



Request for Proposal ('RFP') for Selection of System Integrator (SI) for Supply, Installation, Testing & Commissioning of Command Control Centre for Odisha Police (Coastal Security)

Tender No: 47-RFP-CSPO-2024-25

Date: 28.01.2025

E.M.D: **Rs. 10,00,000.00 (Ten Lakhs Only)**

Tender Fee: Non-refundable Rs. 11,800- {Rs.10,000/- + 18% GST (Rs. 1800/-)}

Tender Inviting Authority

**Office of the Additional Directorate General of Police
(Costal Security)**

Bhubaneswar, At/PO: Rasulgarh, Bhubaneswar, District: Khurdha, PIN: 751010

**Request for Proposal ('RFP') for Selection of System Integrator (SI) for Supply,
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(Coastal Security)**

DISCLAIMER

1. Though adequate care has been taken while preparing the tender Document, the Bidders should satisfy themselves that the document is complete in all respects. Intimation of any discrepancy shall be given to this office immediately. If no intimation is received from any Bidder within seven days from the date of notification of tender Document/ Issue of the tender Document, it shall be considered that the tender Document is complete in all respects.
2. The information contained in this tender and subsequently provided to the Bidders (henceforth referred to as "Bidder/s") verbally or in documentary form by Office of the Additional Directorate General of Police (Costal Security) (henceforth referred to as "Authority" in this document) shall form integral part of this tender.
3. The Office of the Additional Directorate General of Police (Costal Security), Odisha reserves the right to modify, amend or supplement this tender Document.
4. While this tender Document has been prepared in good faith, office of the Additional Directorate General of Police (Costal Security) nor its employees make any representation or warranty, express or implied, or accept any responsibility or liability, whatsoever, in respect of any statements or omissions herein, or the accuracy, completeness or reliability of information, and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of this tender Document, even if any loss or damage is caused by any act or omission on their part.
5. The issue of this tender document does not imply that office of the Additional Directorate General of Police (Costal Security) is bound to select a Bidder or to appoint the Selected Bidder (as defined hereinafter) and Additional Directorate General of Police (Costal Security) reserves the right to reject all or any of the Bidders or Bids without assigning any reason whatsoever.
6. The Bidder shall bear all its costs associated with or relating to the preparation and submission of its Bid including but not limited to preparation, copying, postage, uploading delivery fees, expenses associated with any demonstrations or presentations which may be required by office of the Additional Directorate General of Police (Costal Security), or any other costs incurred in connection with or relating to its Bid. All such costs and expenses will remain with the Bidder and, Odisha shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a Bidder in preparation for submission of the Bid, regardless of the conduct or outcome of the selection process.
7. This tender is not an agreement or an offer by the office of the Additional Directorate General of Police (Costal Security) to the prospective Bidders or any other person. The purpose of this tender is to provide interested parties with information that may be useful to them in the formulation & submission of their Proposals pursuant to this tender.
8. This tender may not be appropriate for all persons, and it is not possible for the office of the Additional Directorate General of Police (Costal Security) and its employees to consider the objectives, technical expertise and particular needs of each party who reads or uses this tender. The assumptions, assessments, statements, and information contained in this tender may not be complete, accurate, adequate, or correct. Each Bidder should, therefore, conduct its own investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments and information contained in this tender and obtain independent advice from appropriate sources. Information provided in this tender to the Bidders may be on a wide range of matters, some of which may depend upon

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interpretation of law. The information given is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law.

9. The Office of the Additional Directorate General of Police (Coastal Security) accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on the law expressed herein.
10. The Office of the Additional Directorate General of Police (Coastal Security) and its employees/ advisors make no representation or warranty and shall have no liability to any person including any Bidder under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this tender or otherwise, including the accuracy, adequacy, correctness, reliability or completeness of the tender and any assessment, assumption, statement or information contained therein or deemed to form part of this tender or arising in any way in this Selection Process.
11. The tender also accepts no liability of any nature whether resulting from negligence or otherwise however caused arising from reliance of any Bidder upon the statements contained in this tender.
12. The Office of the Additional Directorate General of Police (Coastal Security) may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumption contained in this tender.

Place: Bhubaneswar, Odisha

Date: 28.01.2025

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Invitation to Bid

From:

Office of the Additional Directorate General of Police (Costal Security)
Bhubaneswar, At/PO: Rasulgarh, Bhubaneswar Dist.: Khurdha, PIN: 751010

To:

All Prospective bidders

1. The Office of the Additional Directorate General of Police (Costal Security) invites responses ("tender") from eligible reputed, competent, and professional companies, who meet the minimum eligibility criteria, as specified in this bidding document.
2. The complete bidding document shall be published on **28.01.2025** for the purpose of downloading.
3. A bidder shall be selected based on the Eligibility Criteria and Commercial evaluation criteria, and procedures, described in this tender.
4. The bidder is advised to study this tender document carefully, before submitting their proposals, in response to the tender Notice. Submission of a proposal in response to this notice shall be deemed to have been done after careful study and examination of this document with full understanding of its terms, conditions, and implications.
5. The time, date and venue details related to the pre-bid conference and proposal submission are mentioned in the Key Events and Dates Sheet. Proposals that are received after the deadline shall not be considered in this tender process.
6. Consortium is allowed.

Sd-

**Additional Directorate General of Police (Costal Security)
Odisha**

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Data Sheet

| Sr. No | Information | Details |
|--------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Tender Issuing Authority | Office of the Additional Directorate General of Police (Costal Security), Odisha |
| 2. | Purpose of Tender | Selection of Agency for Supply and Installation of IT Hardware along with allied Civil and Electrical infrastructure for commissioning of Conference Room and Control Centre. |
| 3. | Tender Issue Date | 28.01.2025 |
| 4. | Availability of Tender documents | The Tender is available and downloadable on (https://www.tendersodisha.gov.in/) All Subsequent changes to the Bidding document shall be published on the above-mentioned website. |
| 5. | Non-Refundable Tender Cost | Non-refundable Rs. 11,800- {Rs.10000/- + 18% GST (Rs. 1800/-)} in form of Demand Draft issued by an Indian Nationalized / Scheduled Bank and drawn in favor of AIG of Police (Provisioning) Odisha Cuttack payable at Cuttack valid for 180 days from the date of submission of bid |
| 6. | Earnest Money Deposit | Rs. 10,00,000.00 (Ten Lakhs Only) in form of Demand Draft issued by an Indian Nationalized / Scheduled Bank and drawn in favor of AIG of Police (Provisioning) Odisha Cuttack payable at Cuttack valid for 180 days from the date of submission of bid |
| 7. | Last date and time for submission of queries for clarifications | All the queries/clarification requests shall be received on or before 01.02.2025 upto 15:00 Hrs, through e-mail only, with subject line as follows: "Pre-Bid queries -<Bidder's Name>". The queries shall be submitted in MS-Excel file, as per the format prescribed in Volume-I of the Tender. The Pre-Bid queries shall be sent to the following e-mail Ids: Email ID: adgcs-odisha@gov.in |
| 8. | Date, time, and venue of pre-bid meeting | Will be intimated through mail Conference Hall, Office of the Additional Directorate General of Police (Costal Security) Bhubaneswar, At/PO: Rasulgarh, Bhubaneswar, |

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| Sr. No | Information | Details |
|--------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | District: Khurdha, PIN: 751010 |
| 9. | Clarification of bidder queries | After completion of pre-bid query meeting |
| | Last date for receipt of Technical and financial proposals (Through Speed Post /Registered Post / Courier) | 11.02.2025 till 12:30 PM |
| 10. | Date, time, and venue of opening of Technical Proposals received in response to the Tender notice | 12.02.2025 till 03:30 PM Conference Hall, Office of the Additional Directorate General of Police (Costal Security) Bhubaneswar, At/PO: Rasulgarh, Bhubaneswar, District: Khurdha, PIN: 751010 |
| 11. | Submission of Bid | Online through e-tender portal. |
| 12. | Place, time, and date of opening of Financial Proposals received in response to the Tender notice | Office of the Additional Directorate General of Police (Costal Security) will inform qualified bidders. |
| 13. | Language | Proposals should be submitted in English only. |
| 14. | Bid validity | Proposals must remain valid up to 180 days (One hundred eighty days) from the last date of submission of the Bid. |
| 15. | Contact Person | Email: adgcs-odisha@gov.in |

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1. Introduction

The Odisha Police Coastal Security Department is a specialized wing of the Odisha Police tasked with safeguarding the state's 480-kilometer coastline along the Bay of Bengal, covering the districts of Balasore, Bhadrak, Kendrapara, Jagatsinghpur, Puri, and Ganjam. Its primary responsibilities include ensuring maritime security by preventing infiltration, protecting coastal installations, and combating crimes such as smuggling, illegal fishing, and human trafficking. The department also plays a vital role in disaster management by assisting during cyclones, floods, and tsunamis and supporting relief operations for affected communities. To achieve these objectives, it operates 18 Marine Police Stations (MPS) strategically located along the coast and deploys a fleet of high-speed patrol boats equipped with advanced GPS, radars, and communication systems. Working in close collaboration with the Indian Coast Guard and Navy, the department strengthens intelligence sharing and surveillance to ensure the safety and security of Odisha's coastal region.

1.1. Project Background

The Office of the Additional Directorate General of Police (Costal Security) intends to hire an agency to undertake IT hardware supply, Civil and electrical equipment supply installation and commissioning of ready to use system for below.

- a) Command and Control Centre at Rasulgarh Office
- b) Video Conferencing System at Rasulgarh Office

1.2. Instruction to Bidders

Bidders are advised to study this Tender document carefully before participating. It shall be deemed that submission of a Bid by the bidder has been done after careful study and examination of the Tender document with full understanding of its implications. Bidders are also expected to visit the Office of the Additional Directorate General of Police (Costal Security) and understand the requirements to allow them to propose the best solution. Bid is to be submitted as per enclosed format and instructions only. Attach the certificates, brochures & documents asked for in the Tender document with well described index with page numbers. All the pages should be properly marked with page numbers.

This section specifies the procedures to be followed by Bidders in the preparation and submission of their Bids. Information is also provided on the submission, opening and evaluation of bids and on the award of contracts.

1.3. General

- i. Office of the Additional Directorate General of Police (Costal Security), Odisha invites proposals ("Bids") to this Tender Request for Proposal ('RFP') for Selection of System Integrator (SI) for Supply, Installation, Testing & Commissioning of Command Control Centre for Odisha Police (Coastal Security), Odisha envisaged in the tender as described.
- ii. The tenure of the contract of the successful bidders shall be for a term of Implementation in 2 months after award of the contract.
- iii. While every effort has been made to provide comprehensive and accurate background information and requirements and specifications, bidders must form their own conclusions

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- about the solution needed to meet the requirements. Bidders and recipients of this tender may wish to consult their own legal advisers in relation to this tender.
- iv. All information supplied by the successful bidder may be treated as contractually binding on the bidder, after successful award of the assignment is made based on this tender.
 - v. No commitment of any kind, contractual or otherwise shall exist unless and until a formal written contract has been executed by or on behalf of Office of the Additional Directorate General of Police (Costal Security), Odisha.
 - vi. Office of the Additional Directorate General of Police (Costal Security), Odisha may cancel this tender at any time prior to a formal written agreement being executed between parties.
 - vii. No oral conversations or agreements with any official, agent, or employee of Office of the Additional Directorate General of Police (Costal Security) Odisha shall affect or modify any terms of this tender and any alleged oral agreement or arrangement made by a bidder with any agency, official or employee of Office of the Additional Directorate General of Police (Costal Security) Odisha, Odisha shall be superseded by the definitive agreement that results from this tender process.
 - viii. Neither the bidder nor any of bidder's representatives shall have any claims whatsoever against Office of the Additional Directorate General of Police (Costal Security) Odisha or any officials or employees arising out of or relating to this tender or these procedures (other than those arising under a definitive service agreement with the bidder in accordance with the terms thereof).
 - ix. All proposals and accompanying documentation of the technical proposal shall become the property of Office of the Additional Directorate General of Police (Costal Security) and shall not be returned after opening of the technical proposals.
 - x. The Bidder commits himself to take all measures necessary to prevent corrupt practices, unfair means, and illegal activities during any stage of his bid or during any pre-contract or post-contract stage to secure the contract or in furtherance to secure it.

1.4. Tender Form and Tender Fee

The tender document can be downloaded from the portal <https://www.tendersodisha.gov.in/>. The tender fee of Tender Fee: Non-refundable Rs. 11,800- {Rs.10,000/- + 18% GST (Rs. 1800/-)} in form of Demand Draft issued by an Indian Nationalized / Scheduled Bank and drawn in favour of AIG of police (provisioning) Odisha Cuttack payable at Cuttack valid for 180 days from the date of submission of bid. The tender fee is non-refundable.

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1.5. Earnest Money Deposit

The bidders are required to submit an EMD of Rs. 10,00,000.00 (Ten Lakhs Only), in form of Demand Draft/ Banker's Cheque issued by an Indian Nationalized / Scheduled Bank and drawn in favor of AIG of police (provisioning) Odisha Cuttack payable at Cuttack valid for 180 days from the date of submission of bid.

Bidders shall ensure that the payment of the EMD is made prior to the last date of Bid Preparation and Submission of the Tender Schedule to have seamless submission keeping Bank's clearing process lead time.

The earnest money deposit shall be non-interest bearing and is refundable to unsuccessful Bidders. The successful bidders EMD will be discharged to the successful bidder post executing the Contract and furnishing the EMD Bank Guarantee as specified in this Tender.

The EMD shall be forfeited and appropriated by the Office of the Additional Directorate General of Police (Costal Security) without prejudice to any other right or remedy that may be available to the Office of the Additional Directorate General of Police (Costal Security) hereunder or otherwise, under the conditions. In such an event, the decision of the office of Office of the Additional Directorate General of Police (Costal Security) regarding forfeiture of the Bid Security shall be final and binding upon bidders.

- i. If a bidder submits a non-responsive bid; and/or If a Bidder withdraws his bid or increases his quoted prices during the period of bid validity or its extended period, if any.
- ii. In the case of successful bidder, if bidder fails within the specified time limit:
- iii. to sign the contract within the time specified by the office of Office of the Additional Directorate General of Police (Costal Security) Bhubaneswar, At/PO: Rasulgarh, Bhubaneswar, District: Khurda, PIN: 751010
- iv. to furnish the Performance Bank Guarantee within the period prescribed as specified in the terms and conditions of the contract.
- v. During the bid process, before signing the contract, if the bidder fails to comply with the terms and conditions of the tender.
- vi. If during the bid process, any information provided by the bidder is found false/fraudulent/mala fide, then the office of Office of the Additional Directorate General of Police (Costal Security) shall reject the bid and, if necessary, initiate action provided.
- vii. If during the bid process, a bidder indulges in any such deliberate act as would jeopardize or unnecessarily delay the process of bid evaluation and finalization.
- viii. If a bidder engages in a corrupt practice, fraudulent practice, coercive practice, undesirable practice, or restrictive practice.

1.6. Completeness of Response

- i. The bidders are advised to study all instructions, forms, terms, requirements, and other information in the tender documents carefully. The submission of bid shall be deemed to have been done after careful study and examination of the tender document with full understanding of its implications.

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- ii. The response to this tender should be full and complete in all respects. Failure to furnish all information required by the tender document or submission of a Bid not substantially responsive to the tender document in every respect will be at the bidder's risk and may result in rejection of its Bid and forfeiture of the bid EMD.

1.7. Pre-Bid Queries on tender

- i. Authority will host a Pre-Bid meeting as per the date mentioned in the tender NIT sheet. The representatives, limited to 2, of the interested organizations may attend the pre-bid conference at their own cost. The purpose of the conference is to provide bidders with information regarding the tender and the proposed solution requirements in reference to the tender. Pre-Bid meeting will also provide each bidder with an opportunity to seek clarifications regarding any aspect of the tender and the project.
- ii. All Bidders shall e-mail their queries to Office of the Additional Directorate General of Police (Costal Security), Odisha, adgcs-odisha@gov.in. The response to the queries will be published on (<https://www.tendersodisha.gov.in/>). No telephonic / queries will be entertained thereafter. This response of Authority shall become integral part of tender document. Authority shall not make any warranty as to the accuracy and completeness of responses.
- iii. Authority shall endeavour to respond to the questions raised or clarifications sought by the Bidders. However, Authority reserves the right not to respond to any question or provide any clarification, in its sole discretion, and nothing in this clause shall be taken or read as compelling or requiring Authority to respond to any question or to provide any clarification.
- iv. Authority may also on its own motion, if deemed necessary, issue interpretations and clarifications to all Bidders. All clarifications and interpretations issued by Authority shall be deemed to be part of the Bidding Documents. Verbal clarifications and information given by Authority, or its employees or representatives shall not in any way or manner be binding on Authority.

| Name of Bidder | | | | | | |
|-----------------|-----------------|------------|--------|--------------|-------------------------------|-------------------------|
| Department Name | | | | | | |
| tender Ref. No | | | | | | |
| tender Name | | | | | | |
| tender Due Date | | | | | | |
| # | Tender Page No. | tender No. | Clause | Clause Title | Queries /Clarification Sought | Justification by Bidder |
| .. | | .. | | .. | .. | .. |

All Bidders shall e-mail their queries in above **(Microsoft Excel sheet)** format:

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1.8. Responses to Pre-Bid Queries and Issue of Corrigendum

- i. Office of the Additional Directorate General of Police (Costal Security) will formally respond to the pre-bid queries after the pre-bid conference.
- ii. Office of the Additional Directorate General of Police (Costal Security) will endeavour to provide timely response to all queries. However, Office of the Additional Directorate General of Police (Costal Security), Odisha makes no representation or warranty as to the completeness or accuracy of any response made in good faith, nor does undertake to answer all the queries that have been posed by the bidders.
- iii. At any time prior to the last date for receipt of bids, Office of the Additional Directorate General of Police (Costal Security), Odisha may, for any reason, whether at its own initiative or in response to a clarification requested by prospective Bidders, modify the tender Document by issuing a corrigendum.
- iv. The Corrigendum, if any, notifications regarding extensions, if any, and clarification to the queries from all bidders will be posted on the website mentioned in the Proposal Data Sheet or emailed to all participants of the pre-bid meeting.
- v. Any such corrigendum shall be deemed to be incorporated into this tender.
- vi. To provide prospective Bidders reasonable time for taking the corrigendum into account, Office of the Additional Directorate General of Police (Costal Security), Odisha may, at its discretion, extend the last date for the receipt of Proposals.
- vii. Notifications regarding extensions, corrigendum, will be published on the website mentioned in the tender schedule and there shall be no paper advertisement.

1.9. Proposal Preparation Cost

- i. The bidder shall be responsible for all costs incurred in connection with participation in the tender process, including, but not limited to, costs incurred in conduct of informative and other diligence activities, participation in meetings/discussions/presentations, preparation of Bid, in providing any additional information required by Office of the Additional Directorate General of Police (Costal Security), Odisha to facilitate the evaluation process, and all other related activities of the Bid process. The Authority shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
- ii. All materials submitted by the bidder shall be the absolute property of Authority and no copyright etc. shall be entertained by Authority.

1.10. Amendment of tender Document

- i. All the Corrigendum / Addendum made in the document would be published on the Portal and shall be part of tender.
- ii. The Bidders are advised to visit the portal on regular basis to check for necessary updates. Authority also reserves the right to amend the dates mentioned in this tender.

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1.11. Modification & Withdrawal of Bids

No bid can be modified by the Bidder, after the closing date and time for submission of bids. If date of submission is extended due to some reasons, modification in bids is possible till extended period provided bid has not been opened.

Withdrawal of Bids is not permissible after its submission. If the bid is withdrawn before the validity period, the EMD will stand forfeited.

1.12. Supplementary Information to the tender

If Authority deems it appropriate to revise any part of this tender or to issue additional data to clarify an interpretation of provisions of this tender, it may issue supplements to this tender. Any such corrigendum shall be deemed to be incorporated by this reference into this tender.

1.13. Sub-Contracting

Sub-contracting shall be subject to the following conditions:

- i. Sub-contracting should not dilute the responsibility and liability of the bidder.
- ii. Any changes in sub-contractors must be approved by the Office of the Additional Directorate General of Police (Costal Security) prior to conclusion of any contract between the bidder and the sub-contractor.
- iii. Office of the Additional Directorate General of Police (Costal Security) Odisha reserves the right to request discontinuation of sub-contracting of activities at any time during the contract period.
- iv. Office of the Additional Directorate General of Police (Costal Security) reserves its right to subject the sub-contractors to security clearances as it deems necessary.

1.14. Contacting the Office of the Additional Directorate General of Police (Costal Security), Odisha

- i. No Bidders shall contact the Office of the Additional Directorate General of Police (Costal Security) on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded.
- ii. If a Bidder tries to directly influence the Authority or otherwise interfere in the bid submission and evaluation process and the Contract award decision, its bid may be rejected.

1.15. Right to Terminate the Process

- i. Office of the Additional Directorate General of Police (Costal Security) may terminate the tender process at any time and without assigning any reason. Office of the Additional Directorate General of Police (Costal Security) makes no commitments, express or implied, that this process will result in a business transaction with anyone.
- ii. This tender does not constitute an offer by Office of the Additional Directorate General of Police (Costal Security), Odisha

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1.16. Right to Vary Scope of Contract

- i. Office of the Additional Directorate General of Police (Costal Security) may at any time, by a written order given to the bidder, make changes within the quantities, specifications, services, or scope of the Contract as specified.
- ii. If any such change causes an increase or decrease in the cost of, or the time required for the bidder's performance of any part of the work under the Contract, whether changed or not changed by the order, an equitable adjustment on mutually agreed terms shall be made in the Contract Price or time schedule, or both, and the Contract shall accordingly be amended. Any claims by the bidder for adjustment under this Clause must be asserted within thirty (30) days from the date of the bidder's receipt of the Office of the Additional Directorate General of Police (Costal Security), Odisha's changed order.

