ODISHA COMPUTER APPLICATION CENTRE

REQUEST FOR PROPOSAL

Enq.No.:-OCAC-SEGP-SPD-0019-2023-23033

OCAC invites Request for Proposal (RFP) for selection of Agency for implementation of Prison Management System in Jails of Odisha. For details please visit websites www.ocac.in & www.odisha.gov.in. T**he bid shall be submitted in electronic mode only in the portal https://enivida.odisha.gov.in latest by 26.05.2023, 3.00 PM.** OCAC reserves the right to accept/ reject any/ all bids without assigning any reason thereof.

General Manager(Admin), OCAC, Plot No.-N-1/7-D, Acharya Vihar, P.O.-RRL, Bhubaneswar-751013, Ph.-2567280/ 2567064/ 2567295

RFP for Providing Smart Prison Solution on Single Platform for Video Surveillance, Access Control, IP Emergency Phone, IP Speaker, SOS and Complete Integration with Jail Software for Odisha Prison Department

Government of Odisha

Tender Reference No.: OCAC-SEGP-SPD-0019-2023-23033

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DISCLAIMER

The information contained in this Tender document or subsequently provided to Bidder(s), whether verbally or in documentary or any other form by Odisha Computer Application Centre (OCAC) or any of their employees is provided to Bidder(s) on the terms and conditions set out in this Tender Document and such other terms and conditions subject to which such information is provided.

This Tender is not an agreement and is neither an offer nor invitation by the OCAC to the Bidders or any other person. The purpose of this Tender is to provide interested parties with information that may be useful to them in making their technical and financial offers pursuant to this Tender (the "Bid"). This Tender includes statements, which reflect various assumptions and assessments arrived at by the OCAC in relation to the Project. Such assumptions, assessments and statements do not purport to contain all the information that each Bidder may require. This Tender may not be appropriate for all persons, and it is not possible for the OCAC, to consider the technical capabilities, investment objectives, financial situation 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, studies and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments, statements and information contained in this Tender and obtain independent advice from appropriate sources.

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

OCAC, makes 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, completeness or reliability 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 Bid Stage. OCAC also accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any Bidder upon the statements contained in this Tender.

OCAC may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumptions contained in this Tender. The issue of this Tender does not imply that OCAC is bound to select a Bidder or to appoint the Preferred Bidder, as the

case may be, for the Project and OCAC reserves the right to reject all or any of the Bidders or Bids without assigning any reason whatsoever.

OCAC reserves all the rights to cancel, terminate, change or modify this selection process and/or requirements of bidding stated in the Tender, at any time without assigning any reason or providing any notice and without accepting any liability for the same.

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

Definitions /Acronyms

Term	Definition
Agreement	Agreement to be signed between the successful bidder and OCAC, including all attachments, appendices, all documents incorporated by reference thereto together with any subsequent modifications, the tender, the bid offer, the acceptance and all related correspondences, clarifications, presentations.
Authorized Representative	Any person authorized by either of the parties
Bidder	Any firm offering the solution(s), service(s) and /or materials as required in the tender. The word Bidder when used in the pre-award period shall be synonymous with parties bidding for this tender, and when used after award of the contract shall mean the successful party with whom OCAC, signs the agreement for rendering of services for implementation of this project.
OEM	Original Equipment Manufacturer
Party	Means OCAC or Bidder, individually and "Parties" mean OCAC and Bidder, collectively
Proposal / Bid	The Pre-Qualification, Technical and Commercial proposals all together, i.e., complete proposal for the implementation of this Project

Tender Notice / Bidding Data Sheet

Tender Reference No.: OCAC-SEGP-SPD-0019-2023-23033 Dated 04/05/2023

Tender Notice **RFP For Providing Smart Prison Solution On Single Platform For Video Surveillance, Access Control, IP Emergency Phone, IP Speaker, SOS And Complete Integration With Jail Software For Odisha Prison Department, Government of Odisha**	
Item	**Date & Time**
Availability of Bid Document in the website (www.ocac.in, www.odisha.gov.in, and www.enivida.odisha.gov.in)	Tender document can be downloaded from http://www.ocac.in, www.odisha.gov.in, and www.enivida.odisha.gov.in . The bidders are required to pay the tender document fee of **₹11200/- (inclusive GST)** in the electronic mode in e-Nivida Portal. Bidder may also furnish the DD in favor of Odisha Computer Application Centre payable at Bhubaneswar
Last date for receiving pre-bid queries through e-mail: gm_ocac@ocac.in with copy to bibhuti.ojha@ocac.in and Saroj.tripathy@ocac.in	All the queries must be received on or before 10th May by 04:00 PM, through e-mail only to gm_ocac@ocac.in with copy to bibhuti.ojha@ocac.in and Saroj.tripathy@ocac.in
Pre-Bid Conference	A pre-Bid meeting will be held on 12th May at 04:00 PM online
Last date and time for Submission of Bid	Bidders must submit the bids online through e-Nivida portal. Proposals must be submitted in e-Nivida Portal (www.enivida.odisha.gov.in) on or before 26th of May by 03:00 PM
Opening of General/ Pre-Qualification Bids	Bid opening on 26th May by 04:00 PM
Opening of Technical Evaluation & Presentation (Technical Bid)	For Technical Evaluation & Presentation date & time will be communicated through e mail to qualified bidders.
Opening of Commercial Bids	For Financial Evaluation date & time will be

	communicated through e mail to technically qualified bidders.
EMD	The Bidders shall furnish, Earnest Money Deposit (EMD) of Rs. 17,50,000/- (Rupees Seventeen Lakh Fifty thousand only).

1 Fact Sheet

Clause Reference	Description
Method of Selection	Quality cum Cost based selection (QCBS) shall be used to select the bidder. The bidder is required to submit the bids General (Pre-Qualification), Technical & Financial bid in eNivida portal (https://enivida.odisha.gov.in). Only those bidders who qualify in Pre-qualification will be qualified for Technical Bid evaluation. Financial bids of only those bidders shall be opened who qualify in Technical Bid by scoring 70% or above then L1 will be decided via Quality cum Cost based selection (QCBS) method.
Document Download	Tender document can be downloaded from http://www.ocac.in, www.odisha.gov.in, and www.enivida.odisha.gov.in . The bidders are required to pay the tender document fee of **₹11200/- (inclusive GST)** in the electronic mode in e-Nivida Portal. Bidder may also furnish the DD in favor of Odisha Computer Application Centre payable at Bhubaneswar
EMD	The Bidders shall furnish, Earnest Money Deposit (EMD) of Rs. **17,50,000/-** (Rupees Seventeen Lakh Fifty thousand only).
SoW	This project is Providing Smart Prison Solution on Single Platform for Video Surveillance, Access Control, IP Emergency Phone, IP Speakers, SOS and Complete Integration with Jail Software and provides maintenance support within stipulated time.
Pre-Bid Meeting	A pre-Bid meeting will be held on 12th May at 04:00 PM online (link of the pre-Bid meeting will be send through mail). All the queries must be received on or before 10th May by 04:00 PM, through e-mail only to gm_ocac@ocac.in with copy to bibhuti.ojha@ocac.in and Saroj.tripathy@ocac.in . The Corrigendum (if any) will be published on 15th May.
Proposal Validity	Proposals must remain valid till **180 days** from the last date of submission of the bids.
Bid Submission	Bidders must submit the bids online through e-Nivida portal.

	Proposals must be submitted in e-Nivida Portal (www.enivida.odisha.gov.in) on or before **26th of May** by 03:00 PM
Bid Opening	Bid opening on 26th May by 04:00 PM
Technical Evaluation & Presentation	For Technical Evaluation & Presentation date & time will be communicated through e mail to qualified bidders.
Financial Evaluation	For Financial Evaluation date & time will be communicated through e mail to technically qualified bidders.

2 Background Information

2.1 Basic Information

Odisha State Prisons Department came into existence after the re-organization of States. Initially the Prisons Department consisted of only a few Circle Jails, District Jails and Sub Jails. Presently, we have 87 functioning Jails. This is a very high number as compared to peer States e.g. Haryana has a similar number of prison inmates (approx. 20,000) but they have only 19 Jails. However, it is a geographically smaller state than Odisha.

The PDB (Prison Development Board) in its 1st meeting on dated 25.07.2022 has agreed to the proposal for modernizing the prisons by implementing "Prison Management System" in all the Jails of the State. Member Convener explained the broad contours of the project and the Secretary E&IT expressed keen interest to support the implementation. As we have a large number of jails, it is initially proposed to implement the system in important Jails with maximum inmates. It was decided to implement the project in Seven (07) most sensitive Jails (5 Circle Jails i.e., CJ Cuttack at Choudwar, CJ Berhampur, CJ Sambalpur, CJ Baripada and CJ Koraput & 2 Special Jails at Bhubaneswar and Puri) in the 1st Phase and then to expand to all other prisons subsequently.

2.2 Project Background & Implementation of 5-T Chapter

As per the decision of PDB, transformation of Prisons through Technology and Transparency is planned wherein modernization of Odisha Prisons through automated process by adopting AI/ML/IoT technology will be done. Prison budgets do not usually encompass novel technology,

but as technology can be utilized to enhance Prison administration; we have to identify and embrace it.

"Jail/Prison" by name means a designated area to keep together anti-social elements under watchful eyes of Law. The initial security was limited keeping these elements under physical guarding. But the situations of law and order have deteriorated with changing times. The importance of security through use of technology has become important in current times to mitigate perception of risk and keep risk at minimum level. Augmented technology with help of surveillance and access control system helps in getting relevant information based on live feeds on real time and data can be analyzed through technological EYE.

The revolutionary change being made globally through technology cannot be over looked. In Odisha, no one can ignore the importance of the same and as part of slogan – 5T, it makes the presence and need for technology to be implemented in Odisha Prisons more relevant. Further, the escape of antisocial elements from various Jails has underlined the importance of technology to help better and continuous vigilance over inmates 24 x 7. Not only there is absence of technology to watch inmates but also there is absence of proper technology to roster duties of our able prison guards round the clock. This was another reason, which led for the great escape, made easy as no hurdles were faced by these antisocial elements from their barracks.

In view of the varied challenges, integrated solution is required for implementation in the Jails of Odisha. The integrated solution should include a dynamic blend of hybrid mode prison management system with security solution.

The required Prison Automation System should be a path breaking solution providing hybrid integrated prison management system with security solution to the user. The system should manage all the operations of prisons and security locations along with providing prisoner movement (inside and outside both) and staff data on a single click through graphical interface.

The technology should ensure a complete package of technology with graphical interface (end-to-end solution). Technology - such as video feeds and biometric movement tracking - gets integrated into the required solution along with extensive listings and tags for quick retrievals. Its primary features should be as following:

a. **Hybrid Solution –** Required Solution should provide hybrid solution to prison where all the terminal/operational point inside prison works independently with the support of local server and local server is connected with online

server, hence every activity and operation can be performed electronically inside the prison without internet which ensure reliable availability of system as well as increase data security and also avoid misuse of internet.

b. **Prison Map –** The system should have inbuilt feature of a user configurable prison map that can be designed according to the respective prison. The map should be rich with color labels and displays green color if the allocated staff is present, else shows a red color. Further, if staff has not been allocated on the location, then the color label should be gray. The map should be updated in every five minutes and displays statistics and dynamic reports.

c. **Digital Panic Alarm Button –** Digital panic alarm button would enable the inmate to alarm/intimate the control room through video call in case of any emergency like medical emergency, clashing or any other essential requirements. The system would also track and maintain the history/disposition of every call.

d. **Gate Management System/Access Control -** Gate management system should keep control and track of every in and out, to and from each and every door of the Jail.

e. **Staff Registration –** The solution should have feature of staff registration that captures their personal profile, contact details, caste, photos and registers their finger prints (biometric identifications).

f. **Duty Allocation system** – The solution should have the feature of duty allocation & management system for staff. The duties should be enabled for allocating among duty timings and beat points.

g. **Computerized duty allocations –** The solution should be equipped with computer-assisted duty allocation system. Under this method the solution suggests names of staff that can possibly be allotted to the specific beat points. Which would assist in significantly reducing time during allocation of duties.

h. **Lottery based duty Allocation method –** The solution should also carry the feature of system-decided beat point allocation system. Beat points should be allocated to staff just at the time when they mark their attendance. This

should be done on a random basis. The staff should not aware which beat point would be allocated to them.

i. **Biometric (Fingerprint/Facial)/RF-Card based attendance system –** Attendance of staff should be carried out by solution through biometric/card/facial identification system. The attendance should be accurate to the last millisecond.

j. **Cashless Canteen System-** By using this facility inmate should be facilitated with cashless canteen system which would be operated by the prisoner thumb/finger impression/Card or any other solution which should be secured and could not be impersonated/ snatched with digital record management.

k. **Visitor details –** Every person who comes to visit a prisoner, his/her data should be recorded in the solution like his/her name, address, photos and scanned copies of visitor identification card (driving license, voter id etc.).

l. **Hospital Management System -** Solution should be equipped with fully functional Hospital Management System which should include OPD registration, treatment details, dispensary management system, diagnosis management system, medical record management system etc.

2.2.1 Objective of the Project

"To provide end-to-end integrated solution for Odisha Prisons for covering systematic security issues, prison automation, prisoner's management, staff management, inventory management along with decision support system to bring transparency, timeliness and accountability in the system as well as transform the prisons as corruption free & model prisons as per 5T program."

(With the unique blend of security technology and integrated prison automation, prison security, CCTV surveillance, prisoner management and security staff management, that could deliver the complete control on prison administration with exceptional improvement in prison security of the Jails of Odisha.)

3 Instruction to Bidder

3.1 Issuance of RFP and Address for Bid Document Download and Submission

The bidders can view the detailed RFP and the time schedule (Key Dates) for all the tenders floated through the single portal e-Procurement system on the Home Page at www.ocac.in, www.odisha.gov.in, and www.enivida.odisha.gov.in.

Bidder may download the tender document free of cost from the e-Procurement portal www.ocac.in, www.odisha.gov.in, and www.enivida.odisha.gov.in.

3.2 Pre-Requisite for Online Bidding

In order to bid online on the portal www.enivida.odisha.gov.in , the user desktop/machine must be updated with the latest Java & DSC setup. The link for downloading latest java applet & DSC setup are also available on the Home page of the e-tendering Portal.

3.3 Cost of Bidding Document

Tender document can be downloaded from the website www.ocac.in, www.odisha.gov.in, and www.enivida.odisha.gov.in.The bidders are required to submit the tender document Fee of ₹11200/- electronically through e-Nivida portal or by Demand Draft in favour of "Odisha Computer Application Centre "and payable at Bhubaneswar from any of the Nationalized scheduled commercial bank along with the Proposal. Proposals received without or with inadequate tender Document fees shall be rejected.

3.4 Earnest Money Deposit or Bid Security

The Bidders shall furnish, Earnest Money Deposit (EMD) of Rs. **17,50,000/-** (Rupees Seventeen Lakh Fifty thousand only).. The EMD Fee shall be submitted:

- In form of Demand Draft (DD) in favour of "Odisha Computer Application Centre "and payable at Bhubaneswar from any of the Nationalized scheduled commercial bank along with the Proposal. Proposals received without or with inadequate tender Document fees shall be rejected.
- The EMD shall be forfeited in following circumstances.
    - If a Bidder withdraws the Proposal or increases the quoted prices after opening of the Proposal and during the Bid validity period or its extended period, if any.

- In case of a successful Bidder, if the Bidder fails to sign the Agreement in accordance with Terms & Conditions (including timelines for execution of the Agreement) of this tender or fails to furnish Performance Bank Guarantee in accordance with the Terms & Conditions (including timelines for furnishing Performance Bank Guarantee)
- If a Bidder withdraws its bid during the period of bid validity.
- During the Bid process, if a Bidder indulges in any act that would jeopardize or unnecessarily delay the process of bid evaluation and finalization.
- If a Bidder has been found to have indulged in any suppression of facts, furnishing of fraudulent statement, misconduct, or other dishonest or other ethically improper activity, in relation to this tender
- If a Bidder's proposal contains deviations, conditional offers and partial offers.

3.5 Cost of Proposal

The Bidder shall bear all costs associated with the preparation and submission of its bid and Department shall in no event be held responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

3.6 Submission of Bids

Three bid system will be followed for this RFP with Quality cum Cost based selection (QCBS) method. The three bids are Eligibility/Pre-Qualification Criteria, Technical Bid and Financial Bid.

All bids must be prepared as per format provided in annexures. All pages of bids must be sequentially numbered and must contain the list of contents with page number. Any deficiency in the documentation may result in rejection of the bid. If bidder fails to submit bid online within given time then bid shall be rejected.

The bidder shall take into account any corrigendum published to this RFP document that may have been published before submission of the proposal.

3.7 Mode of Bid Submission

The bidder has to submit the bid electronically in e-Nivida System at www.enivida.odisha.gov.in.

3.8 Bid Formats

Proposal must be direct, concise and complete. Department shall evaluate the proposal based on the clarity and directness of its response to the requirements of the project as outlined in this RFP.

Bidder shall submit the proposal in the format prescribed in following sub-sections. Bids not in the format shall be liable for rejection. If a format for specific documents not provided in this RFP, the document shall be submitted in the format that makes it legally valid/binding on the bidder and that is acceptable to the purchaser. In any event, the Purchaser shall have the right to ask for clarifications, modifications etc. on the document submitted by the Bidder and the Bidder shall be obliged to provide such clarifications and modifications within timelines specified by the Department/Purchaser.

3.8.1 Pre-Qualification Bid Formats

Documents / Items	Details
Pre-Qualification Checklist	As per Annexure-I
Undertaking /Bid Cover Letter	As per Annexure-II
Bidder's Profile	As per Annexure-III
Pre-Qualification Criteria	PQ/Eligibility Criteria Table and supporting documents referring the page
Power of Attorney/Letter of Authorization	• Power of Attorney/LoA executed by the bidder in favor of authorized signatory signing the bid Or Copy of Board Resolution • Power of Attorney/LoA executed by bidder
Self-Declaration Regarding non-blacklisting	As per Annexure – IV
Undertaking on Total Responsibility	As per Annexure – V
No deviation Certificate	As per Annexure – VI

3.8.2 Technical Qualification Bid Formats

Documents / Forms / Items	Details
Technical Proposal Letter	As per Tech Form-I
Technical Evaluation Check List / Project Citation Format	As per Tech Form-II
Un Priced BoM	As per Tech Form II
Proposed Solution	Detailed Proposed Solution complying all the requirement as mentioned in this RFP – Tech Form III
Proposed Work Plan	As per Tech Form IV
Compliance Sheet for Technical Proposal	As per Tech Form-VI ***(The bid shall be rejected if cost of any item is shown in the technical proposal)***
Detailed Specification and Data Sheets of all equipment/items proposed including licenses	Properly highlighted and mapped with RFP requirement

3.8.3 Financial Bid Formats

The Bidder must submit the Commercial Bid is the formats specified in "Commercial Bid Format" provided in Section 12.1 & 12.2. The Bidders shall give the required details of all applicable taxes, duties, other levies and charges etc. in respect of provision of services under this RFP.

Prices quoted by the Bidder shall remain firm during the entire contract period and shall not be subject to variation on any account except change in tax rates and tax laws. A Bid submitted with an adjustable price quotation will be treated as non-responsive and shall be rejected.

3.9 Pre-Bid Meetings & Queries

OCAC shall hold a pre-bid meeting with the prospective bidders as per the tentative calendar events at OCAC office.

The Bidders will have to ensure that their queries for Pre-Bid meeting should reach as per below given format (in Excel .xls format) by email as per the date and time mentioned in the Bidding Details section.

The queries should necessarily be submitted in the following format:

S. No.	RFP Document Reference(s) (Section & Page Numbers)	Content of RFP requiring Clarification(s)	Points of Clarification / Suggestions	Remarks or Justification

OCAC shall not be responsible for ensuring that the bidder's queries have been received by them. Any requests for clarifications after the indicated date and time shall not be entertained by OCAC

3.10 Response to Pre-Bid Queries

a) OCAC will endeavor to provide timely response to all valid queries. However, OCAC makes no representation or warranty as to the completeness or accuracy of any response made in good faith, nor does OCAC undertake to answer all the queries that have been posed by the bidders.
b) At any time prior to the last date for receipt of bids, OCAC may, for any reason, modify the tender Document by a corrigendum.
c) The Corrigendum (if any) & clarifications to the queries from all bidders will be posted on the websites www.ocac.in, www.odisha.gov.in , www.enivida.odisha.gov.in as per the tentative calendar events.
d) Any such corrigendum shall be deemed to be incorporated into this tender.
e) In order to provide prospective Bidders reasonable time for taking the corrigendum into account, OCAC may, at its discretion, extend the last date for the receipt of Proposals.

3.11 Language of Bids

The Bids prepared by the Bidder and all subsequent correspondence and documents relating to the bids exchanged by the Bidder and OCAC, shall be written in English language. Any printed

literature furnished by the Bidder, written in another language, shall be accompanied by an accurate English translation, in which case, for purposes of interpretation of the bid, the English translation shall govern.

3.12 Amendment of RFP Document

At any time prior to the deadline for submission of Proposal, the Client may amend the RFP document by issuing suitable Addendum.

Any addendum thus issued shall be part of the RFP document and shall be communicated in writing or by facsimile or by email to all bidders. It shall also be posted online at www.ocac.in, www.odisha.gov.in , www.enivida.odisha.gov.in . The bidder shall promptly acknowledge receipt of each Addendum by facsimile or by email to the RFP issuing authority. Failure to acknowledge receipt of each Addendum shall be interpreted as receipt of the Addendum by the bidder and no claim will be entertained or accepted in this regard.

To give bidders reasonable time in which to take an Addendum into account in preparing their Proposals, the Client shall extend, if necessary, the deadline for submission of Proposals.

3.13 One Proposal Per Bidder

Each bidder shall submit only one Proposal. The bidder who submits or participates in more than one Proposal will be disqualified.

3.14 Inspection of Site and Sufficiency of Tender

Bidders are expected to work out their own rates based on the detailed description of scope of work items, the specifications, SLA conditions, etc. and should judiciously arrive at the commercials. The Bidders shall be deemed to have satisfied themselves before bid submission as to correctness and sufficiency of its Tender. The rates and prices quoted shall cover all its obligations under the contract necessary for proper completion and maintenance of the Works/Services.

If necessary, before submitting its bid the Bidder should inspect and examine various sites and its surroundings and shall satisfy itself about form and nature of the Sites, means of access to the site, and in general, obtain all necessary information which may influence or affect project implementation and operationalization. No extra charges consequent on any misunderstanding or otherwise shall be allowed.

3.15 Use & Release of Bidder Submissions

OCAC is not liable for any cost incurred by the bidder in the preparation and production of the Proposal, the preparation or execution of any benchmark demonstrations, simulation or training service or for any work performed prior to the execution of a formal contract. All materials submitted become the property of the Client and may be returned at its sole discretion. The content of each bidder's Proposal will be held in strict confidence during the evaluation process, and details of the Proposals will not be discussed outside the evaluation process.

3.16 Compliant Proposal

The Bidders are advised to study all instructions, forms, terms, requirements and other information in the RFP documents carefully. Submission of the Bid shall be deemed to have been done after careful study and examination of this RFP document with full understanding of its implications.

Failure to comply with the requirements of this paragraph may render the Proposal non-compliant and the Proposal may be rejected. Bidders must;

a. Submit all documents as specified in the RFP
b. Comply with all the requirement as specified in this RFP

The Bids shall be submitted strictly in accordance with the requirements and terms & conditions of this RFP. The Bidder shall submit a No Deviation Certificate as per the format mentioned in this RFP document. The bids with deviation(s) are liable to be rejected.

3.17 Limitations on Promotions

The bidder will not make any reference to the department or this procurement or resulting contract in any literature, promotional material, brochures, sales presentation or the like without the prior written consent of the authorized representative of the Client. The bidder shall not perform any kind of promotion, publicity or advertising etc. at the department field offices through any kinds of hoardings, banners or the like without the express prior written consent of the same.

3.18 Total Responsibility

Bidder should submit undertaking on total responsibility for the defect free operation of the proposed solution as per the format provided in RFP under Annexure section.

3.19 Conditional Offers by the Vendor

The bidder shall abide by all terms and conditions specified in the RFP Document. Conditional offers shall be liable for dis-qualification.

3.20 Deadline for Submission of Proposals

Proposals must be submitted online by the bidders no later than the time and date stipulated in the RFP. The authorized authority may, in exceptional circumstances and at his discretion, extend the deadline for submission of Proposals by issuing an Addendum or by intimating all bidders who have been provided the Proposal Documents, in writing or by facsimile or by email in accordance with the RFP requirements. In this case, all rights and obligations of the department and the bidders previously subject to the original deadline will thereafter be subject to the deadline as extended.

3.21 Late Proposal Submission

The e-procurement portal www.ocac.in, www.odisha.gov.in , www.enivida.odisha.gov.in will not accept any proposal post the deadline date & time. Physical or Manual submission of proposals shall not be entertained after the deadline.

3.22 Modification and Withdrawal of Bids

The bidder may modify or withdraw its Bid after the Bid's submission prior to the deadline prescribed for submission of online Bids.

No Bid may be modified subsequent to the deadline for submission of Bids. No Bid may be withdrawn in the interval between the deadline for submission of Bids and the expiration of the period of Bid validity specified by the Bidder on the Bid Form.

3.23 Bid Validity/Proposal Validity

Proposals shall be valid for a period of 180 days (one hundred and eighty days) from the date of submission of the proposals. A Proposal valid for shorter period may be considered as non-responsive. In exceptional circumstances, at its discretion, OCAC may solicit the bidder's consent for an extension of the validity period. The request and the responses thereto shall be made in writing or by fax or email.

3.24 Address for Communication

Bidder may use address below for any further communication w.r.t. this Tender. All the information about the opening or corrigendum etc. shall also be uploaded at website i.e. www.ocac.in, www.odisha.gov.in , www.enivida.odisha.gov.in

General Manager (Admin)

Odisha Computer Application Centre

(Technical Directorate of I.T. Department, Government of Odisha) N-1/7-D, Acharya Vihar, P.O. - RRL, Bhubaneswar - 751013

EPBX: 674-2567280 / 2567064 /2567295 / 2567283

Fax: +91-674-2567842

3.25 Presence of Bidder

The bidders may send their authorized representative in the bid opening process. Information relating to the examination & clarification may be sought from the Bidder at the time of pre-qualification and technical evaluation. However, the client reserves the right to not share the comparative analysis of proposals to the bidders until the award to the successful Bidder has been announced.

3.26 Correction of Errors

Bidders are advised to exercise greatest care in entering the pricing figures in the Financial Bid. No excuse that mistakes have been made or requests for prices to be corrected will be entertained after the quotations are opened online. All corrections, if any, should be digitally signed by the person signing the bid form before submission, failing which the figures for such items may not be considered.

Arithmetic errors in bids will be corrected as follows:

- ✓ Where there is a discrepancy between the amounts in figures and in words, the amount in words shall govern.
- ✓ Where there is a discrepancy between the unit rate and the line-item total resulting from multiplying the unit rate by the quantity, the unit rate will govern unless, in the opinion of department, there is obviously a gross error such as a misplacement of a decimal point, in which case the line item total will govern.

- ✓ The amount stated in the tender form, adjusted in accordance with the above procedure, shall be considered as binding, unless it causes the overall tender price to rise, in which case the bid price shall govern.

3.27 Opening of Proposal

Offers received within the prescribed closing date and time will be opened in presence of bidder representatives (who choose to attend the opening of tender), on the date, time & at the address as per the Bidding Data Sheet. The vendor's representatives present shall sign a register of attendance.

The dates for opening of Technical Proposal would be communicated subsequently, as and when the Prequalification Proposal scrutiny is completed. Bidders would be given sufficient notice to make technical presentation with respect to the Evaluation Framework and their proposed solution.

3.28 Clarification on Proposal

To assist in the scrutiny, evaluation and comparison of offers, OCAC may, at its discretion, ask some or all bidders for clarifications with regards to their offer. The request for such clarifications and the response will necessarily be in writing (by letter / fax / email). Failure of a Bidder to submit additional information or clarification as sought by OCAC within the prescribed period will be considered as non-compliance and the proposal may get evaluated based on the limited information furnished along with the bid proposal.

3.29 Rejection/Disqualification

3.29.1 General Rejection Criteria/Disqualification

The bid is liable to be disqualified if:

I. Not submitted in accordance with this RFP.
II. During validity of the bid or its extended period, if any, the bidder increases his quoted prices without the consent of the Client to change the bid quote.
III. The bidder puts his own conditions with the bid.
IV. The bidder submitted deviation bids.
V. Bid received in incomplete form or not accompanied by EMD and Tender document fee.
VI. Manual Bid received instead of online submission.
VII. Bid not accompanied by all requisite documents.

VIII. Bidder fails to enter into a contract within 30 working days of the date of notice of the award of tender or within such extended period, as may be specified by an authorized representative.

IX. Bids submitted without Power or Attorney/Letter of Authorization

3.29.2 Technical Rejection Criteria/Disqualification

I. Bidders not meeting the eligibility criteria defined in the RFP

II. Revelation of prices in any form before opening of the commercial bid

III. 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.

IV. Bidders not quoted for complete scope of work as indicated in the tender documents, addendum (if any), and any subsequent information given to the Bidder.

V. Bidder not complying with the Technical and General terms and condition of the RFP

VI. Bidder not confirming the unconditional acceptance of full responsibility of providing services in accordance with the scope of work and service level agreements of this tender.

3.30 Taxes & Duties

Bidders shall be entirely responsible for payment of all taxes on as per actuals. The Bidders shall fully familiarize themselves about the applicable domestic taxes (such as GST or income taxes, duties, fees, levies, etc.) on amounts payable by the Purchaser under the resultant Agreement. All such taxes must be included by Bidders in the final cost offered to OCAC.

3.31 Right to Vary the Scope at the Time of Award

- ✓ OCAC reserves its right to make changes to the scope of the work at the time of execution of the resultant Agreement. 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 resultant Agreement, whether changed or not changed by the order, an equitable adjustment (if required) shall be made in the Contract Value or time schedule, or both, and the Agreement 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 changed order from OCAC.

- ✓ Repeat orders for extra items or additional quantities may be placed on the rates and conditions given in the contract. Delivery or completion period may also be proportionately increased.

3.32 Fraud & Corrupt Practices

OCAC requires that bidder observe the highest standards of ethics during the entire process of tendering and during execution of the contract. In pursuance of this policy, OCAC defines, for the purpose of this provision, the terms set forth as follows:

- **"Corrupt practice"** means the offering, giving, receiving or soliciting of anything of value to influence the action of OCAC in contract executions.

