The manufacturer should have ISO 9001:2015, ISO 50001:2018, ISO 45001:2018, ISO 14001:2015 (All ISO certificate must be from NABCB/IAF recognized accreditation body), IGBC Platinum & AIOTA certification.		
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Stool:

Sr. No.	Description	Compliance	Remarks
1	Supply & Placement of High Stool with small back rest for Instructor behind podium as per the following specification. SEAT ASSEMBLY: The seat should be made up of 1.2±0.1cm thick flat plywood and with molded Polyurethane foam and should be upholstered with replaceable synthetic leather covers. SEAT SIZE: Diameter 40.0 cm. ADJUSTMENTS: 360° Revolving type. BACK ASSEMBLY: The back foam should be designed with contoured Lumbar support for extra comfort. The upholstery should be available in synthetic leather. *BACK SIZE: 45.0 cm (W) covered with polyurethane foam. HIGH RESILIENCE (HR) POLYURETHANE FOAM: The HR polyurethane foam should be molded with density = 45 +1-2 kg/m ³ and Hardness load 16 ± 2 kgf for 25% compression. HEIGHT ADJUSTMENT: The manual height adjustment should be very easy to operate with a help of a knob. It can be easily locked at the most comfortable position. PEDESTAL ASSEMBLY: The five-prong pedestal should be fabricated from 0.2 ±0.02 cm thick HR sheet. (should be DD 1079 / HR), powder coated (DFT 40-60 microns) and fitted with an injection molded black Polypropylene Hub Cap and 5 nos. twin wheel castors. The pedestal should be 55.0±0.5cm pitch-circle-diameter- (65.0±1.0cm-with-castors).-Circular-foot-ring of 052.0±0.2cm made up of 01.9±0.2 x 0.12±0.0096cm thick MS ERW Tube for foot support in High-base stool. TWIN WHEEL CASTORS: The twin wheel castors should be injection molded in Black Nylon. The manufacturer should have ISO 9001:2015, ISO 50001:2018, ISO 45001:2018, ISO 14001:2015 (All ISO certificate must be from NABCB/IAF recognized accreditation body), IGBC Platinum & AIOTA certification		

Interactive Panel:

Sr. No	Item	Details Specification	Compliance	Remarks	
1	Interactive Panel 86"	Active Screen Size ("inch)	86"		
		Panel Type	IPS (DLED)		
		Display Ratio	16 : 9		
		Resolution	3840 x 2160 or better		
		Display Colors	10 bit or better		
		Brightness	440nit(w/o Glass, max)		
		Contrast Ratio (Typical)	"1200:1		
		Touch Response Time	5ms		
		Response Time (Typical)	8ms (G to G) Panel Response Time		
		Viewing Angle	178° x 178°		
		Display Orientation	Landscape		
		Speakers	Inbuilt		
		Max. Power Output	2x15 Watts		

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Sr. No	Item	Details Specification	Compliance	Remarks
		Speaker Position	Seamlessly mounted in lower side of the display. Front facing, Forward through	
		Touch Technology Deployment	Inbuilt Touch and No overlay is allowed	
		Touch Sensor	Advanced IR	
		Surface material of touch surface	Anti-Glare & Anti-Finger Print Glass	
		Protection	3M Antiglare	
		Touch Screen Writing Tools	2 x Touch Pen included and Finger Both	
		Positioning Accuracy	±1mm	
		Transparency	88% or better	
		Surface Hardness	9H or better	
		HID Support	Yes	
		Touch Points in Windows	40 Touch Points	
		Touch Points in Embedded OS	32 Touch Points	
		Writing Tool	2 x Touch Pen included and Finger Both	
		Communication Interface	Inbuilt USB-A type	
		Ports	3x HDMI In, 1xHDMI Out, 1x VGA, 2xTouch USB Out,RJ45 LAN In, RJ45 LAN Out, RS232C In/Out, 4xUSB 3.0, 1xUSB 2.0, 1xUSB Type-C, Audio In, Audio Out Optical SPDIF	
		OPS Slot	OPS Slot Inbuilt	
		Multimedia File Formats Supported	Support all major types of multi-media files	
		GUI - Graphic User Interface	Android OS with GUI	
		Software Features	Software must support all basic features like Pen selection, width selection, Color change, Background change, erase, Multiple page navigation, saving of file in PDF and JPEG. Split-Screen with Input source.	

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Sr. No	Item	Details Specification		Compliance	Remarks
		Special software Features	Whiteboard software should give option to navigate page with 2 fingers without using menu. Special eraser to erase while writing without selecting menu. EDLA Certified, play store		
		Customized GUI	User can easily customized their own background and logo's		
		Multimedia File Formats Supported	Support all major types of multi-media files		
		RAM	8GB		
		ROM	64GB		
		Android Version	Android 13 - Google EDLA Certified		
		Android resolution	4K		
		Device Mangement Software	Option should be available		
		Working Temperature/Humidity	0°C-40°C/20~80%RH(Non coagulation)		
		Manufacturer's authorization	The bidder must submit the authorization certification		

OPS:

Sr. No	Item	Details Specification		Compliance	Remarks
1	OPS	Processor	12 th Gen Core-i5 Processor		
		RAM	8 GB DDR -4		
		Storage	512 GB SSD		

Large Format Display 55":

Sr. No	Item	Details Specification		Compliance	Remarks	
1	Large format Display LFD	Display	Size	55 inches		
			Resolution	3840x2160		
			Refresh Rate	60Hz		
		Video	HDR_HDR 10 Pro	Yes		
			HDR_HLG	Yes		
		Audio	Audio Output	10W+10W		
			Speaker System	2.0Ch		
			AI Sound/Pro	AI Sound(Virtual 5.1 Up-mix)		
		Smart Function	Processor	Alpha 5		
			Home Dashboard	Yes		
			Web Browser	Yes		
			Pre Loaded App (Like Amazon, Hotstar, Netflix)	Yes		

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Sr. No	Item	Details Specification		Compliance	Remarks
			etc)		
			Magic Remote Compatibility	Yes	
		Key Features	USB Cloning, App blocking, IP Control, Input Locking	Yes	
		Connectivity	HDMI Earc	Yes	
			Wi Fi	Yes	
			Screenshare (Miracast)	Yes	
			DIAL	Yes	
			Air Play	Yes	
			Bluetooth	Yes	
			Google Assistant	Yes	
			Amazon Alexa	Yes	
			Voice Recognition	Yes	
		Ports	HDMI	3	
			RF In	1	
			USB	2	
			RJ45	1	
		Power	Voltage	AC-100-240V,50-60Hz	
			Standby	Under 0.5 W	
		Remote type	Magic Remote	Yes	
		Warranty	3 Years	Yes	

32" Display:

Sr. No.			Details Specification		Compliance	Remarks	
1	PANEL	Screen Size		32"			
		Panel Technology		IPS			
		Back Light Type		Direct			
		Aspect Ratio		16:9			
		Native Resolution		1920 x 1080 (FHD)			
		Refresh Rate		60Hz			
		Brightness		400nit (Typ.)			
		Contrast Ratio		1,100:1			
		Dynamic CR		1,000,000:1			
		Color gamut		NTSC 68%			
		Viewing Angle(H x V)		178 x 178			
		Color Depth		10-bit(D), 1.07Bilion colors			
		Response Time		10ms (G to G)			
		Surface Treatment(Haze)		1%			
		Life time		50,000Hrs			
		Operation Hours (Hours/Day)		24/7			
		Portrait / Landscape		Yes / Yes			
		Connec tivity	Input	Digital	HDMI	Yes(3), HDCP2.2	
	External Control			RS232C IN	Yes(1), Phone-jack		
				RJ45(LAN)	Yes(1)		
IR IN				Yes(1), Phone-jack			

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Sr. No.	Details Specification			Compliance	Remarks		
		USB		USB2.0 Type A(1)			
		Audio Out		Yes (1, Off/Fixed/Variable)			
		RS232C IN		Yes(1), Phone-jack			
		Weight(Head)		5.7Kg			
		Monitor Dimension(W x H x D)		729.4mm x 428.9mm x 55.5mm			
	Key Feature	HW	Internal Memory		8GB		
			Wi-Fi	Built-in	Yes		
			Sensor	Temperature Sensor		Yes	
				Auto Brightness sensor		Yes	
			Local Key Operation		Yes		
		SW	OS		webOS6.0		
			Embedded CMS	Local Contents Scheduling		Yes	
				Group Manager		Yes	
			USB Plug & Play		Yes		
			Fail over		Yes		
			Background Image	Booting Logo Image		Yes	
				No Signal Image		Yes	
			Sync Mode	RS-232C Sync		Yes	
				Local Network Sync		Yes	
			Screen Share		Yes		
			Play via URL		Yes		
			Rotation	Screen Rotation		Yes	
				External Input Rotation		Yes	
			Gapless Playback		Yes		
			Setting Data Cloning		Yes		
	SNMP		Yes				
	ISM Method		Yes				
	Auto Set ID		Yes				
	Status Mailing		Yes				
	Control Manager		Yes				
	Crestron Inside		Yes				
Power	Smart Energy Saving		Yes				
	PM mode		Yes				
	Wake on LAN		Yes				
	Network Ready		Yes				
Beacon		Yes					
HDMI-CEC		Yes					
SI Server Setting		Yes					
webRTC		Yes					
Pro:Idiom		Yes					