1.17. Rejection Criteria

Besides other conditions and terms highlighted in the tender document, bids may be rejected under following circumstances:

- i. Bids not qualifying under eligibility criteria.
- ii. Bids submitted without improper EMD or tender fees.
- iii. Bids received through any platform other than prescribed platform as mentioned in the tender.
- iv. Bids which do not confirm to the unconditional validity of the bid as prescribed in the tender.
- v. If the information provided by the Bidders is found to be incorrect / misleading at any stage / time during the Tendering Process
- vi. Any effort on the part of a Bidders to influence the Authority' s bid evaluation, bid comparison or contract award decisions.
- vii. Bids received by the Office of the Additional Directorate General of Police (Costal Security) after the last date and time for receipt of bids prescribed in the data sheet.
- viii. Bids without signature of person (s) duly authorized on the bid.
- ix. Bids without power of authorization and any other document consisting of adequate proof of the ability of the signatory to bind the Bidders.
- x. Technical Bid containing commercial details or any such hints/ calculations /extrapolations/ records.
- xi. Revelation of Prices in any form or by any reason before opening the Commercial Bid
- xii. Failure to furnish all information required by the tender Document or submission of a bid not substantially responsive to the tender Document in every respect.
- xiii. Bidders not quoting for the complete scope of Work as indicated in the tender documents, addendum (if any) and any subsequent information given to the Bidders.

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- xiv. Bidders not complying with the General Terms and conditions as stated in the tender Documents.
- xv. The Bidders do not confirm unconditional acceptance of full responsibility of providing services in accordance with the Scope of work, General Terms & Conditions and Service Level Agreements of this tender.
- xvi. If it is found that bidders have tendered separately under different names for the same contract, all such tender(s) shall stand rejected and the tender deposit of each such firm/ establishment shall be forfeited. In addition, such firms/ establishments shall be liable at the discretion of the Office of the Additional Directorate General of Police (Coastal Security), Odisha for further penal action including blacklisting.
- xvii. If after awarding the contract, it is found that the accepted bid violated any of the directions pertaining to the participation, the contract shall be liable for cancellation at any time during its validity in addition to penal action including blacklisting against the bidders.
 - a. Price Bids that do not conform to the tender's price bid format.
 - b. The total price quoted by the Bidders does not include all statutory taxes and levies applicable.

2. Bid Submission Instructions

2.1. Submission of Proposals

- i. The bidder shall submit a signed and complete Proposal comprising the documents and forms in accordance with tender requirements. **The Proposal shall be submitted in online form as described in e-tender portal (online only).** The Office of the Additional Directorate General of Police (Coastal Security) will not be responsible for any delays, loss or non-receipt of Proposals.
- ii. Proposals submitted by fax, telegram or e-mail shall be rejected.
- iii. An authorized representative of the bidder shall sign the submission letters in the required format for the Qualification Documents, Technical Proposal and the Financial Proposal and shall initial all pages as required. The authorization shall be in the form of a written power of attorney attached to the Proposal.
- iv. Any modifications, revisions, interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Proposal.

2.2. Preparation of Proposals

- i. The bidder shall prepare the bid based on details provided in the tender documents. It must be clearly understood that the quantities, specifications, and diagrams that are included in the tender document are intended to give the bidder an idea about the scope and magnitude of the work and are not in any way exhaustive and guaranteed by Office of the Additional Directorate General of Police (Coastal Security), Odisha.
- ii. The bidder shall carry out the sizing of the solution based on internal assessment and analysis, which may include the use of modelling techniques wherever necessary.

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- iii. The bidder must propose a solution to meet the requirements of the Office of the Additional Directorate General of Police (Costal Security), Odisha. If, during the sizing of the solution, any upward revisions of the specifications and/or quantity as given in this tender document, are required to be made to meet the conceptual design and/or requirements of tender, all such changes shall be included in the technical proposal and their commercial impact, thereof, shall be included in the commercial bid.
- iv. If, during the sizing of the solution, any additional product that is not listed in the tender document is required to be included to meet the conceptual design, performance requirements and other requirements of tender, all such product(s) should be included by the bidder in the technical proposal and their commercial impact, thereof, included in the commercial bid.
- v. Office of the Additional Directorate General of Police (Costal Security), Odisha will in no case be responsible or liable for any costs associated with the design/sizing of the proposed solution, regardless of the conduct or outcome of the Tendering process.
- vi. If at any stage during the currency of the contract, the solution proposed does not meet the functional requirements, conceptual design, performance requirements/SLA, and other requirements of tender, the bidder shall revise the required specifications and/or quantities as proposed by the bidder in their bid to meet the said objectives/targets. All such provisions shall be made by the bidder within the lump sum contract price, at no extra cost and without any impact to Office of the Additional Directorate General of Police (Costal Security) whatsoever.

2.3. Bidders Authorization

- i. The "Bidders" as used in the tender documents shall mean the one who has signed the tender Forms. The Bidders may be either the Principal Officer or his duly Authorized Representative, in either case, he/she shall submit a power of attorney. All certificates and documents (including any clarifications sought and any subsequent correspondences) received hereby, shall be furnished, and signed by the representative and the principal.
- ii. The authorization shall be indicated by written power-of-attorney accompanying the bid in the name of the signatory of the Proposal.
- iii. Any change in the Principal Officer shall be intimated to Office of the Additional Directorate General of Police (Costal Security) in advance.

2.4. Address for Correspondence

The Bidders shall designate the official mailing and e-mail address to which all correspondence shall be sent.

2.5. Local Conditions

- i. It will be incumbent upon each Bidder to fully acquaint itself with the local conditions and other relevant factors such as legal conditions which would have any effect on the preparation of the bid and performance of the contract and / or the cost. Office of the Additional Directorate General of Police (Costal Security), Odisha shall not entertain any request for clarification from the Bidders regarding such conditions.

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- ii. Failure to obtain the information necessary for preparing the bid and/or failure to perform activities that may be necessary for the providing services before entering contract shall in no way relieve the successful Bidders from performing any work in accordance with the tender documents.
- iii. Neither any change in the time schedule of the contract nor any financial adjustments to the contract awarded under the bidding documents shall be permitted by the Office of the Additional Directorate General of Police (Costal Security), Odisha on account of failure of the Bidders to apprise themselves of local laws and prevailing conditions.

2.6. Site Visits by Bidder

The Bidder at its own cost may visit and examine site, at a time to be agreed with Office of the Additional Directorate General of Police (Costal Security), Odisha (and obtain for himself on his own responsibility all information that may be necessary for preparing the Bid document). The visit may not be used to raise questions or seek clarification; such matters must be submitted in writing.

2.7. Language

The proposal should be filled by the bidders in English language only. If any supporting documents submitted are in any language other than English, translation of the same in English language is to be duly attested by the bidders. For purposes of interpretation of the documents, the English translation shall govern.

2.8. Bid validity period

Bid shall remain valid for the time mentioned in the Proposal Data Sheet. Bid validity may be extended by the bidder by submitting a letter to Office of the Additional Directorate General of Police (Costal Security), Odisha in writing on receipt of request from Office of the Additional Directorate General of Police (Costal Security), Odisha.

2.9. Discount

The Bidders are advised not to indicate any separate discount. Discount, if any, should be merged with the quoted prices. Discount of any type, indicated separately, shall not be considered for evaluation purposes. However, in the event of such an offer, without considering discount, is found to be the lowest, Office of the Additional Directorate General of Police (Costal Security), Odisha shall avail such discount at the time of award of Contract. For future purposes, Unit prices of all individual components will be discounted accordingly (by the overall discount % in case overall discount % is given or by the individual component discount % in case item wise discount given) to arrive at component-wise unit prices.

2.10. Only one proposal and one solution

If a Bidder submits or participates in more than one Proposal and / or presents more than one Solution, such a Bidder shall be disqualified.

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2.11. Additional Conditions

- i. No oral conversations or agreements with any official or employee of Office of the Additional Directorate General of Police (Coastal Security), Odisha shall affect or modify any terms of this tender and any alleged oral agreement or arrangement made by a bidder with any agency, official or employee of Office of the Additional Directorate General of Police (Coastal Security), Odisha shall be superseded by the definitive agreement that results from this tender process. Oral communications by Office of the Additional Directorate General of Police (Coastal Security), Odisha to bidders shall not be considered binding nor shall any written materials have provided by any person other than Office of the Additional Directorate General of Police (Coastal Security), Odisha.
- ii. Neither the bidder nor any of bidder's representatives shall have any claims whatsoever against Office of the Additional Directorate General of Police (Coastal Security), Odisha or any of its employees arising out of or relating to this tender or these procedures (other than those arising under a definitive service agreement with the bidder in accordance with the terms thereof).
- iii. All proposals and accompanying documentation of the technical proposal will become the property of Office of the Additional Directorate General of Police (Coastal Security), Odisha and will not be returned after opening of the technical proposals.
- iv. The Bidder commits himself to take all measures necessary to prevent corrupt practices, unfair means, and illegal activities during any stage of his bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it.

2.12. Right to Terminate the Process

- i. Office of the Additional Directorate General of Police (Coastal Security), Odisha may terminate the tender process at any time and without assigning any reason. Office of the Additional Directorate General of Police (Coastal Security), Odisha makes no commitments, express or implied, that this process will result in a business transaction with anyone.
- ii. This tender does not constitute an offer by Office of the Additional Directorate General of Police (Coastal Security), Odisha. The bidder's participation in this process may result in Office of the Additional Directorate General of Police (Coastal Security), Odisha selecting the bidders to engage towards execution of the contract.

2.13. Compliant proposals/Completeness of response

- i. Bidders are advised to study all instructions, forms, terms, requirements, and other information in the tender documents carefully. Submission of the bid shall be deemed to have been done after careful study and examination of the tender document with full understanding of its implications.
- ii. Failure to comply with the requirements of this paragraph may render the proposal non-compliant and the proposal may be rejected. Bidders must:
 - a) Include all documentation specified in this tender

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- b) Follow the format of this tender and respond to each element in the order as set out in this tender.
- c) Comply with all requirements as set out within this tender.
- iii. Bidder should not propose multiple options for any system software or other infrastructure proposed as part of the bid.
- iv. For all the components, wherever applicable, bidder needs to provide the data sheets of the product.

2.14. Deviations and Exclusions

Bids shall be submitted strictly in accordance with the requirements and terms & conditions of the tender. No Deviations and Exclusions to the tender are allowed. In the absence of any specific provision in the agreement on any issue, decision by Office of the Additional Directorate General of Police (Costal Security), Odisha shall be final.

2.15. Modification and Withdrawal of Bids

- i. No bid shall be altered / modified after submission to the Office of the Additional Directorate General of Police (Costal Security), Odisha. Unsolicited correspondences in this regard from Bidders shall not be considered.
- ii. No bid shall be withdrawn in the interval between the last date for receipt of bids and the expiry of the bid validity period specified by the Bidders in the Bid.
- iii. Withdrawal of a bid during this interval shall result in the Bidders forfeiture of its EMD.
- iv. Prices in any form or by any reason before opening the Commercial Bid should not be revealed. If price change is envisaged due to any clarification, revised financial Bid can be called from all the bidders by Office of the Additional Directorate General of Police (Costal Security), Odisha.

2.16. Late Bids

- i. Bids received in hard copy after the due date and the specified time (including the extended period if any) for any reason whatsoever, shall not be entertained.
- ii. The bids submitted by telex/telegram/fax/e-mail, or any other mode shall not be considered. No correspondence will be entertained on this matter.
- iii. Office of the Additional Directorate General of Police (Costal Security), Odisha reserves the right to modify and amend any of the above-stipulated conditions/criteria depending upon project priorities vis-à-vis urgent commitments.

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2.17. User license and patent rights

- i. The Vendor shall provide licenses for all software products, whether developed by it or acquired from others. In the event of any claim asserted by a third party for software piracy, the vendor shall act expeditiously to extinguish such claim. If the vendor fails to comply and Office of the Additional Directorate General of Police (Costal Security), Odisha is required to pay compensation to a third party resulting from such software piracy, the vendor shall be responsible for compensation including all expenses, court costs and lawyer fees. The Office of the Additional Directorate General of Police (Costal Security) will give notice to the vendor of such claim, if it is made, without delay.
- ii. The Vendor shall indemnify the purchases against all third-party claims of infringement of patent, trademark or industrial design rights arising from use of the goods, software package or any part thereof.

3. Bid Opening and Evaluation Process

3.1. Opening of Bids

- i. The bids that are submitted successfully shall be opened as per date and time given in Proposal Data Sheet, as per the procedure only in the presence of bidders or their respective duly authorized representatives.
- ii. Total transparency will be observed and ensured while opening the Proposals/Bids.
- iii. Office of the Additional Directorate General of Police (Costal Security), Odisha reserves the right to postpone or cancel the Bid opening schedules.
- iv. Bid opening will be conducted in two stages,
 - a) In the first stage, Pre-qualification Proposals would be opened. The EMD of the Bidders will be opened on the same day and time, on which the Pre-qualification Proposal is opened. Technical Proposals of Bidders who fulfil the Pre-qualification criteria will be opened.
 - b) In the second stage, Commercial Proposal of those Bidders whose Technical Proposals qualify, would be opened.
 - c) In the event of the specified date of Bid opening being declared as Government holiday, the bids shall be opened at the same time and location on the next working day. In addition to that, if the representative(s) of any Bidder remain(s) absent, Office of the Additional Directorate General of Police (Costal Security), Odisha will continue the process and open the bids of the all the other Bidders, whose representatives are present.

3.2. Evaluation of Bids

- i. Office of the Additional Directorate General of Police (Costal Security), Odisha will constitute a Proposal Evaluation Committee to evaluate the responses of the bidders.

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- ii. The Proposal Evaluation Committee constituted by Office of the Additional Directorate General of Police (Costal Security), Odisha shall evaluate the responses to the tender and all supporting documents / documentary evidence. The Bidders' technical solution will be evaluated as per the requirements and evaluation criteria as spelt out in the tender document.
- iii. The Committee may seek inputs from their professional and technical experts in the evaluation process.
- iv. Office of the Additional Directorate General of Police (Costal Security), Odisha reserves the right to do a reference check of the past credentials stated by the Bidder. Any feedback received during the reference check shall be considered during the technical evaluation process.
- v. The decision of the Proposal Evaluation Committee in the evaluation of responses to the tender shall be final. No correspondence will be entertained in this regard.
- vi. The Proposal Evaluation Committee reserves the right to reject any or all proposals on the basis of any deviations without assigning any reason thereof.
- vii. Proposal Presentations: The proposal evaluation committee may invite each pre-qualified Bidder to make a presentation to Office of the Additional Directorate General of Police (Costal Security), Odisha at a date, time and venue decided by Office of the Additional Directorate General of Police (Costal Security), Odisha. The purpose of such presentations would be to allow the Bidders to present their proposed solutions to the Committee and orchestrate the key points in their Proposals.
- viii. Bidders with technical qualifications may be invited to showcase their equipment and proof of concept in front of technical committees , and only those who successfully qualify in the demonstration will be eligible for the financial bid opening.
- ix. Unnecessarily elaborate brochures or other promotional materials beyond those sufficient to present a complete and effective proposal are considered undesirable and may be construed as an indication of the bidder's lack of cost consciousness. Office of the Additional Directorate General of Police (Costal Security), Odisha's interest is in the quality and responsiveness of the proposal.

3.3. Clarification on Bids

- i. During the bid evaluation, Office of the Additional Directorate General of Police (Costal Security), Odisha may at its discretion, ask the bidder for a clarification of its bid. The request for clarification and the response shall be in writing, and no change in the price or substance of the bid shall be sought, offered, or permitted. Office of the Additional Directorate General of Police (Costal Security), Odisha may ask for clarifications as many times as possible from the bidders to the satisfaction of the Technical Evaluation committee.
- ii. If the bidder fails to provide the clarification or any additional information sought, the information provided in the technical proposal only, will be used for evaluation. It is clearly understood that the additional information or clarification on the technical proposal

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provided by the bidders will not be the basis for affecting any changes in the Commercial Proposal already submitted by the bidders.

3.4. Preliminary Examination of Bids

- iii. Office of the Additional Directorate General of Police (Coastal Security), Odisha will examine the bids to determine whether they are complete, whether the required EMD has been furnished, whether the documents have been properly signed, and whether the bids are generally in order. Any bids found to be non-responsive for any reason or not meeting the criteria specified in the tender, will be rejected by Office of the Additional Directorate General of Police (Coastal Security), Odisha and shall not be included for further consideration. Any deviations in proposal response may make the bid liable for rejection. Initial Bid scrutiny will be held, and bids will be treated as non-responsive, if bids are:
 - a) Not submitted in format as specified in the tender document Received without the Letter of Authorization (Power of Attorney) Found with suppression of details.
 - b) With incomplete information, subjective, conditional offers, and partial offers submitted.
 - c) Submitted without the documents requested.
 - d) Non-compliant to any of the clauses mentioned in the tender.
 - e) With lesser validity period

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Pre-Qualification

The bidders shall be evaluated based on the Pre-Qualification criteria mentioned below. The bidders should fulfil all the following eligibility criteria, as per details mentioned below. Bidders who fulfil all the Eligibility criteria, will be considered for further Technical Evaluation. The proposal failing to meet all the below pre-qualification eligibility criteria shall be disqualified and shall not be considered for technical evaluation process. Decision of Authority shall be final in this matter and would be binding upon the bidder.

| Sr. No | Criteria | Pre-qualification Criteria description | Supporting Document |
|--------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PQ-1 | Legal Entity | <p>The bidder must be a company registered in India under Indian Companies Act 1956/2013, since last 5 years as on 31st March 2023.</p> <p align="center">OR</p> <p>The Bidder shall be a partnership firm and should be registered under Partnership Act, 1932 or LLP Act of 2008 in India, since last 5 years as on 31st March 2024.</p> <p>The bidder must have GST registration & up- to-date Income Tax Return, PAN Number as on 31st March 2024.</p> | <p>Bidder shall submit:</p> <ul style="list-style-type: none"> • Copy of Certificate of Incorporation / Registration under Companies Act 1956/ 2013 / Partnership firms Act of 1932 / LLP Act of 2008 • Memorandum and Articles of Association (as applicable) • GST Registration Certificate <p>Documentary proof for operations in India for a period of at least 5 years as on date of publication of bid.</p> |
| PQ-2 | Annual Turnover | <p>Annual Turnover:</p> <p>The bidder should have an average annual turnover of minimum INR 25 Crores from IT/ITeS business in last 3 audited financial years (2024-2023, 2023-2022, 2022-2021).</p> <p>The net worth of the bidder must be positive in the last three financial years (2024-2023, 2023-2022, 2022-2021) ending on 31st March 2023.</p> | <p>Bidder shall submit:</p> <ul style="list-style-type: none"> • Audited statement for last 3 financial years (2024-2023, 2023-2022, 2022-2021). <p>Certificate from the Statutory auditor / Independent Chartered Accountant with seal and signature clearly specifying the average annual turnover for the specified years (2024-2023, 2023-2022, 2022-2021).</p> |

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| Sr. No | Criteria | Pre-qualification Criteria description | Supporting Document |
|--------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PQ-3 | Technical Capability | <p>The bidder must have successfully undertaken at least the following numbers of similar assignments of project value specified herein: -</p> <p>One project of similar assignment, not less than the amount ₹4,00,00,000/- (Four Crore Only)</p> <p align="center">OR</p> <p>Two projects of similar project must not less than the amount ₹3,00,00,000/- (Three Crores Only) each</p> <p align="center">OR</p> <p>Three projects of similar assignment in video surveillance, each project must not less than the amount ₹2,00,00,000/- (Two Crore Only) each</p> <p>The "Similar Nature" of the work shall mean project including procurement, supply, installation, dedicated intranet in India with any state / central government / PSUs in last 7 years as on date of publication of bid.</p> | <p>Bidder shall submit:</p> <ul style="list-style-type: none"> • Copy of Work Order/agreement having the scope of work, client details and project value. <p>Completion/Partial completion certificate authorized by Govt. Representative of the client in case of ongoing works.</p> |
| PQ-4 | Blacklisting | <p>The bidder/ should not have been blacklisted/banned by any State/Central Government in India as on release date of this RFP for corrupt, fraudulent or any other unethical business practices or for any other reason.</p> | <p>Bidder shall submit:</p> <ul style="list-style-type: none"> • Undertaking on the letter head as per Annexure: 4 |
| PQ-5 | ISO Certifications | <p>The bidder should have valid ISO 9001:2015, ISO 27000 for IT Service Management Certification at the time of submission of bid.</p> | <p>Copies of the Valid certificates in the name of bidder.</p> |
| PQ-7 | Power of Attorney | <p>Power of Attorney to be on non-judicial stamp paper of appropriate value as per Stamp Act, relevant to</p> | <p>Power of Attorney signed by the respective " " or Board resolution and authorization</p> |

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| Sr. No | Criteria | Pre-qualification Criteria description | Supporting Document |
|--------|----------|----------------------------------------|-------------------------------------------------|
| | | place of execution. | letters of Board of Directors of the Companies. |

*The phrase "Substantially Completed" used in this section shall mean where the employer has certified that:

- i. Substantially Completed Projects shall mean if 75% of the contract value has been paid to the bidder as part of each project ("Completion Certificate from Client" OR "Work Order/Purchase Order and Invoice along with corresponding Bank statement duly certified by the Chartered Accountant" shall be provided as supporting document for each project.).
- ii. The Office of the Additional Directorate General of Police (Costal Security), Odisha reserves the right to contact the competent authority to verify the information.