- **"Fraudulent practice"** means a misrepresentation of facts, in order to influence a procurement process or the execution of a contract, to OCAC, and includes collusive practice among bidders (prior to or after Proposal submission) designed to establish Proposal prices at artificially high or non-competitive levels and to deprive OCAC of the benefits of free and open competition.

- **"Unfair trade practices"** means supply of services different from what is ordered on, or change in the Scope of Work which is given by the OCAC in RFP.

- **"Coercive Practices"** means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the execution of contract.

OCAC shall reject the bid proposal for award of contract, if it determines that the bidder recommended for award, has been found to have been engaged in corrupt, fraudulent of unfair trade practices. Once the contract is signed and if it is noticed that the Bidder has indulged into the Corrupt / Fraudulent / Unfair /Coercive practices, it will be a sufficient ground for the department for termination of the contract and initiate black-listing of the vendor.

4 Bid Evaluation Criteria

4.1 Bid Evaluation Process

I. Consortium Bidding is not allowed.
II. The OEM's/parent company/major promoter/Bidder of the OEM's (like camera, Server, Switch, LED TV, Access Control Device, SOS Device, POS Kiosk, UPS etc) directly /

indirectly shall not be from or belong to the countries sharing land borders with Indian territory.

III. OCAC will constitute a Proposal Evaluation Committee to evaluate the responses of the bidders

IV. The Bidding process shall be online using eNivida portal www.ocac.in, www.odisha.gov.in ,www.enivida.odisha.gov.in . The Evaluation Committee(s) constituted by OCAC shall evaluate the bids submitted online by the bidders for compliance

V. The Proposal Evaluation Committee constituted by the OCAC shall evaluate the responses to the RFP and all supporting documents / documentary evidence. Inability to submit requisite supporting documents / documentary evidence, may lead to rejection

VI. The decision of the Proposal Evaluation Committee in the evaluation of responses to the RFP shall be final. No correspondence will be entertained outside the process of evaluation with the Committee

VII. Evaluation Committee will first open Pre-Qualification

VIII. The proposal documentation furnished by the bidders shall be examined prima facie, to ensure that the proposal has been properly prepared, signed and accompanied by relevant documents criteria (cover letter, authorization/Power of Attorney in favour of bid signatory, other requisite details etc.) to substantiate the compliance with the criteria as explained above.

IX. In order to assist in the examination, evaluation and comparison of Bids, OCAC may at its discretion ask the Bidder for a clarification regarding its Bid. The clarification shall be given in writing, but no change in the price or substance of the Bid shall be sought, offered or permitted

X. OCAC reserves the right to ask for a technical elaboration/clarification in the form of a technical presentation from the Bidder on the already submitted Technical Proposal at any point of time before opening the Financial Proposal. The Bidder shall furnish the required information to OCAC and its appointed representative on the date asked for, at no cost to OCAC.

XI. Bidders for this contract will be assessed in accordance with the Quality cum Cost based selection (QCBS) method. All bids will primarily be evaluated on the basis of Pre-Qualification & Technical Criteria. The Proposal Evaluation Committee will carry out a detailed evaluation of the Proposals. Only those bidders who qualify in Pre-qualification & Technical Bid will be qualify for financial bid opening. Financial bids of only those bidders shall be opened who qualify in Technical Bid by scoring 70% or above.

XII. In order to determine whether the technical aspects are in accordance with the requirements set forth in the RFP Documents, the Proposal Evaluation Committee (Tender Committee) will examine and compare the technical aspect of the Proposals on the basis of information provided by the bidder, considering the following factors:

a. Overall completeness and compliance with the requirement
b. Proposed solution, work-plan and methodology to demonstrate that the bidder will achieve the performance standards within the time frame described in RFP documents.
c. Any other relevant factors, if any, listed in the RFP document or OCAC deems necessary or prudent to take into consideration.
d. In order to facilitate the technical proposal evaluation, the technical criteria laid down along with the assigned weights have been presented in subsequent sections. The marking scheme presented here is an indication of the relative importance of the evaluation criteria. Bidders securing a minimum of 70% marks in the technical evaluation will only be considered for further financial bid evaluation. Bidders', who don't secure the minimum, specified technical score will be considered technically non-responsive and hence debarred from being considered for financial evaluation. Recommendation of the Proposal Evaluation Committee (Tender Committee) shall be final in this regard.
e. Pre-qualification and Technical Evaluation will be based on the documents provided by the bidder. The Bidder who will fulfill all the criteria for the Pre-qualification as mentioned in this RFP will be shortlisted for Technical Evaluation. Technical Evaluation will be based on the marking criteria as mentioned in this RFP.

4.2 Pre-Qualification Criteria

The Bidder should meet the following Eligibility Criteria and should enclose the mentioned documentary proof in Technical Bid.

S. No.	Criterion	Supporting Documents to be Submitted
Bidder's General Details		

1	The bidder should be a company registered under Companies Act, 1956/ Proprietorship Firm /Partnership Firms Registered under limited liability Partnership Act 2008/Partnership Firm Registered under Indian Partnership Act 1932.	Copy of Certificate of Incorporation
2	The bidder should be in operation in India in the business for the last Five (5) years as on 31st March 2023 in India.	Copy of Memorandum & Articles of Association should be attached, and Work orders confirming year and Area of activity
3	The bidder should have a valid Certificates of: - GSTN where business is located - PAN/TAN Number -Copies of IT return of last 3 Assessment Year **Note:** Any certificate should belong to a date not later than the last day of bid submission	Copy of the certificates
4	Bidder should have average consolidated annual turnover of at least Rs. 8 Crores, from the last 3 financial years (FY 2020-21, FY 2021-22 & FY 2022-23) from IT / ITEs services	Copy of Certificate duly signed by Statutory Auditor. Consolidated Balance Sheet for last 3 FY
5	Bidder's Net Worth should be positive in the last 03 financial years (FY 2020-21, FY 2021-22 & FY 2022-23)	Copy of Certificate duly signed by Statutory Auditor
6	The bidder must have following certifications with validity: • ISO/IEC 27001-2013 • ISO 9001:2015 • CMMI Level 3 or higher	Copy of quality certificate or documentation of the quality policy.
7	Bidder should submit the Bid security (EMD)	In the form of BG/DD
8	Bidder should have an office at Odisha. In case, Bidder does not have an office at present, then Bidder needs to submit an undertaking to open an office in Odisha within 30 working days from the date of signing of the agreement.	Undertaking on Letterhead signed by the authorized signatory of the Bidder.

9	The bidder should not under a declaration of ineligibility for corrupt or fraudulent practices and must not be blacklisted by any State Govt./ Central Govt., for any reason, at the time of bid submission.	Bidder should submit the self-certification.
10	Authorized Signatory of the Bid.	Power of Attorney, in the name of person signing the Bid, authorizing him to sign /submit bid as a binding document
Bidder's Relevant Project Experience		
11	Bidders must have experience in working with Police / Prison/ any government department and have completed projects with State Prison /state police / any other government department in last 10 years	Work order / Work Agreement / Completion Certificates /Phase Completion Certificate / TDS Certificate/ CA Certificate
12	The bidder must have experience in successfully implementation of integrated turnkey projects around similar scope (ICT Components) in the last 3 years. • At-least one project with minimum value of project is Rs 2 Crore. (Specifically, each project must have components of Software, Hardware, Networking, Surveillance, Security Equipment, Access Control, NOC/Helpdesk and Implementation excluding civil work)	Work order / Work Agreement / Completion Certificates /Phase Completion Certificate / TDS Certificate/ CA Certificate
Note: I. All the documents/ forms, as mentioned above, need to be submitted by the bidder as per the formats given in the RFP in their letter head with proper sign and stamp by the authorized person. The entire quoted project must have been made live.		

4.3 Technical Qualification Criteria

The Tender Committee will carry out a detailed evaluation of the bids in order to determine whether the technical aspects are in accordance with the requirements set forth in the RFP documents.

In order to facilitate the technical bid evaluation, the technical criteria laid down have been presented in the following table. The marking scheme presented here is an indication of the

relative importance of the evaluation criteria. Bidders securing a minimum of 70% marks in the technical evaluation will only be considered for further Commercial Bid evaluation. Bids, which do not secure the minimum, specified technical score will be considered technically non-responsive and will not be considered for evaluation.

Distribution of Marks

Financial, Organization Strength	15 Marks
Project experience and expertise	55 Marks
Approach & Methodology	30 Marks
70 is the cut-off marks to open the financial bid	

Bidders will be evaluated for technical capability to execute the project according to the following criteria:

Financial & Organizational Strength: 15 Marks

No.	Technical Evaluation Criteria/Sub Criteria	Documentary Evidence	Description for Marks	Max Marks
a.	The bidder should be a business entity shall mean a company registered in India under the Companies Act 1956, or a partnership firm registered under the relevant and prevailing law relating to partnership in India, and operating for at least 5 years in Integrated software & Hardware development and implementation business as of 31/03/2023.	Copy of the work order/ completion certificate as documentary proof	• Integrated Software & Hardware development and Implementation experience of the bidder in years: ≥5 years: 3 Marks Additional 1 mark for additional 1 year each subject to maximum 5 marks.	**5**

b.	Bidder should have average consolidated annual turnover of at least Rs. 8 Crores, from the last 3 financial years (FY 2020-21, FY 2021-22 & FY 2022-23) from IT / ITES services	Audited Balance Sheet and Statutory Auditor's Certificate	• INR 5 Cr to 10 Cr: 3 Marks • INR 10 to 15 Cr: 4 Marks • More than 15 Cr: 5 Marks	**5**
c.	The bidder must have following certifications with validity: • ISO/IEC 27001-2013 • ISO 9001:2015 • CMMI Level 3 or higher	Valid Certificate copy	• All certifications = 5 marks	5

Project Experience & Expertise: 55 Marks

No.	Technical Evaluation Criteria/Sub Criteria	Documentary Evidence	Description for Marks	Max Marks
a.	The bidder must have experience in successfully implementation of integrated turnkey projects around similar scope (ICT Components) in the last 3 years. • At-least one government project with minimum value of project is Rs 2 Crore. (Specifically, each project must have components of Software, Hardware, Networking, Surveillance, Security Equipment, Access Control, NOC/Helpdesk and Implementation excluding civil work)	Work order / Work Agreement / MOU / Completion Certificates/Phase Completion Certificate/TDS Certificate/ CA Certificate	• 3 projects each with value >=3 Cr **Or** 1 project with value > 10Cr = 10 marks • 2 projects each with value >=4 Cr **Or** 1 project with value >8 Cr = 7 Marks • 1 project with value >=2 Cr = 5Marks	**10**

b.	Bidders should have experience in Software & Hardware projects with Police /Prison / any other government department and completed projects in last 7 years	Work order / Work Agreement /MOU/ Completion Certificates/Phase Completion Certificate/TDS Certificate/CA Certificate	For projects the marks would be based on the following: • Software & Hardware integrated Project with prison department =2 Marks • For having experience of running Prison Inmate Calling System in any state prison department = 5 Marks • For having experience of running Cashless Canteen System in any state prison department = 5 Marks • For having experience of running Jail MIS in any state prison department = 5 Marks • Software & Hardware integrated Project with Police department = 3 Marks • Hospital Management	**25**

			software= 2 marks • Document management software:3 marks	
c.	Bidders should have experience in Software & Hardware integration projects with State Prison /state police/ courts and integration with Courts/CCTNS/ E-prison etc. in last 7 years	Work order / Work Agreement /MOU/ Completion Certificates/Phase Completion Certificate/TDS Certificate/CA Certificate	• Software Integration with Courts= 5 Marks • Software Integration with E prisons= 10 Marks • Software Integration with CCTNS= 5 Marks	**20**

Approach & Methodology: 30 Marks

No.	Technical Evaluation Criteria/Sub Criteria	Documentary Evidence	Max Marks
a.	Proposed solution, Approach, Methodology, Project Management and Training Plan, & Technical Presentation	Bid evaluation committee will evaluate the proposed solution of bidder whether it is in line with the RFP requirement. The quality of the solution and work plan with compliances to the SLA. Evaluation Committee will evaluate whether the implementation methodology is in line with the requirement. The important parameters being: - Plan for meeting the SLA norms. Work plan, approach & methodology for completing the work and Proposed Training plan. Live demonstration of at least one E-governance application.	**10**

b.	Bidders must have demonstrate Proof of concept (POC) of software & Hardware equipment (SOS/Panic Button, RFID Access & attendance controller, Canteen Kiosk, Emergency Phone, Prison Inmate Calling System) to technical committee. For detail information /working of hardware & software please refer Scope of Work.	• Jail Software with required features and hardware integration=10 Marks For hardware POC points will be given only to make in India products: • SOS/Panic Button =2 Marks • Emergency Phone =2 Marks • RFID Access & attendance controller =2 Marks • Canteen Kiosk =2 Marks • Prison Inmate Calling System =2 Marks Physical demonstration/ Video Conferencing **Note:** • Physical demonstration will be held at OCAC/ Department Odisha. Factory Inspection will also be done if required.	**20**

4.4 Sequence of Technical Bids Evaluation.

i. The Bidders technical solutions proposed in the bid document and quality of the services will be evaluated as per the scope of the work and requirements of the department by the committee.

ii. The technically qualified Bidders will be considered for opening of financial bid. Criteria for technical qualification is as described above. Bidders must score at least 70% Marks out of 100 in the technical scores in order to be considered for technical qualification.

iii. The bidder with highest technical bid (H1) will be awarded 100% score.

iv. Technical Scores for other than H1 bidders will be evaluated using the following formula:

v. Tn = {(Technical Bid score of the Bidder/ Highest technical evaluation marks * 100} % (Adjusted to two decimal places).

vi. The commercial bids of only the technically qualified bidders will be opened for further processing.

4.5 Financial Bid Criteria

The financial bids of only those Bidders, who have scored at least 70 marks in the technical evaluation process, will be opened. The Financial Bids of technically qualified Bidders will be opened on the prescribed date in the presence of Bidder representatives who choose to attend the financial Bid Opening. The date and time to be communicated to all the technically qualified Bidders. The Bidder's representatives who are present shall sign in register evidencing their attendance. The name of Bidder and Bid Prices will be announced at the meeting.

4.6 Evaluation of Commercial Bids

i. All the bidders who secure a Technical Score of 70% or more will be declared as technically qualified.

ii. The bidder with highest technical Score (TS1) will be awarded 100% score.

iii. Technical Scores for other than bidders will be evaluated using the following formula:
Tn = {(Technical Bid score of the Bidder/ Highest technical evaluation marks * 100} % (Adjusted to two decimal places)
TS1=Highest technical evaluation marks

iv. The Commercial Bids of technically qualified bidders (i.e. Bidders with more than 70 marks in Technical Evaluation) will be opened on the prescribed date in the presence of bidder representatives for further processing.

v. Only fixed price financial bids indicating total price for all the deliverables and services specified in this bid document will be considered.

vi. The bid price will include all taxes and levies and shall be in Indian Rupees and mentioned separately.

vii. Any conditional bid would be rejected.

viii. Commercial bids whose value is less than 20% of the average bid price will be disqualified (the average price shall be computed by adding all commercial bid values of the technically qualified bidders' and dividing the same by number of qualified bidders).

ix. Errors & Rectification: Arithmetical errors will be rectified on the following basis: "If there is a discrepancy between the unit price and total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and total price shall be corrected. If there is a discrepancy between words and figures, the amount in words will prevail. If the bidder does not accept the correction of error, its bid will be rejected".

x. If there is no price quoted for certain material or service, the bid shall be declared as disqualified.

xi. In the event that there are 2 or more bidders having the same value in commercial bid, the bidder securing highest technical score will be adjudicated as "Best responsive bid" for award of the Project.

xii. For the calculation of cumulative bid of section 12.2 (Prison inmate calling system charge) labeled as $F_{PICS\ for}$ commercial bid calculation will be as per this table

Call Type	Weightage
Audio Call National	70.00%
Audio Call International	1.00%
Video Call National	28.00%
Video Call International	1.00%

Note: Weightage of the different call types are just for financial evaluation purpose while billing will be made as per actuals.

Sample bid for illustration:

Call Type	Rate quoated by Firm A (in Rs.)	Rate quoated by Firm B (in Rs.)	Weightage	Weightage value firm A (in Rs.)	Weightage value firm B (in Rs.)
Audio National	2	1	70.00%	1.4	0.7
Audio International	10	9	1.00%	0.1	0.09
Video Call National	5	6	28.00%	1.4	1.68
Video Call International	20	21	1.00%	0.2	0.21
				3.1	2.68

i. Financial bid will be calculated with calculated score of all three sections 12.1 and 12.2.

ii. The bidder with lowest qualifying financial bid (L1) in each section will be awarded 100% score for respective field where 12.1 will be labeled F_H and 12.2 will be labeled as F_{PICS}. Financial score for other bidders will be evaluated using the following formula for each of three sections: Fx = {(Financial Bid of L1 in that section / Financial Bid of Bidder in that section) * 100} %.

iii. Fn=99.75% F_H + 0.25% F_{PICS}

Bid evaluation example with Sample value:

Commercial Bid Evaluation						
Bid Section	**Rate quoted by Firm A (in Rs.)**	**Rate quoted by Firm B (in Rs.)**	**Fx = {(Financial Bid of L1 in that section / Financial Bid of Bidder in that section) * 100} %.**	**Fx = {(Financial Bid of L1 in that section / Financial Bid of Bidder in that section) * 100}%.**	**Fn =99.75% F_H + 0.25% F_{PICS}**	**Fn =99.75% F_H + 0.25% F_{PICS}**
			Calculated bid value as per L1 of each section (Firm A)	**Calculated bid value as per L1 of each section (Firm B)**	**Firm A**	**Firm B**
RFP Bid Value (F_H)	175000000	175500000	100	99.71	99.87	99.71
PICS Bid (F_{PICS})	2	1	50	100		

4.7 Final Evaluation of Bids

i. The technical and financial evaluation scores secured by each bidder will be added using weightages of 70% and 30% respectively to compute composite score. The composite score will be computed as under:

ii. Bn = 70%*Tn + 30%*Fn

iii. The bidder securing highest composite score will be adjudicated as most responsive bidder for award of project.

4.8 Award of project

i. OCAC will award the Contract to the successful bidder whose proposal has scored the highest
composite score and would consider it as substantially responsive as per the process outlined above.

ii. The decision of the Evaluation Committee in the evaluation of the Technical and Financial bids shall be final and binding on all the bidders. No correspondence will be entertained outside the process of negotiation/ discussion with the Bid Evaluation Committee.

iii. Any effort by a Bidder to influence the Bid Evaluation Committee's processing of Bids or award decisions may result in the rejection of the Bid.

4.9 Clarification of Bids

1. To assist in the examination, evaluation, comparison and qualification of the Bids, the bid evaluation committee may, at its discretion, ask any bidder for a clarification regarding its Bid. The committee's request for clarification and the response of the bidder shall be through the e-Procurement portal.
2. Any clarification submitted by a bidder with regard to its Bid that is not in response to a request by the committee shall not be considered.
3. No change in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the committee in the evaluation of the financial Bids.
4. No substantive change to qualification information or to a submission, including changes aimed at making an unqualified bidder, qualified or an unresponsive submission, responsive shall be sought, offered or permitted.

4.10 Non-material Non-conformities in Bids

a. The bid evaluation committee may waive any non-conformities in the Bid that do not constitute a material deviation, reservation or omission, the Bid shall be deemed to be substantially responsive.
b. The bid evaluation committee may request the bidder to submit the necessary information or document like audited statement of accounts/ CA Certificate, GST Registration Certificate, Latest GST clearance certificate, ISO Certificates, etc. within a reasonable period

of time. Failure of the bidder to comply with the request may result in the rejection of its Bid.

c. The bid evaluation committee may rectify non-material nonconformities or omissions on the basis of the information or documentation received from the bidder under (b) above.

4.11 Correction of Arithmetic Errors in Financial Bids

The bid evaluation committee shall correct arithmetical errors in substantially responsive Bids, on the following basis, namely: -

a) 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, unless in the opinion of the bid evaluation committee there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;

b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and

c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to clause (a) and (b) above.

4.12 Price/ purchase preference in evaluation

Price and/ or purchase preference notified by the State Government and as mentioned in the bidding document shall be considered in the evaluation of Bids and award of contract.

4.13 Negotiations

a. Except in case of procurement by method of single source procurement or procurement by competitive negotiations, to the extent possible, no negotiations shall be conducted after the pre-bid stage. All clarifications needed to be sought shall be sought in the pre-bid stage itself.

b. Negotiations may, however, be undertaken only with the lowest or most advantageous bidder when the rates are considered to be much higher than the prevailing market rates.

c. The bid evaluation committee shall have full powers to undertake negotiations. Detailed reasons and results of negotiations shall be recorded in the proceedings.

d. The lowest or most advantageous bidder shall be informed in writing either through messenger or by registered letter and e-mail (if available). A minimum time of seven days shall be given for calling negotiations. In case of urgency the bid evaluation committee,

after recording reasons, may reduce the time, provided the lowest or most advantageous bidder has received the intimation and consented to regarding holding of negotiations.

e. Negotiations shall not make the original offer made by the bidder inoperative. The bid evaluation committee shall have option to consider the original offer in case the bidder decides to increase rates originally quoted or imposes any new terms or conditions.

f. In case of non-satisfactory achievement of rates from lowest or most advantageous bidder, the bid evaluation committee may choose to make a written counter offer to the lowest or most advantageous bidder and if this is not accepted by him, the committee may decide to reject and re-invite Bids or to make the same counter-offer first to the second lowest or most advantageous bidder, then to the third lowest or most advantageous bidder and so on in the order of their initial standing and work/ supply order be awarded to the bidder who accepts the counter-offer. This procedure would be used in exceptional cases only.

g. In case the rates even after the negotiations are considered very high, fresh Bids shall be invited.

4.14 No Commitment to Accept lowest or any Tender

The OCAC shall be under no obligation to accept the lowest or any other offer received in response to this tender notice. OCAC reserves all the right to accept / reject any tender without assigning any reason thereof.

5 Scope of Work

5.1 Supply Installation & commissioning of Jail MIS, Video Surveillance, Access Control, IP Emergency Phone, IP Speaker, SOS & Other Devices

OCAC intends to assist the prison administration to have the better control on operations, secure the Jails and reforms/relief to inmates by its various automated process abide by OMJM – 2020 (Odisha Model Jail Manual). The detailed scope of work is provided below:

1. **JAIL MIS:** The bidder must provide an integrated management and MIS tool for covering following modules of day-to-day activities of Prison administration, namely
    - **A.** Prisoner profiling
    - **B.** Meta search engine
    - **C.** Canteen Management System
    - **D.** Case/Conviction Management System
        - **a.** Case Registration
        - **b.** Court Hearing Control System
        - **c.** Custody Management system

- **d.** Conviction management system
- **e.** Leave (Parole/Furlough) Management System
- **f.** Remission & Punishment Management System
- **g.** Release Management System
- **h.** Release Alert System

E. Prison Inmate Calling System
F. Deori Management/Gate Management
G. Catalogue Management System for Physical Records
H. Hospital Management
I. Visitor & Interview Management System
J. Chakkar (Sub admin block) Management System
K. Document Management
L. Audit log management
M. Store/ Inventory Management System
N. Work & Wages Management System
O. Factory Management System
P. Guard Patrolling System
Q. Visual Prison e-Map For better surveillance
R. Duty/Roaster Management System
S. Integration with CCTNS
T. Education Management System
U. Reformation and Activity manager
V. Reports
W. Hybrid Solution
X. Integration with ePrisons
Y. Data transfer during transfer of prisoners
Z. Monitoring Module
AA. Digital Signature for authentication
BB. Need based dynamic query generation

2. Optical Fibre Network Infrastructure
3. Electrical work and Surge Protection
4. Video Surveillance
5. Boom Barrier System
6. Full Height Turnstile with HF RFID Controller
7. Canteen Kiosk and POS

8. Panic Button and SOS Alerts
9. Emergency IP Phone
10. RFID/Biometric High Frequency Device
11. IP Speakers
12. Prison Inmate Calling System
13. IP-TV Broadcasting Device
14. Inmate Information Kiosk
15. Baggage Scanner

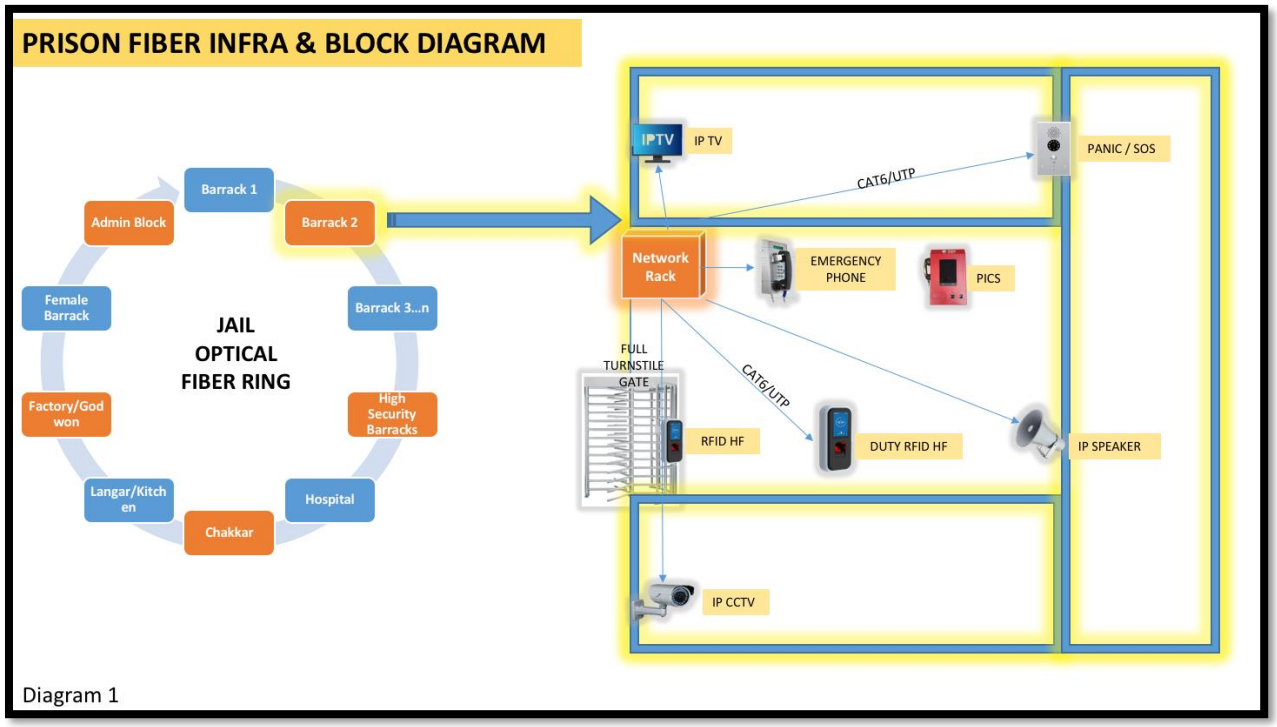


Diagram 1

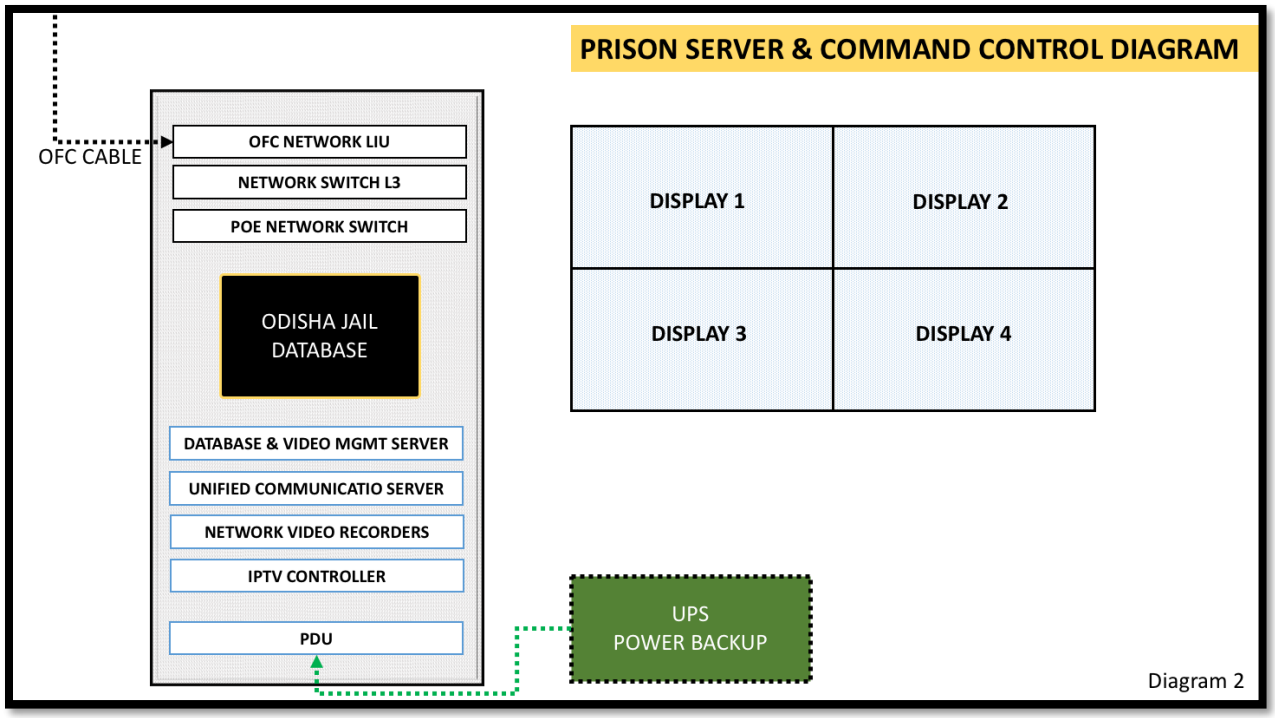


Diagram 2

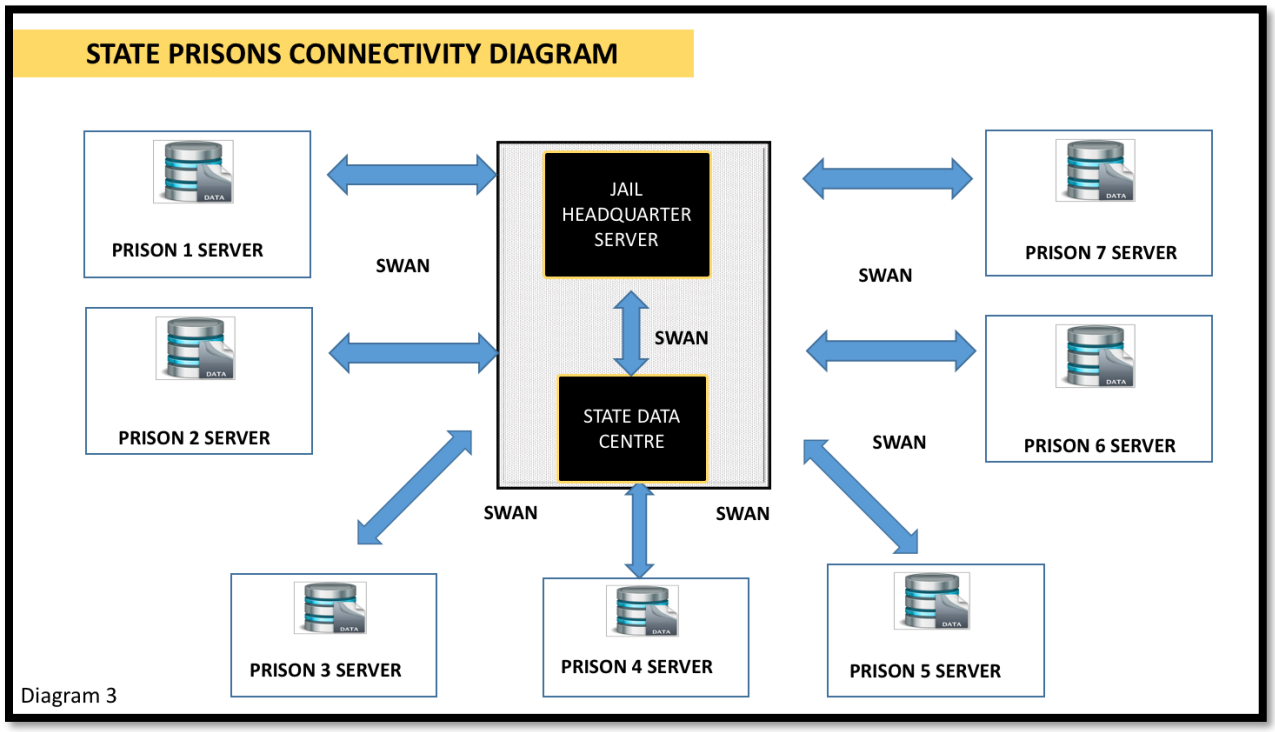


Diagram 3

SMART PRISON E-MAP (INDICATIVE) DIAGRAM

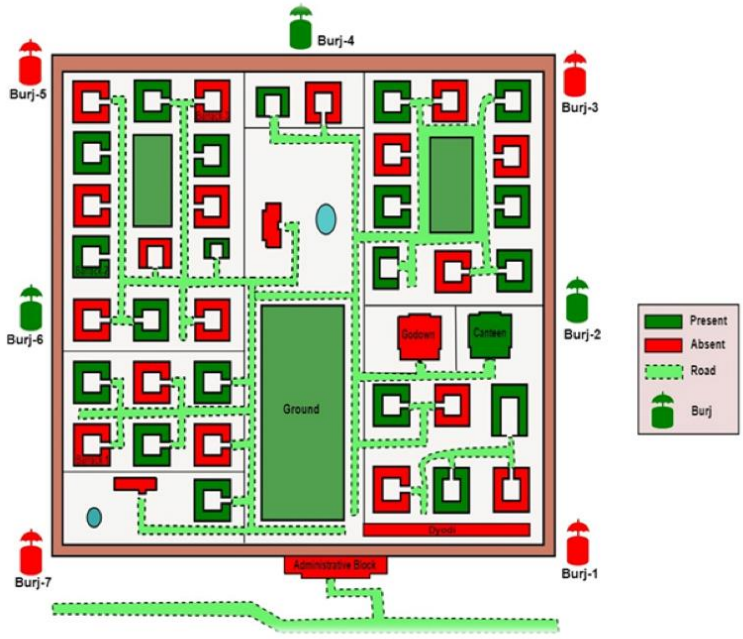


Diagram 4

These above mentioned components are now being explained in details as follows:

1. **PRISON MIS:** MIS should be user friendly with all the features that described in scope of work and it must allow integration with all the devices installed inside prison. Features of MIS is as follows:
   - **A. Prisoner profiling:** It must be in a workflow base should capture the detail of newly admitted inmate in following workflow, also display the visual status of level of completion of each profile:
     - ✓ **STEP 1:**
       Personal Profiling: All demographic details (As per Odisha Jail Manual) should be captured in personal profile (May add/remove as per department's requirement) along with mugs hot photograph (1 photo from front, 1 from left side of face and 1 from right side of face) of inmate.
     - ✓ **STEP 2:**
       Capture Bio-metric Detail: In this section software would provide the feature to capture and record the minutiae of inmate's fingerprint.
     - ✓ **STEP 3:**
       Capture Contact Numbers for PICS: This step enables the user to capture and record the contact numbers (with other required details for CDR and verification of number or any other details required by the

department) provided by the inmate for calling through PICS terminal.