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Sr. No.	Details Specification		Compliance	Remarks
	Environment Conditions	Operation Temperature	0 °C to 40 °C	
		Operation Humidity	10 % to 80 %	
	POWER	Power Supply	AC 100-240V~, 50/60Hz	
		Power Type	Built-In Power	
	Power Consumption	Typ.	55W	
		Max.	75W	
		BTU (British Thermal Unit)	188 BTU/Hr(Typ.), 256 BTU/Hr(Max.)	
		Smart Energy Saving	38.5W	
		DPM	0.5W	
	SOUND	Power off	0.5W	
		Speaker	Yes(10W x 2EA)	
	CERTIFICATION	Safety	CB / NRTL	
		EMC	FCC Class "A" / CE	
	Accessory	Basic	Remote Controller(include battery 2ea), Power Cord, QSG, HDMI Cable, Phone to RS232C Gender	
	Warranty		3 years	

Digital Podium: Material:

Sr. No.	Item	Details Specification	Compliance	Remarks
1	Digital Podium: Material:	Mild Steel; Should have Tray for Keyboard. (Keyboard Dimension Standard Lenovo Keyboard) 21" Interactive Panel. It should also have the flexible options in sizes for the 19" or 22" Interactive Panel to fit in. Interactive Panel positioning motorized up and down as per the user convenience. The top should be of wood. Should have a space for the Desktop in the 19" rack for the equipments to fit in as per the International standards. Sliding Shelf/Tray with Locks - For placement of extra lap top and for Presenter with Internal Lock. It should have 3 options in lock- Manual key, RFID and Biometric (finger) for better security and ease of use. The single sliding wooden shelf should cover all equipments - Interactive Monitor, multimedia controller and it should have the option of Document camera and it should be also be covered under the shelf. They should be hidden and should not be visible. It should have door locks. It should the option to install Visual Presenter or Document Camera and it should have the option that it should get placed next to the interactive monitor for ease of use of both the items. Programmable Central Control System: Should be able to control from the Controller with easy identified keys - Projector on Off, Switching between PC, Visual Presenter and laptop, Volume Control. Ports and connectivity: - Front Panel should have touch sensing keys for Control, the controller should get on with a touch of smart key so only authorise person can operate it. Power Plug Of 220 Volt Power out for Laptop etc., HDMI Input x 1, VGA Input Port X 01, Audio port x 2, Network Port wired Internet x 01, USB X 01 Ports		

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Sr. No.	Item	Details Specification	Compliance	Remarks
		to facilitate inputs directly from Pen Drives / USB based hard disk Drive. Back Panel of the Controller should have, 1 x RS 232 Projector Control, 2 x 2 VGA matrix, 2 HDMI Input and 2 HDMI Output, 1 USB Ports for front Connectivity, 1 Audio for PC, 1 Audio in for Visualizer, 2 x Audio out, 1 x Projector Power, 1 x Screen Power. The Interactive Monitor touch should work independently for the both Laptop and PC. Whichever source is selected PC/Laptop when both are connected to the Podium the content should appear on Interactive Panel along with touch activated of the selected source, automatically without detaching or attaching a cable. Additional Ports: On the left side of the podium. 1 x Power Plug, 2 x USB 2.0, 1 x HDMI, 1 x VGA, 1 x LAN, 1 x Mono, 1 x Audio Video. Connectivity Ports at the bottom 1 x LAN, 1 x VGA, 2 x HDMI, 1 x Power Plug. Interactive Panel: Panel Type: Active Matrix Colour LED; Display Size :21", Resolution: 1920 x 1080; Colours :16.7 M, Contrast :800:1; Inputs: HDMI or better input; Technology: Electromagnetic with Pen; Interface: USB; Pressure Sensitivity :2048 Levels; Data Report: 125 reports / per second; Accuracy: ±0.5mm; Max Reach Height: 8mm. Audio – 1x Gooseneck Microphone.		

Tracking Camera:

Sr. No.	Item	Details Specification	Compliance	Remarks
1	Tracking Camera	should follow the faculty as per the movement Zoom: Minimum 20X Optical Zoom ; Iris: f=4.7~94mm ; F1.6 ~ F3.5; Viewing Angle: 2.9° (tele) –55.4° Wide; Sensor : 1 /3 inch or better CMOS sensor; Pixels : 2.07 Mega Pixel ; Video Formats: 1080P60/50/30/25/59.94/29.97 ; 1080I60/50/59.94. 720P / 50 / 30 / 25 /59.94/29.97; Minimum illumination : 0.5 Lux;DNR : 2D & 3D DNR; White Balance : Auto/Manual/one push / 3000K / 4000K 5000K / 6500K; Focus :Auto/Manual ; BLC : ON/Off; WDR : Off/Dynamic level adjustment; Video Adjustment : Brightness, Color, Saturation, Contrast, Sharpness, B/W mode, Gamma curve; SNR : >55 dB; Panoramic Camera: Sensor 1/3 inch high quality HD CMOS sensor; Effective Pixels: 2.1 Megapixel; lens: Manual Focus; View Angle (D/H/V): 122°/98°/73°; Input / Output : Video Interface: HDMI x 2, LAN Port x 2, USB x 2, RS 232 x 2 ; Network Interface: 100M network interface (10/100BASE-TX) 5G , LAN, RS232/485; Video Compression Format : H.264/H.264+ ; Compress Image Code Stream : Dual stream output; Control Protocol : VISCA/PELCO-D/Pelco-P; Baud Rate : 11520/9600/4800/2400; LAN Port : Yes ; Network Protocol : RTSP/RTMP/ ONVIF, GB/T28181;Pan Rotation : -170°~+170°;Tilt Rotation : -30°~+90°; Pan Control Speed : 0.1~80°/second ; Tilt Control Speed : : 0.1~60°/second ; Preset Speed : Pan: 80°/second, Tilt 60°/second ; Preset Number : 255 preset		

PTZ Camera:

Sr. No.	Item	Details Specification	Compliance	Remarks
1	PTZ Camera	USB based : Yes; Zoom : Minimum 20X Optical Zoom; Digital 16X; Iris: f=5.5~110mm ; F1.6 ~ F3.5;Viewing Angle:3.3° (tele) –54.7° Wide ;Sensor:1 /2.8inch or better CMOS sensor; Mega Pixels:2.07 ; Video Format: SDI Video		

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Sr. No.	Item	Details Specification	Compliance	Remarks
		Formats: 1080P60/50/30/25/59.94/29.97 ; 1080I60/50/59.94. 720P / 50/ 30 / 25 /59.94/29.97; Minimum illumination:0.5 Lux ; DNR:2D & 3D DNR; White Balance :Auto/Manual/One push 3000K / 3500K / 4000K / 4500K / 5000K / 5500K / 6000K / 6500K /7000K; Electronic Shutter : Auto/Manual; Focus : Should be Auto/Manual/One Push; BLC:ON/Off; WDR : Off/Dynamic level adjustment; Video Adjustment: Brightness, Color, Saturation, Contrast, Sharpness, B/W mode, Gamma curve; SNR : >55 dB; Interface : USB 2.0 x1 , USB 3.0 x1, LAN x1, RS232 x 1, HDMI x 1 ; Audio InVideo Compression Format:H.265/H.264 ; Control Protocol: VISCA/PELCO- D/Pelco-P; Baud Rate : 11520 / 9600 / 4800 / 2400 ; LAN Port :Yes; Network Protocol: RTSP/RTMP/ ONVIF, GB/T28181; Pan Rotation:+ 170° Tilt Rotation :-30°~+90° ; Pan Control Speed: 0.1~60°/second ;Tilt Control Speed : 0.1~30°/second ;Preset Speed: Pan: 60°/second, Tilt 30°/second ;Preset Number:255 preset		

Ceiling Mount for camera:

Sr. No.	Item	Details Specification	Compliance	Remarks
1	Ceiling Mount for camera	Ceiling Mount for camera		

Camera switcher:

Sr. No.	Item	Details Specification	Compliance	Remarks
1	Camera switcher:	It should be dual channel video switcher mixer for the streaming generation, mini-pro features four resolution independent inputs – three up to 2K and one up to full 4K@60 to take advantage of native high-performance sources, whether cameras or laptops, without compromising on quality; It should have presets for PIP and PBP , it should also include full pixel-to-pixel scaling capabilities for both the PIP and background video layers ; It should have Audio for output should be selectable from embed ,It should have built-in LCD display just not to only shows video preview, but it should be touch enabled for day to day operation of features and settings. ; It should have features including dynamic output control, preview multi-view, picture in picture, Chroma Key, video transitions, on board PTZ camera controls etc.; Stream : It should have superspeed USB3.0 streaming in which just by connecting the device to a laptop or other device it should stream quickly and easily to various social media and streaming platforms as well as a vast array of popular collaboration applications.; Go Live : It should be able to display local and live with the 2K HDMI output port – which should be used for a preview or the live program output. It should be more than a streaming switcher and should also be a live event switcher; Record: It should be able to from dedicated USB port to capture, record video and audio directly from the device with any portable HDD up to 2TB.; Control : It should have on board control for PTZ cameras directly within the device. It should save attribute views of cameras for recall at the touch of a button.; Preview : It should be able showcase all sources live immediately in the builtin LCD display. It should have the facility to get connected to a video output and should display a multi- view preview to always see the next preset before going		

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		live.; Mix : It should have transition and switch between live video program and preset. It should be able to recall saved preset views along with scaled video layers.		
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Ceiling Microphone Array:

Sr. No.	Item	Details Specification	Compliance	Remarks
1	Beamforming Ceiling Microphone Array	Beamforming Ceiling Microphone Array for Conferencing and Sound Reinforcement Application: True Frequency Invariant Beamformer: Gain response is unvarying across frequency, Software Configurable Beamwidths: Small, Medium and Large with Frequency Invariance, Wideband Beamforming range from 100Hz to 20KHz, Built in Acoustic Echo Cancellation per beam and Noise Cancellation upto 25dB with option to configure at an increment of 1dB, Microphone Array shall have deep sidelobe down to 45dB of depth, Dynamic Range: 20 Hz to 20 KHz, > 70 dB, Microphone shall offer built-in configurable functions such as Acoustic Echo Cancellation, Noise Cancellation, Filters, Automatic Level Control, Auto Mixer etc, Number of Configurable Beams: 6, 8, 10, 11, or 12, Shall provide a full 360deg coverage of any room supporting different patterns such as Circle/Square, Rectangular and Semicircle Classroom type configurations, Single Microphone Array shall be configurable of Coverage Sizes from Small 10ftx10ft upto 36ftx20ft, Ceiling Mount Height shall be software configurable from 7ft to 20ft, shall support ceiling grid flush type, surface and suspended column mount Installation methods, Shall support three different ceiling grid types: 24 in, 600 mm, and 625 mm, Amplifier with 4channels x 15watts each @ 8ohms or configurable to 2channels x 30watts @ 4ohms, PoE Injector shall be included as necessary to support the Beamforming Mic, AV network management platform to monitor, control, and audit both DSP Mixer and Beamforming Microphone Array shall be included, Microphone array shall provide Voice Lift in simple way to drive multiple mix-minus speaker zones allowing drive multiple mix-minus speaker zones allowing everyone in the room to hear every word, Voice Lift can be configured on up to three Ceiling Mic Tile array per DSP Mixer, The combination of beamforming technology and built in DSP Mixer feedback cancellation technologies shall provide up to a 20 dB boost in gain before feedback compared to an omni mic		

PoE Injector:

Sr. No.	Item	Details Specification	Compliance	Remarks
1	PoE Injector	shall be included and should be compatible with the Beamforming Mic to transfer sufficient data and power over a single output RJ-45 connector, PoE wattage should be sufficient as per the application to drive external amplifier speakers or In-built amplifier as per the solution		

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Wireless Lapel and Handheld Microphone:

Sr. No.	Item	Details Specification	Compliance	Remarks
1	Wireless Lapel and Handheld Microphone	It should consist of 1 Receiver x 1 , Wireless Microphone Handheld x 2, Wireless Lapel Microphone x 2 It should be UHF Band Frequency Dual Wireless Microphone System, It should have 80+ UHF selectable channels. It should support UHF Frequency Range: 583-683MHz or more The received Front panel should consist of Power On/Off Switch x 1, Volume Controls x 4 To adjust the Input signal level, IR Sensor x1, It should have Channel Frequency set button x 1, It should have 4 Display to indicate channel frequency and status. The Rear panel should consist of 4 Antenna, 3 Pin XLR female connector x 1, 6.35mm x 1 unbalanced out, Power jack x 1, Handheld Microphone should have Grill x 1, IR Window x 1, LED Screen x 1 Power ON/OFF Switch x 1. Wireless Lapel should have Body pack with Transmitter x 1, Mic Input x 1, Power On/Off Switch with LED Light, LED Screen x 1 for displays, Battery Compartment for 2, AA Batteries, Belt Clip x1, Lapel Microphone x1		

Ceiling Speakers:

Sr. No.	Item	Details Specification	Compliance	Remarks
1	Ceiling Speakers	Speaker type: 2-way, ceiling speaker with metal back can, Frequency range :65 Hz to 20 kHz, Power handling:60 Watts RMS,120 Watts PEAK, Nominal sensitivity 88 dB,1W@1m, Nominal coverage angle:110° conical coverage, Nominal impedance: 8 ohms, Transformer taps:70V:: 30W, 15W, 7.5W,3. 8W, 1. 9W, 8 ohms 100:null, 30W, 15W, Woofer: polypropylene cone with moisture resistant coating, Tweeter : silk dome, Overload protection: Full range power limiter with general the 8 ohm direct input only,protecting the tweeter,woof er, and crossover		

Amplifier:

Sr. No.	Item	Details Specification	Compliance	Remarks
1	Amplifier	Power Output 550W Max., 500W RMS at 10% THD, 440W RMS at 5% THD, Output Regulation 2 dB, no load to full load at 1kHz, Input Channels 7 X Mic. 0.65mV/4.7k Ohms , 2 X Aux 100mV/470k Ohms, Frequency Response 50-15,000Hz ±3dB, Signal to Noise Ratio 60dB , Tone Controls Bass ±10dB at 100Hz, Treble±10dB at 10KHz, Outputs Line: 200mV/600 Ohms, 1V/1k Ohms, Speaker Output 4 Ohms, 8 Ohms & 100V, Digital Player MP3 Player with USB, SD Card & Bluetooth, Power Supply AC: 220-240V 50/60Hz , DC: 12V, Power Consumption : AC : 250VA DC : 4A, Power Consumption AC : 250VA DC : 4A, Consist of USB Pen drive Port, SD Card Plug and Play, Compatible with Radio & Bluetooth, EQ & Recording, 7 Channels Microphone Inputs, 2 Channels Aux Inputs, 1 Channel Line Output. 100V Constant Voltage Output and 4Ω \ 8 Ω \16 Ω Resistance Output.		

Digital Sound Processor:

Sr. No.	Item	Details Specification	Compliance	Remarks
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1	Digital Sound Processor	Audio Conferencing System supporting VoIP, Telco,USB Audio, Line Audio, and Beamforming Ceiling Microphone Array: Digital Sound Processor with built in Acoustic Echo Cancellation, Noise Cancellation, AutoMixing, Digital Audio Matrix for Conferencing and Sound Reinforcement Application, 4Nos Mic/Line AEC Inputs with additional support to connect upto three beamforming microphone arrays through Digital connectivity, Distributed Echo Cancellation per Mic Input, Noise Cancellation upto 25dB with option to configure at an increment of 1dB, 8Nos Mic/Line Outputs, Frequency Response : 20Hz to 22KHz Full Spectrum Support, Support for VoIP Conferencing upto Five SIP Phones in a single DSP with compatibility to major PABX platforms such as Cisco, Avaya, Shoretel, Mitel etc, PSTN [POTS] Line Connectivity for Analog Conferencing Application , Software Dialer for VoIP and PSTN connections shall be provided for Windows PC,iOS,Android platforms, Stereo USB Audio support for PC based conferencing such as COLLABORATE Space, Webex, MS Teams, Zoom, GoogleMeet etc, Shall have built-in configurable functions such as AutoMixer, Matrix Mixer, Filters, Delays, Compressors, Feedback Eliminators, Graphic Equalizers, Automatic Gain/Level Control etc, Ethernet, RS232 and GPIO ports for control and monitoring functions		
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Controller System:

Sr. No.	Item	Details Specification	Compliance	Remarks
1	Controller System	Controller System		

Programming for controller:

Sr. No.	Item	Details Specification	Compliance	Remarks
1	Programming for controller	Programming for controller		