3.5. Technical Evaluation

- iii. This shall be the second stage of the evaluation. Only those bidders who qualify for as per the pre-qualification shall be considered for technical evaluation.
- iv. In case of no response by the bidder to any of the requirements about the contents of the Technical Bid, he shall not be assigned any marks for the same.
- v. Technical bid of the bidder shall be opened and evaluated for acceptability of Techno-functional requirements, deviations, and technical suitability. The bidders shall respond to the requirements as explained below for their evaluation of experience and qualification. Also, the bidder shall refer to and respond to all technical requirements as mentioned in the RFP document.
- vi. The evaluation process would also include a presentation of technical proposals by the bidder.
- vii. Method of evaluation of selection of successful Bidder and award of Contract to bidder shall be on QCBS basis. All the bidders who secure overall minimum of 70% will be considered as technically qualified Technical Bidders.
- viii. The Evaluation Committee shall indicate to all the bidders the results of the technical evaluation through a written communication. The technical scores of the Bidders will be announced prior to the opening of the Commercial Proposals.
- ix. The technical qualification criteria are based on the following components.

| Sl. No. | Criteria | Criteria Description | Max. Marks | Documents Required |
|-------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------|
| TQ-1 | Bidder's Financial Strength | The bidder should have an average annual turnover of minimum INR 25.00 Crores in last 3 audited financial years (2021-22, 2022-23, 2023-24). | 15 | a) Audited Financial Statements for the specified years Certificate from CA / Statutory Auditor (with CA's Registration |

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| Sl. No. | Criteria | Criteria Description | Max. Marks | Documents Required |
|----------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | i. INR 25.00 Cr. to INR 50.00 Crores – 5 Marks ii. INR 50.00 Cr. to INR 75.00 Crores – 7 Marks iii. INR 75.00 Cr. to INR 100.00 Crores – 10 Marks More than INR 100 Crores – 15 Marks | | Number and Seal) specifying the turnover of the respective firms from specific area of business(es) |
| TQ-2 | Bidder's Human Resource strength | The bidder should have technically qualified resources / personnel in bidder's payroll and engaged in IT / IT services as on date of submission of bid. i. 25 to 50 resources – 1 Marks ii. 51 to 75 resources – 2 Marks iii. 76 to 100 resources – 3 Marks More than 100 resources – 5 Marks | 5 | Self-certificate from Head (HR) of the bidder specifying the total number of resources from IT / IT Services as on date of submission of bid. |
| TQ-3 | Bidder's Project Experience | The bidder should have experience of executing similar project experience with any Government Authority in India in last 5 years i. 01 Project of value INR 4 Crores – 5 Marks ii. 02 Projects of value INR 4 Crores – 10 Marks iii. 03 projects or more of value INR 4 Crores – 15 Marks The projects should have at least 4 of the following components: <ul style="list-style-type: none"> • Hardware supply, installation, testing, commissioning, | 15 | a) Contract Agreement / Work Order from client specifying project name, bidder name, value, date of order, scope of work, timelines. b) Completion Certificate / Go-Live certificate from client specifying Completion / Go-Live date, Go-Live components. |

Request for Proposal ('RFP') for Selection of System Integrator (SI) for Supply, Installation, Testing & Commissioning of Command Control Centre for Odisha Police (Coastal Security)

| Sl. No. | Criteria | Criteria Description | Max. Marks | Documents Required |
|---------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | <p>operation & maintenance</p> <ul style="list-style-type: none"> • Software application, design / development / supply, customization, installation, testing, commissioning, operation & maintenance, API integration and development. • Network infrastructure, supply, installation, testing commissioning, operation & maintenance • Civil Infrastructure (furniture, interiors) supply, installation and commissioning • Data Centre Operation & Management, Cloud DC/DR implementation <p>Power & Electrical components supply, installation, testing, commissioning.</p> | | |
| TQ-4 | Bidder's Project Experience | <p>The bidder should have experience of executing single large scale project experience with any Government Authority/PSUs in India in last 5 years</p> <ol style="list-style-type: none"> i. Single project of value INR 4 Crores to INR 07 Crores – 5 Marks ii. Single project of value INR 7 Crores to INR 10 Crores – 6 Marks iii. Single project of value INR 10 Crores to INR 15 Crores – 7 Marks iv. Single project of value more than INR 15 Crores – 10 Marks <p>The projects should have at least</p> | 15 | <ol style="list-style-type: none"> a) Contract Agreement / Work Order from client specifying project name, bidder name, value, date of order, scope of work, timelines. b) Completion Certificate / Go-Live certificate from client specifying Completion / Go-Live date, Go-Live components. |

Request for Proposal ('RFP') for Selection of System Integrator (SI) for Supply, Installation, Testing & Commissioning of Command Control Centre for Odisha Police (Coastal Security)

| Sl. No. | Criteria | Criteria Description | Max. Marks | Documents Required |
|----------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------|
| | | <p>4 of the following components:</p> <ul style="list-style-type: none"> • Hardware supply, installation, testing, commissioning, operation & maintenance • Software application, design / development / supply, customization, installation, testing, commissioning, operation & maintenance, API integration and development. • Network infrastructure, supply, installation, testing commissioning, operation & maintenance • Civil Infrastructure (furniture, interiors) supply, installation and commissioning • Data Centre Operation & Management, Cloud DC/DR implementation <p>Power & Electrical components supply, installation, testing, commissioning.</p> | | |
| TQ-5 | Bidder's Project Experience | <p>The bidder's demonstrable expertise and experience of setting up and O&M of CCC Room / Data Centre / Integrated City Operation Platform / Security and Surveillance Control Room / NOC / SOC / Surveillance Control Room built for Highways, Railways, Airports, and other government establishments etc. during last five years (as on date of submission of bid): Each project shall carry 5 marks</p> | 15 | Bidder's Relevant Experience |
| TQ-6 | Certifications | <p>Certificates that the bidder possesses (2.5 Marks each)</p> <ul style="list-style-type: none"> • CMMi Level 3 • CMMi Level 5 | 5 | Copies of the Certificates, valid as on the date of submission of bid. |

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| Sl. No. | Criteria | Criteria Description | Max. Marks | Documents Required |
|----------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------------|
| TQ-7 | Approach & Methodology | a) Understanding of the project requirement - 10 Marks b) Proposed Solution & d. Work Plan - 10 Marks c) Proof of Concept / Demonstration - 10 Marks | 30 | Presentation & Demonstration |

3.6. Consortium/Joint Ventures of Firms

Consortium or Joint Ventures are not allowed in this tender.

3.7. Commercial Bid Evaluation

- i. The commercial bids shall not be opened by Office of the Additional Directorate General of Police (Costal Security), Odisha until the evaluations of technical bids have been completed. The technically shortlisted Bidders will be informed of the date and venue of the opening of the Commercial Proposals through email or written communication.
- ii. Prices quoted indicating total prices for all the deliverables and services shall be fixed and final and shall remain constant throughout the period of the contract and shall not be subject to any upward modifications, on any account whatsoever. The Bid Prices shall be indicated in Indian Rupees (INR) only and payments shall be made to successful bidders in Indian currency only.
- iii. The bid should clearly indicate the price to be charged without any qualifications whatsoever and should include all taxes, duties, fees, levies, works contract tax and other charges as may be applicable in relation to the activities proposed to be carried out. Office of the Additional Directorate General of Police (Costal Security), Odisha reserves the right to ask the Bidder to submit proof of payment against any of the taxes, duties, levies indicated.
- iv. Any tax rates as applicable will be paid by Office of the Additional Directorate General of Police (Costal Security), Odisha. Similarly, any benefits arising due to downward revision in tax rates, or any exemptions availed by the Bidders organization should be passed on to Office of the Additional Directorate General of Police (Costal Security), Odisha.
- v. The individual cost components as detailed later in the tender shall be submitted in the pdf. In Financial Bid as instructed in tender portal. The summary of all components shall be provided as BoQ format in excel.
- vi. An adjustable price quotation or conditional proposal shall be treated as non-responsive, and the bid may be rejected.

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- vii. Bidders are advised to exercise adequate care in quoting the prices. No excuse for corrections in the quoted figures will be entertained after the commercial proposals are received.
- viii. Errors & Rectification: Arithmetical errors will be rectified on the following basis:
 - ix. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected.
 - x. If there is a discrepancy between words and figures, the amount in words will prevail.
 - xi. Bidder should provide all prices as per the prescribed format provided in Volume I of the tender.
 - xii. Bidders shall indicate the unit rates and total Bid Prices of the equipment/ services, it proposes to provide under the Contract. Prices should be shown separately for each item as required in the tender.
 - xiii. Bidder should not leave any field blank. In case the field is not applicable, Bidder must indicate "0" (Zero) in all such fields.
 - xiv. If there is no price quoted for certain material or service, the bid shall be declared as disqualified.
 - xv. The Bidder needs to account for all Out-of-Pocket expenses related to Boarding, Lodging and other related items in the commercial bids. Any additional charges shall be borne by the bidder. To evaluation of Commercial Bids, Office of the Additional Directorate General of Police (Costal Security), Odisha shall make appropriate assumptions as mentioned below to arrive at a common bid price for all the Bidders. This however shall have no co-relation with the Contract value or actual payment to be made to the Bidder.
 - xvi. The price quoted in the Commercial Proposal shall be the only payment, payable by Office of the Additional Directorate General of Police (Costal Security), Odisha to the successful Bidder for completion of the contractual obligations by the successful Bidder under the contract, subject to the terms of payment specified as in the proposed commercial bid or the one agreed between Office of the Additional Directorate General of Police (Costal Security), Odisha and the Bidder after negotiations.
 - xvii. The bid amount shall be inclusive of packing, forwarding, transportation, insurance, delivery charges and any other charges as applicable. Any other charges as applicable shall be borne by the bidder.
 - xviii. Percentage (%) of taxes etc. if any, to be claimed shall be indicated in the Price bid, otherwise it will be presumed that rates are inclusive of all taxes and no plea would be accepted in this regard after opening of the tenders and during the validity of the contract.

3.8. Award Criteria

- i. Evaluation criteria proposed to be adopted will be Quality cum Cost Based System (QCBS). A weightage of 70% shall be awarded for Technical Bid Score and a weightage of 30% shall be awarded for Commercial Bid Score.

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- ii. The bidder would be technically evaluated out of 100 marks. All the bidders who secure overall minimum of 70% (70 Marks out of 100 across all the components together) will be considered as technically qualified. Technical score of all bidders shall be calculated on the basis of the following formula:
- iii. Technical Score of bidders (TS) = Technical Marks received by the bidder x 70%
- iv. The Bid having the Lowest Commercial Quote shall be termed as the Lowest Evaluated Bid and will be awarded 100 marks. and a Commercial Score of 30. Commercial score of all the other bidders will be calculated on the basis of the following formula:
- v. Commercial score of bidders (CS) = $\frac{\text{Commercial Quote of the lowest bidder} \times 100}{\text{Commercial Quote of the bidder}} \times 30\%$
- vi. Commercial Quote of the bidder
- vii. Final Score of the bidder: Final Score of each bidding party will be computed by adding the technical score and Commercial Score on the basis of the following formula:
- viii. Total Score = TS + CS
- ix. The bidder whose bid has secured the "Highest Total Score" out of 100 as per above evaluation will be considered as Most responsive bid.
- x. In case of a tie where two or more bidders achieve the same highest overall score, the bidder with the higher technical score will be invited first for negotiations.
- xi. Office of the Additional Directorate General of Police (Costal Security) Odisha is not bound to accept the Most responsive bid or any bid and reserves the right to accept any bid, wholly or in part.

3.9. Notification of Award

- i. Prior to the expiration of the validity period, Office of the Additional Directorate General of Police (Costal Security) will notify the successful bidders in writing or by fax or email, that its proposal has been accepted. In case the tendering process / public tender process has not been completed within the stipulated period, Office of the Additional Directorate General of Police (Costal Security) may like to request the bidders to extend the validity period of the bid. Upon the selected bidder's furnishing of Performance Bank Guarantee, the Authority will notify all other bidders who are not selected.
- ii. At the time, Office of the Additional Directorate General of Police (Costal Security) notifies the successful bidder that its bid has been accepted by sending the proforma of contract, incorporating all clauses/ agreements between the parties.

3.10. Contract Finalization and Award

- iii. The written advice to any change shall be issued by Office of the Additional Directorate General of Police (Costal Security) Odisha to the selected bidder within 4 (four) weeks prior to the due date of commencement of services.
- iv. The selected Bidder should convey acceptance of the award of contract by returning duly signed and stamped two sets of agreement within 7 days of receipt of the communication.

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- v. Upon notification of award to the successful Bidder, Office of the Additional Directorate General of Police (Costal Security) will promptly notify each unsuccessful Bidder.

3.11. Notification of Award

- i. Prior to the expiration of the validity period, Office of the Additional Directorate General of Police (Costal Security), Odisha will notify the successful bidders in writing or by fax or email, that its proposal has been accepted. In case the tendering process / public tender process has not been completed within the stipulated period, Office of the Additional Directorate General of Police (Costal Security), Odisha may like to request the bidders to extend the validity period of the bid. Upon the selected bidder's furnishing of Performance Bank Guarantee, the Authority will notify all other bidders who are not selected.
- ii. At the time, Office of the Additional Directorate General of Police (Costal Security), Odisha notifies the successful bidder that its bid has been accepted by sending the proforma of contract, incorporating all clauses/ agreements between the parties.

3.12. Performance Bank Guarantee

- i. The PBG (10% of total contract value) shall be submitted within 30 days of notification of award done through issuance of the Work Order/ Letter of Acceptance valid for the entire period of the project. Office of the Additional Directorate General of Police (Costal Security), Odisha shall facilitate the signing of contract within the period of 30 days of notification of award. However, it is to be noted that the date of commencement of project and all contractual obligations shall commence from the date of issuance of Work order/ letter of acceptance, whichever is earlier. All reference timelines as regards execution of project and payments to bidder shall be considered as beginning from date of issuance of Work Order/ letter of acceptance, whichever is earlier.
- ii. The Performance bank guarantee may be discharged / returned by Office of the Additional Directorate General of Police (Costal Security) upon satisfactory completion of project as per the tender and contract. However, no interest shall be payable on the PBG. The selected bidder shall be responsible for extending the validity date and claim period of the Performance Bank Guarantee as and when it is due on account of non-completion of the project and warranty period. In case the selected bidder fails to submit performance bank guarantee with the time stipulated, Office of the Additional Directorate General of Police (Costal Security), Odisha at its discretion may cancel the work order placed with the selected bidder.
- iii. Office of the Additional Directorate General of Police (Costal Security) shall invoke the performance guarantee in case the selected bidder fails to discharge their contractual obligations during the period, or if the Authority incurs any loss due to bidder's negligence in carrying out the project implementation, as per the agreed terms & conditions. Notwithstanding and without any prejudice to any rights whatsoever of Office of the Additional Directorate General of Police (Costal Security) under contract, the proceeds of PBG shall be payable to Office of the Additional Directorate General of Police (Costal Security) as compensation, for any loss resulting from bidder's failure to complete its obligations under the Contract. Office of the Additional Directorate General of Police (Costal

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Security) shall notify the bidder in writing, of the exercise of its right, to receive such compensation within 14 days, indicating the contractual obligations for which the bidder is in default.

- iv. The Authority shall also be entitled to make recoveries, from the bidder's bills, PBG, or from any other amount due to the bidder, the equivalent value of any payment made to the bidder due to inadvertence, error, collusion, misconstruction, or misstatement.

3.13. Signing of Contract

- i. After the Office of the Additional Directorate General of Police (Costal Security) notifies the successful bidder that their proposal has been accepted, Office of the Additional Directorate General of Police (Costal Security) shall enter into a contract, incorporating all clauses, pre-bid clarifications and the proposal of the bidder, between Office of the Additional Directorate General of Police (Costal Security), Odisha, and the successful bidder.
- ii. After completing negotiations, the Authority shall issue a Letter of Intent to the selected bidder and promptly notify all other bidders who have submitted proposals about the decision taken.

3.14. Failure to Agree with the Terms and Conditions of the Agreement

- i. Failure of the successful bidders to agree with the terms and conditions of draft Agreement and tender shall constitute sufficient grounds for the annulment of the award, in which event Office of the Additional Directorate General of Police (Costal Security) may award the contract to the next Most responsive bid or call for new proposals from the interested bidders.
- ii. In such a case, the Office of the Additional Directorate General of Police (Costal Security) shall forfeit the PBG of the successful bidder.

4. Fraud and Corrupt Practices

4.1.1. The Bidders and their respective officers, employees, agents and advisers shall observe the highest standard of ethics during the Bidding Process. Notwithstanding anything to the contrary contained herein, the TIA may reject bid without being liable in any manner whatsoever to the bidders if it determines that the bidders has directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice in the Bidding Process.

4.1.2. Without prejudice to the rights of the TIA under Clause 5.1.1 hereinabove, if a Bidders is found by the TIA to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice during the Bidding Process, such Bidders shall not be eligible to participate in any tender or Tender issued by the TIA during a period of 2 (two) years from the date such Bidders is found by the TIA to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice, as the case maybe.

4.1.3. For the purposes of this Clause 5.1.2, the following terms shall have the meaning hereinafter respectively assigned to them:

- (A) "corrupt practice" means (i) the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the actions of any person connected with the Bidding Process (for avoidance of doubt, offering of employment to, or employing, or engaging in any manner whatsoever, directly or indirectly, any official of the TIA who is or has been associated in any manner, directly or indirectly, with the Bidding Process or the LOA or has dealt with matters concerning the Contract Agreement or arising there from, before or after the execution thereof, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of the TIA, shall be deemed to constitute influencing the actions of a person connected with the Bidding Process); or (ii) save and except as permitted under the Tender document, engaging in any manner whatsoever, whether during the Bidding Process or after the issue of the LOA or after the execution of the Contract Agreement, as the case may be, any person in respect of any matter relating to the Project or the LOA or the Contract Agreement, who at any time has been or is a legal, financial or technical adviser of the TIA in relation to any matter concerning the Project;
- (B) "Fraudulent practice" means a misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Bidding Process.
- (C) "Coercive practice" means impairing or harming or threatening to impair or harm, directly or indirectly, any person or property to influence any person's participation or action in the Bidding Process.
- (D) "Undesirable practice" means (i) establishing contact with any person connected with or employed or engaged by the TIA with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the Bidding Process; or (ii) having a Conflict of Interest; and
- (E) "Restrictive practice" means forming a cartel or arriving at any understanding or arrangement among Bidders with the objective of restricting or manipulating a full and fair competition in the Bidding Process.

5. Miscellaneous

5.1.1. The Bidding Process shall be governed by, and construed in accordance with, the laws of India and the Courts at Cuttack, Odisha shall have exclusive jurisdiction over all disputes arising under, pursuant to and/ or in connection with the Bidding Process.

5.1.2. The TIA, in its discretion and without incurring any or liability, reserves the right, at any time, to:

- (A) suspend and/ or cancel the Bidding Process and/ or amend and/ or supplement the Bidding Process or modify the dates other terms conditions relating thereto.
- (B) consult with any Bidders in order to receive clarification or further information.
- (C) retain any information and/ or evidence submitted to the TIA by, on behalf of, and / or in relation to any Bidders; and / or
- (D) Independently verify, disqualify, reject and/ or accept any and all submissions or other information and/ or evidence submitted by or on behalf of any Bidders.

5.1.3. It shall be deemed that by submitting the Bid, the Bidders agrees and releases TIA, its employees, agents and advisers, irrevocably, unconditionally, fully and finally from any and all liability for claims, losses, Damages, costs, expenses or liabilities in any way related to or arising from the exercise of any rights and/ or performance of any obligations hereunder, pursuant hereto and/ or in connection herewith and waives any and all rights and/ or claims it may have in this respect, whether actual or contingent, whether present or future.

5.1.4. The single currency for evaluation is Indian Rupee (INR). The conversion rate of Foreign Currencies shall be the State Bank of India Bill Selling Rate of exchange as on the relevant date of the financial statements.

6. Scope of Work

Odisha Police Coastal Security has planned to develop a state-of-the-art Command and Control Centre as the core infrastructure to enhance maritime security and surveillance. This facility will serve as the nerve center for real-time monitoring, coordination, and response to coastal threats and emergencies. Equipped with advanced technologies such as high-resolution surveillance systems, integrated communication networks, and data analytics tools, the Command-and-Control Centre will enable seamless integration with drones, VHF communication systems, and other coastal security equipment. It will also ensure interoperability with the Indian Navy, Coast Guard, and other maritime agencies, fostering a unified approach to safeguarding Odisha's coastline.

The establishment of the Command-and-Control Centre (CCC) has been planned in three strategic phases:

1. Phase 1 – Development of core infrastructure. (Current RFP)
2. Phase 2 – Installation and integration of hardware and software systems (Future Plan)
3. Phase 3 – Recruitment and induction of trained technical personnel to operate (Future Plan)

To maximize its effectiveness, the CCC will collaborate with a range of agencies and departments, including:

- National Agencies and Data banks: NTRO, NISHAR, NAB, IB, Indian Coast Guard and the Indian Navy.
- National/ State Departments: Forest Department, Fisheries Department, and Port Authorities.
- Other Stakeholders: The upcoming National Maritime Domain Awareness (NMDA) initiative.

The system should be designed to ensure future scalability and seamless integration with various coastal security equipment. It must support integration with drones (UAVs) for real-time surveillance and monitoring, including video feed and telemetry data transmission. Provisions for VHF radio communication compatibility should enable interoperability with coastal patrol units and other field assets. The system must also include open APIs for integration with platforms used by the Navy, Coast Guard, and other maritime agencies, facilitating secure data exchange and coordination. Additionally, the architecture should support interoperability with other security equipment, such as radars, AIS (Automatic Identification System), and motion detectors, while adhering to secure data-sharing protocols.

6.1. Civil Infrastructure and Interior

6.1.1. ICCC Interiors

The CCC interiors shall be state of the art adhering to various best practices norms for control centers wherein the scope includes designing, engineering, supply & installation of 24X7 Critical Control Room Interiors. It shall be designed properly in terms of Aesthetics, Ergonomics and Functionality. Various aspects should be considered while designing Control Room area to create ideal workplace, considering physiological aspects such as line of sight and field of vision and

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cognitive factors such as concentration and perceptivity as per latest ISO Ergonomic Norms. The following norms shall be adhered to: -

- The entire wall paneling and partition system must be 100% modular with type self inter lockable panels.
- Quality Certifications for Control Room (Wall Paneling/ Partition & Ceiling) -
 - ✓ ASTM standards, as applicable from time to time, for Wall Paneling & Partition tiles.
 - ✓ Compliant to IS and ISO standards.
 - ✓ The proposed interior system should be modular, scalable & Sustainable and shall comply to ISO 11064 (Ergonomic Design of Control Centers).
 - ✓ All material / finished components should be rugged enough to handle 24/7, 365 days VOC's (within permissible limits) working environment.

6.1.2. Civil and Architectural work

The scope for civil work in this RFP is to furnish the CCC in all aspects. The furnishing includes but not limited to the following:

- Cutting and chipping of existing floors
- Hardware and metals
- Glazing
- Paint work
- False flooring
- False ceiling
- Storage
- Partitioning
- Doors and locks
- Fireproofing all surfaces
- Cement concrete works
- Insulation and Soundproofing
- Woodwork and Paneling.

All material to be used shall be of fine quality ISI marked unless otherwise specified in Technical Specifications.

6.1.3. False Ceiling

The successful bidder shall install the top false ceiling at CCC. This false ceiling shall house A/C ducts (if required) and cables of electrical lighting, firefighting, and CCTV. Appropriate pest control measures shall be taken to keep pests at bay.

6.1.4. Raised Flooring

The successful bidder shall be responsible for raised flooring at CCC if required and provide suitable pedestal and under structure designed to withstand various static and rolling loads subjected to it in server racks. The entire raised floor shall have laminated floor covering and beadings on all sides of the panel.