- ✓ **STEP 4:**
  Capture Visitor Details for Interview: In this step system would provide the feature to capture the visitor/interviewer (with other required by the department) provided by the inmate for his interview.
- ✓ **STEP 5:**
  Capture Case Detail and scan all required legal documents: This step will enable user to capture all FIR and related information as well as personal profile through CCTNS (in case department provides necessary approval for integration) as per jail manual and requirement of department on single click of button.
- ✓ **STEP 6:**
  Performing Medical Examination as per NHRC guidelines: : In this step system will facilitate the user to record all the required health related information as per NHRC and department need.
- ✓ **STEP 7:**
  Block/Barrack Allotment: This step will enable the user to manage confinement of newly admitted inmate as per department's direction(manual/automated) as well as enforcement of the confinement too with following details:
  i. Overcrowded/under-capacitated barracks/blocks
  ii. List the FIR's/Sections of the inmate for better confinement along-with historical lodging
  iii. List the jail offenses of selected prisoner's
  iv. List of co-accused with block-barracks lodged in same or different blocks/barracks
  v. Prompt/Alert in case of co-accused is lodged in the same block-barracks where prisoner is going to be lodged.
- ✓ **STEP 8:**
  DSP Examination: This step will facilitate the DSP(Jail) to performance examination/interview of newly admitted inmate electronically in automated way; also provide enforcement as well as per jail manual and the directions of the department.
- ✓ **STEP 9:**
  SP Examination: This step will facilitate the SP(Jail) to performance examination/interview of newly admitted inmate electronically in automated way; also provide enforcement as well as per jail manual and the directions of the department.

B. Meta Search Engine- The system should have provisions of searching data through all possible permutation & combination dynamically.

C. Canteen Management System: Cashless Canteen System is an integrated software & hardware terminal; by using this facility inmate would be facilitated

with a close wallet system which would be operated by their thumb/finger impression or encrypted RF Card (in case where biometric identification is not possible). Prisoner have their monthly limit of amount (monthly limit will be as per prison state manual) they can use to purchase daily use item. So this amount will be deposited online into their prison wallet by their family members. So for this bidder can charge transaction charge on every transaction as per deposited amount.The system would have the followings feature:

- ✓ **POS based selling system:** Canteen management system should come with point of sale devices as well to facilitate door step shopping experience for special category barracks/ wards for e.g. Prisoners lodged in High Security Zones, lady wards etc with real time synch with canteen management system's database. The shopping process should be following:
    - i. **STEP 1:** Prisoner affix his thumb/finger impression on POS Kiosk and system will identify the prisoner after that his shopping cart would be opened (shopping cart page would contains Prisoner No, Name, Father/Spouse Name, Account Balance, Reserved Balance, Hold Balance, Photograph etc). System would also check about barring of account if any.
    - ii. **STEP 2:** Prisoner would select the item and Sales person of that counter would add those items into the prisoner's shopping cart through barcode scanner. Price of every item should be automatically as per defined by Jail Administration and amount would be automatically calculated. System would not allow sales person to add the item values more than prisoner's account balance.
    - iii. **STEP 3:** Further after adding all items into the shopping cart prisoner would again his thumb/finger impression on POS KIOSK for confirmation of purchase and after that bill amount of that shopping would be deducted from prisoners account automatically, canteen stock would also be updated accordingly.
    - iv. **STEP 4:** Simultaneously bill of that particular shopping would be automatically printed and popped out from POS KIOSK which contains the Prisoner Details, Bill Date, Bill No, Balance of Prisoner Before Shopping, Item Lists with Qty, Price Per Item, Amount, Total Bill Amount, Balance of Prisoner after shopping etc.
- ✓ There would be a provision of recharging of prisoner's canteen account. The account could be recharged by following methods:
    - i. Online Payment Module:
        - ➢ Prisoner profiling

- Visitor Registration
- Wallet Recharge (as per applicable limit directed by prison head-quarter)

ii. Card Swipe(Optional): Through POS Terminal (Auto Credit On Card Swipe) as per applicable limit directed by prison head-quarter
iii. Cheque Payment(Optional)
iv. Demand Draft(Optional)
v. Mobile App
vi. Cash(Optional)

✓ After successful recharge, the wallet of inmate would be credited by the recharged amount and he/she can spend that amount (available balance in wallet) for their canteen purchases. All transactions related to inmate (i.e. Purchase & Withdrawal) would be done by their thumb/finger impression or encrypted RF Card (in case where biometric identification is not possible):

i. Opening Stock
ii. Bill Posting (Canteen Purchases)
iii. Vendor Payment
iv. Stock Transfer
v. Sale Terminal (For Inmate Purchase)
vi. Withdraw from Wallet
vii. Stock Management
viii. Stock Report
ix. Purchase Report (Vendor-wise, Item-wise, Date-wise, Bill-wise etc.)
x. Gate Pass
xi. Sale Report (Date-wise, Inmate-wise, Item-wise, Bill-wise etc.)
xii. Profit Report (Monthly, Annually, Date-wise, Item-wise etc.)
xiii. Bank reconciliation report
xiv. Expire Stock Report: The software should be able to generate a list of canteen articles which are about to expire within the next 15 days or a month.
xv. Damage Stock entries: The software should have provision to record damage stock entries at the time of arrival of fresh stock as well as during the sale process in the canteen only with written approval (it's should be auto generated from system itself with gate-pass) obtained from the Jail Superintendent in this regard. There should be a provision in the software to upload this sanction against the proposed damaged stock.
xvi. Inmate Transaction Report
xvii. Cash-Book

xviii. Bank-Book
xix. Ledgers (Inmate, Vendors & Others)
xx. Groups(Ledger)
xxi. Voucher Posting
xxii. Trial Balance
xxiii. Balance Sheet
xxiv. P&L Report
xxv. Provision to seed cheque details: At the time of release of a prisoner, his balance amount is given in the form of a cheque/online transfer. The software should allow the user to seed correct cheque details against the name of the particular prisoner which should be in pending queue until it's not cleared from bank and marked cleared in the software as well. There should be a provision for rejecting the cheque which enable the user to reject (with remarks and date) those cheques which are bounced/rejected by the bank. Software shall maintain all the impact related to status change of cheque.
xxvi. Bulk purchase report: A report to capture names of such prisoners who are used to purchase grocery articles in bulk i.e. of the amount Rs. 600 or more should be available.
xxvii. Limit reached report: Names of such prisoners who have already reached their purchase limit at jail canteen should be made available.
xxviii. No Call Report: Names of such prisoners who do not make calls for the past 15 days or more must be available in the software.
xxix. No purchase report: Names of such prisoners who have not purchased grocery articles from the canteen for the past 10 days or more should be available.
xxx. Deposit/Recharge Report (Date-wise, Monthly, Annually, Inmate-wise, Cashier-wise, Mode-wise etc.)
xxxi. Withdrawal Report (Date-wise, Monthly, Annually, Inmate-wise, Cashier-wise, Mode-wise etc.)
xxxii. Inmate Outstanding Report
xxxiii. Define limit of deposits (e.g. daily/weekly/monthly etc.) as well as prisoner category wise (e.g. male/female/under-trials/convicts/civil etc.)
xxxiv. Define limit of inmate expense (e.g. daily/weekly/monthly etc.) as well as prisoner category wise (e.g. male/female/under-trials/convicts/civil etc.)
xxxv. When relatives of a prisoner makes online transactions, a confirmation message should be sent to the relative either through sms or email conforming whether the transaction

amount has been successfully deposited in the canteen account of a particular prisoner or not.

xxxvi. Settlement report of online transactions along with transaction list

xxxvii. Reconciliation Report of online transactions with bank statement & prisoner's deposit list at jail.

xxxviii. Inward & Outward Cheque/draft cheque processing along with reconciliation report.

xxxix. Call centre for customer/Inmate's relative support for online payment.

xl. OTP based authentication of customer/Inmate's relative/user

xli. Chargeback reconciliation/Dispute resolution support for online transaction.

xlii. Automatic status update (e.g. Pending Transaction, Failed Transaction, Successful Transaction, Processed Transaction) of every online transactions done through visitor's/relative of inmate as well as online dispute resolution mechanism with support helpdesk.

xliii. Online payment receipt generation for every online transaction.

D. Case/Conviction Management system: In this module all the operation/activities related to Case & Conviction should be managed as following:

- ✓ **Case Registration:** In this section all the case (e.g. FIR, Court Complaint etc) related to the prisoner is being recorded with all required details.
- ✓ **Court hearing control:** In this section the details are recorded for all inmates related to court hearing for particular date and auto generation of Escort demand request (Peshi Request) in advance (in prescribed format (as per directions of department) with followings:
  - i. This list must contain prisoner's name, FIR Details along-with section, gender & court.
  - ii. VC hearing and Physical Court Hearing should be generated separately.
  - iii. Report should be generated either court-wise, district-wise combined as well as separately.
  - iv. There should be a Peshi Parcha for inside jail to inform the prisoner's in advance which should contains the prisoner's lodging details.
- ✓ **Custody Management system:** Fully automated custody certificate preparation and management system with eCustody feature for courts. eCustody is an electronic digitally certified document prepared and delivered by the prison department to the Honourable Supreme Court and the Honourable High Courts. Followings sections are the

components of E-Custody certificate:

i. Certificate headers:
ii. Declaration
iii. Accused and case details with following subsections for which e-Custody certificate being asked:
    - Prisoner Type, Name & Father Name/Spouse
    - Address of the accused
    - FIR Details (e.g. FIR No, FIR Date, U/s, Police Stations, District etc.)
    - Current Status with of the case with preceding court detail/Conviction details (conviction sections, tenure, fine date of decision etc.) with sentence awarding court details in case of convicted case
    - Custody details in case with following subsections for which e-Custody certificate being asked:
    - Under-trial Period
    - Custody after conviction
    - Interim bail details
    - Parole Details
    - Absconding/Overstay details
    - Actual custody after conviction [Custody after conviction-(Parole + overstay/absconding period)]
    - Actual undergone period including custody as under-trial (Under-trial period + Actual custody period after conviction)
    - Earned remission
    - Total sentence including remission (Actual undergone period + earned remission)
iv. Details of pending under-trial cases other than the above case in which custody certificate is being asked, which should have following sub-sections:
    - FIR Details (e.g. FIR No, FIR Date, U/s, Police Stations, District etc.)
        i. Trial court detail
    - Bail Status
        i. Custody status in this case (whether accused is under custody in this case or not)
v. Details of conviction in other cases except in which custody certificate is being asked, which should have following sub-sections:
    - FIR Details
    - Current Status with of the case with preceding court

detail/Conviction details (conviction sections, tenure, fine date of decision etc.) with sentence awarding court details in case of convicted case
- Under-trial Period
- Custody after conviction
- Interim bail details
- Parole Details
- Absconding/Overstay details
- Actual custody after conviction [Custody after conviction-(Parole + overstay/absconding period)]
- Actual undergone period including custody as under-trial (Under-trial period + Actual custody period after conviction)
- Earned remission

vi. Acquitted case details, it have following sub-sections-
- FIR Details
- Acquitted by honourable court name with order and other details
- Custody period served as an under-trial

vii. Detail of pending case/ investigation.

viii. Detail of furlough availed by the convict.

ix. Details of punishment awarded to the prisoner

x. Any other details as per future requirement of the department or court

xi. System will automatically calculate custody, remission, leaves etc correctly as per established law and draft the custody certificate automatically as well.

xii. **Workflow of eCustody System**:
- **First Step-**Generation of Request for custody certificate from AG Office and same would be automatically forwarded to the concerned jail as well.
- **Second Step-** Preparation of system generated custody certificate. There are various sub steps in preparation of custody certificate:
  i. View system generated custody certificate
  ii. Make necessary corrections in the certificate (e.g. Manual corrections are added if required, incorrect date entered, all sections have not been entered.
  iii. Mark the document prepared
- **Third Step-** Check system generated custody certificate, Custody certificate check is done by the In-charge of

the convict or under trial section who is at the level of Asst Superintendent of Prison along with e-sign of the concerned officer.

- **Fourth Step-** Submission is done by the Superintendent/Deputy Superintendent of prison by digitally signing it.
- **Fifth Step-** Re-verify the digitally signed custody by AG Office and then submit it to the honourable court. There are various sub steps in submission of custody certificate (If required).

xiii. View the list of verified custody certificates.
xiv. View the verified custody certificates
xv. Submit the document (which transfer the document to the Honourable Court)
xvi. Auto generation (Drafting) transfer/adjournment letter etc.

- ✓ **Conviction management system:** This module will facilitate the user for posting and enforcement of conviction warrant which include, conviction details, fine payments and probable date of release of the prisoner etc.
- ✓ **Leave (Parole/Furlough) Management System:** System must have the workflow of electronic Parole processing as per Odisha Jail Manual and directions of department with all required prompts and alerts (e.g. Parole can't be processed due to any restriction or not eligible etc.). System should capable to generate all reports required in Parole/Furlough processing automatically in prescribed format. Also it has provisions to attach external documents if any. It must have provisions of noting/drafting with digital & eSignature and dual verification process (Biometric & PIN). It should also have status report of each and every application. Every official involve in Parole processing must have his Parole pendency on his dashboard with required prompts and alerts. Further software provides such solution so that prisoner could apply Parole/Furlough through KIOSK as self service. Also whenever a prisoner is released on Parole/Furlough leave, the software should make the account of prisoner temporarily inactive and suspend the labour allotted to him/her along with wages. On his re-admission to Jail, the same account with all previous record should be retrieved.
- ✓ **Remission & Punishment Management System:** Enable the user to manage remission automatically and punishment management system to enforce of awarded punishment in synch with jail manual.
- ✓ **Release management system:** Workflow of prisoner's release process (i.e. Acquittal, Expiry of Sentence, Bail etc) must have implemented by the system as following:

- ✓ **Release Alert System:** Send Email/SMS alerts to concerned Police Station & District Police Headquarter (As per configuration) on release (Permanent Release/Bail/Interim Bail/Court Hearing/Outside Hospital/Parole/Furlough etc.) of inmate/prisoner

E. Prison Inmate Calling System (PICS): is an integrated software & hardware terminal; by using this facility inmate can call their relatives/friends (Numbers approved by prison administration) using their thumb impression. This system is equipped with following features:

- ✓ Provide the mechanism/provision to FP to register, control and restrict the contact numbers to be called by prisoner. The prisoner shall be allowed to call on registered contact numbers only.
- ✓ Request for number approval generated through new admission process or in later stage through an application from inmate.
- ✓ Approval/Rejection of any registration request
- ✓ Provide the mechanism/provision to jail authority to control and restrict the limit of contact numbers to be allowed for call by prisoner. The prisoner shall be allowed to register up to the limit of allowed contact numbers only.
- ✓ Provide the mechanism/provision to Jail authorities to control and restrict the time limits of call (call duration limit would be in minutes daily/weekly or monthly) by prisoner as well as prisoner category wise (e.g. male/female/under-trials/convicts/civil/detenue/condemned etc.)
- ✓ Provide the mechanism/provision to Jail authority to control and restrict the time limits of free calls or control and restrict the credit limit of prisoners for call.
- ✓ In case prisoner needs to make a call, he/she has to approach the PICS terminal installed inside the jail complex and he/she will identify himself/herself bio-metrically (by his/her fingerprint) or by punching unique number (in certain specific case pre-permitted by jail authority, where bio-metric identification is not feasible) or by punching the high security encrypted mifare RF Card. In case he/she got identified; the PICS terminal will display his/her name, father/spouse name, prisoner number and photograph along with the available call balance, available minutes to call and the list of approved registered name(number should not be displayed over terminal) to call. The prisoner will have to touch the any one of the name to proceed with a call. The PICS terminal will have the provision to disconnect the running call by prisoner from the terminal as well. The PICS terminal will have the mechanism/provision to display his/her last 10(or any other prescribed limit) dialed calls with date & time and call duration. On successful completion of every call the system will automatically generate the invoice for that call

- ✓ Provide the mechanism/provision to monitor the live call duration of prisoner and will automatically disconnect the call after expiry of time limit.
- ✓ Bio-metrically Identification of inmate on calling terminal, where they will get the following facilities:
  - i. Where they can know about their registered numbers
  - ii. Balance amount
  - iii. Balance Minutes
  - iv. Allowed Contact Numbers
- ✓ Provide mechanism to control/restrict number of minutes allowed for call prisoner type wise (e.g. UT Male, UT Female, CT Male, CT Female, Civil Male, Civil Female etc) and frequency may be daily, weekly, monthly or quarterly
- ✓ Can call to registered number only
- ✓ Automatically balance deduction and invoicing as per call duration and charges
- ✓ Historical call log
- ✓ Provide the mechanism/provision to jail authorities to view/download the call detail record (CDR) of the calls made through the PICS terminal.
- ✓ Call Recording facility with listening and downloading feature
- ✓ Call Recording feature: The software should have mechanism to record calls made by prisoners in the last one month as per format prescribed by the department
- ✓ There has to be mechanism in the software to give a particular colour to the hardcore prisoners in order to identify their call records with ease.
- ✓ Various call reports status-wise (e.g. dialled/ completed/ rejected/ disconnected etc.)
- ✓ Terminal-wise call report
- ✓ Managed Call History
- ✓ Call block/Alert on specific call to prison administration
- ✓ Maintain the system, provide the support, and provide the feasible (on mutual understanding) upgrade of the system as per department's requirement.
- ✓ Any other reports as per department's requirement
- ✓ Average daily calling time: The average daily calling time for prisoners which needs to be maintained by the jail administration for PICS machine should be 6 hours calling time and 8 hours running time with an exception of PICS machines installed at special/strategic regions of jail like High security zones, women wards and quarantine ward etc.

F. Deori Management/ Gate Control (on finger print identification) with automatic gate: Gate management system of should keep control and track of

every in and out to and from each and every door of the Prison (Blocks/Barracks) as well as Dyodi/Main Gate. To ensure security, tracking of movement and In-Out history. It also equipped with bio-metrically controlled turnstile gate with centralised movement control for the allowed purpose only(or as per directions of department) along-with following reports:

- ✓ Prisoner-wise movement report
- ✓ Date-time wise movement report
- ✓ Block/Barrack-wise movement report
- ✓ Any other report as per requirement of department

G. **Catalogue Management System for Physical Records:** System will provide the provisions to user to manage and maintain/locate the physical records along with shelf management about which register/record is arranged in which shelf/rack. It would assist the user about number of available registers/records in the record room, the number of registers/records are issued or returning etc. This system would helps the user to maintain a database that is useful to enter new record & maintain the record of registers/records issued to the officials, with the respective submission dates. Moreover, it also reduces the manual record burden of the record keeper. Catalogue management system allows the record keeper to maintain record room resources in a more operative manner that will help to save their time. It is also convenient for the record keeper to manage the process of registers/records issuance and receipt through QR code and fingerprint (for identification of issuer and receiver/returning official). Catalogue management system should also provide assistant to the officials as well as a record keeper to keep the constant track of the availability of all registers/records in the record room.

H. **Hospital Management:** Software should be equipped with fully functional Hospital Management System which includes, OPD registration, treatment details, dispensary management system, diagnosis management system, medical record management system etc with inbuilt workflow system as following:

- ✓ **STEP 1:**
  OPD Booking & OPD Slip Generation: OPD booking of patient prisoner can be done through biometrically by the inmate/prisoner itself. There should be a provision of printing OPD slip to patient prisoner. After generation of OPD slip the prisoner would be shown in Pending OPD Queue.
- ✓ **STEP 2:**
  Movement Control From Block/Barrack to Hospital: After generation of OPD slip the system will allow inmate/prisoner to move from barrack/block/ward (allow to pass-through turnstile gate if any and status of the prisoner would be reflected as OUT OF BARRACK for OPD and count of the mentioned Barrack/Block/Ward would be

automatically updated) as well as maintain the counting (with list) of No of OPD Generated, No Of Prisoner Treated, Pending OPD etc.

- ✓ **STEP 3:**
  Treatment/Prescription Module: This module is for Medical Officers where they can manage OPD. Also all pending OPD patient would be available for medical officer to record prescription, record medical complaint/disease diagnosed, prescribe diet, able to refer to higher/specialized institute attach/view diagnosis report if any, view historical medical record or EMR etc by identifying the inmate biometrically.
- ✓ **STEP 4:**
  Medicine Dispensary Module: This module is for Pharmacist, after prescription/OPD completion of patient inmate he/she will be given medicine as per the prescription after bio-metric identification, dispense of medicine would be done through biometric as well and same would be recoded & available as EMR (Electronic Medical Record).
- ✓ **STEP 5:**
  Medicine Demand: This step will come after medicine dispenses and the purpose of this step is to generating medicine demand request for the medicines which is prescribed by the medical office and which are not available in stock. The demand request format would as per the directions of department and it would be as generated OPD-wise and verified by Medical Office and Pharmacist as well.
- ✓ **STEP 6:**
  Medicine Purchase: The purchase module enables the designated user to make entry of bills which are procured and to issue gate pass on the arrival of medicines as per bill entered. In this module all reports related to medicines e.g. Medicine Purchase Report - Medicine wise, Medicine Purchase Report – Supplier wise, Supplier ledger etc should be made available.
- ✓ **STEP 7:**
  Medicine Gate Pass: Medicine Gate pass should be generated for all those medicines for which bills have been entered. After entry through the gate pass the medicines should be shown in stock.
- ✓ Other reports related to Hospital Management System e.g. OPD Register, Pending OPD List, Medicine Ledger, Medicine Dispense Register, Daily Demand Register, Medicine Expiry Report(date-wise & month-wise), Implementation Process of Disposal of expired medicine, list of prisoners who are chronic patient, terminally ill patient, frequent hospital visitor, occasionally hospital visitor, prisoner's with skin disease etc.

I. **Visitor & Interview Management System:** A module to automatic process and complete the mulakat/prisoner interview process should be available in the software along with all the required report as per Odisha Jail Manual & requirement of department with following workflow:
   - ✓ Visitor registers themselves (online/offline/through KIOSK etc) for interview(system check here itself that visitor is allowed by prisoner for interview or not, in-case allowed system proceeds otherwise system does not allow the registration)
   - ✓ After successful registration interview requests automatically reflected in the control rooms established inside the prison
   - ✓ Security staff/operator at control room will get the alert of interview request and he announce the prisoner for interview
   - ✓ Prisoner will affix his/her thumb impression on biometric device or punch the card allotted to him, establish on the gate of barrack/block with timestamp.
   - ✓ System check that prisoner is allowed for the interview and interview request for him is available or not (at that point of time)or not.
   - ✓ If allowed turnstile gate will open and prisoner will be out from block/barrack immediately flashed the status in waiting room of interviewer and in control room as well.
   - ✓ Prisoner moves out and goes to prisoner waiting room for interview and affix his/her thumb impression on biometric device or punches the card (high frequency and encrypted) allotted to him. By doing so the gate of waiting room gets opened for the prisoner and simultaneously an alert is prompt immediately in waiting room of interviewer and in control room to inform that so and so prisoner is waiting inside the interview room for interview.
   - ✓ On their turn prisoner and visitor would enter in the interview room by affixing prisoner's thumb impression on biometric device or punch the card (high frequency encrypted card) allotted to him and their interview get started (time would also start for calculating interview duration) and same is recorded in the system with the duration of interview(if required)

J. **Chakkar (Sub admin block) Management system:** This module will be available with a separate dashboard with following features:
   - ✓ Block/Barrack/Ward allocation to inmate/s
   - ✓ Movement control for Mulakat/Interview, Jail Hospital, Court Hearing, Release etc.
   - ✓ Distribution of cleaning/consumables etc.
   - ✓ Barrack/Block wise list of prisoners out of block/barrack for canteen, hospital, skill development/probation courses, Offices, Broom panja, Interview or any other work.

- ✓ Barrack/Block wise list of convicts out of block/barrack for attending their allotted labour.
- ✓ Barrack/Block wise list of prisoners for playing different game/sport.
- ✓ Any other as per requirement of department

K. Document Management- This module is required to store and manage all the documents category-wise and enable the user for fast search and time saving dynamic view of legal and medical documents.

L. Audit log management: This Module shall be responsible for managing audit/trails/logs (i.e. user name, date & time, duration, IP address, MAC address etc) of all the activity occurred on system.