Wireless Presentation Device:

Sr. No.	Item	Details Specification	Compliance	Remarks
1	Wireless Presentation Device	Wireless Presentation Device: Video: H.264 compression; Audio: LPCM 2.0; Resolution: Up to 1080p30 resolution; Ethernet: 10/100/1000-BASE-T RJ-45 LAN; Wireless: Miracast P2P: 802.11ac dual-band non-DFS, Infrastructure: 802.11n dual-band non-DFS; Authentication: WPA-PSK (TKIP), WPA2-PSK (AES), PEAP-MSCHAP V2 (TLS 1.0) and EAP-TLS (TLS 1.0); Interfaces: 1 x HDMI Output, 1 x VGA Output, 1 x VGA Input (Pass-through), 1 x Analog 3.5mm audio output, 1 x USB 2.0, 1 x DC Power Jack; Content Protection: HDCP 2.x; Power: Input: 5VDC, 2A Consumption: Less than 5W;		

Matrix Switcher:

Sr. No.	Item	Details Specification	Compliance	Remarks
1	Matrix Switcher:	Matrix Switch supports 4K resolutions of UHD (3840 x 2160) and DCI (4096 x 2160) with refresh rates of 30 Hz (4:4:4) and 60 Hz (4:2:0),Video Input Interface: 4 x HDMI Type A Female (Black), Impedance: 100 Ω, Max Distance: 5 m, Video Output Interface: 4 x HDMI Type A Female (Black), Impedance: 100 Ω, Max Distance: 15 m, Video Max Data Rate: 10.2 Gbps (3.4 Gbps Per Lane), Max Pixel Clock: 340 MHz, Compliance: HDMI (3D, 4K, Deep Color) HDCP 1.4 Compatible Consumer Electronics Control, Max Resolution: Up to 4096 x 2160 / 3840 x 2160 @ 60 Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30 Hz (4:4:4), Max Distance: Up to 15 m, Control RS-232: Connector: 1 x DB-9 Female (Black) Baud Rate and Protocol: Baud Rate: 19200, Data		

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		Bits: 8, Stop Bits:1, Parity: No, Flow Control: No, USB: 1 x Micro USB, F/W Upgrade, IR: 1 x Mini Stereo Jack Female (Black), EDID : EDID Mode: Default / Port1 / Remix, Connectors: 1 x DC Jack (Black), Power Consumption: 5 VDC, 10.58 W.		
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Distribution Amplifier:

Sr. No.	Item	Details Specification	Compliance	Remarks
1	Distribution Amplifier	Distribution Amplifier 1 HDMI In 4 HDMI Out.		

HDMI Extender:

Sr. No.	Item	Details Specification	Compliance	Remarks
1	HDMI Extender	HDMI Extender (Supports 50 Mtr. and above).		

Recording Streaming software

Sr. No.	Item	Details Specification	Compliance	Remarks
1	Recording Streaming software	Recording Streaming software		

Desktop Computer:

Sr. No.	Item	Details Specification	Compliance	Remarks
1	Processor Make	Intel		
	Processor Generation	12.0 Or higher		
	Number of Cores per Processor	6		
	Processor Description	Intel Core i7		
	Processor Number	Intel Core i7 12100		
	Operating System (Factory Pre-Loaded)	Windows 11 Professional		
	RAM Size (GB)	16		
	RAM Expandability up to(using spare DIMM Slots in GB)	64		
	Type of Drives used to populate the Internal Bays	SSD		
	Total HDD Capacity (GB)	1000		
	Total SSD Capacity (GB)	512		
	Cabinet Form Factor	Tower (13.1 to 26 Litres)		
	On Site OEM Warranty (Year)	3		
	Total 8 USB port, with 2 USB of 10 GBPS Port, 6 No's USB Port is required in Front	Total 8 USB port, with 2 USB of 10 GBPS Port, 6 No's USB Port is required in Front		
	CPU should have the expandability upto 2 TB HDD and 1 TB PCIe® NVMe M.2 SSD	CPU should have the expandability upto 2 TB HDD and 1 TB PCIe® NVMe M.2 SSD		
180 W with 92% efficiency or better	180 W with 92% efficiency or better			
Hardware based endpoint security controller TPM 2.0, Microsoft Windows 11 FCC, CE, RoHS, UL, EPEAT, Energy Star, TCO 08 - Display	Hardware based endpoint security controller TPM 2.0, Microsoft Windows 11 FCC, CE, RoHS, UL, EPEAT, Energy Star, TCO 08 - Display			
No More than 16 L and 5.5 Kg	No More than 16 L and 5.5 Kg			

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CCTV Camera:

Sr. No.	Item	Details Specification	Compliance
1	Image Sensor	5 MP Dome camera 1/2.8" Progressive Scan, CMOS Sensor or Better	
2	Supported resolutions	2593 X 1944,2592 X 1520,2048 X 1536, 1920 X 1080,720p,D1,2CIF,VGA,CIF	
3	Video Compression	H.264, H.265, MJPEG or Higher	
4	Video Standard	PAL/NTSC	
5	Number of Streaming profiles support	Profile 1: 2592 x 1944 @30fps (H.264/H.265) Profile 2: D1 @30fps (H.265/H.264) Profile 3: 2048x1536 @8fps (MJPEG) or D1/VGA@15fps(H.264/H.265) Profile 4: 1920 x 1080 @30fps (H.265/ H.264/ MJPEG)	
6	Bitrate	128kbps-16Mbps or Better	
7	Adaptive streaming	Should Support	
8	Unicasting/ Multicasting	Support of Unicasting and Multicasting shall be provided	
9	Shutter speed	1/15s-1/100000s or Better	
10	Minimum Illumination	Colour - 0.01 Lux @(F1.2 AGC ON) Black & white - 0 Lux or Better	
11	Signal to Noise Ratio (SNR)	70dB or better	
12	Lens focal length	2.8 mm Lens HFOV - 107.6°, VFOV - 57.°, DFOV - 127.62°	
13	Built In IR irradiance upto	Min 30mtrs or better	
14	Zoom	16x Digital Zoom	
15	Audio Input	IN-built Microphone	
16	Audio Output	1 Output port	
17	Audio Compression	G.726 ,G.711 a-law and u-law	
18	Day/Night Camera Switching	Should Support	
19	Network Failure recording	In case of Network failure, the Camera shall start recording on NAS or SD Card, which can be retrived back when the network connectivity restores (ANR)	
20	Edge Storage	512 GB Onboard storage or better	
21	Network Connectivity	10Base-T/100BaseTX Ethernet (RJ-45)	
22	Supported Network Protocols	TCP/IP, UDP, HTTP, HTTPS, DHCP, DNS, DynDNS, DDNS, RTP, RTCP, RTSP, PPPOE, SMTP, NTP, SNMP, FTP, TLS/SSL, SFTP, ICMP, IGMPv2 & v3, ARP, 802.1x, IPv4, IPv6, QoS Layer 3, DSCP, CIFS, SSH, UPnP, Bonjour	
23	Data Encryption	All data, including sensitive data, is encrypted with AES and RSA	
24	IP Address Filtering	Should Support	
25	HTTPs Streaming	Should Support	
26	Edge Data Encryption	Should Support	
27	Network Authentication	802.1x Network authentication	
28	Video Content Analytics (VCA)	Detection: Motion Detection, View Tamper Detection, Trip/No Trip Detection, Object Intrusion/ Zone Intrusion IP Conflict, Network Disconnect, Storage Full, Alarm In Alert Support: IP conflict, Network disconnect, storage full, time triggered, Manual Trigger.	
29	Back light Compensation (BLC)	Should Support	
30	Wide Dynamic Range	120 dB or Better	

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Sr. No.	Item	Details Specification	Compliance
31	Image Enhancement	Saturation, Contrast, Sharpness, Brightness, Auto Exposure, Gamma, White balance, Intelligent Defog	
32	Noise Reduction	2 DNR, 3 DNR	
33	Power	POE (802.3af/at), 12 V 2A or Better	
34	Operating Temperature	~30°C- +60°C or better	
35	Operating Humidity	95% or less	
36	Ingress Protection	IP67	
37	Impact protection	Yes, IK10 Rated Metal Housing	
38	MAC Address	The MAC address of the camera shall be registered in the name of the OEM, and it must be registered in India.	
39	ONVIF Compliance	S,G & T, The IPCamera make and model shall appear on the ONVIF Conformant products List	
40	Regulatory Approvals/ Certifications To be attach	FCC, BIS, CE , RoHs,NDAA, Cyber Security Certified by STQC to meet the essential requirement issued by MeitY	
41	IP camera & NVR	Should be same Make	
42	Plug and Play	The IPCAM shall get connected to the destined NVR/VMS when plugged in the network with adding from NVR or VMS	