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6.1.5. Electrical Distribution System

The successful bidder shall be responsible for installation of the electrical distribution system at CCC. SI shall be responsible for proper and uninterrupted working and shall ensure this by having the IT equipment, essential building infrastructure necessary of uninterrupted operations:

- UPS system with battery bank for critical loads
- AC Distribution Boards as per requirement.

6.1.6. Electrical and Communication work

The successful bidder shall do complete electrical cabling and, communication infrastructure work for CCC, which shall include but not limited to:

- Main electrical panel in CCC
- Power cabling
- UPS distribution board
- UPS point wiring
- Power cabling for utility components and utility points etc.
- Online UPS
- Earth pits for the component
- Metering for different loads
- The bidder shall use fire retardant cables of rated capacity exceeding the power requirements of existing and proposed components to be used at maximum capacity.
- All communication network and infrastructure works including Ethernet cabling, modems, switches, routers, patch panels, Wi-Fi routers etc. for facilitation of **inter-CCC** and **temporary command** and **control center networking**.
- All materials conform to ISI standards as per industry practice.

6.1.7. Lighting Works

The successful Bidder shall be responsible for the lighting works at CCC. Following items need to be undertaken by bidder for lighting:

- Supply of all equipment associated with implementation of lighting including fixtures, lamps, wiring etc.
- Wiring for lighting system in the building.
- Installation of lighting fixtures.
- Warranty for the lighting equipment.
- Critical lights shall be connected to UPS for uninterrupted lighting.
- Post the installation, bidder shall ensure that the lux levels of the building are as per IES-HB-10-11.

6.1.8. CCTV System

The bidder shall provide CCTV system within the CCC on 24X7 basis. All important areas of the CCC along with the non- critical areas like locations for entry exit of CCC, Entry and Exit of building premises need to be under constant video surveillance. Monitoring cameras shall be installed strategically to cover all the critical areas of all the respective locations.

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Cameras and system to be used as per the specifications provided under relevant sections.

6.1.9. Access Control System

The Biometric/Access card-based Access Control System shall be deployed at CCC with the objective of allowing entry and exit to and from the premises to authorized personnel only with appropriate door locks and controller assemble connected with BMS system if available. The system deployed shall be based on proximity as well as biometric technology for critical areas and proximity technology for non-critical areas.

The system to be provided as per the specifications provided under relevant section.

6.1.10. Rodent Repellent system

Since good amount of cabling runs in the CCC and the damage to any cable by rodents could be of serious concern so an effective system to curb this need to be provided which helps is keeping the rodents away from the CCC area and at the same time it should not kill the rodents. Other than this system SI also need to conduct periodic pest control using chemical spray once in a quarter as a contingency measure to effectively fight pests once the CCC is up and running and during the entire O&M period.

The system to be provided as per the specifications provided under relevant section.

6.1.11. Control Desk for Workstation

The Control Desk shall conform to the high standard of engineering as mentioned in the document, meeting the specified codes, standards and designs. It shall be capable of performing 24X7 operations under the specified environmental condition in compliance with control room ergonomic norms i.e. ISO 11064. All the certificates and reports mentioned below and in BOQ shall be submitted along with the technical bid.

| SL | Specifications | Compliances (Yes/No) |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 1 | Structure | |
| 2 | Made of heavy-duty extruded vertical and horizontal aluminium profiles. The extrusions shall be duly powder coated with 40+ microns over all surfaces. All sheet metal parts shall be finished with a durable, black, electrostatic powder coating. OEM shall have a valid trademark registration certificate issued by the Government of India for the Control Desk proposed in this tender. Valid Trademark registration certificate to be submitted along with the technical bid. | |
| 3 | To allow future extension and expansion, a weld-free system shall be proposed. Interconnecting joints shall not be visible. The structure shall be rigid enough to withstand BIFMA X5.5 tests. OEM shall have had BIFMA X5.5 certificate for at least five years prior to April 1 st , 2023. The structure shall allow easy assembly of hinged shutters, slat wall, gland plate, and monitor arms in extremely rigid manner. Valid certificate of BIFMA X5.5 from | |

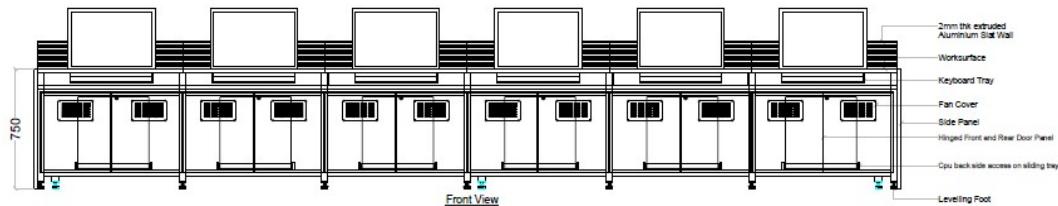
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| SL | Specifications | Compliances (Yes/No) |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| | authorized agencies to be submitted along with technical Bid. | |
| 4 | The EPD (Environmental product declaration) of Control Desk shall be verified in accordance with ISO 14025 (from UL/Intertek) for Impacts on Environment by Control Desk. Valid report/document from UL/Intertek to be submitted along with the technical bid. | |
| 5 | Tabletop: The material of the working surface shall be minimum 25 mm thick MDF with High-Pressure laminate. The proposed Control Desk's life cycle should be assessed (from approved LCA consultant) for environmental impacts associated with all the stages of a product's life for cradle to grave analysis. Valid report/document from UL/Intertek to be submitted along with the technical bid. | |
| 6 | Slat Wall: Slat wall shall be made of approximately 2mm thick extruded aluminium (aluminium alloy). The proposed Control Desk shall be UL Listed and valid certificate to be submitted along with the technical bid. | |
| 7 | Modular removable PU nosing: The front edge of consoles is the component which comes in frequent contact of the operator. The soft polyurethane edge is meant to prevent injury (accidental impact) to operator during emergency and it also reduces the contact stress. In case of damage to this edge the desk design shall permit quick & easy replacement within half an hour without taking any shutdowns or removal of the tabletops. Audit certified design feature of modular PU Edge: High-density polyurethane moulded on industrial grade aluminium core to form 50mm deep tapered edge to be installed on worktop. In case of damage or wear, the edge shall be mechanically replaceable within 30 minutes without opening or removing the worktop. Valid UL audit certificate to be submitted along with the technical bid. Extruded PU edging/PVC T-beading shall be deemed unacceptable. | |
| 8 | Monitor Arm: The Console shall feature ergonomic display mounting arms. It shall enable quick & easy replacement of VESA mounts & arm extensions as per the ergonomic. UL audit certified design feature of monitor arm assembly shall have auto lock, push & remove feature for quick release of VESA mounts and modular arm extensions for ease in maintenance and fixing of monitor by one technician within 30 seconds without using any tools. Valid UL audit certificates to be submitted along with the technical bid. | |
| 9 | The proposed control desk shall be ANSI/BIFMA e3-2019 certified/tested at least for level 3 from UL/Intertek as per Furniture Sustainability Standard to identify the sustainability level of the furniture with respect to the environmental, health & wellness, and social impacts applicable to product(s). Valid certificate to be submitted along with the technical bid. | |

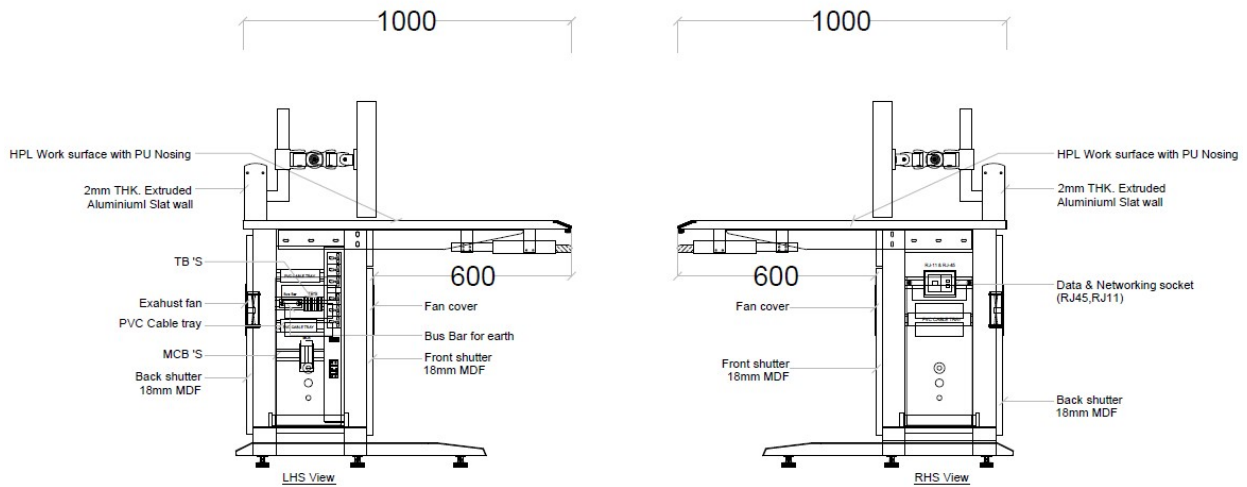
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| SL | Specifications | Compliances (Yes/No) |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 10 | The proposed control desk/Workstation shall satisfy the dimensional requirements of BS EN ISO 11064: 2013; Ergonomic design of control centres – Part 4: Layout and dimensions of workstations. Valid Ergonomic test certificate from UL/FIRA to be submitted along with the bid. | |
| 11 | Shutters & Side Legs: Front, and back shutters shall be of 18 mm Laminated MDF Board with premium finish. Side leg shall be of 25mm of the same finish. The proposed console shall be Greengard Gold certified. OEM shall have had this certificate for at-least five years prior to April 1st, 2023. Valid certificate from UL/Intertek to be submitted along with the technical bid. | |
| 12 | Cable Trays and Wiring: The Console shall be designed with vertical and horizontal cable trays to allow for continuous cable management between the cabinets. Wire shall be routed into the cabinet through gland plate. The proposed console shall be RoHS Certified/tested from UL/Intertek and the valid certificate/ test report shall be submitted along with the technical bid. | |
| 13 | Hardware All bolts shall be of SS material to avoid rust due to environment. The remaining hardware shall be Nickel Plated MS. | |

Please refer the below design for manufacturing of Control Desk:



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6.1.12. Chair for Control Desk

| SL | Minimum Requirements | Compliances (Yes/No) |
|----|-------------------------------------------------------------------------------------------------------------------|----------------------|
| | The Chair for the same Shall have the below mentioned parameter. | |
| 1 | High Back Chair, PU adjustable Arm, Chrome Base, Gas Lift, Back Net Tapestry & Seat fabric Tapestry, Synchro Tilt | |
| 2 | Finish Colour: Multiple Colour Options | |
| 3 | Certifications: Green Guard, Indoor Advantage | |
| 4 | Upholstery Material: Fabric | |

6.2. Command Control Centre: Technology Components

The following is the scope of work to enable the deployment Command & Control Centre (CCC) at Office of the Additional Directorate General of Police (Coastal Security).

The scope of the project involves Design, Supply, Install, Commission, Test, Deploy and Warranty support & maintenance of Integrated and Unified Command & Control Center Solution with 3 years comprehensive on-site warranty as defined in this document.

6.2.1. Active LED Wall with 1.57 mm or less Pixel Pitch of approx. Size: Width 11.8 feet / 3.6m x Height 6.6feet / 2 m or more for command Centre

| SL | Parameter | Compliances (Yes/No) |
|----|----------------------------|---------------------------|
| 1. | Total Resolution of Screen | 2304 X 1296 / UHD or more |
| 2. | Cabinet Size | 600mm x 337.5mm |
| 3. | Pitch pitch | 1.57 mm or less |
| 4. | Pixel Configuration | 3 in 1 SMD |

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| SL | Parameter | | Compliances (Yes/No) |
|-----|-----------------------------------------------------------------------|------------------------------------------------|----------------------|
| 5. | Weight per Cabinet | 7 Kg or less | |
| 6. | Physical Pixel Density (pixels/m ²) | 409600 or more | |
| 7. | Flatness of Unit Case (mm) | ±0.5 or less | |
| 8. | Cabinet Depth | 72mm or less | |
| 9. | Unit Case material | Die casting Aluminium or Die Casting Magnesium | |
| 10. | Service access | Front | |
| 11. | Minimum Brightness (After Calibration) | 600 cd/m ² or more | |
| 12. | Color Temperature | 3500 - 9300 or better | |
| 13. | Visual Viewing Angle (Horizontal) | 160 or more | |
| 14. | Visual Viewing Angle (Vertical) | 150 or more | |
| 15. | Brightness Uniformity | 97% or more | |
| 16. | Color Uniformity | ±0.003CxCy | |
| 17. | Contrast Ratio | 5000 or more | |
| 18. | Processing Depth (bit) | 14 or more | |
| 19. | Power Consumption (W/m ² , Max.) | 600 or less | |
| 20. | Power Supply (V) | 100 to 240 | |
| 21. | Frame Rate (Hz) | 50 or more | |
| 22. | Refresh Rate (Hz) | 3840 or more | |
| 23. | Lifetime | 100000 hr or more | |
| 24. | Operating Temperature | 0° to +40° | |
| 25. | Operating Humidity | 10~80%RH | |
| 26. | IP rating Front | IP50 | |
| 27. | IP rating Rear | IP50 | |
| 28. | Certifications | CE, FCC, UL, EMC, RoHS BIS, CB, REACH | |
| 29. | Inputs | HDMI HDCP 2.2 , DP & OPS Slot | |
| 30. | Controller of Same Make as LED Screen | Yes | |
| 31. | Resolution Supported | 3840x2160 @ 60HZ or better | |
| 32. | Output Pixel | 8.2 Million or more | |
| 33. | Control Ports | RS232C Loop and LAN | |
| 34. | LAN Output | Minimum 16 or more | |
| 35. | Temperature Sensor | Yes | |
| 36. | Chrome Adjustment | Yes | |
| 37. | Quality & Security Standards/ Test Reports of Quoted Controller Model | IEC 62368-1:2018 UL 60950-1:2007 | |
| 38. | Original LED Configuration Software of LED Screen OEM | Yes | |

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| SL | Parameter | Compliances (Yes/No) |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| 39. | Brightness Adjustment | Yes |
| 40. | Scaling | Yes |
| 41. | HDR 10 + / HDR 10 Pro | Yes |
| 42. | Operating System | Yes |
| 43. | Remote Control | Yes remote for East Usage |
| 44. | Signal Redundancy Support | Yes |
| 45. | Secure Platform with Maximum Protection to Prevent Hacking or Unauthorised Access | Yes |
| 46. | Operating System Platform Security | Sandboxing -Jailer MD5/AES decryption API Application encryption |
| 47. | Network Security & Security testing and Certification | Https (TLS v1.2 and above) Proxy and exception domain Port Control |
| 48. | | Internal security testing TTA certification UL2900 certification for Security Manager (ANSI, FDA standard) |
| 49. | | Able to check file integrity so that downloaded file is not crashed, corrupted or manipulated |
| 50. | | Able to use encrypted contents for security |
| 51. | | Supports Application Encryption To prevent hooking application and source code |
| 52. | Designing Content & Scheduling Content Screen Wise over Network Capability to Divide Screen into Multiple Zones and Play Different Images., Video, URL, HDMI input etc in Zones | |
| 53. | Video Processor to Divide Screen into Multiple Parts. Multi Screen with PBP (Picture-By-Picture)/PIP (Picture-In-Picture). Multi screen in a single display with upto 4 input sources. Supports playing both main screen and sub screen at the same time with various layouts. | |
| 54. | Inbuilt Operating System, Internal Memory 8GB, Wi-Fi Built-in, Local Key Operation. Backup Feature to Move from One input to other incase of Failure. | |
| 55. | Inputs HDMI x 2, DP , USB x 2 or more, Output: HDMI, DP, Control inputs: RS232C in/out, RJ45 in, IR in, | |
| 56. | Remote Controller for easy Operations. | |
| 57. | OEM Brand should have active business in India from last 10 years (Incorporation Certificate Required) | |

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| SL | Parameter | Compliances (Yes/No) |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 58. | OEM Brand should have valid PF & GST registration certificate in India. | |
| 59. | OEM Brand should have valid certificates ISO9001, ISO14001, ISO45001 for India | |
| 60. | OEM Brand should have Local GSTN registration. | |
| 61. | OEM Brand should have Local Branch office, Service Branch & warehouse to maintain spares/Stand by units to provide fast and smooth service from 5 years in the State. | |
| 62. | OEM Brand should have minimum turnover of 500 Cr in last 3 financial years in India (BL/CA Certify letter required) 2019/2020/2021 (Per year) | |
| 63. | OEM Brand should have experience of supply Minimum 10 LED Screens in any Government department in last Two financial years Direct or through Partner , (Po/Supply order/Agreement/ Similar Document is required) | |
| 64. | LED OEM should have direct registered office and Direct Service Centre in state from Last 10 years with toll free Number for Call logging & with LED chip repair Centre. | |
| 65. | Bidder should submit MAF and it should be verified by OEM's Local Branch Manager | |

6.2.2. Firewall with IPS & URL Filtering

| Sr. No. | Description | Compliances (Yes/No) |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Next Generation Firewall - Architecture | | |
| 1 | Solution should propose built and provide Next Generation Firewall capabilities. | |
| 2 | Appliance based Security platform should provide Threat Prevention functionality in a single appliance. | |
| 3 | Appliance hardware should be a multicore CPU Architecture with hardened 64-bit operating system for faster processing. | |
| 4 | Solution should be able to support Firewall, IPS, Application Control, URL Filtering, AV, BOT features, Geo-Protection and cloud sandboxing. | |
| 5 | Solution should support for IPSEC VPN/SSL VPN with Client Software. | |
| Performance & Operational Requirement | | |
| 6 | Proposed solution should be supplied with Primary & HA appliance which should be same model & features of primary device. | |
| 7 | The Firewall shall support failover in case of primary hardware failure without session loss and manual intervention to a standby unit. | |
| 8 | The Firewall shall support minimum of 3 Gbps of Threat Prevention throughput with multiple security modules implemented and running. | |
| 9 | The Firewall shall support minimum of 800 Mbps of TLS/ SSL Inspection | |

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| Sr. No. | Description | Compliances (Yes/No) |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| | Throughput from day one for scanning the SSL encrypted traffic. | |
| 10 | The Firewall shall support minimum 120,000 SSL/TLS connections and 495,000 Deep packet inspection connections. | |
| Hardware & Interface Requirement | | |
| 11 | Minimum 16 Numbers of 1G Ethernet ports, Min. 2 x 10G SFP+ per firewall. | |
| 12 | Should support both Console port and USB Ports. | |
| 13 | Should have integrated power supply on both primary & HA firewalls. | |
| 14 | Should have min 4 Gb RAM in both primary & HA firewalls. | |
| 15 | Should have minimum 64 GB of Hard disk of Internal Storage for keeping the logs & generic reports. | |
| Security Operational Requirement | | |
| 16 | The solution must have ability to inspect all network traffic through policy to protect against threats including vulnerability exploits, viruses, spyware and data leakage. | |
| 17 | Solution should support the ability to work in Transparent/Bridge mode. | |
| 18 | The proposed Solution should support automatic ISP failover as well as ISP load sharing and load balancing for outbound traffic. | |
| 19 | Solution should Support 6 to 4 NAT, or 6 to 4 tunnel. | |
| 20 | The IPS should scan all parts of the session in both directions by default and should not buffer traffic before scanning for IPS. | |
| 21 | Solution should have the functionality of Geo Protection to Block the traffic country wise in incoming direction, outgoing direction or both. | |
| 22 | IPS should be able to detect and prevent embedded threats with in SSL traffic. | |
| 23 | The solution should have featured with Deep Packet Inspection SSL scanning, block files-based on extensions & should not buffer traffic before scanning for virus. | |
| 24 | The solution must be capable to inspect TLS/SSL and SSH encrypted connections regardless of port or protocol & the proposed system shall support for TLS cipher suites up to TLS 1.3. | |
| 25 | The solution should have capability to protect against Denial of Service (DoS) and DDoS attacks and should have flexibility to configure threshold values to prevent DOS and DDOS attacks. | |
| 26 | The solution should have protection against Flood attacks (UDP/TCP-syn/ICMP floods), Smurf attacks or LAND (Local Area Network Denial) attacks and other denial of service attacks. | |
| 27 | Solution should have a URL categorization, reputation-based URLs protection for checking, providing additional security against attempts to bypass the rating system. | |
| 28 | It should be able to block Instant Messaging like Yahoo, MSN, ICQ, Skype etc. | |

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| Sr. No. | Description | Compliances (Yes/No) |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| 29 | It should enable blocking of Peer-Peer applications, Bit Torrent, IRC etc. | |
| 30 | Solution should provide a mechanism to limit application usage based on bandwidth consumption. | |
| 31 | Vendor must have an integrated Anti-Bot and Anti-Virus / malware protection capabilities on the next generation firewall. | |
| 32 | The firewall should have IPS signature-based detection engine to protect internal server from known attacks SQL Injections, man-in-the-middle or Session Hijacking, URL Tampering, Cookie Poisoning etc. | |
| 33 | Solution should support detection & prevention of cryptojacking & ransomware . | |
| 34 | Anti-bot protection must be able to detect and stop suspicious abnormal network behavior. | |
| 35 | Solution must support clientless SSL VPNs , ZTNA capabilities for remote access from day one with 20 user license. | |
| 36 | Solution must support data integrity with md5, sha1 SHA-256, SHA-384 and AES-XCBC | |
| 37 | Should support both Static and all major Dynamic routing protocols. | |
| 38 | The proposed firewall must be able to integrate with SIEM,NAC or Microsoft Azure Sentinel for security information event management (SIEM) and security orchestration automated response (SOAR) solution. | |
| 39 | Firewall shall support Default zones for LAN, WAN, DMZ, VPN and WiFi; Zone isolation and zone-based policy support, Custom zones on LAN or DMZ | |
| Anti-Malware & Advanced Persistent Threat | | |
| 40 | Solution shall support cloud based and On Prem based advanced threat protection technology for preventing zero-day threats. OEM must have the own advanced threat protection technology for cloud based & On Prem based. | |
| 41 | NGFW should have cloud advanced threat protection functionality to protect organization from Advance Persistence Threats. In case any additional license is required, bidder must include it in proposal from day one. | |
| 42 | The cloud sandbox functionality block file download until a verdict is returned, that ensures no packets get through until the file is completely analyzed. The file is held until the last packet is analyzed. If the file has malware, the last packet is dropped, and the file is blocked. The threat report provides information necessary to respond to a threat or infection. | |
| 43 | The cloud sandbox should support Executables, PDF,doc , xls ,docx , xlsx , Archives (.jar, .apk, .rar, .gz, and .zip). | |
| 44 | The cloud sandbox displays a list of all the files that have been scanned and analyzed. User can filter results, search, search for specific strings to show scans from the last month, last week, last 24 hours, and in the last | |