M. Store Management: Fully controlled and integrated store management system which would featured with followings:

- ✓ Entry of Opening Stock with Report
- ✓ Generating Demand Request for Store
- ✓ Issuance of stock for no-dietary articles
- ✓ Issuance of dietary articles as per jail manual
- ✓ Stock reports
- ✓ Managing arms
- ✓ Issuance of arms & ammunition and returning of it
- ✓ Arms & ammunition report
- ✓ Implementation of all other reports & registers for armory and store as per jail manual

N. Work & Wages Management: Work allotment and wages management for inmates would implement the following features:

- ✓ Management of work for inmate inside prison
- ✓ Allotment of work to prisoner
- ✓ Suspension of allotted work to prisoner for given period with maintaining the impact in all report attendance sheet, task sheet & wages etc
- ✓ Cancellation of allotted work to prisoner with maintaining the impact in all report attendance sheet, task sheet & wages etc
- ✓ Modification in allotted work to prisoner with maintaining the impact in all report attendance sheet, task sheet & wages etc
- ✓ Bio-metric based attendance on work place
- ✓ Generation of Task sheet
- ✓ Generation of attendance sheet (date-wise, prisoner-wise, task-wise etc) in various format as per directions of department
- ✓ Generation of wages report (date-wise, prisoner-wise, task-wise etc) as per attendance sheet and rate of wages applicable for the inmate in various format as per directions of department
- ✓ Disbursement Report of wages (date-wise, prisoner-wise, task-wise etc) in various format as per directions of department

- ✓ Pending wages list (date-wise, prisoner-wise, task-wise etc) in various format as per directions of department
- ✓ Implementation of all jail registers related to work allotment and wages as per Odisha Jail Manual

O. Factory Management System: System should be equipped with integrated factory management system with following features:

- ✓ **Plant Floor Control Modules:** Schedule and track production jobs (work orders) using process routings and optional job sets (coordinated production of related jobs). Use the Control Panel to perform an array of tasks, including activity reporting in real time, maintaining lot control, collecting inspection data, registering machine status over time, and validating tool and maintenance requirements. Additional functionality includes scrap and rejection tracking, supply (MRO) management and a plant floor console that displays overall plant floor operational status at a glance.

i. Control Panel

- ➢ Interact with the system via this unique, highly-configurable and easy-to-use touch-screen-optimized interface
- ➢ Directly capture setup, inspection, production, maintenance and tooling hours for labor and work centre tracking in real time
- ➢ Select production setups from the dispatch list view of the production schedule
- ➢ View bulletins and setup, operation, tooling and maintenance instructions
- ➢ Collect inspection and SPC data on schedules enforced according to production count, elapsed time, shift change or other conditions
- ➢ Select source inventory subject to configurable lot control rules
- ➢ Record production and automatically maintain lot control and traceability, deplete source inventory and increment tool life data
- ➢ Ensure correct tooling is present at the work centre
- ➢ Ensure compliance with work centre and tooling maintenance schedules

ii. Job Clock

- ➢ Collect and track labour hours against specific jobs (work orders) via an easy-to-use touch-screen optimized display

- Display job instructions and other information necessary for production

iii. OEE Reporting

- Overall equipment effectiveness (OEE) is a standard and widely recognized indicator of efficiency, quality, performance and availability of production work centres
- View OEE results calculated based on data automatically captured by production interfaces

iv. Plant Floor Console

- Build an on-screen map of your facility that visually depicts work centers and storage locations in real time
- Display current work centre status by colour; green indicates “in production,” yellow indicates “in setup” and red indicates unscheduled downtime
- Click on a work centre icon to pop up details regarding current status; navigate directly to the Control Panel
- Optionally use this interface to change work centre status and automatically create a work centre log record, track labour hours and move inventory

v. Production Tracking

- Track production using reports that provide extremely granular detail or high-level summarization as desired
- Highly integrated with inventory and lot tracking, tool tracking and scheduling

vi. Scrap Tracking

- Reduce costs and inefficiency by tracking and analyzing scrap reasons and root causes

vii. Rejection Tracking

- Track production using reports that provide extremely granular detail or high-level summarization as desired
- Highly integrated with inventory and lot tracking, tool tracking and scheduling

viii. Shift Setup

- Define as many distinct shifts as desired
- Specify shift start and end times, breaks and lunch periods
- Define shift cycles that determine which days each shift is active
- Set adjustments of production that occurs shortly before or after midnight but should be reported with the next or previous calendar date
- Apply different shifts based on work centre, employee

and product

- Apply overrides to reduce or increase shift times as dictated by production requirements, maintenance or other factors

ix. Shop Assignment Screen

- Display each employee's assignment for the day on a marquee information screen

x. Supplies(MRO)

- Create and maintain a list of standard maintenance, repair and operation (MRO) items such as supplies, tools, materials and services
- Easily requisition and re-order these frequently used items

xi. Supply Crib Management

- Manage maintenance, repair and operation (MRO) supplies using an electronic check in/check out system to capture usage transactions and cost
- Track barcodes of consumable and returnable items
- Automatically reorder supplies based on flexible inventory parameters

xii. Work Centre List

- The Work centre List is the master list of production work centers used by the company
- Work centers may refer to single machines, work cells made of several pieces of equipment or areas where work is performed by hand
- Highly integrated with production tracking, scheduling, capacity planning, preventative maintenance, equipment list and many other modules

xiii. Work centre Tracking

- Capture events that occur at a work centre, including production, setup, maintenance and downtime
- View reports of uptime, availability, overall equipment effectiveness (OEE) and other machine efficiency metrics

✓ **Plant and Equipment Maintenance Modules:** Manage plant equipment and spare parts while developing and executing your own maintenance schedules. High-level tracking of maintenance labour ensures your resources are used effectively.

i. Equipment Bill of Materials

- Create and maintain list of parts associated with specific pieces or types of equipment

ii. Equipment Log

- Maintain a detailed history of all maintenance performed on equipment

iii. **Maintenance Labour Tracking**

- Track maintenance labour in real time against work requests with the same time and attendance features used for production labour tracking

iv. **Master Equipment List**

- Create and maintain a master list of all equipment in the facility including both production and non-production equipment, such as work centre machines, lift trucks, automobiles and facility infrastructure
- Store key data about each piece of equipment, such as type, capacity, service date and a digital image

v. **Preventive Maintenance**

- Set up various user-defined preventive maintenance (PM) checklists and link them to individual pieces of equipment
- Receive system reports and email notifications to make sure that the required PM is completed
- Create and maintain a detailed maintenance log with file attachments, such as equipment manuals, drawings and certifications

vi. **Spare Parts Tracking**

- Track inventory and usage of equipment spare parts

vii. **Work Requests**

- Manage the entry, assignment, prioritization, coordination and tracking of requests for equipment maintenance and repair

✓ **Inventory Management Solutions:** Automatically maintain strict lot control. Perform cycle counts. Manage containerization including collection of containers into master units. Minimize material handling by using directed put-away while optimizing storage location usage.

i. **BOM (Bill of Material) Management**

- Easily create a BOM of product/components with hundreds of parts.
- Use a simple, single level BOM, where the products are directly made from raw materials.
- Use a multi-level BOM for sub-assemblies and Matrix BOM for products with parameters and configurations.
- Check the availability of materials on inventory and immediately calculate the availability dates of purchased items.

- Automatically estimate the costs of all materials on BOM.
- Since it's all managed in software, hence it will let you know the actual cost of the finished products – it's calculated by adding up the manufacturing operations costs, labour costs, and materials costs.

ii. Container Types

- Create and maintain a master list of inventory container types, including container type code, customer, customer part number, tare weight, cost, customer ownership and EDI codes

iii. Cycle Count

- Manage and conduct ongoing cycle counts to verify inventory accuracy
- Use mobile devices to scan bar-coded inventory tags
- Use parameters such as location, part or item number or inventory type as the basis for the scope of each cycle count

iv. Directed Put-away

- Define warehouse zones and link them to inventory locations
- Rank zone location preference
- Designate product zone assignments to which inventory storage will be directed
- Put-away are directed to preferred locations by algorithms that consider default values and proximity to existing product storage
- Reports include pending put-away and zone location utilization

v. Heat Traceability

- Track, identify and instantly trace the heat number (the unique serial number of a particular batch of metal) of metallic raw materials and any products made from them

vi. Inventory Tracking

- Track all inventory in real time using bar-coded labels
- Create inventory records identified by unique serial numbers for tracking and traceability
- Use the serial number/barcode to analyze current or historical values of that inventory unit's part or item number, lot number, quantity, location, status and other pertinent data

- Use a variety of history and traceability reports to determine any inventory unit's source material and components, processing history, quality inspections and details of shipment to the customer
- Search inventory records and summarize them to whatever level of detail required

vii. Inventory Location List

- Create and maintain a master list of all physical locations in the facility, such as receiving areas, work centers, storage locations and shipment staging areas
- Identify external locations where inventory may be stored, such as outside processors and warehouses

viii. Master Units

- Create master unit records to move or otherwise manipulate a large number of containers at one time without having to scan or update each individual package or item; for example, a master unit record might represent the pallet on which several dozen packages (containers) are loaded

ix. Packaging

- Transfer finished goods inventory from bulk containers into discrete packages optionally collected into "master units" (typically pallets)
- Apply bar-coded labels to packages and master units, with label data constructed automatically based on product, customer and destination

x. Returnable Container Tracking

- Track returnable and other types of containers and packaging

xi. Serialized Individuals Inventory

- Track individual serialized items rather than containers when a high degree of quality, inventory and cost tracking is required on individual items

xii. Supplier Consignment

- Manage payments for received items, materials and so on that are to be invoiced at time of consumption rather than time of receipt

P. Guard Patrolling System: Electronic guard patrolling and electronic duty and disc (patara) management system with visual prison e-map.

Q. Visual Prison e-Map for better surveillance: The software should have inbuilt feature of a user configurable prison map that can be designed according to the respective prison. The map should be rich with color labels and should

display green color if the allocated staffs are present, else shows a red color. Further, if staff has not been allocated on the location then the color label is gray. The map should updates every five minutes (time should be configurable) and displays statistics and dynamic reports to ensure security as following:

- ✓ There must be a eMap of prison in which red and green square blocks are barracks of prison where prisoners are confined and around the outer wall there are cylinder type symbol with umbrella (marked with 1, 2, 3, 4, 5, 6 and 7) is watch tower (Burj). Every barrack and watch tower are secured by guarding staff by duty assignment process. Every watch tower and barracks has the attendance point (Biometric/Card Based) where the guards mark their attendance (for barracks on every 30 minute). Also there are two roaming guard who moves around outer wall which let's say start from Administrative Block and passes through Watch Tower 1 then 2->3->4->5->6->7->Administrative Block. The guard need to mark their attendance on attendance device fixed on each watch tower one after another. For example first guard started moving from Administrative Block toward Tower 1->2->3->4->5->6->7 Administrative Block by marking their attendance on every watch tower (Initially the colour of all the watch tower would be red) and when he mark the attendance on the tower the colour of particular tower would be turned on green. Further when he (Guard 1) reaches On Tower 4 then the colour of Administrative Blocks and Towers (1, 2, 3) would be changed red again and the second guard would start from Administrative Block toward Tower 1->2->3->4->5->6-> Administrative Block by marking his attendance on every watch tower and when he mark the attendance on the tower the colour of that particular tower would be turned on green. Again when Guard 1 reached on Administrative Block by completing his circle the colour of Towers (5, 6, 7) and Administrative Block would turned Red it would be turned green when guard 2 reaches those tower and mark his attendance one by one. And process is keep repeating
- ✓ Further each barracks are secured by a guard and the barracks have the attendance point as well where the guard of that particular barrack mark his attendance. Initially all barrack would be in red colour and when the security guard of that particular block mark his attendance on that barrack then the colour of that barrack would be changed in green. Again after 30 minutes (or any other defined alert period) the colour of all barracks would be changed to red. And process is keep repeating.

R. Duty/Roaster Management: Inbuilt HRMS(Human Resource Management System) and payroll system with guard duty management which would enrich

with following features:

- ✓ Employee profiling by capturing their personal and employment details, photograph and fingerprint
- ✓ Duty Location(Point) Management to create and modify the duty point along with mapping with eMap
- ✓ Duty Type(e.g. Official, Dyodi Darban, Block/Barrack In-charge, Sentry, Patrol etc) Management
- ✓ Assignment of duty (e.g. Fixed assignment, Lottery Assignment etc)
- ✓ Management of duty roster
- ✓ Management of attendance etc

S. Integration with CCTNS: CCTNS integration for automatic retrieval of FIR and data sharing with Police as per requirement of department after provided necessary approvals.

T. Education Management System: Manage and record regular education/vocational courses and trainings of inmates.

U. Reformation and Activity manager: Manage record and reports the reformation and other activity of inmates.

V. Reports: Software shall provide following reports as well:

- ✓ History Ticket with on demand dynamic selection of required section (e.g. Personal Profile, Case detail, Conviction Detail, Remission Detail, Punishment Detail etc.)
- ✓ List of prisoners transferred to other jails in specific period
- ✓ List of prisoners transferred to a particular jail in specific period
- ✓ List of prisoners who awarded the conviction of Natural Life
- ✓ List of prisoners who are foreigner
- ✓ List of prisoners who are waiting for deportation
- ✓ List of lifers
- ✓ List of prisoners who are awarded a specific term of sentence
- ✓ Dead Prisoners report with date of expiry, reason of expiry
- ✓ Escaped prisoners report along with date of escape and mode of escape
- ✓ Prisoner leave report (e.g. Parole/Furlough/Interim bail etc))along-with their surrender date
- ✓ CRPR 436A Report
- ✓ Dead case(Where hearing date has been lapsed) report
- ✓ Court wise Prisoners list
- ✓ Under-Section(one or multiple) wise prisoners list
- ✓ Act wise prisoners list
- ✓ List of prisoners where Bail Granted while Bail Bond is not furnished
- ✓ Trial Type(Session/Non Session) wise report
- ✓ Any other report required by the department

W. Hybrid Solution: Should provide hybrid solution to prison where all the terminal/operational point inside prison could works independently with the

support of local server and local server is connected with online server, hence every activity and operation could be performed electronically inside the prison without internet which ensure reliable availability of system as well as increase data security and also avoid misuse of internet.

X. **Integration with ePrisons:** The software should be integrated with the ePrisons application through an API in order to automatically fetch basic details of prisoners from ePrisons and to save manual seeding of data in the proposed software.

Y. **Data transfer during transfer of prisoners**
   - ✓ During transfer of a prisoner from one Jail to another, complete record of the prisoner maintained in the software till that day should get transferred in the destination Jail so that no new ID is created for this particular prisoner in the destination Jail.
   - ✓ To facilitate accessing of past shopping history of this prisoner in the destination Jail.
   - ✓ To enable the destination jail to access the call history and allowed numbers where the prisoner is authorized to make calls.

Z. **Monitoring Module:** The software should also come with a monitoring module for officers including Superintendent Jails, DSP(M) to access important alerts like-no calling prisoners

AA. **Digital signature for authentication:** Digital signatures can be used for authorization purposes. For example, Welfare Officer forwards demand note to DSP(M) for approval for instance requisition of new grocery directly verified by welfare officer can be put forward to the DSP(M) for approval through this software.

BB. **Need based dynamic query generation:** A query generation form should also be made available in the software to access need based information.

2. **Optical Fiber Network Infrastructure**
   - ✓ Complete locations of jail must be connected with Fibre Network to connect all required equipment's on single platform.
   - ✓ Before starting of any digging for cable laying must submit the Fibre cable route plan with actual dimensions to OCAC and Jail Department.
   - ✓ OFC Cable, HDPE Pipe, Cat6 cable and all other allied items Test Certificates need to be submitted to OCAC.
   - ✓ There must be proper laying of OFC cable with Heavy duty HDPE conduit minimum 3mtrs below ground level and ensure no cable visibility on ground level at any point of time, otherwise cable get damaged by inmates intentionally.
   - ✓ There shall be proper OFC ring topology in jail and redundancy to OFC infra must be there.
   - ✓ All IT and ITES equipment's running inside the prisons are connected to HQ Jail, Court, CCTNS, Video Conference, Daily activities of MIS and many more,

so any delay in network data transfer or hang or no data condition will lead to may discrepancies to day today activities of Jail department and bidder shall resolve within time limit.

- ✓ OFC cables must be armoured, well dressed, well marked and with proper fitment, so that at any point of time service matter arises the concern engineer can trace the fault within time bound.
- ✓ Chambers for OFC cable termination not allowed and all the OFC cables comes out from ground directly barrack or any Jail building shall recess in wall completely.
- ✓ The utilities of jail premises shall analyse in depth with blue print. Damage to any sewage system, water supply, electrical works, HT & LT cables which are laid underground and inside the wall lead to heavy penalty from civil department.
- ✓ Bidder shall ensure that after chasing and digging of guard patrolling path, Jail Inside roads, boundary walls, roads, watch towers, all barracks, hospital building and all other buildings of jail must have repaired to actual condition after completion of cable laying job with all reqd. repair and maintenance to complete in all respect up to the entire satisfaction of Engineer-in-Charge.
- ✓ Bidder shall submit daily progress report to jail officials and OCAC officials to ensure completion of work on-time.
- ✓ Bidder shall make sure if any intentional damage or activity carried out by engineer with any tools and tackles inside the jail may lead to legal action from jail department or OCAC against engineer.
- ✓ Bidder Site engineer/ Supervisor faced any hindrance inside the jail premises while deployment of network infra shall immediately inform to Jail officials.
- ✓ Bidder shall supply and erection the complete infra within stipulated days as per work timeline/milestone of contract. However, the Jail Department and OCAC may extend the period for any reason beyond the control of the Bidder.
- ✓ Bidder shall share the identity and address proof documents of supervisor and site engineers.
- ✓ Bidder will ensure that none of its employees including expert, cleaner/helper etc. shall carry prohibited articles like fire arms, explosive, explosives substance, sharp edge weapons, drugs, narcotics substances, liquor etc. In case any items are caught the concerned person will be held sole responsible and will be prosecuted as per law.
- ✓ The Bidder shall be responsible for providing technical support from remotely or onsite where required for running the facility smoothly at its own expenditure.
- ✓ Jail department will ensure the security of network equipment installed inside the jail premises by Bidder. Any physical damage of network equipment inside the jail premises will be compensate by jail department as

per market rate.

- ✓ OCAC and Jail department will have the rights to ask for inspection/demonstration of the system at the discretion.

3. Electrical work and Surge Protection

- ✓ All cables should be of a type and size appropriate to the application and should take account of transmission rate, electrical interference and voltage drop.
- ✓ All electrical installation should be done with keeping in mind the adverse conditions like humidity, high/low ambient temperature, heat, dust, flame etc.
- ✓ All work shall have done with flexibility for future modification or extension
- ✓ All Equipment should be well connected to power socket or Pdu and in any worst situation power fluctuation occurs the MCB protection should always there to protect the expensive LV equipment from burnt conditions.
- ✓ Bidder shall take care that there would be no wastage of electricity at any point of time and should follow all energy conservation measures.
- ✓ Use of appropriate technology and Earthing parameters.
- ✓ Quality control based on appropriate design and use of quality materials and equipment's.
- ✓ Aesthetics and co-ordination with Architectural and Structural requirement.
- ✓ Taking into account future growth of load.
- ✓ Need to provide related space/conduits/channels/cables/wire for services like: Network switch cables, IPTV cabling, video surveillance cabling, SOS cabling, Emergency Phone cabling, Turnstile and RFID cabling, UPS cabling and Security system cabling etc.
- ✓ Bidder shall provide an efficient power distribution system to meet the various power requirements of equipment's like: POE Switch, Video Surveillance, SOS Panic Button, RFID HF Controllers, IP and Emergency Phones, IPTV and IP Speakers etc.
- ✓ Bidder shall install the surge arrester which protects the equipment from surges or transient voltages in electrical power systems, occurring from lightning or a switching surge. It should also operate the extra voltage into the earth wire, allows the normal voltage to continue its path.
- ✓ Wall-chaser/Wall-grooving-machine ONLY to be used for chiselling of Brick-walls/AAC-block-walls/RCC-Slabs & RCC Wall/ Stone-walls for concealed works in all electrical works. Hand cutting/chiselling is strictly not permitted anywhere in project.

4. Video Surveillance

- ✓ Site survey & feasibility is to be undertaken for identification of the actual places in Prison premises where cameras are required to be installed
- ✓ Supply of all the equipment's for implementation of CCTV Surveillance System

- ✓ Procurement, Supply, Installation, Commission & Maintenance of the entire equipment of CCTV Surveillance System installed at different Prisons across the state of Odisha.
- ✓ LAN cabling as per requirement of proposed cameras
- ✓ Supply any other items (like screws, clamps, fasteners, ties, anchors, supports, grounding strips, wires, termination kits etc.) required for installation of all the required items for smooth implementation of CCTV Surveillance System
- ✓ Installation and commissioning of the 43" Display System at Prisons for monitoring of the CCTV footage.
- ✓ The CCTV Surveillance System should be secured enough and ensure no un-authorized access to the CCTV controller
- ✓ Bidder should ensure provision of storage space for keeping the CCTV footage for a period of minimum 90 days in a Prison Premises.
- ✓ The System should be able to set system rules for deletion of archived recordings as per the policy provided by the OCAC/Department from time to time.
- ✓ Supply, Installation & Commissioning of 64 Channels NVRs for adequate storage capacity to store recording of at-least 30 days
- ✓ Video Surveillance system and its all allied items must be integrated with jail E-MAP software to have a better control over the operation.
- ✓ Video Surveillance system and its all allied items must be designed in such a way that there are no places to hide unwanted material/ tools.

5. Boom Barrier System

- ✓ The bidder is required to supply, install and commission the Boom Barrier as per the specifications and conditions specified in the different parts of this Tender document.
- ✓ Boom barrier should be open only for authorized vehicles.
- ✓ Boom barrier will also integrated with Jail MIS for better data reporting & control.
- ✓ All electrical installation should be done with keeping in mind the adverse conditions like humidity, high/low ambient temperature, heat, dust, flame etc.
- ✓ The successful bidder shall give comprehensive hands on Training to user department on operations & maintenance of Boom Barrier.
- ✓ Installation material used should be of the ISI quality.

6. Full Height Turnstile with HF RFID Controller

- ✓ Bidder will install Vandal proof Stainless steel turnstile gate in each blocks/Hospital/ Interview room equipped with biometric control system.
- ✓ Turnstile gate should be bi-directional with having biometric & High frequency based RF access control on both side.
- ✓ Turnstile gate access control system must be integrated with Jail Software,

such that jail officials can also control gate centrally as scheduled.

- ✓ Access control system should allow gate to open/close only during allowed time that will be set through Jail software.
- ✓ Prisoners can only lock/unlock gates of blocks which allocated to them.
- ✓ Turnstile gate access control system should show real time data of inmates on the access control display.
- ✓ Jail authorities can access record of every movement of in & out of inmates at any given point of time after successful integration with Jail software.

7. Canteen Kiosk and POS

- ✓ Bidder will install Canteen Kiosk/POS in canteen equipped with biometric, RF Card Reader & printer.
- ✓ Canteen Kiosk/POS should have touch screen based display on both side of Kiosk.
- ✓ Canteen Kiosk/POS must have to be integrated with jail software to have a better control over the operation.
- ✓ Canteen Kiosk/POS machine should have been designed in such a way that there are no places to hide unwanted material/ tools.

8. Panic Button and SOS Alerts

- ✓ Bidder will install Vandal proof Panic button in each barrack equipped with Audio/video facility.
- ✓ Panic button should be flush mount with no visible wiring or holes in wall.
- ✓ Prisoners can press button in case of any emergency and audio & video will be communicated to control room.
- ✓ Panic button will directly communicate with control room.
- ✓ In control room alarm will be triggered and video will be displayed on screen.
- ✓ Panic button should have been designed in such a way that there are no places to hide unwanted material/ tools.

9. Emergency IP Phone

- ✓ Bidder will install Emergency IP phone in each barrack/ block/ Hospital/ Canteen/ Library/ Factory/Watch tower etc.
- ✓ Emergency IP phone should have single button dial connection with control room.
- ✓ Emergency IP phone should have been designed in such a way that there are no places to hide unwanted material/ tools.

10. RFID/Biometric High Frequency Device

- ✓ Bidder will install RFID/Biometric High Frequency Device in each barrack/ block/ Hospital/ Canteen/ Library/ Factory/Watch tower etc.
- ✓ RFID/Biometric High Frequency Device must have both biometric & RF card based authentication system.
- ✓ RFID/Biometric High Frequency Device must have to be integrated with jail software to have a better control over the operation and provide sufficient data for mapping of prison E- map with duty guard attendance.

- ✓ RFID/Biometric High Frequency Device machine should have been designed in such a way that there are no places to hide unwanted material/ tools.
- ✓ RFID/Biometric High Frequency Device should generate warning sound/alarm when patrolling schedule not properly followed as set by the jail software.
- ✓ RFID/Biometric High Frequency Device should also display real time guard attendance/ patrolling data on the installed device.

11. IP Speakers

- ✓ Bidder will install digital PA Broadcasting system in each barrack/ block/ building/ watch tower/ Hospital/ Canteen/ Library/ Factory.
- ✓ PA broadcasting system should have scheduled automatic audio/ announcement/ song to be played.
- ✓ PA broadcasting system will control audio to be played in every install IP speaker simultaneously as well as individually in each one of them (one to one, one to group & one to all).
- ✓ PA broadcasting system will be integrated with IP phones for announcement.
- ✓ PA broadcasting system machine should have been designed in such a way that there are no place to hide unwanted material/ tools.

12. Prison Inmate Calling System

With Prison inmate calling system prisoner have the option if they want to call their Family/ relative they can use this system and they will be charge as per minute basis. Number of minutes allowed to per prisoner per day/ week/ month is as per Odisha state prison manual.

- ✓ Bidder will install Prison Inmate Calling System (PICS) at barrack/ block/ hospital/ Common point.
- ✓ Prison Inmate Calling System (PICS) must have both biometric & RF card based authentication system.
- ✓ Prison Inmate Calling System (PICS) shouldn't use SIM card in calling machines installing of such systems would be penalized with hefty fine, cancelation of work & also legal action.
- ✓ Prison Inmate Calling System (PICS) shouldn't have any kind of application which allows inmates to type desired numbers to initiate a call.
- ✓ Prison Inmate Calling System (PICS) must have to record each & every call and it should also keep call history & ledger history of inmates.
- ✓ Prison Inmate Calling System (PICS) must have to be integrated with jail software to have a better control over the operation.
- ✓ Prison Inmate Calling System (PICS) machine should have been designed in such a way that there are no places to hide unwanted material/ tools.
- ✓ Prison Inmate Calling System (PICS) should also keep in mind of other possible security features that may allow inmates to do illegal activities that are prohibited.

13. IP-TV Broadcasting Device

- ✓ Bidder shall install IP-TV Broadcasting Controller in Command control room inside Rack.
- ✓ Bidder will integrate IP-TV controller with field devices installed at barracks/blocks/hospital etc. on fibre network.
- ✓ All IP-TV must be controlled from Command control room and channels scheduled will design by prison officials only.
- ✓ Bidder must ensure that channels change control given to inmates at any point of time.
- ✓ IT-TV broadcasting system machine should have been designed in such a way that there are no places to hide unwanted material/ tools.

14. Inmate Information Kiosk

- ✓ Bidder will install Inmate Information Kiosk in each prison equipped with biometric, RF Card Reader & printer.
- ✓ Inmate Information Kiosk should have touch screen based display.
- ✓ Inmate Information Kiosk must have to be integrated with jail software to allow prisoners to use to get their data like case status/ hearing details/ leave status and other required information.
- ✓ Inmate Information Kiosk should not have any kind internet connectivity
- ✓ Inmate Information Kiosk machine should have been designed in such a way that there are no places to hide unwanted material/ tools.

15. Baggage Scanner

The Bidder shall provide all personnel, material and equipment required in the performance of this contract to include:

- ✓ Fixed X-Ray inspection systems, equipped with the latest technology including a color monitor which is switchable to Black and White, and the uninterruptible power source/supply.
- ✓ Machine should generate the images in such a way that the depth of any scanned object can be visualized appropriately to further analyse the details of the object inside a baggage for better identification of harmful objects like Gun/Knife etc.
- ✓ Machine should be properly sealed from all sides for pest proof. Dust proof cover is to be provided for covering when system is not in use.
- ✓ Control desk with security housing and locking provision should be available
- ✓ If the machine fails to penetrate a particular item then an alarm video and audio both should be generated to notify the operator
- ✓ The Bidder will be required to provide training and support to the users after installation of the system and issue competency certificates after training
- ✓ The Bidder should provide a maintenance plan.
- ✓ The Bidder shall coordinate for delivery, unload and installation with Department.

The Baggage scanner installation location must be decided with Prison senior

officials for better result and operations.

5.2 Manpower

The bidder is to propose the most optimum team for operation, maintenance and management of project to maintain the SLA. The bidder shall deploy skilled resources with relevant experience and expertise to manage project in an efficient manner and establish proper team structure to monitor and control the project. The Project Management Office consists of Project Management Team of senior resources and other support staffs as required for the project operation shall report to OCAC/Prison Department. The bidder shall engage adequate and competent manpower as per the following project requirement.

- ✓ To provide services to manage the technical as well as functional aspects of the project and to maintain the SLAs as per requirement
- ✓ Client Co-ordination
- ✓ Project Monitoring and Control
- ✓ Quality Assurance and Control
- ✓ Resolving Project related issues
- ✓ Review of Asset Reconciliation
- ✓ Hardware Maintenance
- ✓ Network Issues Monitoring
- ✓ Project Progress Review Meeting
- ✓ Administrative Issues Resolution
- ✓ Compliances submission to Government

Roles & Responsibilities of Manpower

- ✓ Responsible for overall Operations and management of the new Security & IT Infrastructure, hardware, peripherals of respective site including LAN/WAN, IP CCTV Surveillance system other devices installed and smooth operation of jail software etc.
- ✓ Managing day-to-day activity and project operations to meet SLA.
- ✓ Preparation of Report including day to day activity and submission of report to respective officer.
- ✓ Configuration of camera, Server plus Network attached storage or Server with inbuilt storage, network switch and all other devices deployed etc. Troubleshooting of entire system.
- ✓ Replacement of faulty equipment, demand and supply of required hardware from the spare hardware.

- ✓ Monitoring complaint status, follow up for complain resolution and responsible for resolve complain in time bound manner as decide in the SLA mentioned in this bid.
- ✓ Deputed manpower shall be responsible to log the complaint related to connectivity follow up for logged complain related to connectivity and ticket generation for respective event and responsible to inform authority for connectivity complain and its resolution time and maintain the register for connectivity complaint.
- ✓ Deputed manpower is responsible to follow the instruction received from respective officer related to configure the system as per requirement.
- ✓ During the holiday if respective officer is asked to present for to ensure the system up and running then deputed manpower shall be responsible to remain present on holiday.
- ✓ At the time of a disaster or any such events, the deputed manpower must be always present.
- ✓ If respective officer wishes extract video clip than, Deputed manpower is responsible to extract the video clip, burnt CD/DVD, copy video clip and image.

S. No.	Item Description	No.	Qualification	Min. Experience Years	Locations
1	Technical Engineer	7 (1 at each Prison) +1 standby	Diploma/ BE/ B.Tech	3+ Years of post-Qualification experience in Networking, IP CCTV surveillance, Computer Hardware, LAN/WAN & IT infrastructure projects	1 at each Prison

5.3 Training

Bidder shall provide system training to its stakeholders having comprehensive hands-on training related to system operation of the installed peripherals/equipment's to the designated/authorized representative of respective site after the successful commissioning of the project. Appropriate training material should be provided by the bidder during the training.

All the cost associated with such training must be borne by the bidder. Bidder has to submit detailed training plan along-with their proposal.

5.4 Roles & Responsibilities of OCAC

- ✓ Provide access to selected agency for execution of Project.
- ✓ Provide space, raw power and approval to smoothly execute Project.
- ✓ Provide approval & facilitate agency for deciding location of camera, Access controllers, Duty attendance device & other devices in consultation with selected agency.
- ✓ Provide the sitting space to technical manpower at respective location of department.
- ✓ Monitor the project by logging complaint in time limit and monitoring and tracking of complaint resolution in time limit.
- ✓ Maintaining & checking all register and monitor progress of the project.

5.5 Roles & Responsibilities of Department

- ✓ Department have to provide computers to run Jail MIS as required.
- ✓ Department have to provide proper air conditioned space inside each prison for server & control room.
- ✓ Provide access & support to selected agency staff for execution of Project.
- ✓ Provide space, raw power and approval to smoothly execute Project.
- ✓ Provide approval & facilitate agency for deciding location of camera, Access controllers, Duty attendance device & other devices in consultation with selected agency.
- ✓ Provide the sitting space to technical manpower at respective location in prisons.
- ✓ Provide SWAN connectivity in all prisons.
- ✓ Provide DG set & fuel if required as power cut schedule.
- ✓ Data entry & verification of record entered in Jail MIS.
- ✓ Routine operation of software inside each prison & headquarter.
- ✓ Appoint a nodal office for each jail & state level for coordination with tech team for smooth operation.
- ✓ Provide prison wise bank account for canteen deposit.