8 Port NVR:

Sr. No.	Details Specification		Compliance	Remarks
1.	SYSTEM			
	Control Mode	Desktop Client, Mobile Client and Local client (Through HDMI)		
	OS	Embedded Linux		
	Processor	quad-core 64-bit Cortex-A55 processor		
	VIDEO AND AUDIO			
	Video Input	8 IP channels		
	Video Output	HDMI (2.0) – 1 Port (Main)		
	Video Compression	H.265/H.264/ Motion JPEG		
	Audio input	1 Channel, RCA Port		
	Audio Output	1 Channel, RCA Port		
	Audio Compression	G.711u		
	Two-way Audio	Required		
	DISPLAY			
	Recording Resolution	Up to 12 MP		
	Decoding Resolution (on local display)	2x 4K/8x 1080p/16x 720p/ 36x D1 @ 30FPS		
	Split (Through LAN/HDMI)	1x1, 2x2, 3x3, 4x4, 1+5, 1+7, 3+4, 2+8, 1+12, 1@+12, 1+9, 4+9,2+12, 5x5, 6x6 and Sequential		
	Digital Zoom	Both live view & Playback		
	OSD	Channel Number, Name, Bit rate, video loss		
	Snapshot Format	JPEG		
	Recording type	Continuous, Scheduled, Manual, Alarm		
	Bandwidth Optimization	Yes		
	PLAYBACK AND BACKUP			
	Synch. Playback	4 channels		
	Search Mode	Date & Time, Camera, Recording Type, Recording Drive		
	Playback Modes	Fast Forward, Slow Forward, Slow Reverse, Fast Reverse at Different Speed Control, Next-Previous Frame		

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Sr. No.	Details Specification		Compliance	Remarks
	Backup	Manual Backup & Scheduled Backup		
	Configuration Backup	Required		
	Remote Operations	Monitor, PTZ Control, Playback, System Setting, File Download, Log Information, Upgrade		
	VIDEO DETECTION AND ALARMS			
	Camera events	Motion Detection, Recording Start, Recording Fail, Camera offline, Camera online		
	System events	Manual Trigger, On Boot Alarm, Storage Alert, Disk Volume Full, Disk Fault, Scheduled Backup Fail		
	Actions	Recording on Selected Channel, Upload Images on FTP/Email server, Email Notification with Snapshot, TCP Notification, Recall PTZ Pre-set Position, Turn On/Off Alarm Outputs, Buzzer Notification, SMS Notification		
	DEVICE STATUS			
	Camera status, Manual recording, Scheduled recording, Alarm recording, Adaptive recording	Required		
	FPS and GOP count	Required		
	Motion detection, View tampering, Tripwire, Object intrusion, Missing Object, Suspicious Object, Loitering Detection, Audio Exception, Object Counting	Required		
	CPU usage display	Required		
	CPU temperature display	Required		
	Thermal shutdown	Required		
	STORAGE			
	SATA Interface	1 SATA III (10TB per port)		
	NAS	2 NAS (CIFS, NFS)		
	Recording Retention	Camera wise, HDD usage % wise, Day wise		
	NETWORK			
	Incoming Bandwidth	180 Mbps		
	Outgoing Bandwidth	180 Mbps		
	Maximum User	128 Programmable		
	Simultaneous login	9		
	Network Protocols	TCP/IP, DHCP, PPPOE DNS, DDNS, DNS, FTP, SMTP, NTP, RTP/RTSP, CIFS/NFS, Network Acceleration		
	INTERFACES			
	Audio Input	1 Channel, RCA Port (1V RMS)		
	Audio Output	1 Channel, RCA Port (0.5V RMS)		
	Alarm Input	2 Ports (Max. load resistance: 4.7 KΩ)		
	Alarm Output	1 Port (Max load power: <50VA, Max load current: <1A)		
	Network Interface	1 Ports x Ethernet (RJ-45) 10/100/1000Mbps		
	USB	3 ports (2 x USB 2.0, 1x USB 3.0)		
	Number of SATA Interface	1 Ports (SATA III)		
	HDD size	10 TB HDD support (with 6Gb/s speed)		

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Sr. No.	Details Specification		Compliance	Remarks
	HDMI	HDMI (2.0) – 1 Port (Main)		
	Reset Switch (Network, User account and General settings)	Required		
	Buzzer	Required		
	CERTIFICATION			
	Regulatory Approvals/ Certifications	FCC,BIS		
	ELECTRICAL AND MECHANICAL			
	Operating temperature	0°C to +50°C (32°F to 122°F)		
	Humidity range	5% to 95% RH Non-Condensing		
	Power input	12VDC, 5A		
	Chassis	19" Rack mount		
	Power consumption (without Hard disk)	5W Typical		
	It Should be Possible to configure, playback & live streaming of cameras added to other NVR from the main NVR without need of any Server/workstation.			
	The system should be capable of integrating with IP cameras of any brand which support ONVIF 2.0 & above or ONVIF S profile.			
	it should be possible to define a different number of Retention days for individual cameras.			
	NVR should have a configuration wizard for quick configurations.			
	NVR should show the estimated number of storage days.			
	Device must be capable of taking Snapshot with integrated Access control and time attendance system of the same brand in case of user allow/denied events.			
	Digital Zoom during live view.			
	The system should be able to take a Snapshot during live view/ playback in JPEG format.			
	The Device Must Provide Configuration Backup.			
	It Should Have its Own Free DNS Server.			
	Video pop-up for both Desktop and Local client.			
	3 User Access Levels (Default): Admin, Viewer and Operator			
	10,000 Events Log			
	NVR Should Be Capable of Exporting Files in Native and AVI File Format to FTP and USB.			
	NVR should have IP Address Filtering to Enhance Security.			
	System Admin Should Be Capable of Programming PTZ Tour.			
	Dual Stream Option Should Be Available for Simultaneous Recording and Transmission of Video on The Network Depending on The Bandwidth.			
	The system should support Daylight Saving Time (DST).			
	The Device Should Be Designed, Developed and Manufactured in India.			
	MOBILE CLIENT			
	Mobile application should be Provided by The Vendor Free of Cost with the NVR.			
	It should be possible to see the playback from a mobile client.			
	The Mobile client Should Have 4 x 4 Layout for Display cameras.			
	The Mobile client Should Have Digital Zoom functionality.			
	The Mobile client Should Be Able to Control PTZ Cameras.			

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Sr. No.	Details Specification	Compliance	Remarks
	The Mobile client Software Should Support Up To 50 NVRs.		
	Software Should Have Feature to Configure Camera as Favourite Channels.		
	Mobile Viewer Application Should Function on Android and IOS Based Phones.		
	Mobile Viewer Application Should Support Calling from Mobile App Feature Where a Mobile Number Can be Added Per Camera in the Device and The User Can Directly Call a Concerned Person by Just One Click on Camera View from Mobile(without any SIM card in NVR)		

24 Port PoE Switch:

Sr. No.	Item	Details Specification	Compliance	Remarks
1.	Hardware Specification	24 RJ-45 autosensing 10/100/1000 Class 4 PoE ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T);Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only		
		24 Port Switch - POE	24 RJ-45 autosensing 10/100/1000 Class 4 PoE ports with 4 SFP+ 1/10GbE ports	
	Uplinks	Four (4) dedicated 1G/10G SFP+ fiber ports ensure high performance and eliminate traffic bottlenecks across the network.		
		SFP/SFP+ Fiber connectivity		
	Switching Performance	128 Gbps		
	Switching Throughput	95.23 Mpps		
	Memory	Flash: 256 MB ; Packet Buffer: 1.5 MB		
		Ethernet Alliance Certified Class 4 PoE (PoE+; IEEE 802.3at)		
		Provides up to 30 W per port, which allows support of the class 4 PoE (i.e. PoE+) capable devices such as video IP phones, wireless access points, and advanced pan/tilt/zoom security cameras, as well as any 15.4 W IEEE 802.3af-compliant end device; mitigates the cost of additional electrical cabling and circuits that would otherwise be necessary in IP phone and WLAN deployment.		
		PoE to power APs and IoT devices like IP phones, surveillance cameras and door locks.		
		Auto-PoE power configuration		
		The switch automatically assigns the required power to a port for a PD device based on Link Layer Discovery Protocol (LLDP).		
		PoE Power allocation		
		Support multiple methods (LLDP-MED automatic, class of PoE, or usage-based) to allocate PoE power for more efficient energy savings.		
	Simplicity at its best	Auto MDI/MDI-X		
Adjusts automatically for straight-through or crossover cables on all 10/100/1000 ports.				
Convenient mobile app and web-based GUI for set up, management and troubleshooting.				
Plug-and-play switches that work together with APs right out of the box.				
	Mobile app to easily setup, monitor and manage network.			
	Built-in security			