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| Sr. No. | Description | Compliances (Yes/No) |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| | hour. | |
| 45 | The cloud advanced threat protection should have submit a sample option allows user to browse for supported files, submit, and scan them for analysis. Supported files include .EXE, .MSI, .ZIP, .APK, and .PE files with a file size of 10 MB or more and no limitation of files. | |
| 46 | Administrator can view file-analysis status details including file submission time, source /destination IP, File size, File type, Suspicious Act etc. | |
| 47 | Should support the capability of providing network-based detection of malware by checking the disposition of unknown files using SHA-256 file-hash or signature as they transit the network and capability to do dynamic analysis on-premise on purpose built-appliance or on cloud as required. | |
| High Availability | | |
| 48 | The proposed NGFW shall have built-in high availability (HA) features without extra cost/license or hardware component. | |
| 49 | The NGFW shall support stateful session maintenance in the event of a fail-over to a standby unit. | |
| 50 | The NGFW must support both Active-Passive / Active-Active stateful High Availability options. | |
| 51 | The HA solutions should support silent firmware upgrade process that ensures minimum downtime. | |
| 52 | The NGFW shall support interface link monitoring failover. | |
| Management, Forensics & Reporting | | |
| 53 | Should support both CLI and GUI configuration management. | |
| 54 | Management solution should be able to do Log analysis and Reporting in same appliance or in cloud. Vendor must propose own solution. The management & reporting platform shall be cloud based solution. | |
| 56 | Management Solution must include the option to search inside the list of events, drill down into details for research and forensics | |
| 57 | Management Solution must include predefined OnDemand, daily, weekly or monthly reports. Including at least Top events, Top sources, Top destinations, Top services etc. | |
| 58 | The solution should store analytics data minimum 30 days and one year log retention depends on disk utilization. Bidder can offer individual solution based on OEM architecture to meet the requirements. | |
| 59 | The proposed solution must support Packet Monitor, Ping, Traceroute Diagnostics tools for troubleshooting. | |
| 60 | The management platform must be capable of role-based administration, enabling different sets of views and configuration capabilities for different administrators subsequent to their authentication. | |
| 61 | The management solution must allow the report to be exported into | |

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| Sr. No. | Description | Compliances (Yes/No) |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| | other format such as PDF/ CSV etc and support the report generation on a manual or schedule (Daily, Weekly, Monthly, etc) basis | |
| Warranty and Support | | |
| 62 | All Required features of new firewall, management, reporting software should be done by OEM. | |
| 63 | License For NGFW high availability with next generation firewall security applications, including intrusion protection, application control, URL filtering, Anti-Bot, Anti-Virus, DNS protection, advanced threat protection etc, | |
| 64 | License for Management, Analyzer, any other license required to meet the above features should be provided from day 1 for min. period 3 (three) years. | |
| 65 | 3 years comprehensive warranty and support for hardware, software updates and patches shall be offered directly from the OEM | |
| 66 | OEM should have TAC and R&D center in INDIA. Proposed solution should support 24x7 remote technical support by OEM through chat/email / remote access. | |
| Industry Standard/Certification | | |
| 67 | Proposed Firewall manufacturer should be placed in Gartner Magic Quadrant of Enterprise/Network firewall for last three years. | |
| 68 | The proposed appliance should come from firewall appliance family which has TEC/ICSA labs certification/NDP/ Indian Standard, IC3S/Common Criteria. | |
| 69 | OEM should have scored minimum 97% in Exploit Block rate and 94% in Security Effectiveness in the last NSS Lab report for NGFW (2019). | |
| 70 | The firewall should have FIPS 140-2 Level 2 (with Suite B) & IPv6/USGv6 certifications from day 1. | |

6.2.3. CCTV Setup

A. 2MP Dome Camera

| SL | Parameter | Compliances (Yes/No) |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 1 | The camera should be IP based Indoor Dome with 3 mm or better Fixed lens with minimum resolution of 2 (1920*1080) Megapixel and appropriate angel of view for indoor application. Camera should carry all the accessories and mounting equipment required to make it installed and live. | |
| 2 | The camera should work with minimum illumination of 0.1 lux @ F1.4(day mode) and 0 lux @ F1.4/F1.6 (night mode IR ON) with 30 IRE AGC on condition. | |
| 3 | The camera should be UL, CE/EN/FCC certified. | |
| 4 | Cameras should be ONVIF Profile S compliant | |

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| SL | Parameter | Compliances (Yes/No) |
|----|----------------------------------------------------------------------------------------------------------------------------|----------------------|
| 5 | The internal CCTV system should be complete in all functional respect to the extent not specifically provided in this RFP. | |
| 6 | Approved Make: CP Plus/Panasonic/Bosch | |

B. 8 Channel NVR

| SL | Parameters | Minimum Requirements | Compliances (Yes/No) |
|----|-----------------------|--------------------------------------|----------------------|
| 1 | Processor | Dual Core embedded Processor | |
| 2 | IP Camera Input | 8 Channel | |
| 3 | Operating System | Embedded LINUX | |
| 4 | Operation Interface | Web/operating in local GUI | |
| 5 | Performance by Camera | 8 channel | |
| 6 | Compression | H.265/Smart H.264+/H.264/MJPEG | |
| 7 | Multi-screen Display | 1, 4, 8, 9 views | |
| 8 | Recording Resolution | 5MP/4MP/3MP/1080p/960p/720p/D1/CIF | |
| 9 | Video Display Split | 1/4 | |
| 10 | Playback | 8 Channel | |
| 11 | Power Consumption | 5Watt-10 Watt | |
| 12 | Working Temperature | 0 to 50 Deg. | |
| 13 | Humidity | 10% to 90% | |
| 14 | Storage | External HDD as per site Requirement | |

6.2.4. Edge Switch PoE - 24

| Sl. No. | Minimum Requirements | Compliances (Yes / No) |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 1 | Edge Switch PoE - 24 10/100/1000BASE-T ports + 2 10GBASE-T ports + 2 10G SFP+ ports, Stackable Managed Switch | |
| 4 | Switch Specification - Product offered must have Warrnaty/Support/Modules/Software/Features Activated from day 1 | |
| 5 | The Switch should have 24 10/100/1000Base-T PoE ports + 2 10GBase-T ports + 2 10G SFP+ ports, Managed Switch, 370w Power budget. | |
| 6 | RJ-45 console port for accessing the command line interface (CLI) of this switch for configuration, management, and monitoring, RJ-45 port for out-of-band management to configure the switch without being connected to the network, USB Port for connecting a USB storage device. | |
| 7 | Non-Blocking architecture. Switch should be Certificates FCC/CE/UL/BIS/MTCTE or Equivelent Indian Certificate for EMI and Safety Compliance. | |
| 8 | The Switch should have Operation Temperature • 0 to 50 °C (32 to 122 °F) | |

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| Sl. No. | Minimum Requirements | Compliances (Yes / No) |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| 9 | The Switch should support for Physical stacking up to 8 units per stack with dedicated Stacking Ports and support long-distance stacking over fiber and Support up to 40 Gbps stacking bandwidth. | |
| 10 | The Switch should support mechanism ERPS to prevent loop formation in Ethernet ring and enables ring to converge in less than 50 ms from node or link failure | |
| 11 | The Switch should have L3 Features i.e. Static routing, IPv6 Neighbor Discovery (ND), VRRP v2, OSPFv2/v3, PBR (Policy-based Route), Route Redistribution, RIPv1/v2/ng, IP Helper. | |
| 12 | The Switch should support VLAN,802.1Q, VLAN mirroring, Double VLAN (Q-in-Q), Private VLAN, 802.3x , RSPAN. | |
| 13 | The Switch should support Security features, 802.1X authentication, Port security , Radius & TACACS+ authentication & accounting, DAD, DAI, DoS attack prevention, SSH, Guest VLAN, Time-based ACL, IP Access List, MAC Access List. | |
| 14 | The Switch should support Multicast features, Multicast VLAN, IGMP & MLD Snooping, Flow mirroring, IGMP & MLD Snooping Querier, Per-VLAN IGMP & MLD Snooping. | |
| 15 | The Switch should support Quality of Service (QoS) features , Three Color Marker, Class of Service (CoS), Bandwidth control, WRED. | |
| 16 | The Switch should support Management features, CLI, SNMP, Dual configurations, Multiple images, RMON, LLDP/LLDP-MED, sFlow, DHCP/BOOTP Client, IPv4/IPv6 Syslog server, Debug command, 802.3ah Ethernet Link OAM, 802.1ag Connectivity Fault, Y.1731 OAM, Dying Gasp, Cable Diagnostics and Embedded 6 kV surge protection on all Gigabit Ethernet ports and on all GE RJ-45 access ports | |
| 17 | Switch should be supplied with the all necessary components like Power supply, Power cord, All Fan Module, Console Cable, Rack-mount kit, Installation Guide, etc. and necessary software image file to fulfil all above mention feature set from day 1. | |
| 18 | | |
| 19 | OEM Eligibility Criteria for Switches | |
| 20 | OEM Should be ISO 45001, ISO 27001 and ISO 14001 Certified or Equivalent Indian Certificates. OEM Should have Certificate for Industrial Cyber Security Capability (Like - IEC-62443-4-1:2018 or Equivalent Indian Certificate). All Switches, DAC Cables and Fiber Modules should be from same OEM. | |
| 21 | All Functionalities of Solution shall be IPv6 compliant and it should work on IPv6 Platform without any additional hardware/ software. | |
| 22 | All the specified features/parameters/certifications must be available on the Technical Bid opening date. Features /parameters /certifications proposed to be available in near future / on roadmap shall not be considered. | |

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| Sl. No. | Minimum Requirements | Compliances (Yes / No) |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| 23 | Process for Technical Evaluation: OEM & Bidder must conduct a Proof of Concept (PoC) using only the quoted products as specified in the tender. Substitution of equivalent or other products is not acceptable and will result in rejection of the bid. The PoC must demonstrate adherence to all defined protocols in tender and performance criteria. | |
| 24 | The OEM should have its own call center for configuration and troubleshooting support, and a fully functional Call Center / Helpdesk / TAC / Support Center in India. The process for complaint booking, call logging, and the domain mail ID & Support numbers should be clearly explained. The OEM must provide an escalation matrix for service support. | |
| 25 | The OEM should have their existence in Indian Market with a proven track record of having 10 Years. OEM should be a Company registered in India under the Indian Companies Act 1956. Copy of the firm registration in India/ Certificate of Incorporation/Tax Registration Certificate and Documentary proof must be submitted with details. | |
| 26 | OEM Eligibility Criteria for Passive and Racks Components | |
| 27 | OEM Should be International certification for the ISO 45001 Health and Safety Management System, ISO 9001 Quality Management System, ISO 14001 Environmental Management System, and ISO 14064-1 Greenhouse Gas Inventory Standards. | |
| 28 | All Passive and Racks should be from Same OEM. | |

6.2.5. 42 U Network Rack

| Sl. No. | Description | Compliances (Yes / No) |
|--------------------|---------------------------------------------------------------------------------------------------|-------------------------------|
| 1 | Rack Size | |
| 2 | Floor Mount 42U - 800 W x 1000 D. | |
| Accessories | | |
| 4 | 1U Horizontal Cable Manager | |
| 5 | FHU with 4 FAN 360CFM | |
| 6 | Vertical Power Distribution Unit with 12 x 5/15 sockets Round Pin, 230 Volts AC, 32 Amp with Plug | |
| 7 | Mounting Hardware Kit (Pack of 20) | |
| 8 | Vertical Cable Manager-42U-Loop | |
| 9 | Casters Set of 4 | |
| 10 | Adjustable Levellers set of 4 | |

6.2.6. Fire Alarm System

| SL | Description | Compliances (Yes/No) |
|-----------|--------------------|-----------------------------|
|-----------|--------------------|-----------------------------|

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| SL | Description | Compliances (Yes/No) |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| A | General Requirements | |
| 1 | Conventional Fire Alarm Panel with support for 2 Zone or more, External/in-built auto-dialler (4G GSM and PSTN support), Generic Keypad for easy operation, CE Certified. | |
| 2 | Multi Criteria Detector with accessories (5 Nos.) and Manual Call Point (2 Nos.) to be installed | |
| 3 | Hooter cum Strobe with separate power supply and inbuilt SMF Battery to ensure function even in case of power failure (1 Nos.) to be installed | |
| B | Technical Requirements | |
| 1 | Fire Alarm Panel should provide LED indication of system and individual zone status. 16*2 characters LED display or better | |
| 2 | Fire Alarm should have in-built UPS type SMPS with inbuilt battery charger | |
| 3 | Fire Alarm should have in-built transient protection for power supply and mother board. | |
| 4 | Fire Alarm Panel should have internal memory for logging at least 200 events | |
| 5 | Fire Alarm System should be installed and wiring should be done as per OEM guidelines | |
| C | OEM Criteria | |
| 1 | OEM should have ISO 9001 certification and direct presence in India. | |
| 2 | OEM of Fire Alarm System should have supplied Fire Alarms to at least 1 Central/State/PSU institution in the last 3 years. | |
| 3 | MAF from OEM of Fire Alarm is mandatory as per attached Annexure. | |

6.2.7. Access Control System

| Sl. No. | Specifications | Compliances (Yes / No) |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 1 | Proposed Access Control System should have a dedicated controller which shall share data with the access control software. The controller should support TCP/IP protocol for communication and configuration. If any expansion modules are connected, the controller needs to encrypt the data with AES-256 encryption formats. | |
| 2 | The controller should support a minimum of 1 door locally in an open architecture Controller should support 250000 database and 500000 transection. Controller CPU should be 32 BIT and runs at 200 MHz. One selectable serial port RS232/RS485. Controller must follow IPV4,IPV6,SNMP,FTP,NTP,SSL protocol | |
| 3 | Should support TSL 1.2, AES-256, OSDP encryption. | |
| 4 | Credential Capacity: Min. 25000 | |
| 5 | The System should support existing 125KHz Proximity Cards. | |
| 6 | Configurable system for user defined access policy for each access point | |
| 7 | Record, report and archive each and every activity (permission granted and | |

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| Sl. No. | Specifications | Compliances (Yes / No) |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| | / or rejected) for each access point. | |
| 8 | User defined reporting and log formats | |
| 9 | Fail safe operation in case of no-power condition and abnormal condition such as fire, theft, intrusion, loss of access control, etc. | |
| 10 | Day, Date, Time and duration-based access rights should be user configurable for each access point and for each user. | |
| 11 | One user can have different policy / access rights for different access points. | |
| 12 | Web based software intergartionn with HRMS third party software and fire alarm. Add attendance, access, visitor, in one software, | |

6.2.8. Rodent Repellant System

| SL | Specifications | Compliances (Yes/No) |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| 1 | The entry of rodents and other unwanted pests shall be controlled at the Integrated command and control centre using non-chemical, non-toxic devices. | |
| 2 | Ultrasonic pest repellents shall be provided in the false flooring and ceiling to repel the pests without killing them. However, the MSI shall conduct periodic pest control using chemical spray once in a quarter as a contingency measure to effectively fight pests. | |
| 3 | The system proposed is to protect all the equipment, areas with relevant type of high frequency sound producing device called satellites or transducers. Once powered up these transducers produce very high frequency variable sound waves (above 20 KHz) continuously which irritate the rodents and are forced to evacuate the place. | |
| 4 | The system shall cover minimum of 700 sq.ft. area per controller & shall be able to connect minimum 6 transducers per controller. The transducers shall cover minimum 200 sq.ft. of area. The devices can be tested periodically by means of a test switch provided on the Main console | |
| 5 | The satellites or Transducers shall be circular ceiling mounted low profile units that produce high decibel sound waves at very high frequency not less than 20 KHz. | |
| 6 | No looping is permitted while connecting the satellites to the main controller. Every satellite connected to the controller shall have a dedicated connection with the controller | |
| 7 | The controller shall support minimum 8 Transducers and shall come with a pair of stands and brackets. The controller is installed in the Server Room and the transducers in the problematic areas i.e. above and below false ceiling and below false flooring. | |
| 8 | Controller Features: 700 Sq. Feet of Area Coverage per system/ Controller, shall drive more than 8 Transducers with minimum @200sft coverage each, | |

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| SL | Specifications | Compliances (Yes/No) |
|----|-------------------------------------------------------------|----------------------|
| | LCD display with on-board controls for changing parameters. | |

6.2.9. Internet Router

| Sl. No. | Parameters | Description | Compliance (Yes / No) |
|---------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 1 | Multi-Services | Should deliver multiple IP services over a flexible combination of interfaces | |
| 2 | Ports | As per overall network architecture proposed by the bidder, the router should be populated with required number of LAN/WAN ports/modules, with cable for connectivity to other network elements. | |
| 3 | Speed | As per requirement, to cater to entire bandwidth requirement of the project. | |
| 4 | Interface modules | Must support up to 10G interfaces. Must have capability to interface with variety interfaces. | |
| 5 | Protocol Support | <ul style="list-style-type: none"> ▪ Must have support for TCP/IP, PPP Frame relay and HDLC ▪ Must support VPN ▪ Must have support for integration of data and voice services ▪ Routing protocols of RIP, OSPF, and BGP. ▪ Support IPV4 & IPV6 | |
| 6 | Manageability | Must be SNMP manageable | |
| 7 | Scalable | <ul style="list-style-type: none"> ▪ The router should be scalable. For each slot multiple modules should be available. ▪ The chassis offered must have free slots to meet the scalability requirement of expansion of the project in the future. | |
| 8 | Traffic control | Traffic Control and Filtering features for flexible user control policies | |
| 9 | Bandwidth | Bandwidth on demand for cost effective connection performance enhancement | |
| 10 | Remote Access | Remote access features | |
| 11 | Redundancy | <ul style="list-style-type: none"> ▪ Redundancy in terms of Power supply(s). Power supply should be able to support fully loaded chassis ▪ All interface modules, power supplies should be hot-swappable | |
| 12 | Security Features | <ul style="list-style-type: none"> ▪ MD5 encryption for routing protocol ▪ NAT ▪ URL based Filtering ▪ RADIUS Authentication ▪ Management Access policy ▪ IPSec / Encryption ▪ L2TP | |
| 13 | QOS Features | <ul style="list-style-type: none"> ▪ RSVP ▪ Priority Queuing ▪ Policy based routing ▪ Traffic shaping | |

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| Sl. No. | Parameters | Description | Compliance (Yes / No) |
|---------|------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| | | <ul style="list-style-type: none"> ▪ Time-based QoS Policy ▪ Bandwidth Reservation / Committed Information Rate | |

6.3. Command Control Centre: Utility Components

6.3.1. 10KVA UPS with 30 Mint Backup

| SL | Description | | Compliances (Yes/No) |
|-------------------------|----------------------------------------------|---------------------------------------------------------------------|----------------------|
| 1. | Rating | 10KVA/10kw (3in-1out)/1In-1out | |
| System parameter | | | |
| 2. | Technology | IGBT based Double conversion PWM based online UPS | |
| 3. | Parallel mode | 4 (N+1) | |
| 4. | Installation mode | Rack/Tower | |
| Input | | | |
| 5. | Rated voltage | 400VAC 3-phase,4-wire or 230vac 1-Phase ,3 wire | |
| 6. | Volatge Range | 176VAC -287VAC at full load, 100VAC to 287VAC at half load | |
| 7. | Rated Frequency | 50Hz/60Hz | |
| 8. | Frequency Range | 40Hz ~ 70Hz | |
| 9. | Power factor | 0.95 for Three Phase | |
| OUTPUT | | | |
| 10. | Rated power | 10KVA/10kw | |
| 11. | Voltage | Single phase, 230VAC | |
| 12. | Frequency synchronization range | Rated frequency±3Hz. Configurable range: ±0.5Hz ~ ±5Hz | |
| 13. | Rated Power Factor | Unity | |
| 14. | Crest Factor | 3:1' | |
| 15. | Voltage harmonic distortion | < 2% (linear load) | |
| 16. | Voltage Regulation | 1% | |
| 17. | Dynamic response recovery time | 60ms | |
| 18. | Inverter Overload Capability on utility mode | At 25°C: 105% ~ 125%- 5min; 125% ~ 150%-1min; 150%- more than 200ms | |
| 19. | Programmable Outlet | Available | |
| 20. | Inverter Overload Capability on battery mode | At 25°C :105% ~125%-60~ 30 s; >125%- more than 200ms | |
| Bypass | | | |
| 21. | Seprate bypass | Yes | |
| 22. | Static bypass | Inbuilt | |
| Efficiency | | | |

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| SL | Description | | Compliances (Yes/No) |
|-----------------------------|--------------------------------|------------------------------------------------------------------------|----------------------|
| 23. | ECO Mode | 96% | |
| 24. | Online mode (AC-AC) | > 96% | |
| 25. | Inverter Efficiency (DC-AC) | >92% | |
| BATTERY on 8 kw | | | |
| 26. | Type | Sealed, lead-acid,Tubular,LI-ION | |
| 27. | back up 30 min | minimum 10000 VAH | |
| 28. | Battery charging capacity | 8A | |
| 29. | Transfer Time | | |
| 30. | Mains - Battery | 0ms | |
| 31. | Inverter-Bypass | Synchronous transfer: ≤0ms | |
| | | Asynchronous transfer (default): ≤20ms | |
| 32. | Noise | <65db | |
| Panel display mode | | | |
| 33. | Display type | Graphical LCD display | |
| 34. | No of events stored | Max 256 | |
| 35. | Orientation | Gravity sense | |
| 36. | Environmental parameter | | |
| 37. | Operating temperature | 0°C ~ 50°C | |
| 38. | Storage temperature | -40°C ~ +70°C (battery excluded); -25°C ~ +55°C (battery included) | |
| 39. | Relative humidity | 5%RH ~ 95%RH, non-condensing | |
| 40. | Altitude | ≤3000m; derating when higher than 3000m | |
| Mechanical parameter | | | |
| 41. | W*D*H (mm) | 430 X 560 X 85 | |
| 42. | Weight (Kg) | 15 | |
| 43. | Ventilation | Forced -air cooled | |
| 44. | Ingress protection level | IP20 | |
| 45. | Color | Powder coated Black Texture finish | |
| 46. | Cable entry | Rear | |
| Network Management | | | |
| 47. | Smart RS232/USB | Supports Windows 2000/2003/XP/Vista/2008,Windows 7, Linux,unix and MAC | |
| 48. | SNMP | Inbuilt for web monitoring | |
| 49. | MODBUS | Inbuilt for BMS connectivity | |
| 50. | Remote alarm | Inbuilt | |
| 51. | Optional SNMP | Power management from SNMP manager and web browser | |
| 52. | Management software | Site monitor | |
| 53. | Modbus | Inbuilt via multifunction port | |