5.6 Operation & Maintenance

The bidder will be required to maintain the on-site warranty for all the hardware deployed under this project for a period of two years from the date of Go-live of project. During O &M phase, bidder shall ensure that service levels are monitored on continuous basis; service levels are met and are reported to OCAC/Department. After Go-Live, if any system/sub-

system/appliance that is deployed during the O&M phase must be added in the System only after proper induction procedures are followed.

Every process and procedure implemented in this project must be reviewed and updated by bidder at least on annual basis from the Go-Live Date. All the manpower engaged for O&M support of the project should be citizens of India. Bidder will ensure that, in any circumstances, no data of CCTV Surveillance System be ported outside the geographical limits of the country. Some broad details of O&M activities are mentioned below:

5.6.1 Facility Management Services & Helpdesk Support

Bidder has to provide Facility Management Services and a centralized helpdesk which will work as a single point of contact for complaint management & resolution for all the users of the system. The helpdesk shall be designed to meet the SLA response & resolution timelines.

The bidder shall provide Facility Management Services (FMS) for project including day-to-day operations of all IT/Non-IT Items/services & Control Room items/services for entire project period of two years.

The bidder shall setup helpdesk system at their office with at least one resource per shift to manage the SLAs.

5.6.2 Asset Management Services

The bidder shall be required to create and maintain a database of all IT and Non-IT assets installed at all locations under this project including prison headquarter and other field infrastructure connected with prisons as per following details:

- ✓ The database should have information like make, model, configuration details, serial numbers, licensing agreements, warranty and AMC details, place of installation etc.
- ✓ The bidder shall be required to create and maintain software inventory with information such as Licenses, Version Numbers and Registration Details along with their configuration details and history
- ✓ The bidder shall be required to register all software with respective OEMs
- ✓ The bidder shall be required to perform software license management. The software shall remain under technical support from respective OEMs for a complete period of two years

5.6.3 Preventive Maintenance Services

The bidder shall provide preventive maintenance services for all the equipment's (IT as well as non-IT) supplied at least once in every quarter. The preventive maintenance shall include:

- ✓ Cleaning and removal of dust and dirt from the interior and exterior of the equipment.
- ✓ Conduct inspection (check for loose contacts in the cable and connections etc.), testing, and execution of diagnostics and necessary repairing of equipment.
- ✓ Bidder shall intimate and take approval from respective prison before carrying out preventive maintenance activity.
- ✓ Bidder shall maintain a register of item wise preventive maintenance done.

5.6.4 Corrective Maintenance Services

The details of the work to be undertaken by bidder are as follows:

- ✓ Troubleshooting of problems related to the equipment/network/services and rectification of the same.
- ✓ Repairing of defective parts/components.
- ✓ Replacement of parts/components beyond repair with parts/components of same or better specifications ensuring compatibility without any additional cost.
- ✓ Providing suitable standby for parts/components with same or better specifications till the time the original part/component is repaired or replaced so that daily business is not affected.
- ✓ The maintenance support for equipment shall include all passive components including, screws, clamp, fasteners, ties anchors, supports, ground strips, wires, fiber connecting kits, gears, spares, power-cables, network cables, etc.
- ✓ Documentation of problems, isolation, cause and rectification procedures for building knowledge base for the known problems

5.6.5 Network Management Services

A LAN has to be established inside every prison for connecting Jail MIS ,CCTV systems, Command & Control Center, Access control devices, RFID devices and connecting various equipment's including servers, SAN, Network switches, workstations etc. Prisons will be connected with Prison Headquarter and State data centre (SDC) though SWAN network provided by OCAC/Department.

The scope of work under network management services would include:

- ✓ To ensure continuous operation and upkeep of the LAN Infrastructure at all locations including all active and passive components so that the network is available 24 x7 as per the prescribed SLA.
- ✓ Management and maintenance of internet bandwidth / links provided by ISP, if any
- ✓ The bidder shall coordinate with OCAC for SWAN Team for integration of SWAN network with the project infrastructure.
- ✓ Maintenance and management of LAN established at all locations under this project.

5.6.6 Server Management Services

- ✓ Bidder shall manage the servers on end-to-end basis including server administration, performance tuning, hardware and software support and upkeep of the server. The bidder shall also undertake installation/re-installation of all the servers in terms of operating system, databases, latest Software updates/upgrades, patches etc.
- ✓ Bidder shall provide device/peripherals management, user management, file system management, files management services for the servers.
- ✓ Bidder shall implement operating system security/hardening and application server software level security for the servers.

5.6.7 Database Management Services

- ✓ Bidder shall undertake tasks of managing changes to database schema, disk space, storage, user roles.
- ✓ Bidder shall periodically perform configuration checks and fine tune the databases with respect to performance and proactive identification of potential problems
- ✓ Bidder shall provide performance monitoring, maintenance and tuning of the databases on regular basis as well as proactive health check-ups.
- ✓ Bidder shall manage database upgrade, patch upgrade, updates as and when required with planned minimal downtime.
- ✓ Bidder shall provide database performance and health reports to OCAC/Department as per standards.
- ✓ Bidder shall assign rights on database for different users.
- ✓ Bidder shall upload / create users and tables in the data base.

5.6.8 Data Backup Management & Services

- ✓ Bidder shall ensure that all the CCTV footage is available for 90 days at respective prison locations.

5.7 Comprehensive OEM Warranty

The Successful bidder shall:

I. Provide comprehensive OEM Warranty for a period of 2 years.

II. The warranty & support shall start from the date of final delivery of all the items and acceptance of the IT Hardware and peripherals. Warranty to start from date of acceptance.

III. Be responsible to ensure adequate and timely availability of spare parts needed for repairing the supplied goods during the warranty period.

5.8 Right to alter Quantities

OCAC reserves the right to give repeat order to the selected bidder for maximum upto 25% of ordered quantity, if requires within the tender validity period of 180 days from the last date of submission of bid under same terms and conditions. Any decision of OCAC in this regard shall be final, conclusive and binding on the bidder. If OCAC does not purchase any of the tendered articles or purchases less than the quantity indicated in the bidding document, the bidder(s) shall not be entitled to claim any compensation.

5.9 Confidential Information

OCAC and Selected bidder shall keep confidential and not, without the written consent of the other party hereto, divulge to any third party any documents, data, or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract.

5.10 Specifications and Standards

I. All articles to be supplied shall strictly confirm to the specifications, trademark laid down in the tender form and wherever articles have been required according to ISI/ ISO/ other applicable specifications/ certifications/ standards, those articles should conform strictly to those specifications/ certifications/ standards. The supply shall be of best quality and description. The decision of the competent authority/ purchase committee whether the articles supplied conform to the specifications shall be final and binding on the selected bidder.

II. Technical Specifications

a) The Selected bidder shall ensure that the goods and related services comply with the technical specifications and other provisions laid down in the tender document & the work order.

b) The Selected bidder shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designed by or on behalf of the Purchaser, by giving a notice of such disclaimer to the Purchaser.

c) The goods and related services supplied under this Contract shall conform to the standards mentioned in bidding document and, when no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is appropriate to the country of origin of the Goods.

5.11 Transit Insurance

I. All Hardware materials, Networking Equipment, Surveillance Equipment, Security Equipment, Access Control devices and peripherals to be supplied under the Contract shall be fully insured against any loss during transit from OEM site to Nodal office sat district level. The insurance charges will be borne by the supplier and OCAC will not pay such charges.

5.12 Inspection

I. OCAC or its duly authorized representative shall at all reasonable time have access to the OEM's premises and shall have the power at all reasonable time to inspect and examine the materials and workmanship of the goods/ equipment/ machineries during manufacturing process or afterwards as may be decided.

II. OCAC/Department shall conduct inspection for which the cost shall be borne by OCAC. OCAC/Department shall undertake the inspection of the Hardware materials, Networking Equipment, Surveillance Equipment, and Security Equipment, Access Control devices and peripherals in accordance to the standard procedures being followed by OCAC/Department in Quality Inspection.

III. For verification of IT & Non-IT infra to be supplied under project the bidder shall deliver all the equipment at respective prisons and after that bidder should inform OCAC & Department for verification/inspection the equipment at respective location.

IV. The inspection team shall prepare a Report specifying satisfactory operational condition of the inspected equipment, gaps identified and necessary corrective measurements required by the Bidder.

V. OCAC may engage any Third Party Agency (TPA), who shall be responsible to perform the inspection of the equipments in accordance with Industry Standards. OCAC shall bear the inspection charges of TPA.

5.13 Rejection

Articles not approved during inspection or testing shall be rejected and will have to be replaced by the selected bidder(s) at his own cost within 2 weeks or the time fixed by Competent Authority

5.14 Authenticity of Equipment(s)

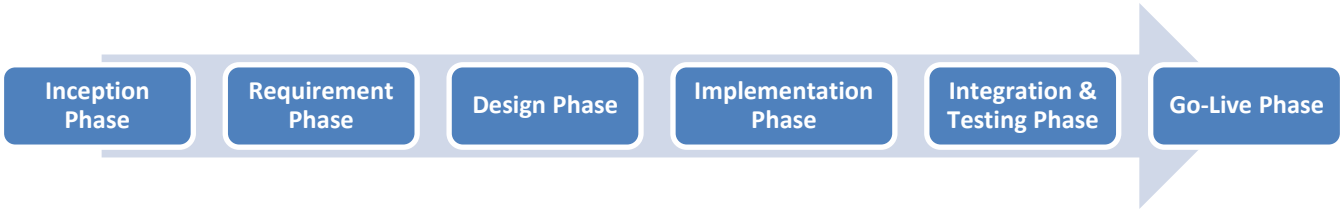
I. The selected bidder shall certify (as per Tech Form XI) that the supplied goods are brand new, genuine/ authentic, not refurbished, confirm to the description and quality as specified in this bidding document and are free from defects in material, workmanship and service.

II. If during the contract period, the said goods be discovered counterfeit/ unauthentic or not to confirm to the description and quality aforesaid or have determined (and the decision of OCAC in that behalf will be final and conclusive), notwithstanding the fact that the purchaser may have inspected and/ or approved the said goods, the purchaser will be entitled to reject the said goods or such portion thereof as may be discovered not to confirm to the said description and quality, on such rejection the goods will be at the selected bidder's risk and all the provisions relating to rejection of goods etc., shall apply.

III. Goods accepted by the purchaser in terms of the contract shall in no way dilute purchaser's right to reject the same later, if found deficient in terms of this clause of the contract.

6 Project Implementation Phase and Key Deliverables

Complete system shall be implemented in following phases and bidder has to follow following implementation cycle.



6.1 Inception Phase

Once contract is awarded to selected bidder and agreement signed, bidder shall mobilize the team proposed for the project and will ensure that project inception report is prepared comprising the followings;

- ✓ Project Concept and Understanding
- ✓ Detailed Project Plan
- ✓ Approach & Methodology adopted for implementation of the project substantiating the approach mentioned in technical proposal
- ✓ Define project governance plan
- ✓ Resource planning and availability of resources during the project implementation period as well as during O&M phase
- ✓ Highlight the milestone and associated risks
- ✓ Responsibility matrix of all stakeholders
- ✓ Measure project deadlines and performance objective
- ✓ Geo-referencing of installation locations
- ✓ Also prepare and site survey reports & details of barracks blocks, hospital building, Kitchen, Canteen, admin block and all other buildings in prison premises.

6.2 Requirement Phase

Bidder will perform the detailed assessment of the business requirements and IT & ITES Solution requirements as mentioned in this RFP. Based on the understanding and its own individual assessment, bidder shall develop & finalize the Functional/System Requirement Specifications (FRS/SRS) in consultation with OCAC/Prison Department and its representative.

6.3 Design Phase

Selected bidder shall design & build the solution as per the locations identified and mentioned in RFP. The solution proposed by bidder should comply with the design considerations requirements as mentioned in RFP.

Bidder shall do the site survey, design layout of Control Room, barracks, security blocks, hospital building, Kitchen, Canteen, admin block and all other buildings and submit the same to department for approval.

6.4 Implementation Phase

Bidder shall carefully consider the scope of work and provide a solution that best meets the project's requirements.

- ✓ The bidder shall procure & supply:
  - Access control, Video Surveillance, Audio system, Security and IP Phone etc. as per requirement mentioned in the RFP
  - Other IT & Non-IT Infrastructure as per requirement mentioned in the RFP
  - Supply, Install & Commission Fibre infra as per requirement and layout approved at Prison
  - Supply, Installation & Commissioning of LAN & Electrical Cabling at all locations for Access control, Video Surveillance, Audio system, Security and IP Phone etc.
  - Configure Video Analytics, Standard Operating Procedure and KPIs as per requirement of OCAC/Prison
  - Submit Item Delivery Report
  - Prepare and submit hardware and networking Installation report from each prison
  - Manuals like technical manuals, user manuals, Site plan etc.
  - Any other required Documentation
  - Fortnightly project progress / status reports
  - Supply tools, accessories, documentation and provide a list of the same

6.5 Integration & Testing Phase

The successful bidder will be responsible for the integration of the Access control, Video Surveillance, Audio system, Security and IP Phone etc. as per the proposed solution with MIS. The Video Surveillance solution should be configured in such a way, so that the video feeds would be kept for 1 Months at Prisons. After 1 Month, the video feeds would be overwritten unless it is flagged or marked by the appropriate authority for investigation or any other purpose.

The MIS must be integrated with all field components to be supplied under smart prison project or software applications proposed to be implemented as part of the project requirement. Bidder shall provide the testing strategy including traceability matrix, test cases and shall

conduct the testing of various components of the system implemented and the solution as a whole. The testing should be comprehensive and should be done at each stage of implementation and integration.

6.6 Go-live Phase

Bidder shall prepare and agree with OCAC, the detailed plan for Go-Live (in-line with OCAC implementation plan as mentioned in RFP).

- ✓ Bidder shall define the criteria for Go-Live of Access control, Video Surveillance, Audio system, Security and IP Phone etc. and its component in consultation with OCAC.
- ✓ Bidder shall submit signed-off UAT report (issue closure report) ensuring all issues raised during UAT are resolved prior to Go-Live
- ✓ Bidder shall ensure that Go–Live criteria for Access control, Video Surveillance, Audio system, Security and IP Phone etc. and other application/component as mentioned in User acceptance testing of Project is met and bidder needs to take approval from OCAC on the same.
- ✓ Go-live of the Access control, Video Surveillance, Audio system, Security and IP Phone etc. and its component shall be done as per the finalized and agreed Go-Live plan

6.7 Operation & Maintenance Phase

Operation and Maintenance period starts after commissioning of the solution at all locations and shall continue for a period of 2 years counted after getting successful implementation certificate. During this period, the selected bidder shall manage activities as defined in section 5.6. (Operation and Maintenance)

7 Project Implementation Timelines and Payment Terms

7.1 Project Timelines

Bidder needs to adhere following project implementation timelines;

S. No.	Milestone	Timeline	Sign-off Criteria
1.	Signing of Contract Agreement between Department and the selected Bidder	T0	Contract Agreement
2.	Submission of Detailed	T0+15 Days	Approval from OCAC/Department

S. No.	Milestone	Timeline	Sign-off Criteria
	implementation plan /roadmap, Inception Report, Site Survey, Layout Preparation etc.		
3.	Delivery of all items (IT & Non-IT both) (at all locations)	T0 + 100 days	Proof of Delivery
4.	Installation & Commissioning of All Items and allied accessories as per scope of work **Note:** The overall Installation and Commissioning of hardware, software and offering for acceptance shall be completed.	T0 + 120 days	Approval from OCAC/Department
5.	Acceptance Testing	T0+140 days	Approval from OCAC/Department
6.	Go-Live	T0+150 days	Approval from OCAC/Department

Note: The agreement signing date will be considered as the Start date for Timeline in all case.

7.2 Payment Terms

S. No.	Milestone	Payment (in %)
Capex Cost (as per Financial Bid Format)		
1.	Successful Delivery and Inspection of Software & Hardware Equipment at the Prison premises	75% of capex cost
2.	Successful Installation & Commissioning	10% of Capex
3.	Acceptance Testing	5% of Capex
4.	Go-Live	10% of Capex
Total Payout		**100% of Capex**
Opex Cost (as per Financial Format)		
5.	Operational & Maintenance support during the contract period of 2 years	To be paid half yearly

8 Special Condition of Contract

8.1 Termination Clause

8.1.1 Right to Terminate the Process

OCAC reserves the right to cancel the contract placed on the selected bidder and recover expenditure incurred by OCAC under the following circumstances: -

a) The selected bidder commits a breach of any of the terms and conditions of the bid.
b) The bidder goes into liquidation, voluntarily or otherwise.
c) If the selected bidder fails to complete the assignment as per the time lines prescribed in the tender and the extension if any allowed, it will be a breach of contract. OCAC reserves its right to cancel the order in the event of delay and forfeit the bid security as liquidated damages for the delay.
d) In case the selected bidder fails to deliver the quantity as stipulated in the delivery schedule, OCAC reserves the right to procure the same or similar product from alternate sources at the risk, cost and responsibility of the selected bidder.
e) OCAC reserves the right to recover any dues payable by the selected Bidder from any amount outstanding to the credit of the selected bidder, including the pending bills and/or invoking the bank guarantee under this contract.

8.2 Consequences of Termination

I. In the event of termination of the Contract due to any cause whatsoever, [whether consequent to the stipulated term of the Contract or otherwise], OCAC shall be entitled to impose any such obligations and conditions and issue any clarifications as may be necessary to ensure an efficient transition and effective business continuity of the Service(s) which the Vendor shall be obliged to comply with and take all available steps to minimize loss resulting from that termination/breach, and further allow the next successor Vendor to take over the obligations of the erstwhile Vendor in relation to the execution/continued execution of the scope of the Contract.

II. Nothing herein shall restrict the right of OCAC to invoke Performance Bank Guarantee and other guarantees, securities furnished, enforce the Deed of Indemnity and pursue such other rights and/or remedies that may be available to OCAC under law or otherwise.

III. The termination hereof shall not affect any accrued right or liability of either Party nor affect the operation of the provisions of the Contract that are expressly or by implication intended to come into or continue in force on or after such termination.

8.3 Extension in Delivery Period and Liquidated Damages (LD)

I. Except as provided under clause "Force Majeure", if the selected bidder fails to deliver any or all of the Goods or perform the Related Services within the period specified in the Contract, OCAC may without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in sub clause (iv) below for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in sub clause (iv). Once the maximum is reached, the Purchaser may terminate the Contract pursuant to clause "Termination".

II. The time specified for delivery in the tender form shall be deemed to be the essence of the contract and the selected bidder shall arrange goods supply and related services within the specified period.

III. Delivery and completion period may be extended with or without liquidated damages, if the delay in the supply of goods or service is on account of hindrances beyond the control of the selected bidder to be determined by OCAC.

a) The supplier/ selected bidder(s) shall request in writing to OCAC/Department giving reasons for extending the delivery period of service, if he finds himself unable to complete the supply of goods or service within the stipulated delivery period or is unable to maintain prorate progress in the supply of goods or service delivery. This request shall be submitted as soon as a hindrance in delivery of goods and service occurs or within 15 days from such occurrence but before expiry of stipulated period of completion of delivery of goods and service after which such request shall not be entertained.

b) OCAC/Department shall examine the justification of causes of hindrance in the delivery of goods and service and the period of delay occurred due to that and recommend the competent authority on the period of extension which should be granted with or without liquidated damages.

c) If the competent authority agrees to extend the delivery period/ schedule, an amendment to the contract with suitable denial clauses and with or without liquidated damages, as the case may be, shall be issued. The amendment letter shall mention that

no extra price or additional cost for any reason, what so ever beyond the contracted cost shall be paid for the delayed supply of goods and service.

d) It shall be at the discretion of the competent authority to accept or not to accept the supply of goods and/ or services rendered by the contractor after the expiry of the stipulated delivery period, if no formal extension in delivery period has been applied and granted. The competent authority shall have right to cancel the contract with respect to undelivered goods and/ or service.

IV. In case of extension in the delivery and/ or completion period is granted with full liquidated damages, the recovery shall be made on the basis of following percentages of value of goods which the selected bidder has failed to supply or complete : -

No.	Condition
1	For delay in delivery of materials beyond the delivery schedule mentioned in the work order**, LD @ 0.25%** per week or part thereof for the pending materials order value up to maximum **5%** will be deducted.

a) The maximum amount of liquidated damages shall be 5 % of the total order value.

b) OCAC reserves its right to recover these amounts by any mode such as adjusting from any payments to be made by OCAC to the bidder.

8.4 Service Level Agreement and Penalties

S. No.	Activity	Timeline	Penalty
1.	Delay in Delivery/ Supply of Software/Hardware/Equipments	As per Delivery / Project Implementation schedule mentioned in this Document	✓ 0.5% of Contract value of delayed item per week or part thereof for delay in delivery (Here Contract value of delayed item means value of individual delayed items as per financial bid) ✓ If the successful bidder delays the delivery /supply beyond 60 days from the scheduled date

			of delivery as per project implementation timeline then the OCAC may terminate the contract and Forfeit the PBG.
2.	Delay in Installation & commissioning	-Do-	✓ 1% of Contract value of delayed item per week or part thereof for delay in Implementation ✓ If the successful bidder delays the installation and commissioning beyond 120 days for from the scheduled date of installation and commissioning as per project implementation timeline then the OCAC may terminate the contract and Forfeit the PBG..

Note:

I. Maximum Penalty cap for penalty for delay is 10% of contract value (i.e. total capex cost) for the ordered item.

II. If there is a delay in delivery of the supply of Software /hardware, applicable penalty for delay in delivery of delayed/non-supplied Software/hardware will be levied. Due to delay in delivery, if installation gets delayed further applicable penalty for delay in installation and commissioning will also be levied for that non-supplied and non-installed hardware.

III. If OCAC/Prison fails to provide space and related clearances to carry out the job as per the agreement terms, as a result of which the installation of the equipment is delayed and the selected agency is not able to adhere to the schedule for completing the Acceptance Tests. Delay solely on account on above will not be accounted while ascertaining actual delay and penalties thereof.

IV. For calculation of delay any dependencies from prison level will be excluded.

8.5 Dispute Resolution Mechanism

The Bidder and OCAC shall endeavor their best to amicably settle all disputes arising out of or in connection with the Contract in the following manner:

I. The Party raising a dispute shall address to the other Party a notice requesting an amicable settlement of the dispute within seven (7) days of receipt of the notice.

II. The matter will be referred for negotiation between OCAC and the Authorized Official of the Bidder. The matter shall then be resolved between them and the agreed course of action documented within a further period of 15 days.

III. In case it is not resolved between OCAC and the bidder, it will be referred to Principal-Secretary to Govt., (E&IT Department), Govt. of Odisha for negotiation and his decision would be final and binding for both the parties.

IV. In case any dispute between the Parties, does not settle by negotiation in the manner as mentioned above, the same may be resolved exclusively by arbitration and such dispute may be submitted by either party for arbitration within 20 days of the failure of negotiations. Arbitration shall be held in Bhubaneswar and conducted in accordance with the provisions of Arbitration and Conciliation Act, 1996 or any statutory modification or re-enactment thereof. Each Party to the dispute shall appoint one arbitrator each and the two arbitrators shall jointly appoint the third or the presiding arbitrator.

V. The “Arbitration Notice” should accurately set out the disputes between the parties, the intention of the aggrieved party to refer such disputes to arbitration as provided herein, the name of the person it seeks to appoint as an arbitrator with a request to the other party to appoint its arbitrator within 45 days from receipt of the notice. All notices by one party to the other in connection with the arbitration shall be in writing and be made as provided in this tender document.

VI. Each Party shall bear the cost of preparing and presenting its case, and the cost of arbitration, including fees and expenses of the arbitrators, shall be shared equally by the Parties unless the award otherwise provides. The Bidder shall not be entitled to suspend the Service/s or the completion of the job, pending resolution of any dispute between the Parties and shall continue to render the Service/s in accordance with the provisions of the Contract/Agreement notwithstanding the existence of any dispute between the Parties or the subsistence of any arbitration or other proceedings.

8.6 Notices

Notice or other communications given or required to be given under the contract shall be in writing and shall be faxed/e-mailed/hand-delivery with acknowledgement thereof, or transmitted by pre-paid registered post or courier or email.

8.7 Force Majeure

Force Majeure is herein defined as any cause, which is beyond the control of the selected bidder or OCAC as the case may be which they could not foresee or with a reasonable amount of diligence could not have foreseen and which substantially affect the performance of the contract, such as:

i. Natural phenomenon, including but not limited to floods, droughts, earthquakes and epidemics
ii. Acts of any government, including but not limited to war, declared or undeclared priorities, quarantines and embargos

iii. Terrorist attack, public unrest in work area provided either party shall within 10 days from occurrence of such a cause, notifies the other in writing of such causes. The bidder or OCAC shall not be liable for delay in performing his/her obligations resulting from any force majeure cause as referred to and/or defined above. Any delay beyond 30 days shall lead to termination of contract by parties and all obligations expressed quantitatively shall be calculated as on date of termination. Notwithstanding this, provisions relating to indemnity, confidentiality survive termination of the contract.

8.8 Failure to agree with Terms and Conditions of the tender

Failure of the successful bidder to agree with the Terms & Conditions of the tender shall constitute sufficient grounds for the annulment of the award, in which event OCAC shall invoke the EMD/PBG of the selected bidder and may award the contract to the next best value bidder (R2) or call for new proposals from the interested bidders.

8.9 Limitation of Liability

Except in cases of gross negligence or willful misconduct: -

a) neither party shall be liable to the other party for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this

exclusion shall not apply to any obligation of the supplier/ selected bidder to pay liquidated damages to the Purchaser; and

b) the aggregate liability of the selected bidder to the Purchaser, whether under the Contract, in tort, or otherwise, shall not exceed the amount specified in the Contract, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the supplier/ selected bidder(s) to indemnify the Purchaser with respect to patent infringement.

8.10 Change in Laws & Regulations

I. Unless otherwise specified in the Contract, if after the date of the Invitation for Bids, any law, regulation, ordinance, order or bylaw having the force of law is enacted, promulgated, abrogated, or changed in Odisha/ India, where the Site is located (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the Delivery Date and/ or the Contract Price, then such Delivery Date and/or Contract Price shall be correspondingly increased or decreased, to the extent that the Supplier has thereby been affected in the performance of any of its obligations under the Contract.

II. Notwithstanding the foregoing, such additional or reduced cost shall not be separately paid or credited, if the same has already been accounted for in the price adjustment provisions where applicable.

8.11 Change Orders and Contract Amendments

I. OCAC may at any time order the selected bidder through Notice in accordance with clause "Notices" above, to make changes within the general scope of the Contract in any one or more of the following: -

   a. drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser;
   b. the place of delivery; and
   c. the related services to be provided by the selected bidder

II. If any such change causes an increase or decrease in the cost of, or the time required for, the selected bidder's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or in the Delivery and Completion Schedule, or both, and the Contract shall accordingly be amended. Any claims by the selected bidder

for adjustment under this clause must be asserted within thirty (30) days from the date of the selected bidder's receipt of the Purchaser's change order.

III. Prices to be charged by the selected bidder for any related services that might be needed but which were not included in the Contract shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the selected bidder for similar services.

8.12 Delivery of Goods

The bidder shall deliver all the equipment at respective prisons in Odisha without any additional cost and inform OCAC regarding the same for verification/inspection.

Where the bidder is required under the Contract to transport the goods to prisons. Transport to such places including insurance, as specified in the Contract, shall be arranged by the bidder and the related cost shall be included in the Contract Price.

8.13 Legal Jurisdiction

All legal disputes are subject to the jurisdiction of Bhubaneshwar courts only.

8.14 Taxes and Duties

The rates quoted shall be in Indian Rupees without including all GST, other taxes, levy, and royalties etc. The prevalent GST rates which will be allowed to be charges as per applicable rules. Rate quoted would be paid up to the completion of the job. Any increase in the quoted rates is not allowed in any circumstances. However, any change in the central and state taxes including the GST rates shall be borne by the department as applicable during the contract period.

8.15 Binding Clause

All decisions taken by the Department regarding the processing of this tender and award of contract shall be final and binding on all concerned parties.

8.16 The Department Reserves the Right

To verify, modify, revise, amend or change any of the terms and conditions mentioned above or during the tender process. However, once the contract has been signed between the parties, then any such modification, revision, amendments in the terms and conditions shall be deduced in writing and signed by both the parties.

THE DECISION REGARDING ACCEPTANCE OF TENDER BY THE DEPARTMENT WILL BE FINAL. Conditional tender shall be summarily rejected.

The Department is free to phase out the work if it feels it is necessary.

8.17 Bidder's Integrity

The bidder is responsible for and obliged to conduct all contract activities as defined in the scope of work in accordance with the Contract with utmost integrity and sincerity.

8.18 Bidder's Obligations

The bidder is obliged to work closely with the Department's staff, act within its own authority.

The bidder will abide by the job safety measures prevalent in India and will free the Department form all demands or responsibilities arising from accidents or loss of life the cause of which is the bidder's negligence. The bidder will pay all indemnities arising from such incidents and will not hold the Department responsible or obligated.

The bidder is responsible for managing the activities of its personnel and will hold itself responsible for any misdemeanour.

The bidder will treat as confidential all data and information about the Department, obtained in the execution of his responsibilities, in strict confidence and will not reveal such information to any other party without the prior written approval of the Department.

Any deviation beyond the bidder's control to be reported to the Department on a monthly basis and decision to be obtained. Failure will lead to imposition of penalty as defined above and ultimately may lead to termination of contract with forfeiture of Performance Guarantee.

8.19 Exit Management

1. If the bidder wishes to terminate the contract before its expiry he should seek permission in writing from the Department, clearly stating the reasons for the same.
2. The bidder shall continue to provide undisputed services at all locations up to 6 months thereafter or until it gets written approval of the Department.
3. The Department reserves the right to engage an alternative agency to take over the work from the successful bidder. The bidder shall hand over the operation and facilitate smooth transfer of responsibilities.
4. The bidder shall continue to provide the O&M support up to the period as mentioned above.
5. In case so decided, the OCAC retains the right to take over the equipment and site from the bidder based on a value to be determined based on depreciated value. The government may engage a consultant to carry out the valuation.

6. The Operation & Maintenance period of contract shall be for a term of minimum two-years after Go-live of services from all *identified prisons*. However, Department may extend the term of the contract for further 3 years upon successful completion of the two-year term. The terms and conditions of the extension shall be mutually discussed and agreed at that time.