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Sr. No.	Item	Details Specification	Compliance	Remarks
		Built-in security features protect network from external threats by blocking malware attacks and keeping unauthorized users off the network. Network traffic can be filtered and access restricted based on MAC and IP address.		
		Protect network from unauthorized access with IEEE 802.1X and VLAN.		
		Security controls let user define access in each area of user's network, keeping the business data safe.		
		Automatic denial-of-service (DOS) monitors and protects the network against malicious attacks.		
		TPM-Based security		
		Includes a Trusted Platform Module (TPM) for secure hardware- based generation and storage of cryptographic keys used for secure connection to the cloud portal.		
		Two Factor Authentication - 2FA : Using 2FA strengthens security by requiring an additional layer of authentication, such as an authentication app, in addition to a username and password.		
		Industry-leading limited lifetime warranty and support.		
	The Differentiators	Easy setup and management		
		Mobile app allows user to set up, manage, and monitor switches and access points directly from phone.		
		Non-intrusive, aesthetic design		
		Switches are designed to complement the sleek and clean look of the access points, and to blend discreetly into site's environment.		
		High performance with flexible options		
		Customizable features include basic Layer 2 features like VLANs and link aggregation, as well as advanced features such as Layer 3 IPv4 static routing, ACLs, and Spanning Tree Protocols, and IPv6 Host mode.		
		Optimized user experience		
		Mobile app provides common workflows for switches and access points making it easier to configure, monitor and manage network remotely without the need for additional hardware like cloud keys or VPN.		
		User can also update firmware on devices directly from the cloud whenever user want, from wherever users are.		
		Site inventory		
		The site inventory feature on the mobile app shows user all switches and AP's on a single screen, allowing user to quickly identify non-functioning devices and troubleshoot accordingly.		
		Multi-site management		
		The cloud-hosted web interface and mobile app make it easy to manage multiple sites, multiple networks, distributed deployments and multi-tenant deployments.		

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Sr. No.	Item	Details Specification	Compliance	Remarks
		No extra licensing or subscription fee.		
		No hidden fees		
		All features are included in the price of the hardware-there are no recurring subscription or licensing fees.		
		Expert-level support and industry leading limited lifetime warranty are also included, along with chat support for the life of the product.		
	Management	Cloud-based management for entire network		
		The cloud-hosted web interface and mobile app make it easy to manage networks with APs and Switches.		
		Simple local web GUI management		
		For management of individual switches, the intuitive Web GUI makes management simple, even for non-technical users.Supports up to five (5) HTTP and HTTP Secure (HTTPS) sessions.		
		Firmware update		
		Provides notification of the latest firmware with the ability to schedule update at a preferred time through mobile app and cloud-based web portal.		
		Default DHCP client mode		
		Allows the switch to be directly connected to a network, enabling plug-and-play operation. In the absence of a DHCP server on the network, the switch falls back to the static address 192.168.1.1.		
		Port mirroring		
		Enables traffic on a port or VLAN to be simultaneously sent to a network analyzer for monitoring.		
		Event logging and alerts		
		Provides detailed information for problem identification and resolution.		
		Account management		
		Allows administrators to add, modify, delete and transfer management accounts and passwords for secure access to Instant cloud management solution.		
		Locator LED		
	Allows users to set the locator LED on a specific switch to either turn on, blink, or turn off; simplifies troubleshooting by making it easy to locate a particular switch within a rack of similar switches.			
	Quality of Service (QoS)	Traffic prioritization		
		Provides time-sensitive packets (like VoIP and video) with priority over other traffic based on DSCP or IEEE 802.1p classification.		
		IEEE 802.1p/Q VLAN tagging		
Delivers data to devices based on the priority and type of traffic; supports IEEE 802.1Q.				
Class of Service (CoS)				
		Sets the IEEE 802.1p/DSCP priority to queue mapping(4 queues).		

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Sr. No.	Item	Details Specification	Compliance	Remarks
		Supports strict priority queuing (SP) or weighted round robin (WRR) queuing. SP and WRR queuing can be configured on individual switch ports.		
		Advanced classifier based QoS		
		Classifies traffic using multiple match criteria based on Layer 2, 3, and 4 information.		
		IEEE 802.1Q VLAN Support		
		Support for up to 256 VLANs with a VLAN ID range of 2-4093.		
		IEEE 802.1X Access control		
		Authentication of network users on a per port basis prior to permitting network access.		
		Port authentication includes RADIUS assigned VLAN, dynamic VLAN creation, guest VLAN or into an unauthenticated VLAN.		
		Automatic denial-of-service protection		
		Monitors for malicious attacks and protects the network by blocking the attack.		
		Packet storm protection		
		Protects against unknown unicast, broadcast and multicast storms with user-defined thresholds.		
		RADIUS		
		The switch supports RADIUS authentication with primary and backup server configuration.		
		RADIUS accounting		
		A robust set of attributes and statistics are available for collecting information from the switch.		
		Management VLAN ID		
		Provides secure management access to administrators in the specified VLAN.		
		Link Flap prevention		
		Minimizes the network disruption by automatically detecting and disabling ports that experience link flap events.		
	Performance and efficiency	Energy Efficient Ethernet (EEE)		
		Compliant with IEEE 802.3az standard requirements to save energy during periods of low data activity.		
		Auto-port shut down		
		The switch saves power by automatically shutting down power to inactive ports. Power is restored on a port upon link detection.		
		Energy savings status		
		The switch provides an estimated cumulative energy savings due to green Ethernet features being enabled.		
		Energy-efficient cooling		
		Includes variable speed fans operating only at the speed necessary to maintain operating temperature to reduce excess noise and power consumption.		
		Fan-less operation		
		Fan-less design for 8-port models, 24-and 48-port non-PoE models, making the switches ideal for office deployments.		

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Sr. No.	Item	Details Specification	Compliance	Remarks
	Switching features	IEEE 802.3x Flow control		
		Provides a flow-throttling mechanism propagated through the network to prevent packet loss at a congested node.		
		Spanning Tree Protocol (STP)		
		Supports standard IEEE 802.1D STP, IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) for faster convergence, and IEEE 802.1s Multiple Spanning Tree Protocol (MSTP on local web).		
		Loop protection		
		If the switch detects a loop, it disables the source port from forwarding data packets originating from the switch to avoid broadcast storms.		
		BPDU Filtering		
		Drops BPDU packets when STP is enabled globally but disabled on a specific port.		
		Jumbo frame support		
		Supports up to 9216 bytes frame size to improve the performance of large data transfers.		
		IGMP Snooping v1/v2		
		Improves network performance through multicast filtering, instead of flooding traffic on all port.		
		Link aggregation		
		Groups together multiple ports up to a maximum of eight (8) ports per trunk automatically using Link Aggregation Control Protocol (LACP), or manually, to form a high-bandwidth connection to the network backbone that helps prevent traffic bottlenecks.		
		The 8-port models support 4 trunks, 24-port models support 8 trunks, and 48-port models support 16 trunks.		
		LLDP/LLDP-MED (Media Endpoint Discovery)		
		Defines a standard extension of LLDP that stores values for parameters such as QoS and VLAN for automatic configuration of network devices such as IP phones.		
		Address Resolution Protocol (ARP)		
	The ARP table displays all of the IP addresses that have been resolved to MAC addresses, either dynamically or through static entry configuration.			
	Features accessed through local web-management interface	Static IPv4 routing		
		Supports manual routing configuration of up to 32 static routes.		
		Auto-voice VLAN		
		Recognizes IP phones and automatically assigns voice traffic to dedicated VLAN for IP phones.		
		PoE Scheduling		
		A PoE scheduler provides the ability to define the hours of PoE power being supplied to a group of switch ports based on a 24-hour day.		
		The scheduler enables the flexibility to select individual days of a week as well as recurrence on a weekly basis with a start and end date.		