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| SL | Description | | Compliances (Yes/No) |
|-----------------------|------------------------------------------|------------------------------------------------------------------|----------------------|
| Certifications | | | |
| 54. | Safety (CE) | IEC/EN62040-1-1 | |
| 55. | Electromagnetic Compatibility (EMC) | IEC/EN62040-2, IEC/EN61000-3-11, IEC/EN61000-3-12, YD/T1095-2008 | |
| 56. | Surge Protection | IEC/EN62040-2, meeting IEC/EN61000-4-5 | |
| 57. | Energy star | As per UL approved | |
| 58. | ROHS | Yes | |
| 59. | Top 5 company in terms of revenue | Yes | |
| 60. | Quality standard | IS 9001-2015 | |
| 61. | Environment standard | ISO 14001 | |
| 62. | OSHAS | ISO 45001 | |
| 63. | IT security management | ISO 27001 | |
| Test report | | | |
| 64. | NABL Approved Government lab test report | YES | |

6.3.2. Workstation with Monitor

| SL | Parameter | Description | Compliances (Yes/No) |
|----|------------------|------------------------------------------------------------------------------------------------------|----------------------|
| 1 | Machine | For 24x7 operation, | |
| 2 | Processor | Core i7-14700 or higher | |
| 3 | Operating System | Preloaded Windows 11 professional (64 bit) Operating System for the proposed solution to be provided | |
| 4 | Generation | 14 th or more | |
| 5 | RAM | Minimum 16 GB | |
| 6 | Memory | 512 GB SSD, 1 TB SATA HDD | |
| 7 | Interface | Ethernet Ports X 2 Nos., USB Ports X 4 Nos. | |
| 8 | Power | 230 V AC | |
| 9 | Operating System | Licensed Windows OS | |
| 10 | LED Monitor | Single Display with 24 Inch monitor | |
| 11 | Keyboard | 104 keys or better | |
| 12 | Network Card | 1Gbit/s network card | |
| 13 | Antivirus | Enterprise level pre-loaded antivirus | |
| 14 | Graphic card | Nvidia T400 4GB mDP Graphics. | |
| 15 | MII | The system should be made in India in category class II | |
| 16 | Approved Make | Dell/HP/Lenovo | |

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6.3.3. Mono A3 multifunction printer

| Sl. No. | Parameter | Minimum Specifications | Compliance (Yes / No) |
|---------|------------------------------|----------------------------------------------------------------------|-----------------------|
| 1. | Function | Print, Scan, Copy | |
| 2. | Cartridge type | Separate toner and drum | |
| 3. | Print speed simplex | upto 25 ppm A4, upto 14 ppm A3 | |
| 4. | Resolution | upto 1200x1200 dpi | |
| 5. | First page out FPO | upto 8.5 sec | |
| 6. | Duplex print | Automatic | |
| 7. | Scan to destination | Save to Network Folder; Save to USB | |
| 8. | RADF | Yes | |
| 9. | Scan speed | Simplex: Up to 45 ipm (b&w/color), Duplex: Up to 18 ipm (b&w/ color) | |
| 10. | Connectivity standard | Hi-Speed USB 2.0 Device, Ethernet 10/100/1000 Base TX | |
| 11. | Memory | 1.5 GB | |
| 12. | Processor | 1 GHz | |
| 13. | Duty cycle | 80,000 pages | |
| 14. | Print Language | PCL6, Postscript 3, PDF | |
| 15. | Display panel | 6 inch touchscreen | |
| 16. | Input tray | 100 sheet MP tray, 520 sheet x 2 tray, 100 sheet RADF | |
| 17. | Output tray | 500 sheet | |
| 18. | Starter cartridge Page yield | 30,000 pages toner, 2,00,000 pages drum | |
| 19. | Warranty | 1 years onsite | |

6.3.4. SITC of Cassette Air Conditioner

| SL | Parameter | Description | Compliances (Yes/No) |
|----|---------------------------------------------------|--------------------------|----------------------|
| 1 | Tons | 3 Tons | |
| 2 | Rated cooling capacity | 10 KW | |
| 3 | Min max capacity | 5-10 KW | |
| 4 | Rated power capacity | 3400 watts | |
| 5 | ISSER | 3.6 | |
| 6 | Operating temperature | IDU (DB) °C- 19-35 | |
| 7 | Sound pressure level | 52 dBA | |
| 8 | Drain Fan | Silver ION Antibacterial | |
| 9 | Complete piping, stand , cabling, , drain piping. | As per site requirement | |

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| SL | Parameter | Description | Compliances (Yes/No) |
|----|-------------------|-----------------------------------------------------------------|----------------------|
| 11 | Warranty | 3 Years on Product, 3 Years on Condenser, 5 Years on Compressor | |
| 12 | Energy Efficiency | 3 Star and above | |

6.3.5. SITC of Fixed Speed Split AC 2 ton

| SL | Parameter | Description | Compliances (Yes/No) |
|----|---------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------|
| 1 | Tons Capacity | 2 Ton | |
| 2 | Cooling capacity | 43°C (100%) | |
| 3 | Noise Level | 32 db(A) | |
| 4 | Ambient Operation | 50°C | |
| 5 | Refrigerant gas: | R32 Environmentally friendly - no ozone depletion potential | |
| 6 | Complete piping, stand , cabling, , drain piping. | As per site requirement | |
| 7 | Special Features | Power chill operation to ensure quick cooling; Coanda airflow for uniform cooling across room | |
| 8 | Warranty | 3 Years on Product, 3 Years on Condenser, 5 Years on Compressor | |
| 9 | Energy Efficiency | 3 Star and above | |

6.3.6. SITC of Fixed Speed Split AC 0.8 ton

| SL | Parameter | Description | Compliances (Yes/No) |
|----|---------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------|
| 1 | Tons Capacity | 0.8 Ton | |
| 2 | Cooling capacity | 43°C (100%) | |
| 3 | Noise Level | 32 db(A) | |
| 4 | Ambient Operation | 50°C | |
| 5 | Refrigerant gas: | R32 Environmentally friendly - no ozone depletion potential | |
| 6 | Complete piping, stand , cabling, , drain piping. | As per site requirement | |
| 7 | Special Features | Power chill operation to ensure quick cooling; Coanda airflow for uniform cooling across room | |
| 8 | Warranty | 3 Years on Product, 3 Years on Condenser, 5 Years on Compressor | |
| 9 | Energy Efficiency | 3 Star and above | |

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6.3.7. Diesel Genset

| Sl. No. | Item | Minimum Specifications | Compliance (Yes / No) |
|----------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| 1 | General Specifications | <ul style="list-style-type: none"> Auto Starting DG Set mounted on a common base frame with AVM (Anti-Vibration) pads, residential silencer with exhaust piping, complete conforming to ISO 8528 specifications and CPCB certified for emissions. KVA rating as per the requirement to provide the supply for CCC | |
| 2 | Engine | Radiator cooled/air cooled/Water cooled, multi cylinder, 1500 RPM/3000 RPM diesel engine, with electronic/manual governor and electrical starting arrangement complete with battery, conforming to BS 5514/ ISO 3046/ IS 10002 | |
| 3 | Fuel | High Speed Diesel (HSD) | |
| 5 | Alternator | Self-exciting, self-regulating type alternator rated at 0.8 PF or better, 415 Volts, 3 Phase, 4 wires, 50 cycles/sec, 1500 RPM, conforming to IS 4722/ BS 5000, Windings of 100% Copper, class H insulation, Protection as per IP 23. | |
| 6 | AMF (Auto Main Failure) Panel | <p>AMF Panel fitted inside the enclosure, with the following: It should have the following meters/indicators:</p> <ul style="list-style-type: none"> Incoming and outgoing voltage Current in all phases Frequency KVA and power factor Time indication for hours/minutes of operation Fuel Level in fuel tank, low fuel indication Emergency Stop button Auto/Manual/Test selector switch MCCB/Circuit breaker for short-circuit and overload protection Control Fuses Earth Terminal Any other switch, instrument, relay etc. essential for Automatic functioning of DG set with AMF panel | |
| 7 | Acoustic Enclosure | The DG set shall be provided with acoustic enclosure / canopy to reduce the sound level and to house the entire DG set (Engine & Alternator set) assembly outside (open-air). The enclosure must be weather resistant powder coated, with insulation designed to | |

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| Sl. No. | Item | Minimum Specifications | Compliance (Yes / No) |
|---------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| | | meet latest MOEF/CPCB norms for DG sets, capable to withstand climate. The enclosure must have ventilation system, doors for easy access for maintenance, secure locking arrangements etc. | |
| 8 | Fuel Tank Capacity | It should be sufficient and suitable for containing fuel for Minimum 12 hours continuous operation, Complete with level indicator, fuel inlet and outlet, air vent, drain plug, inlet arrangement for direct filling and set of fuel hoses for inlet and return. | |

6.4. Electrical, Networking Works & Other Services (Passive Components for Command Control Centre)

6.4.1. Cat-6 UTP Indoor

| SL | Description | Compliances (Yes/No) |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 1 | 4 Pair Cable with integral cross -member pair separator for uniform characteristic impedance. | |
| 2 | Category 6 Unshielded Twisted 4 Pair 100 Ω cable shall be compliant with ANSI/TIA/EIA-568-C.2-1 Additional ISO/IEC 11801 2ndEd. Transmission Performance Specification for 4 Pair 100Ω Category 6 Cabling | |
| 3 | Category 6 UTP cables shall extend between the work area location and its associated telecommunications closet and consist of 4 pair, UTP cable jacket. | |
| 4 | Conductor: Solid Copper | |
| 5 | Conductor Diameter: 0.574, ± 0.01mm (23AWG) | |
| 6 | Insulator High Density Polyethylene | |
| 7 | Inner Jacket: LSZH | |
| 8 | Outer Jacket: PE –Black, Anti-Rodent with 1.1 thickness | |
| 9 | Armor: ECCS Tape (Thickness > 0.125 mm) | |
| 10 | Outer Diameter: 10.0 ± 0.3mm | |
| 11 | Max Temperature: -20°C to +70°C | |
| | Mechanical Test | |
| 12 | Should have Pulling force of 50 Kg. | |
| 13 | Crush Resistance: 1000N | |
| 14 | Bend Radius: 20 x Cable Diameter | |
| | Electrical Test | |
| 15 | Conductor Resistance: <9.38Ω /100m | |
| 16 | Resistance Unbalance: 5% Max | |
| 17 | Mutual Capacitance: < 5.6nF/100m | |
| 18 | Capacitance Unbalance: 330pF/100m. | |
| 19 | Characteristic Impedance: 100 +15 Ω conductor | |

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6.4.2. CAT-6 Patch Cord

| SL | Description | Compliances (Yes/No) |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 1 | Standardization: Compliant with Cat.6, Class E requirements: ISO/IEC 11801 2 nd Edition Compliant with Cat.6 component standards IEC 60603-7-4 and 60603-7-5 | |
| 2 | Cable shield: Tinned-copper braid | |
| 3 | Number of conductors: 8 | |
| 4 | Stranding: 7 x 0.16 mm (26 AWG) | |
| 5 | Cable jacket characteristics: cable CM | |
| 6 | Cable overall diameter: 6.0 ± 0.2mm max. | |
| 7 | Tube / Wire type: stranded conductor | |
| 8 | Insulation: solid polyolefin, 0.97±0.02 mm diameter | |
| 9 | Plug: Feature cable retention, with enhanced pull strength. The plug is designed to ensure precision wire placement, providing superior performance. | |
| 10 | Cat 6 patch cord plug to have round cable holder and strain relief boot to avoid bending. | |
| 11 | Jacket: LSZH with 8 different colour options | |
| 12 | Plug should be featured with colour ring options | |
| 13 | Plug should have high repeatability cross talk performance | |
| 14 | Plug design should be patented with unique feature | |
| 15 | Should be ETL verified; 4 Channel ETL certificate should have part code mentioned | |

6.4.3. 24 Port Copper Patch Panel (fully loaded)

| SL | Specifications | Compliances (Yes/No) |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 1 | Patch panel should be modular design, to be populated with 24 nos. Cat 6 UTP RJ 45 Keystone Jack as per specifications provided | |
| 2 | Each Ports should be with individual spring loaded shuttered for dust protection. Each port (jack) and individual replaceable. | |
| 3 | Material: Should Be made of cold rolled steel and conform to TIA / EIA 568-C.2 Component Compliant | |
| 4 | Should confirm to EIA/TIA 568A wiring Pattern | |
| 5 | Should have integral rear cable management shelf. | |
| 6 | Commercial Standards: TIA/EIA-568-B.2-1 Component Compliant FCC Subpart F 68.5 Compliant IEC-603-7 Compliant ISO 11801 Class E Compliant ETL Verified for Category 6 Component Compliance | |

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6.5. Video Conferencing System Room Based Unified VC

6.5.1. Technical Specifications of Room Based Unified VC Endpoint (At Conference Hall)

The proposed system must be based on ITU standards & hardware based. No software-based solution will be accepted. All components of the VC system like Codec, Camera, Microphones and Touch Control Panel should be from the same OEM.

| Sl. No. | Description | Specification Parameter | Compliance (Yes / No) |
|----------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| 1 | Package | UHD 2160p (4K) Dual Integrated Cameras, 4K Codec, Omnidirectional Digital Microphone and Touch Control Panel from the same OEM. | |
| 2 | Video Standards and Resolutions | It should support H.323 & SIP standards for communications. | |
| | | It should support interoperability and bandwidth saving using video compression H.264 AVC, H.264 High Profile, H.265 | |
| | | It should support 4K30 fps,1080p30 fps,720p 30 fps. | |
| 3 | Content Standards and Resolutions | It should support both wired and wireless content sharing using standard based H.239 and BFCP. It should also support audio from Laptop used for content sharing. | |
| | | It should transmit content to the far end location up to 4K15fps. | |
| | | It should support inbuilt feature for wireless content sharing from Windows, MacOS, Android, iOS Smartphones & Tables without downloading any application on the user device. | |
| | | It should support Content Annotation and White Boarding/ Black boarding capability when connected to Touch Enabled Display/Monitor. | |
| 4 | Audio Standards and Features | It should support G.711, G.728, G.729A, G.722, G.722.1, G.719 or better | |
| | | It should support 20kHz or better bandwidth with crystal clear audio and stereo sound. | |
| | | It should have inbuilt technology to identify and eliminate non-human distracting noises such as keyboard typing, paper shuffling and wrapper crinkling during video calls. | |
| | | It should have inbuilt technology to create virtual boundary within the room to capture only the voices within a defined space in the room and blocking any human or non-human voice getting | |

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| Sl. No. | Description | Specification Parameter | Compliance (Yes / No) |
|----------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| | | generated outside this virtual audio boundary during video calls. | |
| | | Automatic Gain Control and Automatic Noise Suppression | |
| 5 | Video and Audio Inputs | 1 x HDMI/HDCI/USB input for connecting main 4K Camera | |
| | | 1 x HDMI input to share 4K/Full HD content from PC/Laptop/Document camera/PTZ Camera. | |
| | | 3 x HDMI/USB inputs to connect additional PTZ cameras from same OEM to capture whiteboard/presenter and podium area in future whenever required. | |
| | | 3 x Microphone Inputs or more with support for a minimum of 3 digital omnidirectional mics. The bidder needs to quote 2 digital omnidirectional microphones with mute/unmute soft touch button on the microphone. Each microphone should have at least 20 feet pickup range. | |
| | | 1 x RCA/3.5mm stereo line-in | |
| 6 | Video and Audio Outputs | 2 x HDMI outputs for connecting primary and secondary 4K(UHD)/Full HD displays. | |
| | | 1 x RCA/3.5 mm stereo line-out | |
| 7 | Other Interfaces | 1 x 10/100/1000 Ethernet port | |
| | | 1 x USB to support system software upgrade | |
| | | Bluetooth 5.0 and Wi-Fi 802.11a/b/g/n/ac (MIMO) for Wireless Content Sharing for Guests using their Smartphones and Tablets (Android and iOS) | |
| | | 1 x RS-232 Serial Port or equivalent port for connecting to external RS-232 controller | |
| 8 | Camera | The camera should support automatic speaker framing and group framing. | |
| | | The integrated camera system should have a minimum of dual cameras with 20-megapixel 4K sensors and 7x Digital Zoom or more. Integrated, motorized privacy shutters. | |
| | | The camera system should automatically scan the room and seamlessly command the cameras to appropriately frame the users/speaker during a call without any manual intervention up to a range of 25 feet or more. | |

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| Sl. No. | Description | Specification Parameter | Compliance (Yes / No) |
|----------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| | | Video Conference Camera and Codec should be controlled using same touch panel. | |
| 9 | Touch Panel | Display: 8-inch screen or higher | |
| | | Aspect ratio: 16 x 10 | |
| | | Resolution: WXGA (1280 x 800) | |
| | | Power over Ethernet (PoE) with IEEE 802.3af support | |
| | | Designed with built-in stand support - no external stand required | |
| 10 | Network Features | H.323 and SIP bandwidth supporting up to 6 Mbps or more. | |
| | | Must support IPv4 and IPv6 from day one on both H.323 and SIP. | |
| | | Auto Gatekeeper Discovery, Lost Packet Recovery (LPR) technology, IP Precedence and DiffServ, Configurable MTU size | |
| 11 | USB Pass-Thru Mode | The system should have inbuilt functionality to use the VC system as an external camera and microphones when connected to a Laptop/PC over a single USB cable without using any external hardware components to connect to any Cloud Based VC platform like Cisco Webex, Zoom, Blue Jeans, Microsoft Teams, Google Meet, etc. | |
| | | The system should be able to support up to 1080p30fps video transmit in USB Pass-thru mode. | |
| | | It should be possible to Mute/Unmute all the microphones and control camera functionality from the same touch control panel during USB pass-thru mode. | |
| | | The system should be supplied with 10 mtrs. single USB 3.0 cable from the same OEM for USB Pass-thru mode for seamless functionality. | |
| 12 | Security | Media Encryption (H.323, SIP): AES-128, AES-256, H.235.6 support | |
| | | Authenticated access to admin menus, web interface and APIs | |
| | | Local account password policy configuration | |
| | | Global Directory/Centralized Directory/LDAP support | |
| 13 | Other Standards/features | H.460.18, H.460.19, SSL, TLS | |
| 14 | Cloud Integration | It should be possible to natively register the VC | |

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| Sl. No. | Description | Specification Parameter | Compliance (Yes / No) |
|---------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| | | system with Microsoft Teams Room and Zoom Room account for native cloud-based video calling features and experience. USB Pass-Thru mode functionality should also be available when the system in running in Microsoft Teams Room / Zoom Room mode. | |
| 15 | Additional Feature | It should be able to achieve 1080p resolution at 1024 Kbps while making video call with same set of endpoints. | |
| 16 | Warranty | The complete solution should be from the same OEM with 2-year warranty from day one. | |

6.5.2. Technical Specification for 2X2 active LED wall of 2.54 Pixel Pitch (At Rasulgarh)

| SI No | Item | Parameters | Description | Compliances Yes/No) |
|-----------------------------|----------------------------|-------------------------------------------------|------------------------------|----------------------|
| Panel | | | | |
| 1. | Physical Parameters | Pixel Configuration | 3 in 1 SMD | |
| | | Pixel Pitch (mm) | 2.5 | |
| | | Module Resolution (WXH) | 120 x 90 | |
| | | module Dimensions (W x H, mm) | 300 x 225 | |
| | | Weight per module (g) | 430 | |
| | | No. of Modules per cabinet (W x H) | 4 x 3 | |
| | | Cabinet Dimensions (W X H X D, mm) | 1200 x675 x 51 | |
| | | Cabinet Surface Area (m ²) | 0.81 | |
| | | Weight per cabinet (kg/ abinet) | 22.5 | |
| | | weight per square meter (kg/m ²) | 27.8 | |
| | | Physical pixel density (pixel/ m ²) | 160000 | |
| | | Flatness of cabinet (mm) | ±0.5 | |
| | | Cabinet Material | Die-Cast Aluminum | |
| | | Service Access | Front | |
| | | 2. | Optical Specification | Max Brightness (nit) |
| Color Temperature (K) | 3200-9300 | | | |
| Visual Viewing angle (H xV) | 160 x160 | | | |
| Brightness Uniformity | 95% | | | |

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| SI No | Item | Parameters | Description | Compliances Yes/No) |
|-------------------|----------------------------------|----------------------------------------------|-----------------------------------------|---------------------|
| | | Color Uniformity | ±0.015 Cx, Cy | |
| | | Contrast Ratio | Typ. 5000 : 1 / Peak 9000:1 | |
| | | Processing Depth (bit) | 20 (HDR 10, HDR 10 Pro) | |
| 3. | Electrical Specifications | Power Consumption (W/Cabinet, Max) | 290 | |
| | | Power Consumption (W/Cabinet, Avg) | 190 | |
| | | Power Consumption (W/m ² , Max.) | 358 | |
| | | Heat dissipation (BTU / Cabinet, Max) | 990 | |
| | | Heat dissipation (BTU / Cabinet, Avg) | 648 | |
| | | Heat dissipation (BTU/m ² , Max.) | 1222 | |
| | | Power Supply (V) | 100 to 240 | |
| | | Frame Rate (Hz) | 50 /60 | |
| | | Refresh Rate (Hz) | 3840 | |
| 4. | Operation Specification | Life time (Half Brightness) | 100000 | |
| | | Operation Temperature (°C) | 0 to +40 | |
| | | Operating Humidity | 10-80% RH | |
| | | IP Rating Front / Rear | IP 20 / IP 20 | |
| 5. | Certification | | Safety 60950-1, EMC Class B | |
| 6. | Environment | | RoHS | |
| 7. | System Controller | | Should be of same OEM | |
| 8. | 90 Degree Corner Cut | | No | |
| 9. | Service Access | | Front | |
| 10. | Warranty | | 2 years | |
| Controller | | | | |
| 11. | Video Signal | Max Resolution | HDMI/Display Port: 3840x2160 @ 60Hz | |
| | | Horizontal Frequency | HDMI/Display Port: 30kHz to 135 kHz | |
| | | Vertical Frequency | HDMI/Display Port: 30kHz to 60.31 Hz | |
| | | Synchronization | Separate Sync/Digital | |