8.20 Performance Security

The proceeds of the performance security shall be payable to the Department as compensation for any loss resulting from the bidder's failure to complete its obligation under the contract. The Performance Security shall be denominated in Indian Rupees and shall be issued by any Scheduled Bank in India.

Bidder shall furnish a Bank Guarantee from any Scheduled Commercial Bank for 3% of total contract value for period of the contract or 2 years six months which-ever is later.

9 Technical Specification

9.1 Equipment Technical Specification

9.1.1 Dome Camera (2MP Fixed Dome IP Camera)

S. No.	Parameter	Specification	Compliance (Yes/No)	Remarks
1	Image Sensor	1/2.9" CMOS or better		
2	Signal System	PAL/NTSC		
3	Min. Illumination	Color: 0.02 Lux, B/W: 0 Lux with IR or better		
4	Shutter Time	1s To 1/100,000s		
5	Lens	2.8mm/4mm		
6	IR Distance	30mtr. Or better		
7	Day & Night	IR Cut Filter with Auto Switch		
8	Digital Noise	3D DNR		

	Reduction			
9	Video Compression	S+265/H.265/H.264/M-Jpeg		
10	Video Bit Rate	32kbps～8mbps		
11	Audio Compression	G.711/G.711u/ADpcm		
12	Audio Bit Rate	8k～48kbps		
13	Max. Image Resolution	1920 X 1080		
14	Frame Rate	Pal: 25fps (1920×1080),Ntsc: 30fps (1920 ×1080)		
15	Main Stream	1080p(1920 X 1080)		
16	Sub Stream	D1(704 X 576)		
17	Support	HLC, BLC, Smart Defog, NTP & ANR		
18	Video Analytics	Tripwire/Perimeter/Line Crossing		
19	Alarm Trigger	Motion Detection/IP Conflict/Mac Conflict/Port Alarm/Mask Alarm		
20	Protocols	TCP/UDP/Http/Multicast/UPNP/ DHCP/DDNS/FTP/NTP/RTSP/SMTP/PPPOE		
21	System Compatibility	Onvif (Profile S/T/G) or better		
22	Audio Input	1ch,Mic In		
23	On Board Storage	Micro SD Card Slot, Upto 512gb Support		
24	Extension	Reset		
25	Operating Conditions	(Minus -35℃ ～60℃ , 0～95%)		
26	Power Supply	Dc 12 V ±25%, POE		

9.1.2 Bullet Camera (2 MP Fixed IP Bullet Camera)

S. No.	Parameter	Specification	Compliance (Yes/No)	Remarks
1	Image Sensor	1/2.9" CMOS or better		
2	Signal System	PAL/NTSC		
3	Min. Illumination	Color: 0.02 Lux, B/W: 0 Lux with IR or better		
4	Shutter Time	1s To 1/100,000s		
5	Lens	2.8mm/4mm		
6	IR Distance	30mtr. Or better		
7	Day & Night	IR Cut Filter with Auto Switch		
8	Digital Noise Reduction	3D DNR		
9	Video Compression	S+265/H.265/H.264/M-Jpeg		
10	Video Bit Rate	32kbps～8mbps		
11	Audio Compression	G.711/G.711u/ADpcm		
12	Audio Bit Rate	8k～48kbps		
13	Max. Image Resolution	1920 X 1080		
14	Frame Rate	Pal: 25fps (1920×1080),Ntsc: 30fps (1920 ×1080)		
15	Main Stream	1080p(1920 X 1080)		
16	Sub Stream	D1(704 X 576)		
17	Support	HLC, BLC, Smart Defog, NTP & ANR		
18	Video Analytics	Tripwire/Perimeter/Line Crossing		

19	Alarm Trigger	Motion Detection/IP Conflict/Mac Conflict/Port Alarm/Mask Alarm		
20	Protocols	TCP/UDP/Http/Multicast/UPNP/ DHCP/DDNS/FTP/NTP/RTSP/SMTP/PPP OE		
21	System Compatibility	Onvif (Profile S/T/G) or better		
22	Audio Input	1ch,Mic In		
23	On Board Storage	Micro SD Card Slot, upto 512GB Support		
24	Extension	Reset		
25	Operating Conditions	(Minus -35℃ ～60℃ , 0～95%)		
26	Power Supply	Dc 12 V ±25%, POE		
27	Impact Protection	IP67, Lighting Protection, Surge Protection And Voltage Transient Protection Meets EN: 55035:2017		
28	Certification	BIS, FCC, CE & CMMIL3		

9.1.3 Bullet Camera (5 MP Fixed IP Bullet Camera)

S. No	Parameter	Specification	Compliance (Yes/No)	Remarks
1	Image Sensor	1/2.8" CMOS or better		
2	Signal System	PAL/NTSC		
3	Min. Illumination	Color: 0.0002 Lux, B/W: 0.001 Lux or better		
4	Shutter Time	1s To 1/100,000s		
5	Lens	4mm/6mm		
6	IR Distance	40mtr. Or better		

7	Day & Night	IR Cut filter with auto switch		
8	WDR	120Db or better		
9	Digital Noise Reduction	3D DNR		
10	Video Compression	S+265/H.265/H.264H/H.264M /H.264B/MJPEG		
11	Video Bit Rate	32kbps～16mbps		
12	Audio Compression	G.711/G.711u/ADpcm		
13	Audio Bit Rate	8k～48kbps		
14	Max. Image Resolution	2560 X 1920		
15	Frame Rate	Pal: 25fps (1920×1080),Ntsc: 30fps (1920 ×1080)		
16	Main Stream	2560 X 1920		
17	Sub Stream	D1(704 X 576)		
18	Support	HCL Smart Defog, Corridor Format ,ROI, NTP & ANR		
19	Video Analytics	Tripwire/Double Tripwire/ Perimeter/Object Abandon/Object Lost/Running / Loitering/Parking/ Crowd/Video Abnormal Detection		
20	Alarm Trigger	Motion Detection/IP Conflict/Mac Conflict/Port Alarm/Mask Alarm		
21	Protocols	TCP/UDP/Http/Multicast/UPNP/ DHCP/DDNS/FTP/NTP/RTSP/SMTP/PPP OE		
22	System Compatibility	Onvif (Profile S/T/G) or better		
23	Audio Input	1ch,Mic In		
24	Audio Output	1ch		
25	On Board Storage	Micro SD Card Slot, upto 128GB Support		

26	Extension	Reset		
27	Operating Conditions	(Minus -35℃ ～60℃ , 0～95%)		
28	Power Supply	Dc 12 V ±25%, POE		
29	Impact Protection	IP67, Lighting Protection, Surge Protection And Voltage Transient Protection Meets EN: 55035:2017		
30	Certification	BIS, FCC, CE & CMMIL3		

9.1.4 Bullet Camera (5 MP Motorized VF IP Bullet Camera)

S. No.	Parameter	Specification	Compliance (Yes/No)	Remarks
1	Image Sensor	1/2.8" CMOS or better		
2	Signal System	PAL/NTSC		
3	Min. Illumination	Color: 0.0002 Lux, (F 1.6,AGC ON) B/W: 0Lux with IR or better		
4	Shutter Time	1s To 1/100,000s		
5	Lens	2.7 to 13.5mm Motorized		
6	IR Distance	60mtr. Or better		
7	Day & Night	IR Cut filter with auto switch		
8	WDR	120Db or better		
9	Digital Noise Reduction	3D DNR		
10	Video Compression	S+265/H.265/H.264H/H.264M /H.264B/MJPEG		
11	Video Bit Rate	32kbps～16mbps		
12	Audio Compression	G.711/G.711u/ADpcm		

13	Audio Bit Rate	8k～48kbps		
14	Max. Image Resolution	2560 X 1920		
15	Main Stream	2560 X 1920 & 1080p(1920 X 1080)		
16	2nd Stream	D1(704 X 576)		
17	3rd Stream	CIF(352 X 288)		
18	Support	HCL Smart Defog, Corridor Format ,ROI, NTP & ANR		
19	Video Analytics	Tripwire/Double Tripwire/ Perimeter/Object Abandon/Object Lost/Running / Loitering/Parking/ Crowd/Video Abnormal Detection		
20	Alarm Trigger	Motion Detection/IP Conflict/Mac Conflict/Port Alarm/Mask Alarm		
21	Protocols	TCP/UDP/Http/Multicast/UPNP/ DHCP/DDNS/FTP/NTP/RTSP/SMTP/PPPOE		
22	System Compatibility	Onvif (Profile S/T/G), P2P, SDK, CGI or better		
23	Audio Input	1ch,Mic In		
24	Audio Output	1ch		
25	Alarm Input	2ch		
26	Alarm Output	1ch		
27	On Board Storage	Micro SD Card Slot, upto 128GB Support		
28	Extension	Reset		
29	Operating Conditions	(Minus -35℃ ～60℃ , 0～95%)		
30	Power Supply	Dc 12 V ±25%, POE		
31	Impact Protection	IP67, Lighting Protection, Surge Protection And Voltage Transient Protection Meets EN: 55035:2017		
32	Certification	BIS, FCC, CE & CMMIL3		

9.1.5 PTZ Camera (2MP 30X Optical Zoom PTZ IP Camera)

S. No.	Parameter	Specification	Compliance (Yes/No)	Remarks
1	Image Sensor	1/1.8" CMOS or better		
2	Signal System	PAL/NTSC		
3	Min. Illumination	Color: 0.0004 Lux @ (F1.6, AGC On) Black & White:0.001lux @ (F1.6, AGC On) 0 Lux With IR or better		
4	Shutter Time	1s To 1/100,000s		
5	IR Radiation Distance	200mtr. Or better		
6	Day & Night	IR Cut filter with auto switch		
7	WDR	120Db or better		
8	Digital Noise Reduction	3D DNR		
9	Optical Zoom	30x or better		
11	Auto Focus	Auto/Semi-Automatic/Manual		
11	Smart Tracking	Inbuilt		
12	Pan Range	360 degree		
13	Pan Speed	Pan Manual Speed: 0.1°-120°/S, Pan Pre-set Speed: 180°/S		
14	Pre-set Numbers	256 or better		
15	Video Compression	S+265/H.265/H.264H/H.264M /H.264B/MJPEG		
16	Guard Action	Pre-set/ Cruise/ Pattern/ Scan		
17	Video Bit Rate	32kbps～16mbps		

18	Audio Compression	G.711/G.711u/ADPCM		
19	Audio Bit Rate	8k～48kbps		
20	Max. Image Resolution	(1920 X 1080)		
21	Main Stream	1080p(1920 X 1080)		
22	2nd Stream	D1(704 X 576)		
23	3rd Stream	CIF(352 X 288)		
24	Support	BLC, HLC, Smart Defog, Power Loss Recovery ,3D Position, PTZ Position Display , Freeze Frame		
25	Video Analytics	Tripwire/Perimeter		
26	Alarm Trigger	Motion Detection/IP Conflict/Mac Conflict/Port Alarm/Mask Alarm		
27	Protocols	TCP/UDP/Http/Multicast/UPNP/ DHCP/DDNS/FTP/NTP/RTSP/SMTP/PPPOE		
28	System Compatibility	Onvif (Profile S/T/G), P2P, SDK, CGI or better		
29	Wiper on Lens	Inbuilt		
30	Audio Output	1ch		
31	Alarm Input	8ch		
32	Alarm Output	2ch		
33	On Board Storage	Micro SD Card Slot, upto 128GB Support		
34	Extension	Reset		
35	Operating Conditions	(Minus -35℃ ～60℃ , 0～95%)		
36	Power Supply	Dc 12 V ±25%, POE		
37	Impact Protection	IP67		

38	Circuit Protection	TVS 6000v, Lighting/ Surge 4000v		
39	Certification	BIS, FCC, CE & CMMIL3		

9.1.6 NVR (64CH Network Video Recorder)

S. No.	Parameter	Specification	Compliance (Yes/No)	Remarks
1	Video Input	64 and Expandable up to 80Ch		
2	Two Way Audio Input	1 CH, 3.5mm		
3	Incoming Bandwidth	320 Mbps or better		
4	Outgoing Bandwidth	320 Mbps or better		
6	Mobile Software	P2P/ & DDNS for iOS & Android		
7	Email	Activated by alarm		
8	Remote Connection	160 (One Sixty) or better		
9	Browser	Support all browsers including IE, Safari, Chrome, Edge.		
10	Audio Output	1CH, 3.5mm		
11	Recording Resolution	12MP/8MP/6MP/5MP/4MP /3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/ 2CIF/CIF/QCIF		
12	Synchronous Playback	4-CH 4K/16-CH1080P / 720P/4CIF		
13	Display Split	1/3/4/6/8/9/10/13/16/20/25/36/40/64		
14	Compression	(S+265/H.265/H.264H/H.264M/H.264B)		
15	Preview Capability	4-CH 4K/16-CH 1080P/ 32CH-720P/64CH-4CIF		

16	Supports	ANR, E ZOOM , E SATA , I- Frame Record, Records Encryption, Records Tag		
17	SATA	16 SATA slots (each slot support 10TB each) front swap SATA ports or better		
18	Capacity	Up to 10 TB Capacity for each HDD (0~45) ℃		
19	Auto HDD Management	Group and Quota, Customized Recording Days		
20	Raid Mode	JBOD, RAID0, RAID1, RAID5, RAID6, RAID10, RAID50, RAID60		
21	Raid Management	One-Key Configuration, And Support Manual And Auto Rebuild		
22	Network Interface	2X 1 RJ-45 10/100/1000Mbps Self-Adaptive Ethernet Interfaces		
23	HDMI Output	2ch		
24	VGA Output	2ch		
25	USB Interface	1X USB3.0, 1X USB2.0		
26	Alarm In/Out	16/4		
27	Video Analytics	Tripwire/Double Tripwire/Perimeter/Object Abandon/Object Lost/Running/Loitering/Parking		
28	Corridor Mode	Yes		
29	One Key Control	Intercom, Recording, One Key Add		
30	Records Format	SDV, MP4		
32	ONVIF	Onvif (Profiles) or better		
33	Power Supply	(100~240V AC, 50~ 60Hz)		
34	Working Temperature	(0ºC ~ 50 ºC)		

35	Working Humidity	10 % ~ 90 %		

9.1.7 Network Switch (24Port Core Network Switch L3)

S No.	Specification	Compliance (Yes/No)	Remarks
1	**Hardware Features**		
	24x 100/1000 Mbps RJ-45 ports		
	4x Dual personality GbE ports (SFP 100/1000 Mbps or RJ-45 10/100/1000 Mbps Ports		
	4x SFP+ 10G Ports		
	1x DB-9 Female console port		
	1x 10/100Mbps RJ-45 Out band management port		
	Support Dual redundant power supply		
	Max Power Consumption 47 Watts		
	Out band management RJ-45		
	Acoustic Noise value (dB): 59.8dB		
	Heat Dissipation (BTU/hr): 160.27		
	MTBF @ 25 °C 860610 hrs		
	EEE (Energy efficient Ethernet)		
	Operation Temperature: 0° to 50° C		
	Storage Temperature: -40° to 70° C		
	Operating humidity (non-condensing): 10% to 90%		
	Storage humidity (non-condensing): 10% to 95%		

2	**Performance**		
	8 hardware queue		
	136 Gbps Switch fabric speed		
	101.10 Mbps Forwarding Rate		
	1.0 GHz Dual core ARM A9 CPU		
	64 MB Flash		
	1GB RAM		
	4MB Packet buffer (Egress/Ingress)		
	9 KB Jumbo Frame (Bytes)		
	32K MAC address table		
	8K IP Address table		
	12K IPv4 static Routing entries		
	1K IPv6 static Routing Entries		
3	**Interface**		
	Up to 4K static/dynamic VLANs		
	IPv4 Interface		
	IPv6 Interface		
4	**Layer 2 Services**		
	Static MAC forwarding		
	MAC PIN		
	MAC Freeze		

	MAC filter		
	MAC aging time		
	Protocol Based VLANs		
	IP subnet Based VLANs		
	Guest VLAN		
	Private VLAN		
	MAC-based VLAN		
	IEEE 802.1x Guest VLAN, MAC-based VLAN, Unauthenticated VLAN		
	Dynamic VLAN, GARP with GVRP/GMRP		
	Layer 2 Protocol Tunnelling(L2PT)		
	Double VLAN Tagging (QinQ)		
	Availability of IEEE 802.3ad - LAGs, 16 groups/8 interfaces per group		
	LACP		
	Static LAGs		
	IEEE 802.3x (Full Duplex and flow control)		
	Per port Flow Control		
	IEEE 802.1D STP		
	IEEE 802.1w RSTP		
	IEEE 802.1s MSTP 512 instance		
	MRSTP		
	BPDU Control		
	Loop Guard		

	Intrusion Lock		
	BPDU Guard		
	Spanning Tree Root Guard		
	Multicast maximum group		
	IGMPv2 Snooping		
	IGMPv3 Snooping		
	MLDv1 Snooping		
	Immediate Leave		
	Static L2 Multicast Filtering		
	IGMP Snooping		
	IGMP snooping Per VLAN		
	Snooping Queries		
5	**L3 Services**		
	MLD Proxy		
	DVMRP		
	IPv4, IPv6 DHCP Client		
	Ipv4, IPv6 DHCP Server		
	DHCP Relay		
	IPv4 Routing 802.3ad (LAG) for router ports		
	Policy Based Route		
	VRRP		
	Multipath - ECMP		

	L3 Loopback Interface		
	RIP v1, v2		
	OSPFv2		
6	**Network Monitoring and Discovery Services**		
	802.1ab LLDP-MED		
	SNMP v1, v2c, v3		
	RMON 1,2,3,9		
	sFlow		
	OAM		

9.1.8 Network Switch (24Port POE smart managed Switch)

S No.	Specification	Compliance (Yes/No)	Remarks
1	**Architecture & Performance**		
	Switch Should have 24 Nos. of 10/100/1000 Mbps PoE Gigabit Ethernet Ports and 2 Nos. of SFP ports		
	The Switch Should have Non-blocking wire speed switch fabric and forwarding rate		
	All POE Ports Should support 802.3af/at standard		
	The Switch Should support Min. 8K Mac address or more		
	Should support IEEE802.3az standard		
	Should support Dual Software (firmware) image		
2	**Should support the following Standard**		
	IEEE 802.3 10BASE-T Ethernet ,IEEE 802.3u 100BASE-TX Ethernet ,IEEE 802.ab 1000BASE-T Ethernet ,IEEE 802.3z		

	1000BASE-X Ethernet ,IEEE 802.3x flow control		
	IEEE 802.1D spanning tree protocol IEEE 802.1w rapid spanning tree protocol ,IEEE 802.1s multiple spanning tree protocol		
	IEEE 802.1p class of service, priority protocols ,IEEE 802.1X port authentication ,IEEE 802.3ad LACP aggregation		
3	**Traffic Management and QoS**		
	Rate limiting: Rule-based/port-based bandwidth control, 64 kbps granularity		
	Port-based egress traffic shaping		
	Should support broadcast storm control to avoid unwanted traffic attack on CPU		
	Should support IEEE 802.1p with priority queues for different traffic types		
	Supports IGMP/IGMP snooping v1, v2, v3		
	Should support congestion control on all ports		
4	**Link Aggregation**		
	IEEE 802.3ad LACP link aggregation compliant		
	Up to 8 aggregation groups,		
5	**Resilient Network**		
	IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)		
	IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)		
6	**User Security and Authentication**		
	Should support MAC filtering per port secures access to each port		
	Should support IEEE 802.1Q tag-based and port-based VLAN		
	Should support Guest VLAN port based and MAC based		
	Should support GVRP, automatic VLAN member registration		
	Should support at least 1K static VLAN, up to 4K dynamic VLAN		

	Should support Port-base VLAN & VLAN isolation		
	Should support limited MAC number per port		
	Should be capable to set mac ageing time		
	Should support Loop guard to avoid loops in network generated on unmanaged switches		
	Should support RADIUS MAC login		
	Should support 802.1X port-based authentication, compensated assignment over VLAN and bandwidth for valid access		
7	**Network Administration Security**		
	User name/password required for Web administrators		
	Should support SSL		
8	**IPv6 Support**		
	IPv6 over Ethernet (RFC 2464)		
	Dual-stack (RFC 4213),ICMPv6 (RFC 4884),Neighbor discovery (RFC 4861)		
	Auto configuration, static IPv6 address and prefix length, static IPv6 default gateway		
	IPv6 duplicate address detection		
9	**Network Management**		
	Web-based management ,SNMP v1, v2c, v3		
	RMON four RMON groups 1, 2, 3, 9 (history, statistics, alarms and events) for enhanced traffic management, monitoring and analysis		
10	**Certification**		
	CE, FCC, C-Tick, Class A, BSMI CNS13438,LVD EN60950-1,BSMI CNS14336-1,RoHS compliant.		
11	**Environmental specifications**		
	Operating temperature 0 Deg C to 50 Deg C		
	Operating Humidity 10% to 95 % (Non condensing)		

	Switch Should be supplied with management software to manage and maintain multiple layer2 switches for Centralized and batch configurations like IP configurations, IP renew, Web Gui access, Firmware update, device locating etc.		

9.1.9 Network Switch (8 Port POE Switch)

S No.	Specification	Compliance (Yes/No)	Remarks
1	**Architecture & Performance**		
	Switch should have total 8 Nos. Gigabit port of 10/100/1000 Mbps PoE Ethernet Ports and 2 Nos. Gigabit SFP slot(SFP/GbE).		
	The Switch should have Non-blocking wire speed switch fabric, should have Min. 20 Gbps Back plane or more and should have Min.14.8 Mbps or more		
	The Switch should support Min. 8K Mac address or more		
	Should support EEE IEEE802.3az standard for minimize the power consumption on per port basis by supplying power on the basis of cable length and active ports only		
	Should support Dual Software (firmware) image		
2	**Should support the following Standard**		
	IEEE 802.3 10BASE-T Ethernet ,IEEE 802.3u 100BASE-TX Ethernet ,IEEE 802.ab 1000BASE-T Ethernet ,IEEE 802.3z 1000BASE-X Ethernet ,IEEE 802.3x flow control IEEE 802.3af PoE and IEEE802.3at PoE plus		
	IEEE 802.1D spanning tree protocol IEEE 802.1w rapid spanning tree protocol ,IEEE 802.1s multiple spanning tree protocol		
	IEEE 802.1p class of service, priority protocols ,IEEE 802.1X port authentication ,IEEE 802.3ad LACP aggregation		

3	**Traffic Management and QoS**		
	Rate limiting: port-based bandwidth control, 64 kbps granularity		
	Port-based egress traffic shaping		
	Switch should support Jumbo frames of 9KB		
	should support broadcast storm control to avoid unwanted traffic attack on CPU		
	should support IEEE 802.1p with priority queues for different traffic types		
	Switch should be able to automatically detect the power consumption status of each Powered Device and supply only the amount of power required to minimize the waste and unused power		
	Supports IGMP/IGMP snooping v1, v2, v3		
4	**Link Aggregation**		
	IEEE 802.3ad LACP link aggregation compliant		
	Up to 8 aggregation groups,		
5	**Resilient Network**		
	Should support IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)		
	Should support IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)		
6	**User Security and Authentication**		
	Should support MAC filtering per port secures access to each port		
	should support IEEE 802.1Q tag-based and port-based VLAN		
	Switch should support Guest VLAN and VOICE vlan		
	Should support IEEE 802.1x based on guest vlan		
	should support at least 1K static VLAN.		
	should support Port-base VLAN		
	should support limited MAC number per port		
	Should be capable to set mac ageing time		

	should support Loop guard to avoid loops in network generated on unmanaged switches		
	should support 802.1X port-based authentication, compensated assignment over VLAN.		
	Should support 802.1ab LLDP and MED		
	Should support NTP , Syslog.		
7	**Network Administration Security**		
	Should support SSL		
	The switch should have scheduling for POE.		
	Should support AAA through Radius and Tacacs+ servers		
8	**IPv6 Support**		
	IPv6 over Ethernet ,IPv6 Addressing, ICMPv6 ,Dual Stack ,Neighbor discovery		
9	**Network Management**		
	Web-based management ,SNMP v1, v2c, v3		
	RMON four RMON groups 1, 2, 3, 9 (history, statistics, alarms and events) for enhanced traffic management, monitoring and analysis		
	Switch should be supplied with management software to manage and maintain multiple layer 2 switches for Centralized and batch configurations like IP configurations, IP renew, Web Gui access, Firmware update, device locating etc.		
	The switch should have minimum MTBF of 801,100.hrs.		
	The PoE power budget of the device should be more than 75 Watts.		
	The switch protect against scan attack and Ping of death		
10	**Certification**		
	CE, FCC, C-Tick, Class B		
	The OEM Brand should be having valid ISO 9001, ISO 14001 certificates, all these certificates must be submitted in technical bid.		

11	**Environmental specifications**		
	Operating temperature 0 Deg C to 50 Deg C		
	Operating Humidity 10% to 95 % (Non condensing)		

9.1.10 Rack (9U Network Rack)

S No.	Specification	Compliance (Yes/No)	Remarks
1	9U x 550 W x 600 D		
2	Adjustable 19” equipment mounting verticals provide better mounting flexibility and maximizes the usable mounting space		
3	Depth adjustable mounting slots		
4	Precision engineering capabilities and best efficient software configuration product technology provide the best product quality and fastest delivery in the industry		
5	Top and bottom Panel with ventilation and cable entry facility		
6	Provision to mount cooling fans on the top panel		
7	Powder coated finish with pretreatment process meeting all industry standards		
8	Front Door : Lockable Toughened Glass Door		
9	Mounting Angle : 19” Mounting angles made of formed steel		
10	Top and Bottom Cover : Welded to Frame, Vented and Field Cable entry exit cut outs		
11	Standard Accessories: Power Distribution Units, 1U Horizontal Cable Manager, FAN and one Hardware Packet		
12	Standard Color Grey		

9.1.11 Rack (42 Server Rack)

S No.	Specification	Compliance (Yes/No)	Remarks

1	42U Closed Rack / Width 800 / Depth 1000		
2	Adjustable 19" equipment mounting verticals provide the better mounting flexibility maximizing the usable mounting space		
3	Depth adjustable mounting slots		
4	Precision engineering capabilities and best efficient software configuration product technology provides the best product quality and fastest delivery in the industry		
5	Top and bottom Panel with ventilation and cable entry facility		
6	Provision to mount the cooling fans on the top panel		
7	Powder coated finish with pretreatment process meeting all industry standards		
8	Grounding and Bonding Options		
9	Front Door : Lockable Toughened Glass Door		
10	Equipment Mounting : DIN Standard 10mm Sq. Slots / Direct M6 Tap		
11	Mounting Angle : 19" Mounting angles made of formed steel		
12	Top and Bottom Cover : Welded to Frame, Vented and Field Cable entry exit cut outs		
13	Mounting Option : Castor wheels (Front 2 wheels with Break and rear without break) Or Levelers Or Base plinth		
14	Accessories: Doors & Side Panels, Power Distribution Units, Cable Manager, 4 * Fans and Fan Modules, Jacking Feet, 5 * Mounting Hardware, Vertical Power strip with 8 nos. of 5/15A sockets (high end).		

9.1.12 1 KVA UPS

S. No	Specification	Compliance (Yes/No)	Remarks

1	1 KVA On-Line UPS System with Inbuilt Isolation Transformer		
2	True On-Line Double Conversion UPS with PWM-IGBT technology.		
3	1 KVA/800 VA@ 0.8 p.f.		
4	Input: 160-280 V AC, UPS should have inbuilt 1 Phase, Type 2 surge arrester (50kA) and Lightning Protection device.		
5	Output: 230 V AC, 1-phase ± 1% (Sine Wave Output), 50 Hz ± 0.05 Hz		
6	Frequency Range (Synchronized Range): 47~ 53 Hz		
7	Frequency Range (Batt. Mode): 50 Hz ± 0.25 Hz		
8	Harmonic Distortion: o ≤ 3 % THD (Linear Load) o ≤ 6 % THD (Non-Linear Load)		
9	UPS output should be fully isolated by double conversion and inbuilt isolation transformer within the UPS cabinet itself. External transformer shall not be considered.		
10	Digital LCD display for measurement of AC Voltage, Battery voltage, Battery Current, Load Current, Output frequency.		
11	The system must be capable of providing requisite battery back-up time of 1 hour using Sealed Maintenance Hybrid Gel Battery.		
12	Battery bank and VAH to be sized for 1-hour back-up on full resistive load		
13	CE Certification		
14	ISO 9001, ISO 14001 certified		

9.1.13 Main Database Server and Video Management

Features	Specification	Compliance (Yes/No)	Remarks
Processor	Intel Xeon Silver 4210R 2.4GHz Sixteen Core Processor, 10C/20T, 9.6GT/s, 22M Cache, Turbo, HT (100W) DDR4-2400 or better		
Memory	32 DIMMS 2 x 32GB 64GB RDIMM or better		
Chassis	2.5" Chassis with up to 8 Hot Plug		
Hard Drive	4 x Hard Drives 1.2TB 10K RPM SAS 12Gbps 512n, 2.5in Hot-plug Hard Drive		
Power	Adapter, Low Profile Single, Hot-plug Power Supply (1+1), 550W		
OS	Enterprise 3YR Pro Support Next Business Day Onsite		
Network interface	1000 BaseT, Gigabit Ethernet (10/100/1000 autosensing)		
Audio	Line/Mic IN, Line-out/Spr Out(3.5mm)		
Keyboard	104 keys minimum OEM keyboard		
Mouse	2 button optical scroll mouse (USB)		
Monitor	Two 21-inch monitor, Minimum 1920x1080 resolution, TCO 06(or higher) certified		

9.1.14 Interactive Unified Control Panel

S No.	Specification	Compliance (Yes/No)	Remarks
1	**Multi Core Processor**		
	Quad-Core Cortex A17 1.8GHz 1-4x Symmetrical Multiprocessing (SMP) within a single processor cluster, and multiple coherent SMP processor clusters through AMBA 4 ACE technology or better		
	GPU clocked at 600 MHz or better		
	Compatible with CCI-400 for up to two clusters		
	High performance dedicated 2D processor or better		

	2gb RAM , Dual-channel DDR3, DDR3L, LPDDR2, LPDDR3 or better		
2	**Processor support and expansion**		
	Arm and Thumb-2 or better		
	TrustZone security technology to protect high-value code and data		
	Neon Advanced SIMD Single Instruction Multiple Data architecture extension for the A-profile and R-profile processors.		
	VFPv4 Floating point		
	Hardware virtualization support		
	Large Physical Address Extensions (LPAE)		
	DSP and SIMD extensions		
	Integer Divide		
	Fused MAC		
	Hypervisor debug instructions		
3	**Internal Memory**		
	Memory Management Unit Armv7		
	Device Internal Memory 16gb or Better		
4	**CPU Maximum Support to GUI**		
	Resolution support up to 4K x 2K H.265 resolution		
	Video Decoding capability up to 4K H.264 and H.265 video decode, 1080p multi-video decode		
	Display output up to 3840x2160		
5	**HDMI Compatibility**		
	HDMI support bandwidth up to 18Gbps , transmits 4k at 60Hz with 4:4:4 resolutions		
	HDMI support up to 32 audio channels , 1536kHz		
6	**Display Hardware**		

	Display Panel size 32" or better		
	IPS Screen Led Backlight with 10-Point Capacitive Touch Screen		
	Touch screen that has the ability to recognise and respond to ten simultaneous points of contact		
	Allow easily zoom, flick, rotate, swipe, drag, pinch, press, double tap or use other gestures with up to ten fingers on the screen at the same time		
	IUC Panel resolution Full HD or Better		
	IUC Panel viewing angle 89/89 degree		
	IUC Panel contrast ration 3000 or better		
	IUC Panel typical brightness rating range from 300 to 350 cd/m2		
	IUC Panel should have 16:9 aspect ratio		
7	Wifi : 802.11B/G/N		
8	Ethernet port 10M/100M		
9	Mic support Gooseneck type		
10	Speakers 3watt x 2nos.		
11	IUC Panel must be compatible to integrate with jail software, MIS tool, NIC, CCTNS and Court.		