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Sr. No.	Item	Details Specification	Compliance	Remarks
		Access Control Lists (ACLs)		
		Enables network traffic filtering by creating an ACL, adds rules and matches criteria to an ACL, and applies the ACL to permit or deny on one or more interfaces or a VLAN. Supports 50 inbound IPv4 and MAC ACLs with up to 480 ACEs.		
		IPv6 Host		
		Enables switches to be managed and deployed at the IPv6 network's edge.		
		Rate limiting		
		Sets and enforces per-port ingress traffic limits based on percentages or packets per second.		
		ARP Attack prevention		
		Dynamic ARP protection blocks ARP broadcasts from unauthorized hosts, preventing eavesdropping or theft of network data.		
		DHCP Snooping		
		Provides network security by filtering untrusted DHCP messages.		
		Port security		
		Ports in a port isolation group are restricted from forwarding Layer 2 traffic between ports in that group, providing data privacy and security.		
		SCP and TFTP file transfer		
		Provides different mechanisms for secure file transfer through SCP (Secure Copy Protocol) or TFTP.		
		Dual image support		
		Provide independent primary and secondary software images for backup while upgrading.		
		User account management		
		Password strength checking and aging feature provides enhanced security to user account administration to the local web management interface.		
		Secure Sockets Layer (SSL)		
		Encrypts all HTTP traffic, secures access to the local browser-based management of the switch.		
		SNMPv1, v2c, and v3		
		Facilitate management of the switch, as the device can be discovered and monitored from an SNMP management station.		
		Remote monitoring (RMON)		
		Remote monitoring (RMON) provides advanced monitoring and reporting capabilities for statistics, history, alarms and events.		
		RMON data is retrieved from the switch through a network management platform over SNMP.		

Wireless Access Point:

Sr. No.	Details Specification		Compliance	Remarks
1.	Access Point Operation modes	Router, Bridge, Mesh, Cluster mode		
	PPPoE Configuration	Supported		
	Assign Management IP Address using DHCP/Static IP	Supported		

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Sr. No.	Details Specification	Compliance	Remarks
	Support Dual Band	Yes, support dual band	
	Radios	2x2 5GHz/2.4GHz	
	Recommended number of devices	100+	
	Antennas	Dual omni-directional 4x4 MU-MIMO	
	Supported Channels width	20/40/80/160MHz	
	160MHZ client bandwidth support	Supported	
	Antenna gain	3.7dBi in 2.4GHz 4.5dBi in 5GHz	
	Maximum transmit power	2.4GHz band: +21dBm (+18dBm per chain, 3dB MIMO gain)	
	Maximum transmit power	5GHz band: +24dBm (+18dBm per chain, 6dB MIMO gain)	
	Data rate	4.8 Gbps (5GHz) 574 Mbps (2.4GHz)	
	Power options	PoE: 802.3at (class 4) DC power (12V)	
	Max power consumption	20.1W (PoE) 15.9W (DC)	
	External DC power adaptor	DC power connector	
	Total Ethernet Interface	One Built in Port	
	Ethernet Interface Type	2.5GbE Base-T Uplink PoE-in support (802.3at)	
	Power over Ethernet	PoE In: 802.3at	
Physical Specifications			
	Enterprise Grade Hardware	Yes	
	Mounting	Ceiling/Wall-mount clip	
	Physical specifications (W x D x H)	200mm x 200mm x 45mm Weight: 775g	
	Operating temperature	0° C to +40° C (+32° F to +104° F)	
	Reliability (years)	76	
	LEDs	LED status Indicators Reset/Power LED	
	Reset button to factory default setting	Supported	
	AP Physical Safety	Kensington security slot	
WI-FI 6/6E Features			
	Maximum data rate*	4.8Gbps (5GHz) 574 Mbps (2.4GHz)	
	Support 802.11ax - Wi-Fi 6	11ax support for both 5GHz/2.4GHz	
	Wi-Fi 6	Wi-Fi 6	
	Multiuser, Multiple Input, Multiple Output (MU-MIMO)	Yes MU-MIMO	
	Orthogonal Frequency Divison Multiple Access (OFDMA)	Yes	
	1024-Quadrature Amplitude Modulation (1024-QAM)	Yes	
	Basic Service Set Coloring (BSS Coloring)	Yes	
Remote Management and Service Features			
	Management options	Mobile application Cloud portal	
	Cloud Portal Account License	No extra licensing fees	
	Cloud Device License	No extra licensing fees	
	No of devices supported under single cloud account	5000 Devices per account	

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Sr. No.	Details Specification	Compliance	Remarks
	Multi Site Management	Supported	
	Auto Firmware update	Supported	
	Schedule Firmware update	Supported	
	Access Point Health Check monitor Dashboard	Supported	
	Client Connectivity Statistics 24 hours	Supported	
	Display Access Point details for Connected Client	Supported	
	Display Network Details of Connected Clients	Supported	
	Generate Alerts based on Access Points network and device conditions	Supported	
	Send Alerts/Notification to designated Smartphone and designated Email Id	Supported	
	Generate Alerts / Notification for all Informational/Major and Minor network/device conditions	Supported	
	ability to send alert generated to service delivery platform using designated email id	Supported	
	Re-Confirmation code to protect accidental Site deletion	Supported	
	Reboot Access Point Remotely	Supported	
	Add / Delete Access Point from the setup	Supported	
	Perform Network Connectivity test from Access Point to Client	Supported	
	Perform Network Connectivity test from Access Point to any different internal network device or external networks, Internet Sites	Supported	
	ability to create duplicate configuration for multiple customer locations/Site	Supported	
	ability to map each customer site to latitude and longitude attribute for near to precise customer physical location on geographical map	Supported	
Energy Efficiency and Network Performance improvement Features			
	Energy-efficient	Schedulers, TWT and TXBF	
	Target Wake Time (TWT)	Supported	
	Transmit Beamforming (TXBF)	Supported	
	Filter Environment Wireless Intereference	supported using "Advanced Cellular Coexistence (ACC)	
	Built in error correction mechanism	Supported using "Low Density Parity Check (LDPC)"	

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Sr. No.	Details Specification	Compliance	Remarks
	Auto Adjust Access Point Radio channel and transmit power based on client location	Supported using ARM	
	continuously monitor the health of connected devices	Supported using ClientMatch	
Security Features			
	Enterprise-grade security	Supported	
	WPA3/WPA2	Supported	
	support Advanced Encryption Standard (AES) with WPA3	Supported	
	secure open Wi-Fi network access	Supported	
	OWE authentication	Supported	
	Use of Trusted Platform Module (TPM) security hardware to protect device information and securely store credentials, keys and boot codes.	built-in TPM	
	Support encrypted communication using TPMs when Access Point/Switches communicate with vendor cloud portals	Supported	
	Support Cryptography standards like SSL/TLS1.2+	Supported	
	Integration support with 3rd party authentication servers	Supported	
	Continous support for Secure Development Life Cycle for Image software	Supported	
	2FA for cloud management	Supported	
	Define Role Based Account Management Access	Supported	
	Define role based management access for each site/depolymnt location.	Supported	
	Define upto minimum 20 number of accounts assigned to a given site all admin, or a mix of all profiles	Supported	
	define minimum 1 administrator per site to max of upper limit	Supported	
	Integration support with any 3rd party RADIUS server & Captive portal	Supported	
	Support 802.1x authentication for Wi-Fi Networks.	Supported	
	Support DNS encryption for inside LAN/WLAN end point communication over Internet	Supported	
	Support for DNS over HTTPS (DoH)	Supported	
Management Features including Remote Management			
	Access control policies	Supported	

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Sr. No.	Details Specification	Compliance	Remarks
	connected device identification	Supported	
	ability to block network access to unknown clients	Supported	
	ability to create white list of known clients	Supported	
	ability to control application access	Supported	
	ability to define network access policies	Supported	
	Create DHCP Networks Per SSID	Supported	
	ability to define time based wireless network access	Supported	
	ability to assign network to specific Access Points	Supported	
	Auto Power Off/On Access Point	Supported	
	Turn On/Off LED on Access Point	Supported	
	SSID scheduling	Supported	
	Smart Mesh	Supported	
	Category-based application classification, visibility, and control	Supported	
	Client roaming	Supported	
	Map Vlans to SSID	Supported	
	ability to optimize WLAN performance under Peak Usage	Comply, using Adaptive Radio Management (ARM) is a radio frequency management technology	
	Map individual network profiles to designated Access Points	Supported	
Certification			
	Plenum Rating	Yes, UL 2043	
	Wi-Fi Alliance certified	Yes, Wi-Fi Alliance certified (WFA) 802.11ax with (Wi-Fi 6)	
	Medical Environments deployment Certification	Yes, EN 60601-1-1 and EN 60601-1-2 certified	
Warranty & Support			
	Warranty & support	2-Year	

24 Port Patch Panel:

Sr No.	Details	Specification	Compliance	Remarks
1	Type	24-port, Modular, 1U, PCB based, Unshielded Twisted Pair, Category 6, ANSI/TIA 568-C.2 and ISO/IEC 11801		
2	Port arrangement	Configured as 6 Port Module with individually replaceable CAT-6 Jacks		
3	Circuit Identification	Front of each module shall be capable of accepting 9 mm to 12 mm labels		
4	Port Identification	9mm or 12mm Labels on each of 24-ports (to be included in supply)		
5	Modular Jack	750 mating cycles		
6	Wire terminal	200 termination cycles		
7	Accessories	Integrated bend-limiting strain-relief unit for cable entry		
8	Materials			
	Housing	Polyphenylene oxide, 94V-0 rated		