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| SI No | Item | Parameters | Description | Compliances Yes/No) |
|-------|----------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 12. | | Input/Output Ports | IR-APL IN/OUT, LAN-01 to LAN-08, LAN IN, USB 2.0 IN, DP IN, HDMI IN 1, HDMI IN 2, HDMI IN 3, RS-232C IN/OUT, OPTIC OUT, IR & LIGHT SENSOR IN, AC IN | |
| 13. | Power | Rated Voltage | 100-240 V - 50/60 Hz 0.8A | |
| | | Power Consumption | On Mode: 60 W (Max) Standby Mode:<= 0.5 W | |
| 14. | Embedded Battery | | Applied | |
| 15. | Environmental Conditions | Operating Temperatue | 0°C to 40 °C | |
| | | Operating Humidity | 10% to 80% | |
| | | Storage Temperature | -20 °C to 60 °C | |
| | | Storage Humidity | 5% to 85% | |
| 16. | Dimensions (Width x Depth x Height) / Weight | | 446mm x 290mm x 63mm /4.5 kg | |
| 17. | Warranty | | 2 years | |

6.6. Virtual Machine (Compute)-Virtual Private Cloud (VPC)

| SL No. | Specification | Details | Compliances (Yes/No) |
|--------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 1. | Deployment Model | Virtual Private Cloud | |
| 2. | Operating System | Windows server 2016 or Latest | |
| 3. | RAM | 32 GB | |
| 4. | vCPU | 16 | |
| 5. | Physical Core to vCPU Ratio | 1:2 | |
| 6. | Storage | 10 TB SSD Storage | |
| 7. | Additional Storage | On-demand per GB per month | |
| 8. | Public IP | 1 | |
| 9. | VPN/IPSec Tunnel | Required | |
| 10. | Bandwidth | 40 MBPS Shared Bandwidth | |
| 11. | Security & Support | Shared firewall, DNS, SSL | |
| 12. | Planned Duration | 12 Months | |
| 13. | Deliverables | <ol style="list-style-type: none"> Provisioned and operational Virtual Machines with the specifications outlined. Public IP and secure VPN/IPSec tunnel configurations. | |

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| SL | Specification | Details | Compliances (Yes/No) |
|-----|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| | | 3. SSD-based storage with options for on-demand additional storage. 4. Bandwidth allocation of 40 MBPS shared bandwidth. 5. Security services, including shared firewall, DNS configuration, and SSL support. | |
| 14. | Responsibilities | i. Provisioning and configuring virtual machines as per the defined specifications. ii. Implementing security measures, including shared firewalls, DNS, and SSL support. iii. Ensuring adequate bandwidth, storage, and network configurations. iv. Providing VPN/IPSec tunnel for secure access. v. Offering post-deployment support and monitoring. | |

6.6.1. Cat-6 UTP Indoor

7. Bill of Material for IT Hardware & Peripherals

| Sl. No. | Description | Unit | Qty |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| A | Civil, Interior & Furniture Works | | |
| 1 | Dismantling Works Dismantling of Cement Concrete including TSP scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres. Brickwork 125 mm thick Brick work with K.B. bricks 25cm x 12cm x 8 cm having crushing strength not less than 75 Kg/cm ² with dimensional tolerance +8 percent in the lime mortar (1:6) in all lead & lifts as per site requirement. (Qty. minimum 72 Cum) | Job | 1 |

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| | | | |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|
| | <p>R.C.C Lintel 150 X 150 mm R.C.C. Lintel work of M-25 grade with 20mm and downgrade black hard granite (crusher broken) stone chips including hoisting and laying, etc. all incl. as per site requirement.</p> <p>12mm Plastering Providing and laying 12mm thick cement plaster in C.M (1:6) including punning for skirting including cost of all & complete finished as per site requirement.</p> <p>Wooden Door Providing & Fixing 32mm thick solid wooden door shutter as per site requirement made out of 32mm B.W.R. block board and covering with 1 mm thick sunmica to both sides pasted with adhesive including fixing of fixtures like Godrej/equivalent make Lock having Godrej/equivalent make Door closure ,Aluminium heavy hinges including frame, addnl. complete as required in site. (Qty. minimum 01 Nos.)</p> | | |
| 2 | <p>P.C.C P.C.C. work M-15 (1:2:4) grade with 20mm and downgrade black hard granite crusher broken stone chips including hoisting and laying.</p> | Job | 1 |
| 3 | <p>Flooring Supplying and laying of flooring material for maintaining dead level for laying Carpet under surface flooring incl. all labour, materials., tools & tackles, all-inclusive for Carpet pasting Works as per site requirement.</p> | Job | 1 |
| 4 | <p>Raised Flooring Providing and making 300/150 mm Raised floor (made by Civil Works) as per site requirement</p> | Job | 1 |
| 5 | <p>Acoustic Carpet Flooring as per site requirement 500 X 500 mm size Minimum 4 mm thick acoustic carpet flooring incl. laying compound as per mfg. specifications. The floor must be resistant to fungal growth. Flooring shall be of approved shade, pattern, texture and design and of an approved manufacturer with sound absorption. Dimensions shall be as per the final approved design and site requirement.</p> | Job | 1 |
| 6 | <p>Solid Wall Panelling Providing and fixing Solid Wall Panelling using plywood, laminates incl. fittings, accessories, glue, tapes, etc. (all materials), Labours, tools & tackles, etc. as per site requirement.</p> <p>Wooden Panelling for Video Wall Providing and fixing Solid Wall Panelling and one recessed pocket to install the Video Wall Panels to give a flush arrangement of the panels using plywood , laminates incl. fittings, accessories, glue, tapes, etc. (all materials), Labours, tools & tackles, etc. as per site requirement.</p> <p>Aluminium skirting Providing and fixing 50mm height Aluminium skirting of approved make with rubber beading fixed on screwing slot on partitions and walls etc. all complete as per architect's instructions. There shall be 12 mm thick</p> | Job | 1 |

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| | | | |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| | <p>Commercial Ply backing as per site requirement. The rate to be inclusive of all accessories required for fixing of skirting complete. (Qty. minimum 43Rmt.)</p> <p>Aluminium Step Profile Supplying and fixing in position Aluminium Step Profile with all accessories, tools and tackles as per site requirement.</p> <p>Signage Providing and fixing Polishing works etc. Graphic Design, Fire Escape plan, Glass Film etc. as per site requirement.</p> | | |
| 7 | <p>False Ceiling Supplying and fixing 8 mm thick perforated Calcium Silicate Board False Ceiling Works of approved texture in the suspended on interlocking metal grid of hot-dipped galvanized steel sections including. required cutting/making. opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. as per site requirement.</p> | Job | 1 |
| 8 | <p>Wall Panelling with Acoustic Insulation Calcium Silicate Board Wall Panelling including Acoustic Insulation as per site requirement including cost of all framing materials, all labour, all tools & plants etc. up to required height for the work, complete in all respect as per site requirement.</p> | Job | 1 |
| 9 | <p>Fire-rated painting Supply and applying of Fire-rated painting of two coats of paint finish with the putty finish for all ceilings, walls and partitions including rubbing of existing wall partitions as per site requirement. (Qty. minimum 242Sqm.)</p> <p>Double leaf Fire Door Supplying and fixing of double-leaf Hollow metal fire-rated doors (as per IS 3614 :2021with the maximum rating of 2 hours of size 1500 X 2400 (or as per site requirement) incl. vision panel & all door hardware set, as per site requirement.</p> <p>Fire Signage Providing & fixing Aluminium Modular Signage, fire evacuation map & Exits using Aluminium Alloy 6063 extrusion with Anodizing The thickness of the anodization is typically 30 microns. The integrity of the anodize coating is tested to meet the international specifications ISO 2143-1981.</p> | Job | 1 |
| 10 | <p>Control Desk Workstation console (Control desk) with 25mm thick tabletop, aluminium frame, monitor arm, keyboard trays, RoHS certified, incl. all fittings.</p> | Set | 12 |
| 11 | <p>Operator chairs Revolving Chairs with molded foam seat with P.U. arms and chrome base, with twin wheel casters upholstered in good-quality cloth.</p> | Nos. | 1 |
| 12 | <p>Manager Cabin Furniture</p> <ul style="list-style-type: none"> Modern office furniture Pedestal unit for Help Desk Consider of Workstation size - 1200 (L)X 750 (D) X 750 (H) mm incl. all fittings as per site requirements. - 1 Set | Lot | 1 |

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| | | | |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| | <ul style="list-style-type: none"> Chair revolving with molded foam seat with P.U. arms and chrome base, with twin wheel casters upholstered in good-quality cloth - 1 no. Fixed type visitor Chair with molded foam seat with arms - 2 nos. | | |
| 13 | Lounge Area Furniture <ul style="list-style-type: none"> 3-Seater Sofa Set - 1 Nos 2-Seater Sofa Set - 1 Nos. Centre Table - 1 Nos. | Lot | 1 |
| 14 | Shoe Rack | Nos. | 1 |
| B | Technical Components | | |
| 2. | Active LED Wall | Nos. | 1 |
| 3. | Firewall with IPS & URL Filtering | Nos | 2 |
| 4. | Design, SITC of CCTV Surveillance including the required number of Dome cameras, NVR & client access software licenses as per site requirement | Job | 1 |
| 5. | SITC of Edge Switch PoE - as per the site requirement and of the approved make. The bidder to assess the requirement and accordingly offer the same. | Nos. | 02 |
| 6. | SITC of 42U Network Rack | Nos. | 01 |
| 7. | Design, SITC of Fire Alarm System as per NFPA standards along with detectors, input and output modules, MCP, Hooter, RI, complete wiring etc. as per site requirement. FRLS cables to be used for the wiring. | Job | 01 |
| 8. | Design, SITC of Access Control System including door controller, magnetic locks, break glass unit, door release switch, complete wiring etc. as per site requirement and of the approved make. | Job | 01 |
| 9. | Design, SITC of Rodent Repellent System along with controller and transducers, complete wiring etc. as per site requirement and of the approved make. | Job | 1 |
| 10. | SITC of Internet Router | Job | 1 |
| 11. | SITC of HDMI/DVI Cables, 10/15 Meter Length as per the connectivity requirements of the site for Video Wall connectivity with Workstations. | Job | 1 |
| 12. | SITC of Fire Extinguishers. | Job | 3 |
| C | Utility Components | | |
| 2. | SITC of 10 KVA Online UPS, 30 minutes Backup, 415 V In and 410 V Out, 3 Ph input and output, 0.9 Power factor or better as per the site requirement. | Job | 02 |
| 3. | SITC of Workstation PC, i7, 16GB, 512GB ,1TB SATA HDD, Nvidia Graphics Card, Windows 11 with antivirus software with 24" monitor | Nos. | 12 |
| 4. | Mono A3 multifunction printer | | |
| 5. | Design & SITC of cassette AC as per site requirement. The bidder to assess the requirement and accordingly offer the same. | Nos. | 3 |
| 6. | SITC of Split AC 2 ton for electrical room | Nos | 1 |
| 7. | SITC of Split AC 0.8 ton | Nos | 1 |
| 8. | SITC of Diesel Genset | Job | 1 |

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| D. Electrical, Networking Works & Other Services | | | |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|
| 1. | SITC of Networking Work including Passive components like Patch Panel, Patch Cords etc. and complete LAN cabling with conducting where required, Information outlets as per site requirement are as follows :- | | |
| 2. | SITC of CAT 6 cable Indoor as per site requirement | Job | 1 |
| 3. | SITC of Patch cords as per site requirement | Job | 1 |
| 4. | SITC of 24 Port Copper Patch Panel as per site requirement | Job | 1 |
| 5. | Complete Electrical Work including LT Electrical Panels, distribution panels, switchboards, power outlets as per site requirement. The bidder to assess the requirement and accordingly offer the same | Job | 1 |
| 6. | Branding | Job | 1 |
| E. Video Conferencing System | | | |
| 1. | Room Based Unified VC Endpoint (as per specification) Including USB Based PTZ Camera and Speaker Phone based Conference Hall System | Job | 1 |
| 2. | Bezel-less 2x2 matrix (54 inch each panel) active LED video wall (indoor) size: (Width - 8' x Height- 4'6"). (At Rasulgarh Conference Hall) | Job | 1 |
| F. Virtual Machine (Compute)-Virtual Private Cloud (VPC) | | | |
| 1. | Virtual Private Cloud (VPC); Windows Server 2016 Standard; 32 GB RAM; 16 vCPU; 1:2; Primary DC; 10 TB Storage (1) | Job | 1 |

8. Tentative BoQ & Approved OEM/Manufacturer

| Sl. No. | Description | Unit | Qty | Approved OEM |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|---------------------|
| A | Civil, Interior & Furniture Works | | | |
| 1 | <p>Dismantling Works Dismantling of Cement Concrete including TSP scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres.</p> <p>Brickwork 125 mm thick Brick work with K.B. bricks 25cm x 12cm x 8 cm having crushing strength not less than 75 Kg/cm² with dimensional tolerance +8 percent in the lime mortar (1:6) in all lead & lifts as per site requirement. (Qty. minimum 72 Cum)</p> <p>R.C.C Lintel 150 X 150 mm R.C.C. Lintel work of M-25 grade with 20mm and downgrade black hard granite (crusher broken) stone chips including hoisting and laying, etc. all incl. as per site requirement.</p> <p>12mm Plastering Providing and laying 12mm thick cement plaster in C.M (1:6) including punning for skirting including cost of all &</p> | Job | 1 | Standard |

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|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|----------|
| | <p>complete finished as per site requirement.</p> <p>Wooden Door Providing & Fixing 32mm thick solid wooden door shutter as per site requirement made out of 32mm B.W.R. block board and covering with 1 mm thick sunmica to both sides pasted with adhesive including fixing of fixtures like Godrej/equivalent make Lock having Godrej/equivalent make Door closure ,Aluminium heavy hinges including frame, addnl. complete as required in site. (Qty. minimum 01 Nos.)</p> | | | |
| 2 | <p>P.C.C P.C.C. work M-15 (1:2:4) grade with 20mm and downgrade black hard granite crusher broken stone chips including hoisting and laying.</p> | Job | 1 | Standard |
| 3 | <p>Flooring Supplying and laying of flooring material for maintaining dead level for laying Carpet under surface flooring incl. all labour, materials., tools & tackles, all-inclusive for Carpet pasting Works as per site requirement.</p> | Job | 1 | Standard |
| 4 | <p>Raised Flooring Providing and making 300/150 mm Raised floor (made by Civil Works) as per site requirement</p> | Job | 1 | Standard |
| 5 | <p>Acoustic Carpet Flooring as per site requirement 500 X 500 mm size Minimum 4 mm thick acoustic carpet flooring incl. laying compound as per mfg. specifications. The floor must be resistant to fungal growth. Flooring shall be of approved shade, pattern, texture and design and of an approved manufacturer with sound absorption. Dimensions shall be as per the final approved design and site requirement.</p> | Job | 1 | Standard |
| 6 | <p>Solid Wall Panelling Providing and fixing Solid Wall Panelling using plywood, laminates incl. fittings, accessories, glue, tapes, etc. (all materials), Labours, tools & tackles, etc. as per site requirement.</p> <p>Wooden Panelling for Video Wall Providing and fixing Solid Wall Panelling and one recessed pocket to install the Video Wall Panels to give a flush arrangement of the panels using plywood , laminates incl. fittings, accessories, glue, tapes, etc. (all materials), Labours, tools & tackles, etc. as per site requirement.</p> <p>Aluminium skirting Providing and fixing 50mm height Aluminium skirting of approved make with rubber beading fixed on screwing slot</p> | Job | 1 | Standard |

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| | <p>on partitions and walls etc. all complete as per architect's instructions. There shall be 12 mm thick Commercial Ply backing as per site requirement. The rate to be inclusive of all accessories required for fixing of skirting complete. (Qty. minimum 43Rmt.)</p> <p>Aluminium Step Profile Supplying and fixing in position Aluminium Step Profile with all accessories, tools and tackles as per site requirement.</p> <p>Signage Providing and fixing Polishing works etc. Graphic Design, Fire Escape plan, Glass Film etc. as per site requirement.</p> | | | |
| 7 | <p>False Ceiling Supplying and fixing 8 mm thick perforated Calcium Silicate Board False Ceiling Works of approved texture in the suspended on interlocking metal grid of hot-dipped galvanized steel sections including. required cutting/making. opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. as per site requirement.</p> | Job | 1 | Standard |
| 8 | <p>Wall Panelling with Acoustic Insulation Calcium Silicate Board Wall Panelling including Acoustic Insulation as per site requirement including cost of all framing materials, all labour, all tools & plants etc. up to required height for the work, complete in all respect as per site requirement.</p> | Job | 1 | Standard |
| 9 | <p>Fire-rated painting Supply and applying of Fire-rated painting of two coats of paint finish with the putty finish for all ceilings, walls and partitions including rubbing of existing wall partitions as per site requirement. (Qty. minimum 242Sqm.)</p> <p>Double leaf Fire Door Supplying and fixing of double-leaf Hollow metal fire-rated doors (as per IS 3614 :2021with the maximum rating of 2 hours of size 1500 X 2400 (or as per site requirement) incl. vision panel & all door hardware set, as per site requirement.</p> <p>Fire Signage Providing & fixing Aluminium Modular Signage, fire evacuation map & Exits using Aluminium Alloy 6063 extrusion with Anodizing The thickness of the anodization is typically 30 microns. The integrity of the anodize coating is tested to meet the international specifications ISO 2143-1981.</p> | Job | 1 | Standard |
| 10 | <p>Control Desk Workstation console (Control desk) with 25mm thick</p> | Set | 12 | Standard |

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|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|---------------------------------------------------|
| | tabletop, aluminium frame, monitor arm, keyboard trays, RoHS certified, incl. all fittings. | | | |
| 11 | Operator chairs Revolving Chairs with molded foam seat with P.U. arms and chrome base, with twin wheel casters upholstered in good-quality cloth. | Nos. | 15 | Godrej/Geek n/ Featherlight |
| 12 | Manager Cabin Furniture <ul style="list-style-type: none"> Modern office furniture Pedestal unit for Help Desk Consider of Workstation size - 1200 (L)X 750 (D) X 750 (H) mm incl. all fittings as per site requirements. - 1 Set Chair revolving with molded foam seat with P.U. arms and chrome base, with twin wheel casters upholstered in good-quality cloth - 1 no. Fixed type visitor Chair with molded foam seat with arms - 2 nos. | Lot | 1 | Godrej/ Geeken/ Featherlight /Customized |
| 13 | Lounge Area Furniture <ul style="list-style-type: none"> 3-Seater Sofa Set - 1 Nos 2-Seater Sofa Set - 1 Nos. Centre Table - 1 Nos. | Lot | 1 | Godrej/Geek n/ Featherlight |
| 14 | Shoe Rack | Nos. | 1 | Godrej/ Geeken/ Featherlight /Customized |
| B | Technical Components | | | |
| 1. | Active LED Wall | Nos. | 1 | LG/Samsung/ delta |
| 2. | Firewall with IPS & URL Filtering | Nos | 2 | Palo Alto/Sonicwall |
| 3. | Design, SITC of CCTV Surveillance including the required number of Dome cameras, NVR & client access software licenses as per site requirement | Job | 1 | Bosch/Panaso nic/CP Plus |
| 4. | SITC of Edge Switch PoE - as per the site requirement and of the approved make. The bidder to assess the requirement and accordingly offer the same. | Nos. | 02 | D- LInk/Aruba/Ci sco |
| 5. | SITC of 42U Network Rack | Nos. | 01 | Metaworks/W Q/Netrack |
| 6. | Design, SITC of Fire Alarm System as per NFPA standards along with detectors, input and output modules, MCP, Hooter, RI, complete wiring etc. as per site requirement. FRLS cables to be used for the wiring. | Job | 01 | -Standard |
| 7. | Design, SITC of Access Control System including door controller, magnetic locks, break glass unit, door release switch, complete wiring etc. as per site requirement and of the approved make. | Job | 01 | Spectra/IDCu be/ Honeywell |

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| | | | | |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|---------------------------|
| 8. | Design, SITC of Rodent Repellent System along with controller and transducers, complete wiring etc. as per site requirement and of the approved make. | Job | 1 | Maser |
| 9. | SITC of Internet Router | Job | 1 | Standard |
| 10. | SITC of HDMI/DVI Cables, 10/15 Meter Length as per the connectivity requirements of the site for Video Wall connectivity with Workstations. | Job | 1 | Molex/D-Link |
| 11. | SITC of Fire Extinguishers. | Job | 3 | Standard |
| C | Utility Components | | | |
| 1. | SITC of 10 KVA Online UPS, 30 minutes Backup, 415 V In and 410 V Out, 3 Ph input and output, 0.9 Power factor or better as per the site requirement. | Job | 02 | Vertive/EATON/APC |
| 2. | SITC of Workstation PC, i7, 16GB, 512GB ,1TB SATA HDD, Nvidia Graphics Card, Windows 11 with antivirus software with 24" monitor | Nos. | 12 | Dell/HP/Acer |
| 3. | Mono A3 multifunction printer | | | Dell/HP/Acer |
| 4. | Design & SITC of cassette AC as per site requirement. The bidder to assess the requirement and accordingly offer the same. | Nos. | 3 | Daikin/Mitsubishi/Hitachi |
| 5. | SITC of Split AC 2 ton for electrical room | Nos | 1 | Daikin/Mitsubishi/Hitachi |
| 6. | SITC of Split AC 0.8 ton | Nos | 1 | Daikin/Mitsubishi/Hitachi |
| 7. | SITC of Diesel Genset | Job | 1 | standard |
| D. | Electrical, Networking Works & Other Services | | | |
| 1. | SITC of Networking Work including Passive components like Patch Panel, Patch Cords etc. and complete LAN cabling with conducting where required, Information outlets as per site requirement are as follows :- | | | Delink/Molex |
| 2. | SITC of CAT 6 cable Indoor as per site requirement | Job | 1 | Delink/Molex |
| 3. | SITC of Patch cords as per site requirement | Job | 1 | Delink/Molex |
| 4. | SITC of 24 Port Copper Patch Panel as per site requirement | Job | 1 | Delink/Molex |
| 5. | Complete Electrical Work including LT Electrical Panels, distribution panels, switchboards, power outlets as per site requirement. The bidder to assess the requirement and accordingly offer the same | Job | 1 | standard |
| 6. | Branding | Job | 1 | standard |
| E. | Video Conferencing System | | | |
| 1. | Room Based Unified VC Endpoint (as per specification) Including USB Based PTZ Camera and Speaker Phone based Conference Hall System | Job | 1 | Polycom/Cisco |
| 2. | Bezel-less 2x2 matrix (54 inch each panel) active LED video wall (indoor) size: (Width - 8' x Height- 4'6"). (At Rasulgarh | Job | 1 | Samsung/LG/Sony |

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| | | | | |
|-----------|--------------------------------------------------------------------------------------------------------------------|-----|---|----------|
| | Conference Hall) | | | |
| F. | Virtual Machine (Compute)-Virtual Private Cloud (VPC) | | | |
| 1. | Virtual Private Cloud (VPC); Windows Server 2016 Standard; 32 GB RAM; 16 vCPU; 1:2; Primary DC; 10 TB Storage (1) | Job | 1 | Standard |

9. Project & Payment Schedule

9.1. Project deliverables

The successful bidder should deliver the following deliverables to the TIA as part of an assurance to fulfil the obligations under the SLA. The table given below may not be exhaustive and the successful bidder is responsible to provide all those deliverables which may be specified in this tender but not listed here and those agreed by the successful bidder in response to any request from the Odisha Coastal Police. The timelines for producing each of these deliverables will be in line and closely linked with the overall project timeline as indicated in this tender.