9.1.15 Full Height Turnstile

S No.	Specification	Compliance (Yes/No)	Remarks
1	**Frame work of Turnstile**		
	SUS304 or SUS316 grade stainless steel		
	Thickness of sheet 1.5mm to 2mm or better		
	Arm Length 500mm to 700mm		
	Arm dia. 38mm to 48mm		
	Bi directional passage control		
	Maximum Tolerance of Arm 30kg to 40kg		
	Driving Force of Arm 3kg to 4kg		

	Driving motor Brushless DC motor		
2	**Communication Interface**		
	RS485 (1ch)		
	RS232 (3ch)		
	CAN BUS / Ethernet (Optional)		
	NO/NC mode		
	Control I/O Relay Out (6ch) / Level Input (4ch)		
3	Power Voltage AC 110v/220v, 50/60Hz		
4	Operation Voltage DC24v		
5	Operation Current 3A / 5A (Max)		
6	Working humidity for turnstile should be 0% ~ 90%		
7	Working environment for full height turnstile compatible for Indoor and Outdoor		
8	HF RFID max. speed of throughput (30 counts of HF RFID access control flow per minute) or better		
9	Fingerprint max. Speed of throughput (25 counts of fingerprint access control flow per minute) or better		
10	Face max. Speed of throughput (15 counts of face access control flow per minute) or better		
11	Vein max. Speed of throughput (15 counts of Vein access control per minute) or better		
12	Lane width(mm) 580mm		
13	Footprint (mm x mm) (1400mm x 1320 mm)		
14	Dimension (mm) (L=1400 x W=1320 x H= 2220)		
15	Led indicator should be there for movement		

	indication		
16	Barrier movement Rotating		
17	Emergency mode		
18	Security Level High		
19	MCBF – 2millions		
20	Ingress Protection IP54 rated or better		
21	Self Recovery mode		
22	Waterproof and Dustproof Design IP65 rated or better		

9.1.16 Vandal Proof (Metal) Industrial Grade – POS Canteen Kiosk

S No	Specification	Compliance (Yes/No)	Remarks
The Original Equipment Manufacturer of POS Canteen Kiosk should be an Indian, ISO-9001 Certified Company. Equipped with Touchscreen, Metal Keyboard & Trackball, Barcode Reader, Receipt Print Dispenser, High Frequency 13.25 Mifare RFID Reader and Fingerprint Reader			
1	**POS Operating System Support** Android/Windows/Linux		
2	**POS Display Size** 10 to 19 Inches or better		
3	**POS Display Resolution** 1024 x 768 or better		
4	**POS Display Type** LCD or LED		
5	**POS Sunlight Readability** 300 nits or better		
6	**POS Processor** Quad core with 1.3 ghz or more		
7	**POS RAM Size** 2gb to 4gb or better		
8	**POS Internal Storage Capacity** 16gb to 64gb		
9	**POS Connectivity Options** wifi/Ethernet		

10	**POS Wi-Fi Connectivity** 802.11a/b/g/n		
11	**Number of Bluetooth Connectivity** 3 Devices		
12	**Biometric Authentication Fingerprint** STQC certified		
13	**POS Resolution** 500dpi/256		
14	**POS Battery Capacity** 7000- 9000 mAH		
15	**POS Metal Keypad** Stainless steel 1.6 mm full qwerty with trackpad		
16	**POS RFID Card Reader** HF 13.25 mhz Mifare (encrypted - high security)		
17	**POS Receipt Dispenser** Thermal/dmp, 79.5 ± 0.5 (w) × dia. 83.0; 57.5 ± 0.5 (w) × dia. 83.0		
18	**POS Software client** Pre-installed		
19	**POS Body structure** SS 1.6 mm		
20	POS Machine must be compatible to integrate with jail software, MIS tool, NIC, CCTNS and Court.		

9.1.17 Hard Metal TCP/IP SOS Panic Button

S No.	Specification	Compliance (Yes/No)	Remarks
1	**Communication Mode** Full Duplex 2-Way Hands-Free Audio & Video Communication		
	Appliance Public, Vandal proof		
	Application Industrial Application		
	Master Station Caller Indicator Light With Audio & Video Communication System & Buzzer/Alarm		
	Connectivity Wired (RJ45) /Wireless		
	Battery Backup		

	Metal Push Button Waterproof, Dustproof, Stainless Steel 19mm Or more		
	Body Framework Robust Aluminium Alloy Die-Cast Or Stainless Steel SS304		
	Prison Management System Software Integration Support To Record And Manage The Alarm/Call Information		
2	**System Configurations**		
	Operating System Support Free RTOS/Linux kernel		
	Camera Resolution Full HD 1920x1080p		
	Image Sensor CMOS/ Progressive scan		
	IR Night vision view 10mtr		
	Video Compression M-JPEG		
	Audio bitrate 8k~48kbps		
	Video bitrate 32kbps~8mbps		
	SOS Processor 32bit Risc Arm processor		
	sRAM Size up to 192kb		
	Internal Flash Storage Capacity 1mb or better		
	Connectivity Ethernet/Bluetooth/LoRa		
	Mounting Type Flushed mount		

9.1.18 Vandal Proof POE Emergency IP Phone

S No.	Specification	Compliance (Yes/No)	Remarks

The Original Equipment Manufacturer of Vandal Proof POE Emergency IP Phone should be an Indian, ISO-9001 Certified Company. Vandal Proof (3-4 Mm Stainless Steel) Industrial Grade POE IP/Emergency Phone (Metal Keypad & Armoured Handset)			
1	**Communication Mode** VOIP, SIP 2.0		
2	**Appliance** Public, Vandal proof		
3	**Application** Industrial Application		
4	**Controller** Unified Communication Server		
5	**Programmable Autodial** Hot-Line Dialler		
6	**Dialling** DTMF		
7	**Audio Codes** G.711, G.722, G.729		
8	**Echo Cancellation Code** G.167/G.168		
9	**IP Protocols** IPV4, TCP, UDP, TFTP, RTP, RTCP,DHCP, SIP		
10	**Communication** Full duplex 2-way hands-free communication,		
11	**Call Control Signalling** VoIP sip info(DTMF), RFC 2833(DTMF)		
12	**Network** 10/100 Base tx Ethernet, rj45 connectors, cat5e or better appliance: - public, vandal proof		
13	**Handset** Heavy duty with hearing aid compatible receiver, noise cancelling microphone, industrial strong armoured cord		
14	**Connectivity** Wifi/Ethernet/POE		
15	**Wi-fi connectivity** 802.11a/b/g/n		
16	**Battery capacity** 3000- 7000 mAH or better		

17	**Mounting type** Surface mount		

9.1.19 Outdoor Turnstile Controller

S No.	Specification	Compliance (Yes/No)	Remarks
	The Original Equipment Manufacturer of Outdoor Turnstile Controller should be an Indian, ISO-9001 Certified Company. **Industrial Grade High Frequency 13.25 Mhz Mifare Encrypted RFID Reader, Fingerprint Biometric and Metal Keypad Based Turnstile Controller with Power backup equipped with Software for Access Control System**		
1	**Operating System** Android/Linux		
2	**Display Size** 7 to 14 Inches or better		
3	**Display Resolution** 1024 X 768 or better		
4	**Display Type** Touch		
5	**Sunlight Readability** 300 Nits or better		
6	**Processor** Quad Core - 1.3 Ghz Or More		
7	**Ram Size** 1 To 4gb or better		
8	**Internal Storage Capacity** 8 To 64gb or better		
9	**Connectivity** Wifi/Ethernet		
10	**Wi-Fi Connectivity** 802.11a/B/G/N		
11	**Biometric Authentication** Fingerprint - STQC Certified		
12	**Bluetooth Connectivity** 1 Device or more		
13	**Resolution** 500dpi/256 or better		

14	**Card Reader** HF 13.25 Mhz Mifare (Encrypted - High Security)		
15	**Battery Capacity** 7000- 9000 mAH or better		
16	**Body** SS 1.6 mm with Pc/Abs		
15	**Prison Management System Software Integration Support**		

9.1.20 Vandal Proof RFID/Biometric Attendance Machine

S No.	Specification	Compliance (Yes/No)	Remarks
	The Original Equipment Manufacturer of Vandal Proof RFID/Biometric Attendance Machine should be an Indian, ISO-9001 Certified Company. **Vandal Proof (Metal)-Outdoor (Industrial Grade) High Frequency 13.25 Mhz Mi fare Encrypted RFID Reader and Biometric Device for Duty Point Attendance System**		
1	**Operating System** Android/Linux		
2	**Display Size** 7 to 14 Inches or better		
3	**Display Resolution** 1024 X 768 or better		
4	**Display Type** Touch		
5	**Sunlight Readability** 300 Nits or better		
6	**Processor** Quad Core - 1.3 Ghz or more		
7	**Ram Size** 1 To 4gb or better		
8	**Internal Storage Capacity** 8 To 64gb or better		
9	**Connectivity** WIFI/Ethernet		
10	**Wi-Fi Connectivity** 802.11a/B/G/N		
11	**Biometric Authentication** Fingerprint - STQC Certified		

12	**Bluetooth Connectivity** 1 Device		
13	**Resolution** 500 DPi/256 or better		
14	**Card Reader** HF 13.25 Mhz Mifare (Encrypted - High Security)		
15	**Battery Capacity** 7000- 9000 mAH or better		
16	**Body** SS 1.6 mm with Pc/Abs		
15	**Prison Management System Software Integration Support**		

9.1.21 Outdoor Weatherproof IP Speaker

S No.	Specification	Compliance (Yes/No)	Remarks
The Original Equipment Manufacturer of Outdoor weatherproof IP Speaker should be an Indian, ISO-9001 Certified Company. Vandal Proof (Metal)-Outdoor (Industrial Grade) High Frequency 13.25 Mhz Mi fare Encrypted RFID Reader and Biometric Device for Duty Point Attendance System			
1	**Operating System** Android/Linux		
2	**Display Size** 7 to 14 Inches		
3	**Display Resolution** 1024 X 768		
4	**Display Type** Touch		
5	**Sunlight Readability** 300 Nits		
6	**Processor** Quad Core - 1.3 Ghz or more		
7	**Ram Size** 1 To 4gb		
8	**Internal Storage Capacity** 8 To 64gb		
9	**Connectivity** WIFI/Ethernet		

10	**Wi-Fi Connectivity** 802.11a/B/G/N		
11	**Biometric Authentication** Fingerprint - STQC Certified		
12	**Bluetooth Connectivity** 1 Device		
13	**Resolution** 500 DPi/256		
14	**Card Reader** HF 13.25 Mhz Mifare (Encrypted - High Security)		
15	**Battery Capacity** 7000- 9000 mAH		
16	**Body** SS 1.6 mm with Pc/Abs		
15	**Prison Management System Software Integration Support**		

9.1.22 Baggage Scanner 60x40

S No.	Specification	Compliance (Yes/No)	Remarks
The Original Equipment Manufacturer of X Ray Baggage Scanner should be an Indian, ISO-9001 Certified Company.			
1	**Production license from AERB should be submitted.**		
2	**The operating temperature should be -5° to 50° c.**		
3	**Tunnel size - 60 cm w (width) x 40 cm h (height)**		
4	**Conveyor belt speed is between 0.2 and 0.3 meter per second. Conveyor movement bi-directional. Conveyor capacity - 160 kg evenly distributed**		
5	**All machines operate on 230 vac, 50 hz power supply**		
6	**Through put is between 200 bags per hour**		
7	**Tube voltage :** 160kv.		
8	**Tube current** 0.3 to 1.2 ma **(must be adjustable)**		
9	**Duty cycle –** 100%		

10	**The x-ray beam divergence should be such that the complete image at maximum size of bag is displayed without corner cuts.**		
11	**The radiation level should not exceed accepted health standard (0.1m r/hr at a distance of 5 cm from external housing).**		
12	**Relative humidity 10 to 95% non-condensing**		
13	**Storage temperature - 20° to 60° c**		
14	**Resolution: the machine should be able to display single un-insulated tinned copper wire of 42-swg or 38-awg**		
15	**Steel penetration: 35 mm**		
16	**Sensors > 1000 diodes, l-shaped detector (folded array type)**		
15	**Video display -** 20" or better LCD monitor high resolution, low radiation, flicker free, resolution at least 1280x1024, 24 bit true color real time processing		
16	**Health & safety** - the machine must comply with requirements of health and safety regulations with regards to mechanical, electrical and radiation hazards		
17	**Film safety:** guaranteed safety for high speed films up to ISO 1600. The machines should be film safe. In other words photographic films must not be damaged due to x-ray examination		
18	**Machine should be properly sealed from all sides for pest proof. Dust proof cover is to be provided for covering when system is not in use.**		
19	**Control desk with security housing and locking provision should be available**		
20	**Lead impregnated safety screens should be available at either ends of the tunnel.**		
21	**If the machine fails to penetrate a particular item then an alarm video and audio both should be generated to notify the operator**		
22	**The Threat Image Projection (tip) system software to be incorporated in all x-bis operation**		
23	**Computer specification** • Processor: intel i3 or better, memory: 4gb ram, storage: 500gb, video card: 512mb graphic card • Backup: ups (10 min) for computer		

	Desired features • Multi energy imaging (4 color palette), black & white viewing, crystal clear images • Organic/ inorganic stripping, high penetration, edge enhancement, zoom 32 x or more, facility to view previous bag, manual image archive, configurable image processing keys, facility to count baggage, date /time display, have search indicator, machine should be capable of recalling 15 or more previous images • Have facility of High density alert (HDA) • Manual scan facility, automatic image archiving • Threat image projection (TIP) • CE certificate of the offered model to be provided along with the bid		
24	**Additional accessories** **Conveyor accessories (input/ output rollers) - 0.5 mtr length**		
25	**OEM of the offered products must have ISO 9001, ISO 45001, ISO 27001, & ISO 14001 certification.**		

9.1.23 Prison Management Software

S No.	Specification	Compliance (Yes/No)	Remarks
1	**Controlling and managing all equipment's with lifetime license more than 400+ devices**		
2	**Control digital pa system –** smart control and zoning feature		
3	**Control digital panic alarm button** – video call in case of any situation (e.g., medical emergency, inmate clash etc.)		
4	**Control efficient mulakat/interview system and to reduce visitor waiting period from 2-3 hours to 20-30 minutes by providing immediate response and tracking system.**		
5	**Control efficient hospital management system i.e., efficient work flow system which is currently not feasible in online/manual system in order to ensure 100% electronic record management of OPD, treatment details and dispensary etc.**		
6	**Control prisoner movement tracking with biometric**		

	identification & verification (fingerprints/ hand & earlobe geometries/ retina patterns/ voice prints/ written signatures etc.) For security and better control		
7	**Control automated & electronic lock-up and lock-out with real- time prisoner counting system.**		
8	**Control prison map with guard allocation and camera integration for better security and control considering current challenges of prison operation**		
9	**Control inbuilt duty allocation system (manual) with rich features**		
10	**Duty demarcation system which operates on id authentication and displaying the details of the person (authorize) making changes.**		
25	**Developer of the offered software must have ISO 9001, ISO 27001, & ISO 14001 , CMMIL3 certification.**		

9.1.24 Prison Inmate Calling System

S No.	Specification	Compliance (Yes/No)	Remarks
1	**Pics software & hardware terminal; by using this facility inmate can call their relatives/friends (numbers approved by prison administration) using their thumb impression**		
2	**Prisoner profiling**		
3	**Request for number approval**		
4	**Approval/rejection of any registration request**		
5	**Define limit for approved numbers**		
6	**Define limit of calls (e.g. daily/weekly/monthly etc.) As well as prisoner category wise(e.g. male/female/under-trials/convicts/civil/detente/condemned etc.)**		
7	**Biometrically identification of inmate on calling terminal, where they will get the following facilities:** a. Where they can know about their registered numbers b. Balance amount c. Number of minutes allowed for call d. Can call to registered number only e. Automatically balance deduction and invoicing as per call duration and charges		

	f. Historical call log		
8	**Call recording facility with listening and downloading feature**		
9	**Various call reports status-wise(e.g. dialed/completed/rejected/disconnected etc.)**		
10	**Terminal-wise call report**		
11	**Managed call history**		
12	**Call block/alert on specific call to prison administration**		

9.1.25 IP PBX System

S No.	Specification	Compliance (Yes/No)	Remarks
1	**Users** Unlimited		
2	**Max Concurrent Calls** 300 Concurrent Calls with G.711 Codec; 100 Concurrent Calls with G.729 Codec or better		
3	**FXS Ports : 1 or more**		
4	**FXO Ports : 1 or more**		
5	**Protocol** SIP (RFC3261), IAX2		
6	**Transport Protocol** UDP, TCP, TLS, SRTP		
7	**Codec** G711 (alaw/ulaw), G722, OPUS, AMR-NB/WB, SILK, G723.1 G726, G729, GSM, ADPCM, iLBC, H263, H263P, H264, VP8		
8	**DTMF** In-band, RFC2833, SIP INFO		
9	**LAN** 1* 10/100M		
10	**WAN** 1* 10/100M		
11	**IP Services** Static IP, DHCP, VPN, Firewall, PPPoE, Bridge		

12	**Recording** 86,000 mins (.gsm); 9,500 mins (.wav) or better		
13	**Firewall** Yes		
14	**T.38 Fax** **Yes**		
15	**External Storage** SD Card , up to 1288gb or better		
16	**USB :1**		
17	**MIC Interface : 1**		
18	**SPK Interface : 1**		
19	**Power Consumption** 12V/2.33A, 16W Max		
20	**Operating Temperature** 0°C to 50 °C		
21	**Storage Temperature** -20 °C ~ 65 °C		

9.1.26 42" LED Display

Features	Specification	Compliance (Yes/No)	Remarks
Display Size	• 42-inch FHD LED screen for display • Panel technology: IPS		
Support	Wall Mount & Table Mount		
Speaker	2 x 10W		
Socket	• USB: 2.0x1 • HDMI: 3 • LAN: 1 • RS 232 In • Built in Wi-Fi		
Features	• Internal memory: 8GB • USB Plug & Play		
Power Supply	• Voltage : 100-240V		
Certification	• EMC- FCC Class A / CE • Energy star		

9.1.27 Online 3 KVA UPS

S. No	Features	Specifications	Compliance (Yes/No)	Remarks
1	UPS Capacity	3 KVA On-Line UPS System with Inbuilt Isolation Transformer.		
2	Type	True On-Line Double Conversion UPS with PWM-IGBT technology.		
3	Power factor	3 KVA		
4	Input Voltage	Input: 160-280 V AC, UPS should have inbuilt 1 Phase, Type 2 surge arrester (50kA) and Lightning Protection device.		
5	Output Voltage	Output: 230 V AC, 1-phase ± 1% (Sine Wave Output), 50 Hz ± 0.05 Hz		
6	Frequency	Frequency Range (Synchronized Range): 47~ 53 Hz		
7		Frequency Range (Batt. Mode): 50 Hz ± 0.25 Hz		
8		Harmonic Distortion: o ≤ 3 % THD (Linear Load) o ≤ 6 % THD (Non-Linear Load)		
9	Isolation	UPS output should be fully isolated by double conversion and inbuilt isolation transformer within the UPS cabinet itself. External transformer shall not be		

		considered.		
10	Mode of Deployment	Active-Passive Mode Deployment		
11		Provides audio notification of changing utility power and UPS power conditions		
12		Periodic battery self-test ensures early detection of a battery that needs to be replaced		
13	Over-load	Auto over-load handling capacity		
14	Display	Digital LCD display for measurement of AC Voltage, Battery voltage, Battery Current, Load Current, Output frequency.		
15	Backup Time	The system must be capable of providing requisite battery back-up time of 1 hour using Sealed Maintenance Free Batteries.		
16	Battery Bank	Battery bank and VAH to be sized for 1-hour back-up on full resistive load		
17	Certification	CE Certification		
18		• ISO 9001, ISO 14001 Certified		
19		• Power Management from SNMP Manager and Web Browser		

9.1.28 Video Conference System

S. No	Features	Specifications	Compliance (Yes/No)	Remarks
1	CPU	24ITL6 Core I5-1135G7 or better, 8GB, DDR4 512GB SSD M.2 2280, Integrated Graphics, 23.8FHD AG 250n WLAN 2x2ax+Bt Black720p Camera Wireless • Win11 Home + • Office H&S 2021		
2	Video	1080p, 30fps, 78-degree FOV, H.264 UVC 1.1 / AVC, PTZ		
3	Audio	Omnidirectional mic pickup, 6ft mic pickup radius, Microphone bandwidth: 200Hz - 8kHz, Bandwidth: 220Hz - 20kHz, Max output level: 80vdB SPL @ 1ft (0.30 meters)		

9.1.29 Firewall

S No.	Features	Specifications	Compliance (Yes/No)	Remarks
1	Hardware Accelerated GE RJ45 WAN / DMZ Ports	1		
2	Hardware Accelerated GE RJ45 Internal Ports	3		
3	Hardware Accelerated GE RJ45 Forti Link Ports (Default)	1		
4	USB Ports	1		
5	Console Port (RJ45)	1		
6	IPS Throughput	1 Gbps		
7	NGFW Throughput	800 Mbps		
8	Threat Protection Throughput	600 Mbps		
9	IPv4 Firewall Throughput (1518 / 512 / 64 byte, UDP)	5 / 5 / 5 Gbps		

10	Firewall Latency (64 byte, UDP)	2.97 µs		
11	Firewall Throughput (Packet per Second)	7.5 Mpps		
12	Concurrent Sessions (TCP)	7,00,000		
13	New Sessions/Second (TCP)	35,000		
14	Firewall Policies	5000		
15	IPsec VPN Throughput (512 byte)	4.4 Gbps		
16	Gateway-to-Gateway IPsec VPN Tunnels	200		
17	Client-to-Gateway IPsec VPN Tunnels	250		
18	SSL-VPN Throughput	490 Mbps		
19	Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)	200		
20	SSL Inspection Throughput (IPS, avg. HTTPS)	310 Mbps		
21	SSL Inspection CPS (IPS, avg. HTTPS)	320		
22	SSL Inspection Concurrent Session (IPS, avg. HTTPS)	55,000		
23	Application Control Throughput (HTTP 64K)	990 Mbps		
24	CAPWAP Throughput (HTTP 64K)	3.5 Gbps		
25	Virtual Domains (Default / Maximum)	10 / 10		
26	Maximum Number of Forti Switches Supported	8		
27	Maximum Number of Forti APs (Total / Tunnel)	16 / 8		
28	Maximum Number of Forti Tokens	500		
29	High Availability Configurations	Active-Active, Active-Passive, Clustering		

9.1.30 Volte Gateway

S. No	Specifications	Compliance (Yes/No)	Remarks
1	Up to 16 GSM/WCDMA/LTE Channels		
2	1 SIM card per GSM/WCDMA/LTE channel		
3	2 10/100M LAN interfaces		
4	Up to 16 Standard SMA-K interfaces		
5	Storage temperature range: -20~70℃		
6	Operation temperature range: 0~40℃		
7	Operation humidity range: 10%~90% non-condensing		
8	Power source: 100-240V/1-2A		
9	Power Consumption: 46W		

Note:

Passive Items: Bidders have to quote all the passive items with accessories as per the requirement. There will be no parameter mentioned under passive items. The bidder is free to quote any one of the as per their choice.

The approved industry leading brands for passive items are: Dlink/ AMP/ Molex/ Finolex/ Vpro / Sterlite / Aksh/ Havells / RR Kabel/ Hyundai/ DECS/ KEI/ Equivalent

10 Annexures

10.1 Annexure I: Pre-Qualification Checklist

S. No.	Item	Complied (Yes/ No), Page No. of Bid	Remarks
1.	Bid Cover Letter as per Annexure-II		
2.	Bidders Profile as per Annexure-III		
3.	Self-attested certificate regarding blacklisting as per Annexure-IV		
4.	All pages of bid are numbered and Manually/Digitally signed by authorized signatory		
5.	Power of Attorney/Letter of Authorization		
6.	Proof of payment of EMD and Tender Document Fee		
7.	Copy of the Certificate of Incorporation and Certificate of Commencement of Business		
8.	Copy of PAN/TAN and GST		
9.	Proof of Turnover (As described in Pre-Qualification Criteria)		
10.	Proof of positive Net Worth (As described in Pre-Qualification Criteria)		
11.	Proof of Certifications (As described in Pre-Qualification Criteria)		
12.	Proof of Experience (As described in Pre-Qualification Criteria)		
13.	Undertaking on Total Responsibility as per Annexure-V		
14.	No Deviation Certificate as per Annexure-VI		

10.2 Annexure II: Bid Cover Letter

No. Date:

To,

The General Manager (Admin)

Odisha Computer Application Centre

(Technical Directorate of E&IT Dept, Govt. of Odisha)

N-1/7-D, Acharya Vihar P.O. - RRL, Bhubaneswar – 751013

Reference: Tender Number ……. Dated ……

Dear Sir/Madam,

Having examined Request For Proposal [*RFP number*] dated [*Insert RFP Date*], the receipt of which is hereby acknowledged, we, the undersigned, offer to provide services (as specified in the RFP) to put into operation the Project for "**Providing Smart Prison Solution On Single Platform For Video Surveillance, Access Control, IP Emergency Phone, IP Speaker, SOS And Complete Integration With Jail Software For Odisha Prison Department**", The Total Solution Bid Price is in accordance with the Price Schedules herewith made part of this bid.

We undertake, if our bid is accepted, to adhere to the timelines for roll-out of the project as outlined in this RFP.

We declare that we have studied the RFP and are making this proposal as specified in the RFP.

We also declare that we have studied the necessary locations and systems necessary for the development of this Technical and Commercial bid.

We have read the provisions of RFP and confirm that these are acceptable to us. All necessary clarifications sought for by us had been duly clarified in writing, by the OCAC.

We undertake, if our bid is accepted, to commence the work on the project immediately upon your Notification of Award to us, and to complete it within the time stated in the

Bidding Documents. We also understand that Bids with Commercial Values for solution entered in the Technical Proposal shall be summarily rejected.

If our bid is accepted, we undertake to provide a Performance Guarantee in the prescribed form and, for the amount, and within the times specified in the RFP.

We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the relevant laws against fraud and corruption in force in India.

We agree to abide by this bid, consisting of this letter, the Price Schedules, EMD, the Power of Attorney, and all the Annexure to this Bid Form, for the period of bid validity from the date fixed for submission of bids as stipulated in the RFP, and it shall remain binding upon us and may be accepted by you at any time before the expiration of that period.

We agree to abide by all the requirements prescribed in this bid document for the duration of the contract, if awarded to us.

Until the formal order is placed and final Contract is prepared and executed between us, this bid, together with your written acceptance of the bid (if provided) and your notification of award, shall be a binding contract on us.

Thanking you,

Yours faithfully

(Signature of the Authorized signatory of the Bidding Organization)

Name :
Designation :
Date :
Time :
Seal :
Business Address :

10.3 Annexure III: Bidder's Profile / Particular of Bidder

S. No.	Information Sought	Details to be Furnished
1.	Name and address of the bidding Company	
2.	Incorporation status of the firm (public limited / private limited, etc.)	
3.	Year of Establishment	
4.	Date of registration	
5.	ROC Reference No.	
6.	Details of company registration	
7.	Details of registration with appropriate authorities for GST	
8.	Name, Address, email, Phone nos. and Mobile Number of Contact Person	

10.4 Annexure IV: Self-Declaration regarding Non-Blacklisting

<To be submitted on the Letterhead of the responding agency>

To,

The General Manager (Admin)

Odisha Computer Application Centre

(Technical Directorate of E&IT Dept, Govt. of Odisha)

N-1/7-D, Acharya Vihar P.O. - RRL, Bhubaneswar – 751013

Reference: Tender Number ……. Dated ……

Subject: Self Declaration of not been blacklisted in response to the **Providing Smart Prison Solution On Single Platform For Video Surveillance, Access Control, IP Emergency Phone, IP Speaker, SOS And Complete Integration With Jail Software For Odisha Prison Department**

Dear Sir/Madam,

We confirm that our company, _____, is not blacklisted in any manner whatsoever by any of the State/UT and/or central government in India on any ground including but not limited to indulgence in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice.

(Signature of the Authorized signatory of the Bidding Organization)
Name :
Designation :
Date :
Time :
Seal :
Business Address :

Note: The Bidder shall necessarily provide a copy of 'Power of Attorney' authorizing the signatory for signing the Bid on behalf of the Bidder in its Pre-Qualification Bid.

10.5 Annexure V: Undertaking on Total Responsibility

<To be submitted on the Letterhead of the responding agency>

To,

The General Manager (Admin)

Odisha Computer Application Centre

(Technical Directorate of E&IT Dept, Govt. of Odisha)

N-1/7-D, Acharya Vihar P.O. - RRL, Bhubaneswar – 751013

Reference: Tender Number ……. Dated ……

Sub: Self certificate regarding Total Responsibility

Dear Sir/Madam,

This is to certify that we undertake total responsibility for the successful and defect free operation of the proposed Project solution, as per the requirements of the RFP for **Smart Prison Solution On Single Platform For Video Surveillance, Access Control, IP Emergency Phone, IP Speaker, SOS And Complete Integration With Jail Software For Odisha Prison Department**

(Signature of the Authorized signatory of the Bidding Organization)
Name :
Designation :
Date :
Time :
Seal :
Business Address :

10.6 Annexure VI: No-Deviation Certificate

<To be submitted on the Letterhead of the responding agency>

To,

The General Manager (Admin)

Odisha Computer Application Centre

(Technical Directorate of E&IT Dept, Govt. of Odisha) N-1/7-D, Acharya Vihar P.O. - RRL, Bhubaneswar – 751013

Reference: Tender Number ……. Dated ……

Sub: No Deviation Certificate

This is to certify that our offer is exactly in line with your tender enquiry/RFP (including amendments)

no. _____ dated _____. This is to expressly certify that our offer contains no deviation in either Technical or Commercial in either direct or indirect form.