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	Wiring blocks	Polycarbonate, 94V-0 rated		
	Jack contacts	Beryllium copper, plated with 1.27 mm [.000050] thick gold		
	Panel	Black, powder coated steel		
9	Approvals	UL listed. Must be part of the registered 4 connector channel certified by ETL.		
10	Termination Pattern	TIA / EIA 568 A and B;		

UTP Cable:

Sr No.	Details	Specification	Compliance	Remarks
1	Type	Unshielded Twisted Pair, Category 6 cable, 4 pair with cross filler, compliant to ANSI/TIA 568.2-D, IEEE 802.3bt & ISO/IEC 11801 Class E.		
2	Conductors	23 AWG Solid bare copper		
3	Insulation	Polyolefin		
4	Jacket	LSZH jacket complying to: Fire rating IEC 60332-3-22 Acid gas IEC 60754-2 Smoke density IEC 61034-2 3 rd party test report to be submitted for all above standards with bid.		
5	Pair Separator	Cross-member (x) fluted Spline.		
6	Approvals	Intertek 4 connector channel certified for upto 600Mhz, for 100mtr channel. Transmission tested for Zero BER performance to the requirements of IEEE 802.3 for 1000BASE-T protocol. Shall be certified by Intertek for 4 connector channel compliance as per ANSI/TIA 568-C.2 for CAT6, under Short channel (<= 15m) configuration. (Intertek lab Reports to be submitted with bid.)		
7	Frequency tested up to	Shall be certified by Intertek for 4 connector channel compliance as per ANSI/TIA 568-C.2 for CAT6, under Short channel (<= 15m) configuration. (Intertek lab Reports to be submitted with bid.)		
8	Application support	Performance spec upto 600 MHz to be mentioned on datasheet;		
8	Application support	Shall comply to the requirements of IEEE 802.3bt (Type 4) for the safe delivery of power over LAN cable		
8	Application support	Shall comply to the requirements of IEEE 802.3bt (Type 4) for the safe delivery of power over LAN cable		
9	Packing	Box of 305 meters		
10	Cable Outer Diameter	5.9mm +/- 0.2 mm		
11	Delay Skew	45ns @ 100Mhz		
12	Impedance	100 Ohms + / - 15 ohms, 1 to 600 MHz.		
13	Mutual Capacitance	5.6 NF MAX /100 Mtr.		
14	dc Resistance, maximum	7.61 ohms/100 m		
15	Safety Voltage Rating	300 V		
16	ROHS Compliant	Shall be ROHS Compliant		
17	Test report	All factory test reports for the cable shall be available online at OEM website using unique print string on Cable jacket / packaging.		

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Sr No.	Details	Specification	Compliance	Remarks
18	Certification	Cable must be ETL verified for ANSI/TIA 568-C.2 and ISO/IEC 11801. Report to be submitted.		
19	Manufacturing	OEM must have ISO 9001 certified manufacturing unit in India, functioning for min. 20 years.		
20	Compatibility	OEM shall have ISO 9001, 14001 and 45001 certified manufacturing facility for development of LAN & WAN equipment.		
21	Credential	OEM should have members participating in Telecommunications Industry Association (TIA) committee. Membership shall be available for validation at www.tiaonline.org		
16	ROHS Compliant	Shall be ROHS Compliant		
17	Test report	All factory test reports for the cable shall be available online at OEM website using unique print string on Cable jacket / packaging.		
18	Certification	Cable must be ETL verified for ANSI/TIA 568-C.2 and ISO/IEC 11801. Report to be submitted.		
19	Manufacturing	OEM must have ISO 9001 certified manufacturing unit in India, functioning for min. 20 years.		
20	Compatibility	OEM shall have ISO 9001, 14001 and 45001 certified manufacturing facility for development of LAN & WAN equipment.		
21	Credential	OEM should have members participating in Telecommunications Industry Association (TIA) committee. Membership shall be available for validation at www.tiaonline.org		

Patch Cord:

Sr No.	Details	Specification	Compliance	Remarks
1	Type	Unshielded Twisted Pair, Category 6, TIA / EIA 568-C.2 & ISO/IEC 11801		
2	Conductor	24 AWG 7 / 32, stranded copper conductors 100 Ohm		
3	Length	4 feet, 7 feet,		
4	Plug Protection	Factory fitted Strain relief boots on either side		
5	Jacket	LSZH		
6	Operating Temperature Range:	-40° to 70° C (-40° to 158° F)		
7	Compliance	ROHS Compliant		

Keystone:

Sr No.	Details	Specification	Compliance	Remarks
1	Type	PCB based, Unshielded Twisted Pair, Category 6, TIA /EIA 568-C.2 and ISO/IEC 11801		
2	Modular Jack	750 mating cycles		
3	Wire terminal	200 termination cycles		
4	Accessories	Integrated bend-limiting strain-relief unit for cable entry		
		Support cable pair termination process on the jacks at 90 degree angle.		
		Bidder should have a mechanism to maintain the quality of the termination ir-respective of the skill level of the termination staff.		
5	Housing	Polyphenylene oxide, 94V-0 rated.		
6	110 Blocks	polycarbonate, 94V-0 rated		
7	Jack contacts	Beryllium copper, plated with 1.27 mm [.000050]		

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		thick gold		
8	Wiring blocks	Polycarbonate, 94V-0 rated		
9	Approvals	(a) UL Listed / CSA Approved		
		(b) ETL verified to TIA / EIA Cat 6. Should be part of the registered 4 connector channel.		

Tab:

Sr No.	Details	Specification	Compliance	Remarks
1	Standing screen display size	27.94 Centimetres		
2	Screen Resolution	1920 x 1200 pixel		
3	RAM Size	4 GB		
4	Storage	64 GB		
5	Network	5G		

27U Rack:

Sr No.	Details Specification	Compliance	Remarks
1.	<ul style="list-style-type: none"> ● Rack Height: 27U (Rack Units) ● Mounting Standard: 19-inch DIN standard, with M6 tap and 10mm square slots ● Construction: Welded or CKD (knockdown) frames made of CRCA or cold-rolled steel ● Front Door: Lockable, toughened glass ● Rear Door: Vented steel, lockable ● Side Panels: Removable and vented ● Cooling: Provision to mount dual 180CFM fans on the top cover ● Cable Entry: Vented cutouts at the top and bottom for cable management ● Finish: Powder-coated with a pretreatment process ● Standard Color: Black, with Grey available on request ● Mobility: Supplied with four castor wheels (two with brakes) and four adjustable leveling feet 		

Google Workspace Education Plus subscription for 3 years:

Sr No.	Details Specification	Compliance	Remarks
1.	Google WorkSpace Education Plus subscription for 3 years - minimum quantity is 50 users		

Google Workspace Education Plus Teaching & Learning Upgrade:

Sr No.	Details Specification	Compliance	Remarks
1.	Google WorkSpace Education Plus Teaching & Learning Upgrade for 3 years		

Visicooler:

Sr No.	Details Specification	Compliance	Remarks
1.	Visicooler 450 Ltrs. Single Door		

Microwave Oven:

Sr No.	Details Specification	Compliance	Remarks
1.	28 L Convection Microwave Oven		

Induction Cooktop:

Sr No.	Details Specification	Compliance	Remarks
1.	Induction Cooktop		

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

WEBEL TECHNOLOGY LIMITED

SECTION – S

MANUFACTURER'S AUTHORIZATION FORM

Date:

To
Webel Technology limited
Plot-5, Block-BP, Sector-V
Salt Lake
Kolkata-700 091

Ref: Tender No.: WTL/DVC/TRAINING/25-26/025 DATED 16/09/2025

WHEREAS _____ who are official producers of _____ and having production facilities at _____ do hereby authorize _____ located at _____ (hereinafter, the "Bidder") to submit a bid of the following Products produced by us, for the Supply Requirements associated with the above Invitation for Bids.

When resold by _____, these products are subject to our applicable standard end user warranty terms.

We assure you that in the event of _____, not being able to fulfill its obligation as our Service Provider in respect of our standard Warranty Terms we would continue to meet our Warranty Terms through alternate arrangements.

We also confirm that _____ is our authorized service provider/system integrator and can hence provide maintenance and upgrade support for our products.

We also confirm that the products quoted are on our current product list and are not likely to be discontinued within from the day of this letter. We assure availability of spares for the products for the next two years after warranty period.

We also confirm that the material will be delivered within 30(thirty) days from the date of placement of confirmed order.

Name _____ In the capacity of _____

Signed _____

Duly authorized to sign the authorization for and on behalf of _____

Dated on _____ day of _____ 2025

Note: This letter of authority must be on the letterhead of the Manufacturer and duly signed by an authorized signatory.