Any conflict with respect to project and/or deliverable timelines will have to be resolved by the successful bidder in consultation with the purchaser and/or its designated agencies and approved by the purchaser. Thereafter the approved timelines will have to be adhered to by the successful bidder, unless specified otherwise.

9.2. Project timelines

The table below details the time schedule for key milestones and activities envisaged for the project.

| Phases | Completion Timeline |
|-------------------------------------------------|---------------------|
| Acceptance of LOA/WO | T |
| PBG submission | T + 7 Days |
| Signing of Contract | T + 15 Days |
| Commissioning of Command Control Centre | T + 30 Days |
| Commissioning of Room Based Unified VC Endpoint | T + 45 Days |

9.3. Payment Milestone

| Phases | Completion Timeline |
|-----------------------------------|---------------------|
| Go-Live of Command Control Centre | 90% |

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| Phases | Completion Timeline |
|-----------------------------------------------------------------------------|---------------------|
| Go-Live USB Based PTZ Camera and Speaker Phone based Conference Hall System | 10% |

9.4. Service Level Agreements & Penalties

The purpose of this Service Level Agreement (hereinafter referred to as SLA) is to clearly define the levels of service to be provided by the successful bidder to the Purchaser for the duration of this contract. SLA defines the responsibility of the successful bidder in ensuring adequate delivery of the deliverables and the services coupled with correctness of the same based on the performance indicators detailed out in this document. The successful bidder shall provide services as defined in the scope of work in accordance with the conditions mentioned in this tender to ensure adherence to project terms and error free availability of the services. The Service level agreement would be valid for the complete period of the contract. This SLA may be reviewed and revised according to the procedure detailed in SLA Change Control Mechanism.

The Authorized Officials from the Office of Office of the Additional Directorate General of Police (Costal Security) shall report problems/ non-functional components to the successful bidder through telephone / email / fax / letter / verbally. A penalty shall be considered for the official working hours only (i.e. 8am to 10pm).

The following table defines the SLA requirements for all project components as per the services:

| # | Services | Parameter | Validation | Penalty |
|----------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Adherence to project timelines | Adherence to timelines as defined in the project timelines in this tender. | Number of days of delay for each milestone as defined in the project timelines in this tender. | Rs. 5,000 per additional day of delay, If the delay exceeds more than 30 days, the office of Office of the Additional Directorate General of Police (Costal Security) may decide to invoke breach clause. |
| Operation and Maintenance Phase | | | | |
| 1 | Maintenance/Repair of defunct systems | Any complaint raised due to the non-functionality of the system should be addressed within 24 Hrs. A report of cause should be submitted within 24 | Complaint raised + 1 working day | Rs. 1,000 per additional day of delay, If the delay exceeds more than 30 days, the office of Office of the |

Request for Proposal ('RFP') for Selection of System Integrator (SI) for Supply, Installation, Testing & Commissioning of Command Control Centre for Odisha Police (Coastal Security)

| | | | | |
|---|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | Hrs. | | Additional Directorate General of Police (Costal Security) may decide to invoke breach clause. |
| 2 | Replacement of defunct systems | Replacement of any system component should be done within 7 days of problem identification. Approval The Office of Office of the Additional Directorate General of Police (Costal Security) is mandatory for any replacement. | Approval for replacement + 30 days | Rs. 5,000 per additional day of delay, If the delay exceeds more than 30 days, the Office of the Additional Directorate General of Police (Costal Security) may decide to invoke breach clause. |

In case, the Bidder reaches maximum of penalty i: e: 10% of contract value at any point of time or failed to deliver deliverables outlined in the timeline chart impacting the handover of the project beyond 2 months or failed to deliver for two consecutive deliverables, the office of Office of the Additional Directorate General of Police (Costal Security) reserves the right to invoke the termination clause including imposition of penalties and forfeiture of PBG.

10. Annexures of the Tenders

Annexure 1: Bidder's Details

| # | Particulars | Details to be filled in by the bidder |
|----|----------------------------------------------------------------------------------------------|---------------------------------------|
| 1 | Name of Bidder | |
| 2 | Legal status of Bidder (Company, Pvt. Ltd., LLP etc.,) | |
| 3 | Main business of the Bidder | |
| 4 | Registered office address | |
| 5 | Incorporation/Registration date and number | |
| 6 | Details of Company's Registration (Please enclose copy of the company registration document) | |
| 7 | Name of Registration Authority | |
| 8 | Registration Number and Year of Registration | |
| 9 | GST registration No. | |
| 10 | Permanent Account Number (PAN) | |
| 11 | Primary Contact Person (Name, Designation, address, mobile number, fax, email) | |
| 12 | Secondary Contact Person (Name, Designation, address, mobile number, fax, email) | |

**Request for Proposal ('RFP') for Selection of System Integrator (SI) for Supply,
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(Coastal Security)**

Annexure-2: Undertaking of non-blacklisting

To

Additional Directorate General of Police (Costal Security)
Bhubaneswar, At/PO: Rasulgarh, Bhubaneswar Dist.: Khurdha, PIN: 751010

Subject: Non-Blacklisting Declaration

Sir,

In response to the tender Reference No: _____ I as an owner/Partner/Director of <<Name of Bidder>>, hereby declare that <<Name of Bidder>>has not been blacklisted by any State / Central Government in India/PSUs as on bid submission date for corrupt, fraudulent or any other unethical business practices or for any other reason during last 3 financial years.

Yours sincerely,

Name: _____

In the capacity of: _____

Signed: _____

Duly authorized to sign the Authorization for and on behalf of

Date: _____

[Signature] – [Company Seal]

**Request for Proposal ('RFP') for Selection of System Integrator (SI) for Supply,
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Annexure 3: Power of Attorney for signing of Bid

Know all men by these presents, we..... (Name of the firm and address of the registered office) do hereby irrevocably constitute, nominate, appoint, and authorize Mr/ Ms (name), son/daughter/wife of and presently residing at, who is presently employed with us and holding the position of, as our true and lawful attorney (hereinafter referred to as the "Attorney") to do in our name and on our behalf, all such acts, deeds and things as are necessary or required in connection with or incidental to submission of our Bid for pre-qualification and submission of our Tender for Request For Proposal (RFP) for Selection of Agency for Supply, Installation & Commissioning of Conference Rooms, and Control Centre for Office of the Additional Directorate General of Police (Costal Security) including but not limited to signing and submission of all Bids, and other documents and writings, participate in Pre- bid and other conferences and providing information/ responses to the TIA, representing us in all matters before the TIA, signing and execution of all contracts including the Contract Agreement and undertakings consequent to acceptance of our Tender, and generally dealing with the TIA in all matters in connection with or relating to or arising out of our Tender for the said Project and/ or upon award thereof to us and/or till the entering into of the Contract Agreement with the TIA.

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

IN WITNESS WHEREOF WE, [•], THE ABOVE-NAMED PRINCIPAL HAVE EXECUTED THIS POWER OF ATTORNEY ON THIS [•] DAY OF [•], 20[•]

For

(Signature, name, designation, and address) Witnesses:

- 1.
- 2.(Notarized)

Accepted

(Signature)

**Request for Proposal ('RFP') for Selection of System Integrator (SI) for Supply,
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(Name, Title and Address of the Attorney)

Notes:

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

**Request for Proposal ('RFP') for Selection of System Integrator (SI) for Supply,
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Annexure 4: Financial Bid/ Commercial Bid

To

Additional Directorate General of Police (Coastal Security)
Bhubaneswar, At/PO: Rasulgarh,
Bhubaneswar Dist.: Khurdha, PIN: 751010

Subject: Financial Bid Request for Proposal ('RFP') for Selection of System Integrator (SI) for
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Police (Coastal Security)

Sir,

We hereby declare.

- i. that we have in the business of IT and Non-IT equipment supply to Government offices in India
- ii. We hereby offer to provide the Services at the prices and rates mentioned in the Commercial Bid in Part II.
- iii. We do hereby undertake, that, in the event of acceptance of our bid, the Services shall be provided as stipulated in the schedule to the Bid document and that we shall perform all the incidental services.

We enclose herewith the complete Commercial Bid as required by you. This includes:

- i. This Bid Letter
- ii. Price Bid Section

We agree to abide by our offer for a period of 180 days from the last date of submission of Bid and that we shall remain bound by a communication of acceptance within that time.

We have carefully read and understood the terms and conditions of the tender and the conditions of the contract applicable to the tender and we do hereby undertake to provide services as per these terms and conditions.

Certified that the bidder is a Company and the person signing the tender is the duly constituted attorney.

We do hereby undertake, that, until a formal contract is prepared and executed, this bid, together with your written acceptance thereof or placement of WO awarding the contract, shall constitute a binding contract between us.

Request for Proposal ('RFP') for Selection of System Integrator (SI) for Supply, Installation, Testing & Commissioning of Command Control Centre for Odisha Police (Coastal Security)

Price Bid Section

| SL | Description | Unit | Qty | Unit Price | GST Amount | Total Price (Unit Price+ GST) * Qty |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------------|------------|-------------------------------------|
| A | Civil, Interior & Furniture Works | | | | | |
| 1 | <p>Dismantling Works Dismantling of Cement Concrete including TSP scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres.</p> <p>Brickwork 125 mm thick Brick work with K.B. bricks 25cm x 12cm x 8 cm having crushing strength not less than 75 Kg/cm² with dimensional tolerance +8 percent in the lime mortar (1:6) in all lead & lifts as per site requirement. (Qty. minimum 72 Cum)</p> <p>R.C.C Lintel 150 X 150 mm R.C.C. Lintel work of M-25 grade with 20mm and downgrade black hard granite (crusher broken) stone chips including hoisting and laying, etc. all incl. as per site requirement.</p> <p>12mm Plastering Providing and laying 12mm thick cement plaster in C.M (1:6) including punning for skirting including cost of all & complete finished as per site requirement.</p> <p>Wooden Door Providing & Fixing 32mm thick solid wooden door shutter as per site requirement made out of 32mm B.W.R. block board and covering with 1 mm thick sunmica to both sides pasted with adhesive including fixing</p> | Job | 1 | | | |

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| SL | Description | Unit | Qty | Unit Price | GST Amount | Total Price (Unit Price+ GST) * Qty |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|-------------------|-------------------|--------------------------------------------|
| | of fixtures like Godrej/equivalent make Lock having Godrej/equivalent make Door closure ,Aluminium heavy hinges including frame, addnl. complete as required in site. (Qty. minimum 01 Nos.) | | | | | |
| 2 | P.C.C P.C.C. work M-15 (1:2:4) grade with 20mm and downgrade black hard granite crusher broken stone chips including hoisting and laying. | Job | 1 | | | |
| 3 | Flooring Supplying and laying of flooring material for maintaining dead level for laying Carpet under surface flooring incl. all labour, materials., tools & tackles, all-inclusive for Carpet pasting Works as per site requirement. | Job | 1 | | | |
| 4 | Raised Flooring Providing and making 300/150 mm Raised floor (made by Civil Works) as per site requirement | Job | 1 | | | |
| 5 | Acoustic Carpet Flooring as per site requirement 500 X 500 mm size Minimum 4 mm thick acoustic carpet flooring incl. laying compound as per mfg. specifications. The floor must be resistant to fungal growth. Flooring shall be of approved shade, pattern, texture and design and of an approved manufacturer with sound absorption. Dimensions shall be as per the final approved design and site requirement. | Job | 1 | | | |
| 6 | Solid Wall Panelling Providing and fixing Solid Wall | Job | 1 | | | |

Request for Proposal ('RFP') for Selection of System Integrator (SI) for Supply, Installation, Testing & Commissioning of Command Control Centre for Odisha Police (Coastal Security)

| SL | Description | Unit | Qty | Unit Price | GST Amount | Total Price (Unit Price+ GST) * Qty |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------------|------------|-------------------------------------|
| | <p>Panelling using plywood, laminates incl. fittings, accessories, glue, tapes, etc. (all materials), Labours, tools & tackles, etc. as per site requirement.</p> <p>Wooden Panelling for Video Wall Providing and fixing Solid Wall Panelling and one recessed pocket to install the Video Wall Panels to give a flush arrangement of the panels using plywood , laminates incl. fittings, accessories, glue, tapes, etc. (all materials), Labours, tools & tackles, etc. as per site requirement.</p> <p>Aluminium skirting Providing and fixing 50mm height Aluminium skirting of approved make with rubber beading fixed on screwing slot on partitions and walls etc. all complete as per architect's instructions. There shall be 12 mm thick Commercial Ply backing as per site requirement. The rate to be inclusive of all accessories required for fixing of skirting complete. (Qty. minimum 43Rmt.)</p> <p>Aluminium Step Profile Supplying and fixing in position Aluminium Step Profile with all accessories, tools and tackles as per site requirement.</p> <p>Signage Providing and fixing Polishing works etc. Graphic Design, Fire Escape plan, Glass Film etc. as per site requirement.</p> | | | | | |
| 7 | <p>False Ceiling Supplying and fixing 8 mm thick perforated Calcium Silicate Board False Ceiling Works of approved</p> | Job | 1 | | | |

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| SL | Description | Unit | Qty | Unit Price | GST Amount | Total Price (Unit Price+ GST) * Qty |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------------|------------|-------------------------------------|
| | texture in the suspended on interlocking metal grid of hot-dipped galvanized steel sections including. required cutting/making. opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. as per site requirement. | | | | | |
| 8 | <p>Wall Panelling with Acoustic Insulation Calcium Silicate Board Wall Panelling including Acoustic Insulation as per site requirement including cost of all framing materials, all labour, all tools & plants etc. up to required height for the work, complete in all respect as per site requirement.</p> | Job | 1 | | | |
| 9 | <p>Fire-rated painting Supply and applying of Fire-rated painting of two coats of paint finish with the putty finish for all ceilings, walls and partitions including rubbing of existing wall partitions as per site requirement. (Qty. minimum 2425qm.)</p> <p>Double leaf Fire Door Supplying and fixing of double-leaf Hollow metal fire-rated doors (as per IS 3614 :2021with the maximum rating of 2 hours of size 1500 X 2400 (or as per site requirement) incl. vision panel & all door hardware set, as per site requirement.</p> <p>Fire Signage Providing & fixing Aluminium Modular Signage, fire evacuation map & Exits using Aluminium Alloy 6063 extrusion with Anodizing The thickness of the anodization is typically 30 microns.</p> | Job | 1 | | | |

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| SL | Description | Unit | Qty | Unit Price | GST Amount | Total Price (Unit Price+ GST) * Qty |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------------|------------|-------------------------------------|
| | The integrity of the anodize coating is tested to meet the international specifications ISO 2143-1981. | | | | | |
| 10 | Control Desk Workstation console (Control desk) with 25mm thick tabletop, aluminium frame, monitor arm, keyboard trays, RoHS certified, incl. all fittings. | Set | 12 | | | |
| 11 | Operator chairs Revolving Chairs with molded foam seat with P.U. arms and chrome base, with twin wheel casters upholstered in good-quality cloth. | Nos. | 15 | | | |
| 12 | Manager Cabin Furniture <ul style="list-style-type: none"> • Modern office furniture Pedestal unit for Help Desk Consider of Workstation size - 1200 (L)X 750 (D) X 750 (H) mm incl. all fittings as per site requirements. - 1 Set • Chair revolving with molded foam seat with P.U. arms and chrome base, with twin wheel casters upholstered in good-quality cloth - 1 no. Fixed type visitor Chair with molded foam seat with arms - 2 nos. | Lot | 1 | | | |
| 13 | Lounge Area Furniture <ul style="list-style-type: none"> • 3-Seater Sofa Set - 1 Nos • 2-Seater Sofa Set - 1 Nos. • Centre Table - 1 Nos. | Lot | 1 | | | |
| 14 | Shoe Rack | Nos. | 1 | | | |
| B | Technical Components | | | | | |
| 1. | Active LED Wall | Nos. | 1 | | | |
| 2. | Firewall with IPS & URL Filtering | Nos | 2 | | | |
| 3. | Design, SITC of CCTV Surveillance including the required number of Dome cameras, NVR & client access | Job | 1 | | | |

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| SL | Description | Unit | Qty | Unit Price | GST Amount | Total Price (Unit Price+ GST) * Qty |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------------|------------|-------------------------------------|
| | software licenses as per site requirement | | | | | |
| 4. | SITC of Edge Switch PoE - as per the site requirement and of the approved make. The bidder to assess the requirement and accordingly offer the same. | Nos. | 02 | | | |
| 5. | SITC of 42U Network Rack | Nos. | 01 | | | |
| 6. | Design, SITC of Fire Alarm System as per NFPA standards along with detectors, input and output modules, MCP, Hooter, RI, complete wiring etc. as per site requirement. FRLS cables to be used for the wiring. | Job | 01 | | | |
| 7. | Design, SITC of Access Control System including door controller, magnetic locks, break glass unit, door release switch, complete wiring etc. as per site requirement and of the approved make. | Job | 01 | | | |
| 8. | Design, SITC of Rodent Repellent System along with controller and transducers, complete wiring etc. as per site requirement and of the approved make. | Job | 1 | | | |
| 9. | SITC of Internet Router | Job | 1 | | | |
| 10. | SITC of HDMI/DVI Cables, 10/15 Meter Length as per the connectivity requirements of the site for Video Wall connectivity with Workstations. | Job | 1 | | | |
| 11. | SITC of Fire Extinguishers. | Job | 3 | | | |
| C | Utility Components | | | | | |
| 1. | SITC of 10 KVA Online UPS, 30 minutes Backup, 415 V In and 410 V Out, 3 Ph input and output, 0.9 Power factor or better as per the site requirement. | Job | 02 | | | |
| 2. | SITC of Workstation PC, i7, 16GB, | Nos. | 12 | | | |

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| SL | Description | Unit | Qty | Unit Price | GST Amount | Total Price (Unit Price+ GST) * Qty |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------------|------------|-------------------------------------|
| | 512GB ,1TB SATA HDD, Nvidia Graphics Card, Windows 11 with antivirus software with 24" monitor | | | | | |
| 3. | Mono A3 multifunction printer | Nos | 1 | | | |
| 4. | Design & SITC of cassette AC as per site requirement. The bidder to assess the requirement and accordingly offer the same. | Nos | 1 | | | |
| 5. | SITC of Split AC 2 ton for electrical room | Nos | 1 | | | |
| 6. | SITC of Split AC 0.8 ton | Nos | 1 | | | |
| 7. | SITC of Diesel Genset | Job | 1 | | | |
| D. | Electrical, Networking Works & Other Services | | | | | |
| | SITC of Networking Work including Passive components like Patch Panel, Patch Cords etc. and complete LAN cabling with conducting where required, Information outlets as per site requirement are as follows :- | | | | | |
| 1. | SITC of CAT 6 cable Indoor as per site requirement | Job | 1 | | | |
| 2. | SITC of Patch cords as per site requirement | Job | 1 | | | |
| 3. | SITC of 24 Port Copper Patch Panel as per site requirement | Job | 1 | | | |
| 4. | Complete Electrical Work including LT Electrical Panels, distribution panels, switchboards, power outlets as per site requirement. The bidder to assess the requirement and accordingly offer the same | Job | 1 | | | |
| 5. | Branding | Job | 1 | | | |
| E. | Video Conferencing System | | | | | |
| 1. | Room Based Unified VC Endpoint (as per specification) Including USB Based PTZ Camera and Speaker Phone based Conference Hall System | Job | 1 | | | |
| 2. | Bezel-less 2x2 matrix (54 inch each panel) active LED video wall (indoor) | Job | 1 | | | |

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| SL | Description | Unit | Qty | Unit Price | GST Amount | Total Price (Unit Price+ GST) * Qty |
|-----------|-------------------------------------------------------------------------------------------------------------------|------|-----|------------|------------|-------------------------------------|
| | size: (Width - 8' x Height- 4'6"). (At Rasulgarh Conference Hall) | | | | | |
| F. | Virtual Machine (Compute)-Virtual Private Cloud (VPC) | | | | | |
| 1. | Virtual Private Cloud (VPC); Windows Server 2016 Standard; 32 GB RAM; 16 vCPU; 1:2; Primary DC; 10 TB Storage (1) | Job | 1 | | | |
| | Total Price Inclusive of GST for all items (In Number) | | | | | |
| | Total Price Inclusive of GST for all items (In Words) | | | | | |

Note:

1. We/I declare that We/I have read the "Tender" as set out conditions and I confirm that the above financial percentage shall be fixed for entire tenure of the project (if selected).
2. We/I will follow all the rules and if any change with respect to applicable rules in future by Govt. of India & Govt. of Odisha (If selected).
3. The authority reserves the right to increase or decrease the quantities as per requirement
4. We/I have read the scope of work of this tender.

Date this.....day of 2025.

Signature

In the capacity of

Duly authorized to sign this bid for and on behalf of-----