(Signature of the Authorized signatory of the Bidding Organization)
Name :
Designation :
Date :
Time :
Seal :
Business Address :

10.7 Annexure VII: Format for Bank Guarantee

To,

The General Manager (Admin)

Odisha Computer Application Centre

(Technical Directorate of E&IT Dept, Govt. of Odisha)

N-1/7-D, Acharya Vihar P.O. - RRL, Bhubaneswar – 751013

Reference: Tender Number ……. Dated ……

Whereas …….. (Hereinafter called "the Bidder") has submitted its Bid dated..... (date of submission of Bid) for "**Providing Smart Prison Solution On Single Platform For Video Surveillance, Access Control, IP Emergency Phone, IP Speaker, SOS And Complete Integration With Jail Software For Odisha Prison Department**" in terms of the Tender No……. dated …….. issued by OCAC (hereinafter called "the Bid").

Whereas as per Clause 3.4 of the Bid, the Bidder is required to furnish a bank guarantee as Earnest Money Deposit from a scheduled commercial bank (Bank Guarantee).

In consideration of the fact that the Bidder is our valued customer and the fact that they have submitted the Bid, we, (name and address of the bank), (hereinafter called "the Guarantor Bank"), has agreed to bind ourselves, our successors, and assigns to irrevocably issue this Bank Guarantee and guarantee as under.

NOW THIS GUARANTEE WITNESSETH: -

1. **If the Bidder**
   a) Withdraws their Bid proposal during the period of Bid validity specified by the Bidder in the Proposal Cover Letter; or
   b) Having been notified of the acceptance of its Bid by the OCAC during the period of Bid Proposal validity:
      - fails or refuses to enter into the Contract; or
      - fails or refuses to furnish the performance guarantee, in accordance with the Terms of Reference of the Tender document issued to the Bidders.

2. The Guarantor Bank shall immediately on demand pay the OCAC, without any demur and without having to substantiate such demand a sum of Rs [*Amount in Number*] xxx [*Amount in Words*] only (*Guaranteed Amount*).
3. The Guarantor Bank will make the payment of the Guaranteed Amount forthwith on the demand made by the OCAC any objection or dispute that may exist or arise.
4. The demand of the OCAC on the Guarantor Bank for the payment of the Guaranteed Amount, shall be deemed as the final proof of fulfillment of the conditions stipulated in (1) above.
5. This Guarantee shall be irrevocable and shall not be discharged except by payment of the above amount by us to the OCAC and our liability under this Guarantee shall be restricted to the Guaranteed Amount being Rs [*Amount in Number*] xxx [*Amount in Words*] only.
6. If it is necessary to extend this Guarantee on account of any reason whatsoever, we undertake to extend the period of this Guarantee on the request of the Bidder under intimation to the OCAC.
7. To give full effect to the Guarantee contained herein, the OCAC shall be entitled to act as if the Guarantor Bank is the principal debtor in respect of claims against the Bidder and the Guarantor Bank hereby expressly waives all its rights of surety-ship and other rights, if any, which are in any way inconsistent with any of the provisions of this Guarantee.
8. Any notice by way of demand or otherwise may be sent by special courier, telex, fax, registered post or other electronic media to our address as aforesaid and if sent by post, shall be deemed to have been given to us after expiry of 48 hours when the same has been posted.
9. Our liability under this Guarantee will continue to exist until a demand is made by the OCAC in writing or up to and including One Hundred and Eighty (180) days after the period of the Bid Proposal validity, i.e. up to [*Insert date*], and any demand in respect thereof should reach the Bank not later than the above date

Dated …… this ……. Day ……..202X

Yours faithfully,

For and on behalf of the ……. Guarantor Bank,

(Signature) Designation

(Address and Common Seal of the bank)

11 Tech Forms

11.1 Tech Form I: Technical Proposal Letter

To,

The General Manager (Admin)

Odisha Computer Application Centre

(Technical Directorate of E&IT Dept, Govt. of Odisha)

N-1/7-D, Acharya Vihar P.O. - RRL, Bhubaneswar – 751013

Reference: Tender Number ……. Dated ……

Sub: Submission of the Technical bid for <Name of the Systems Implementation assignment>

Dear Sir/Madam,

We, the undersigned, offer to provide smart prison solutions to the OCAC on <Name of the Systems Implementation engagement> with your Request for Proposal dated <insert date> and our Proposal. We are hereby submitting our Proposal, which includes this technical bid uploaded at eNivida Portal.

We hereby declare that all the information and statements made in this technical bid are true and accept that any misinterpretation contained in it may lead to our disqualification.

We undertake, if our Proposal is accepted, to initiate the Implementation services related to the assignment not later than the date indicated in Fact Sheet.

We agree to abide by all the terms and conditions of the RFP document. We would hold the terms of our bid valid for 180 days as stipulated in the RFP document.

We hereby declare that we are not insolvent, in receivership, bankrupt or being wound up, our affairs are not being administered by a court or a judicial officer, our business activities have not been suspended and we are not the subject of legal proceedings for any of the foregoing.

We declare that this is our sole participation in this RFP bid and we are not participating/co-participating through any of other related party or channel.

We understand you are not bound to accept any Proposal you receive.

Thanking you,

Yours faithfully

(Signature of the Authorized signatory of the Bidding Organization)

Name :

Designation :

Date :

Time :

Seal :

Business Address:

11.2 Tech Form II: Unpriced Bill of Material (BoM)

Please fill the following BOM for all the offered components;

S. No.	Item Name	Qty	Make	Model	Product Brochure (Y/N)	MAF Submitted (Y/N)

Note: *Please attach technical specifications compliance sheet (on Bidder's letter head only) and provide reference number in this Table. (Deviations, if any, should be appropriately mentioned & highlighted in the compliance/ deviation column of the respective Compliance Table.*

11.3 Tech Form III: Proposed Solution

Technical approach, methodology and work plan are key components of the Technical Proposal. You are suggested to present Approach and Methodology divided into the following sections:

a) Understanding of the Project
b) Solution Proposed
c) Technical Approach and Methodology
d) Work Plan
e) Resource Deployment Plan
f) Operation & Management Plan

11.4 Tech Form IV: Proposed Work Plan

#	Activity	Calendar Months												
		1	2	3	4	5	6	7	8	9	10	11	12	n
1														
2														
3														
4														
5														
N														

11.5 Tech Form V: Team Composition

Name of Staff	Qualification	Experience	Area of Expertise	Position Assigned	Task Assigned

11.6 Tech Form VI: Technical Compliance Sheet

As per Technical & Functional specification given in section 9 of this RFP.

11.7 Tech Form VII: Undertaking on Authenticity of Equipments

(To be filled by the bidder (On Rs. 100/- Non-judicial stamp paper)

To,

The General Manager (Admin)

Odisha Computer Application Centre

(Technical Directorate of E&IT Dept, Govt. of Odisha) N-1/7-D, Acharya Vihar P.O. - RRL, Bhubaneswar – 751013

Reference: Tender Number ……. Dated ……

Sub: Undertaking on authenticity of equipments proposed

Sir/Madam

This has reference to the items being supplied/ quoted to you vide our bid ref. no. _____, we hereby undertake that all the components/ parts/ assembly/ software used in the equipment shall be genuine, original and new components /parts/ assembly/ software from respective OEMs of the products and that no refurbished/ duplicate/ second hand components/ parts/ assembly/ software are being used or shall be used. In respect of licensed operating system, we undertake that the same shall be supplied along with the authorized license certificate with our name/logo. Also, that it shall be sourced from the authorized source for use in India.

In case, we are found not complying with above at the time of delivery or during installation, for the equipment already billed, we agree to take back the equipment already supplied at our cost and return any amount paid to us by you in this regard and that you will have the right to forfeit our EMD/PBG for this bid or debar/ black list us or take suitable action against us.

(Signature of the Authorized signatory of the Bidding Organization)

Name :

Designation :

Date :

Time :

Seal :

Business Address :

12 Commercial Bid Format

To,

The General Manager (Admin)

Odisha Computer Application Centre

(Technical Directorate of E&IT Dept, Govt. of Odisha)

N-1/7-D, Acharya Vihar P.O. - RRL, Bhubaneswar – 751013

Reference: Tender Number ……. Dated ……

Dear Sir,

Having examined Request For Proposal [*RFP number*] dated [*Insert RFP Date*], the receipt of which is hereby acknowledged, we the undersigned, offer to quote the amount for delivery of services mentioned in the tender document.

We agree to abide by our offer for a period of 180 days from the last date of submission of commercial bid prescribed by OCAC 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. We do hereby undertake to provision as per these terms and conditions.

a) There are no commercial deviations.
b) There are no deviations from the terms and conditions of the tender.

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

Yours faithfully

(Signature of the Authorized signatory of the Bidding Organization)

Name :

Designation :

Date :

Time :

Seal :

Business Address:

12.1 Detailed Commercial Format – Item Wise Bifurcation (To be in company Letter head)

Sl. No.	Particulars	Make & Model Name	[A] Quantity	[B] Unit Price for the Equipment (INR)	[C] GST as Applicable Per Unit (INR)	Total Price Excluding GST (A*B)	Total Price Including GST A*(B + C)
1	S/E of PVC Pipe 25mm (Medium) Surface (UOM @ Meters)		12900				
2	S/E/T of CAT6 Cable (UOM @ Meters)		70500				
3	S/F of Heavy Duty flexible hose pipe 25mm (UOM @ Meters)		4150				
4	S/E of PVC Pipe 25mm (Heavy) Recessed (UOM @ Meters)		8150				
5	S/E of PVC Pipe 25mm (Heavy) Surface (UOM @ Meters)		5010				
6	S/E of PVC Trucking Channel 40 X 60 mm (UOM @ Meters)		2250				
7	S/E of PVC batten of size 25 mm x 16 mm (UOM @ Meters)		3100				

8	S/E of Heavy Duty HDPE PLB Duct OD40mm ,ID33 with inner silicon lubricant layer (UOM @ Meters)		18050				
9	Horizontal Digging and Drilling for HDPE Pipe and Optical fibre cable 3 mtrs. below ground level trenchless (UOM @ Meters)		18050				
10	S/E/T of 6 core armoured OFC (optical fibre cable) (UOM @ Meters)		20800				
11	S/E/T of CAT 6 armoured cable (UOM @ Meters)		2400				
12	S/E of 3 core, 2.50 sqmm copper conducter cable (UOM @ Meters)		14100				
13	S/I of Outdoor type 4" x 4" Enclosure		700				
14	S/I of Outdoor type 12"x12" Enclosure		14				
15	S/I/T/C of Voltage Stabilizer 220-110AC 1500		133				

16	S/I of Hot press moulded SMC junction box		168				
17	S/I/T/C of 2MP Fixed Dome IP Camera		206				
18	S/I/T/C of 2MP Fixed Bullet IP Camera		281				
19	S/I/T/C of 5MP Fixed Bullet IP Camera		80				
20	S/I/T/C of 5MP Motorized VF Bullet IP Camera		102				
21	S/I/T/C of 2MP 30X Optical zoom PTZ IP Camera		7				
22	S/I/T/C of 64CH Network Video Recorder Device 16HDD slots		14				
23	S/I/T/C of Main Database and video mgmt Server (n+n) (14nos. For Prison and 2nos. For Prison HQ)		14				
24	S/I/T/C of Commercial grade FHD 42" Display		28				
25	S/I/T/C of 12 Core OFC LIU Loaded		134				
26	S/I/T/C of Single mode SC Pigtail		1050				
27	S/I/T/C of Fiber Patch Cord SC-		270				

	LC & LC-LC (SM)						
28	S/I/T/C of GBIC-SFP LX (SM) Fiber Transceiver (1G)		270				
29	S/I/T/C of GBIC-SFP Module (10G)		28				
30	S/I/T/C of 24Port Network Switch - L3 Core - 10G		14				
31	S/I/T/C of 24 Port PoE Switch fully L2 Core		55				
32	S/I/T/C of 8-Port PoE Switch L2		107				
33	S/I/T/C of 9U Wall Mountable Network Rack		162				
34	S/I/T/C of 42U Server Rack		7				
35	S/I/T/C OF 10TB (24x7) HDD		206				
36	S/I/T/C OF 128GB Class10 SD Card		90				
37	S/I/T/C of IP PBX 250Channel		7				
38	S/I/T/C of Unified Communication Server		7				
39	S/I/T/C of Interactive unified Control Panel		14				
40	S/I/T/C of UPS 1KVA Online		133				
41	S/I/T/C of UPS 3KVA Online		14				

42	S/I/T/C of IP Phone		199				
43	S/I/T/C of HDMI Cable 10 mtr		42				
44	S/I/T of RJ45 Connector		6000				
45	S/I/T/C of IP-TV Broadcasting Device		72				
46	S/E/T/C of HDMI Splitter 1 to 8port		70				
47	S/E/T/C of HDMI Cable 1 mtr		740				
48	S/I/T/C of HDMI Extender		144				
49	S/I/T/C of Automatic Boom Barrier 6 mtr		7				
50	S/I/T/C of Full Height Turnstile Industrial Grade		35				
51	S/I/T/C of Industrial Grade Canteen Kiosk		21				
52	S/I/T/C of Hard Metal IP Based SOS Button		252				
53	S/I/T/C of Industrial Grade Emergency IP Phone		104				
54	S/I/T/C of Outdoor Turnstile Controller (Industrial Grade)		70				
55	S/I/T/C of Industrial Grade		113				

	RFID High Frequency						
56	S/I/T/C of Industrial Grade POE IP Speaker		254				
57	S/I/TC of IP Based Gooseneck Mic		14				
58	S/I/TC of GSM Gateway VoLTE		7				
59	S/I/T/C of License - Video Surveillance Devices		688				
60	S/I/T/C of License - Canteen Kiosk & Biometric Devices		179				
61	S/I/T/C of License - IP Phone & IP Speakers Devices		563				
62	S/I/T/C of License - SOS Button		262				
63	S/I/T/C of Video Conference System with License		14				
64	S/I/T/C Baggage Scanner 60X40CM Dual Energy Device		7				
65	S/I/T/C Prison Management Software		7				
66	S/I/T/C Prison Inmate Calling System		56				

67	S/I/T/C of Firewall Device with License 5 Yrs. (7nos. for Prison and 1no. for Prison HQ)		7				
68	S/I/T/C of Lightning Arrester and Earthing Provisioning		7				
69	S/I/T/C of Information Kiosk		7				
70	Security Audit		1				
71	Technical support call center services (16hours x 7days in a week , 8hours shifts with 3 seater) for 2 years after Go-live		1				
72	Onsite Technical engineer fulltime for each prison locations for 1 years after Go-live		7				
73	Bhubaneswar HQ Server		2				
74	Bhubaneswar HQ Firewall Device		1				
[A] Total Cost including GST for Complete Project(Including 7 prisons & HQ)=							
[B] AMC Charges for Third Year(Including 7 prisons & HQ)=							
[C] AMC Charges for Fourth Year(Including 7 prisons & HQ)=							
[D] AMC Charges for Fifth Year(Including 7 prisons & HQ)=							
[E] Technical Support Manpower 7 number (one at each prison) for 12 month for Second, Third, Fourth & Fifth Year (Submission format for this is mention in 12.4)=							

12.2 Detailed Commercial Format – PICS Charges

Sl. No.	Particulars	Unit price per call per minute (As per billed)
		Inclusive taxes
1	Prison Inmate calling system infrastructure maintenance charge per minutes for every call (Audio National Call)	
2	Prison Inmate calling system infrastructure maintenance charge per minutes for every call (Audio International Call)	
3	Prison Inmate calling system infrastructure maintenance charge per minutes for every call (Video Call National)	
4	Prison Inmate calling system infrastructure maintenance charge per minutes for every call (Video Call International)	
[F]Cost of Prison Inmate calling system infrastructure maintenance charge average calculated per call per minutes as per evaluation method explain in section 4.6		

12.3 Detailed Commercial Format – Supporting Manpower at each prison (for Second, Third, Fourth & Fifth Year)

S. No.	Resource Detail	Year	No Of Resource [A]	Unit Rate (Cost Per Month) per Month [B]	No of Months [C]	Total Cost T=(A*B*C)
1	Technical Engineer (1 at each Prison)	2nd	7		12	
2	Technical Engineer (1 at each Prison)	3rd	7		12	
3	Technical Engineer (1 at each Prison)	4th	7		12	

4	Technical Engineer (1 at each Prison)	5th	7		12	
[H]Cost of Supporting Manpower 7 number (one at each prison)=						

Note:

- ✓ All the above price would be in INR only, Including GST.
- ✓ The above price would include two-year warranty/ two year AMC.
- ✓ AMC charges for Third [B], Fourth[C] & Fifth [D] year are to be quoted separately.
- ✓ For the first year 1 supporting manpower will be provided by the bidder at each prison from Go live to up to one year.
- ✓ From second year onward up to 5 year (Yearly resource) to be quoted separately.
- ✓ The bidder has to compulsory quote for all items mentioned in the commercial bid tables. In case of bidder fails to quote for any of this stage, the bid would be summarily rejected.
- ✓ The tax rates will be mentioned as per standard.
- ✓ Quantity mentioned are as per estimation but this may change during the installation as per actual. The payment will be made as per actual.
- ✓ Cashless Canteen Online deposit transaction charges will be charge as actual charge by financial intuition/ bank, No extra charge should be deducted and this charge will be deducted from prisoner's deposit amount. It will be charged on total deposit amount on every transaction.
- ✓ For Financial Evaluation will be based upon [A] & [F] as per section 4.6.

Prison wise Item List

Bhubaneswar Jail

Sl. No.	Particulars	[A] Quantity
1	S/E of PVC Pipe 25mm (Medium) Surface (UOM @ Meters)	2100
2	S/E/T of CAT6 Cable (UOM @ Meters)	12000
3	S/F of Heavy Duty flexible hose pipe 25mm (UOM @ Meters)	700
4	S/E of PVC Pipe 25mm (Heavy) Recessed (UOM @ Meters)	1200
5	S/E of PVC Pipe 25mm (Heavy) Surface (UOM @ Meters)	900
6	S/E of PVC Trucking Channel 40 X 60 mm (UOM @ Meters)	400
7	S/E of PVC batten of size 25 mm x 16 mm (UOM @ Meters)	600
8	S/E of Heavy Duty HDPE PLB Duct OD40mm ,ID33 with inner silicon lubricant layer (UOM @ Meters)	3000
9	Horizontal Digging and Drilling for HDPE Pipe and Optical fibre cable 3 mtrs. below ground level trenchless (UOM @ Meters)	3000
10	S/E/T of 6 core armoured OFC (optical fibre cable) (UOM @ Meters)	3500
11	S/E/T of CAT 6 armoured cable (UOM @ Meters)	600
12	S/E of 3 core, 2.50 sqmm copper conducter cable (UOM @ Meters)	2100
13	S/I of Outdoor type 4" x 4" Enclosure	100
14	S/I of Outdoor type 12"x12" Enclosure	2
15	S/I/T/C of Voltage Stabilizer 220-110AC 1500	20

16	S/I of Hot press moulded SMC junction box	26
17	S/I/T/C of 2MP Fixed Dome IP Camera	30
18	S/I/T/C of 2MP Fixed Bullet IP Camera	40
19	S/I/T/C of 5MP Fixed Bullet IP Camera	10
20	S/I/T/C of 5MP Motorized VF Bullet IP Camera	14
21	S/I/T/C of 2MP 30X Optical zoom PTZ IP Camera	1
22	S/I/T/C of 64CH Network Video Recorder Device	2
23	S/I/T/C of Main Database and video mgmt Server (n+n)	2
24	S/I/T/C of Commercial grade FHD 43" Display	4
25	S/I/T/C of 12 Core OFC LIU Loaded	20
26	S/I/T/C of Single mode SC Pigtail	120
27	S/I/T/C of Fiber Patch Cord SC- LC & LC-LC (SM)	40
28	S/I/T/C of GBIC-SFP LX (SM) Fiber Transceiver (1G)	40
29	S/I/T/C of GBIC-SFP Module (10G)	4
30	S/I/T/C of 24Port Network Switch - L3 Core - 10G	2
31	S/I/T/C of 24 Port PoE Switch fully L2 Core	10
32	S/I/T/C of 8-Port PoE Switch L2	16
33	S/I/T/C of 9U Wall Mountable Network Rack	26
34	S/I/T/C of 42U Server Rack	1
35	S/I/T/C OF 10TB (24x7) HDD	30
36	S/I/T/C OF 128GB Class10 SD Card	10
37	S/I/T/C of IP PBX 250Channel	1
38	S/I/T/C of Unified Communication Server	1
39	S/I/T/C of Interactive unified Control Panel	2
40	S/I/T/C of UPS 1KVA Online	20
41	S/I/T/C of UPS 3KVA Online	2
42	S/I/T/C of IP Phone	30
43	S/I/T/C of HDMI Cable 10 mtr	6
44	S/I/T of RJ45 Connector	1000
45	S/I/T/C of IP-TV Broadcasting Device	10
46	S/E/T/C of HDMI Splitter 1 to 8port	10
47	S/E/T/C of HDMI Cable 1 mtr	100
48	S/I/T/C of HDMI Extender	20
49	S/I/T/C of Automatic Boom Barrier 6 mtr	1

50	S/I/T/C of Full Height Turnstile drop down	5
51	S/I/T/C of Industrial Grade Canteen Kiosk	3
52	S/I/T/C of Hard Metal IP Based SOS Button	30
53	S/I/T/C of Industrial Grade Emergency IP Phone	16
54	S/I/T/C of Outdoor Turnstile Controller (Industrial Grade)	10
55	S/I/T/C of Industrial Grade RFID High Frequency	15
56	S/I/T/C of Industrial Grade POE IP Speaker	35
57	S/I/TC of Digital Gooseneck Mic	2
58	S/I/TC of GSM Gateway VoLTE	1
59	S/I/T/C of License - Video Surveillance Devices	94
60	S/I/T/C of License - Canteen Kiosk & Biometric Devices	23
61	S/I/T/C of License - IP Phone & IP Speakers Devices	81
62	S/I/T/C of License - SOS Button	40
63	S/I/T/C of Video Conference System	2
64	S/I/T/C Baggage Scanner 60X40CM Dual Energy Device	1
65	S/I/T/C Prison Management Software	1
66	S/I/T/C Prison Inmate Calling System	8
67	S/I/T/C of Firewall Device	1
68	Lightning Arrester and Earthing Provisioning	1
69	S/I/T/C of Information Kiosk	1

District Jail Puri

Sl. No.	**Particulars**	**[A]** **Quantity**
1	S/E of PVC Pipe 25mm (Medium) Surface (UOM @ Meters)	1900

2	S/E/T of CAT6 Cable (UOM @ Meters)	9800
3	S/F of Heavy Duty flexible hose pipe 25mm (UOM @ Meters)	600
4	S/E of PVC Pipe 25mm (Heavy) Recessed (UOM @ Meters)	1300
5	S/E of PVC Pipe 25mm (Heavy) Surface (UOM @ Meters)	760
6	S/E of PVC Trucking Channel 40 X 60 mm (UOM @ Meters)	300
7	S/E of PVC batten of size 25 mm x 16 mm (UOM @ Meters)	400
8	S/E of Heavy Duty HDPE PLB Duct OD40mm ,ID33 with inner silicon lubricant layer (UOM @ Meters)	2500
9	Horizontal Digging and Drilling for HDPE Pipe and Optical fibre cable 3 mtrs. below ground level trenchless (UOM @ Meters)	2500
10	S/E/T of 6 core armoured OFC (optical fibre cable) (UOM @ Meters)	2800
11	S/E/T of CAT 6 armoured cable (UOM @ Meters)	300
12	S/E of 3 core, 2.50 sqmm copper conducter cable (UOM @ Meters)	2000
13	S/I of Outdoor type 4" x 4" Enclosure	100
14	S/I of Outdoor type 12"x12" Enclosure	2
15	S/I/T/C of Voltage Stabilizer 220-110AC 1500	18
16	S/I of Hot press moulded SMC junction box	22
17	S/I/T/C of 2MP Fixed Dome IP Camera	30
18	S/I/T/C of 2MP Fixed Bullet IP Camera	42
19	S/I/T/C of 5MP Fixed Bullet IP Camera	10
20	S/I/T/C of 5MP Motorized VF Bullet IP Camera	16
21	S/I/T/C of 2MP 30X Optical zoom PTZ IP Camera	1
22	S/I/T/C of 64CH Network Video Recorder Device	2
23	S/I/T/C of Main Database and video mgmt Server (n+n)	2
24	S/I/T/C of Commercial grade FHD 43" Display	4

25	S/I/T/C of 12 Core OFC LIU Loaded	19
26	S/I/T/C of Single mode SC Pigtail	200
27	S/I/T/C of Fiber Patch Cord SC- LC & LC-LC (SM)	38
28	S/I/T/C of GBIC-SFP LX (SM) Fiber Transceiver (1G)	38
29	S/I/T/C of GBIC-SFP Module (10G)	4
30	S/I/T/C of 24Port Network Switch - L3 Core - 10G	2
31	S/I/T/C of 24 Port PoE Switch fully L2 Core	8
32	S/I/T/C of 8-Port PoE Switch L2	15
33	S/I/T/C of 9U Wall Mountable Network Rack	23
34	S/I/T/C of 42U Server Rack	1
35	S/I/T/C OF 10TB (24x7) HDD	30
36	S/I/T/C OF 128GB Class10 SD Card	10
37	S/I/T/C of IP PBX 250Channel	1
38	S/I/T/C of Unified Communication Server	1
39	S/I/T/C of Interactive unified Control Panel	2
40	S/I/T/C of UPS 1KVA Online	18
41	S/I/T/C of UPS 3KVA Online	2
42	S/I/T/C of IP Phone	18
43	S/I/T/C of HDMI Cable 10 mtr	6
44	S/I/T of RJ45 Connector	800
45	S/I/T/C of IP-TV Broadcasting Device	12
46	S/E/T/C of HDMI Splitter 1 to 8port	10
47	S/E/T/C of HDMI Cable 1 mtr	120
48	S/I/T/C of HDMI Extender	20
49	S/I/T/C of Automatic Boom Barrier 6 mtr	1
50	S/I/T/C of Full Height Turnstile drop down	5
51	S/I/T/C of Industrial Grade Canteen Kiosk	3
52	S/I/T/C of Hard Metal IP Based SOS Button	40
53	S/I/T/C of Industrial Grade Emergency IP Phone	15
54	S/I/T/C of Outdoor Turnstile Controller (Industrial Grade)	10
55	S/I/T/C of Industrial Grade RFID High Frequency	18
56	S/I/T/C of Industrial Grade POE IP Speaker	38
57	S/I/TC of Digital Gooseneck Mic	2
58	S/I/TC of GSM Gateway VoLTE	1

59	S/I/T/C of License - Video Surveillance Devices	107
60	S/I/T/C of License - Canteen Kiosk & Biometric Devices	26
61	S/I/T/C of License - IP Phone & IP Speakers Devices	71
62	S/I/T/C of License - SOS Button	40
63	S/I/T/C of Video Conference System	2
64	S/I/T/C Baggage Scanner 60X40CM Dual Energy Device	1
65	S/I/T/C Prison Management Software	1
66	S/I/T/C Prison Inmate Calling System	8
67	S/I/T/C of Firewall Device	1
68	Lightning Arrester and Earthing Provisioning	1
69	S/I/T/C of Information Kiosk	1

Circle Jail Koraput

Sl. No.	**Particulars**	**[A]** **Quantity**
1	S/E of PVC Pipe 25mm (Medium) Surface (UOM @ Meters)	1900
2	S/E/T of CAT6 Cable (UOM @ Meters)	9000
3	S/F of Heavy Duty flexible hose pipe 25mm (UOM @ Meters)	600
4	S/E of PVC Pipe 25mm (Heavy) Recessed (UOM @ Meters)	1200
5	S/E of PVC Pipe 25mm (Heavy) Surface (UOM @ Meters)	800
6	S/E of PVC Trucking Channel 40 X 60 mm (UOM @ Meters)	300

7	S/E of PVC batten of size 25 mm x 16 mm (UOM @ Meters)	400
8	S/E of Heavy Duty HDPE PLB Duct OD40mm ,ID33 with inner silicon lubricant layer (UOM @ Meters)	2600
9	Horizontal Digging and Drilling for HDPE Pipe and Optical fibre cable 3 mtrs. below ground level trenchless (UOM @ Meters)	2600
10	S/E/T of 6 core armoured OFC (optical fibre cable) (UOM @ Meters)	2900
11	S/E/T of CAT 6 armoured cable (UOM @ Meters)	300
12	S/E of 3 core, 2.50 sqmm copper conducter cable (UOM @ Meters)	2000
13	S/I of Outdoor type 4" x 4" Enclosure	100
14	S/I of Outdoor type 12"x12" Enclosure	2
15	S/I/T/C of Voltage Stabilizer 220-110AC 1500	18
16	S/I of Hot press moulded SMC junction box	22
17	S/I/T/C of 2MP Fixed Dome IP Camera	28
18	S/I/T/C of 2MP Fixed Bullet IP Camera	40
19	S/I/T/C of 5MP Fixed Bullet IP Camera	12
20	S/I/T/C of 5MP Motorized VF Bullet IP Camera	14
21	S/I/T/C of 2MP 30X Optical zoom PTZ IP Camera	1
22	S/I/T/C of 64CH Network Video Recorder Device	2
23	S/I/T/C of Main Database and video mgmt Server (n+n)	2
24	S/I/T/C of Commercial grade FHD 43" Display	4
25	S/I/T/C of 12 Core OFC LIU Loaded	18
26	S/I/T/C of Single mode SC Pigtail	190
27	S/I/T/C of Fiber Patch Cord SC- LC & LC-LC (SM)	36
28	S/I/T/C of GBIC-SFP LX (SM) Fiber Transceiver (1G)	36
29	S/I/T/C of GBIC-SFP Module (10G)	4
30	S/I/T/C of 24Port Network Switch - L3 Core - 10G	2
31	S/I/T/C of 24 Port PoE Switch fully L2 Core	6
32	S/I/T/C of 8-Port PoE Switch L2	14
33	S/I/T/C of 9U Wall Mountable Network Rack	20

34	S/I/T/C of 42U Server Rack	1
35	S/I/T/C OF 10TB (24x7) HDD	30
36	S/I/T/C OF 128GB Class10 SD Card	10
37	S/I/T/C of IP PBX 250Channel	1
38	S/I/T/C of Unified Communication Server	1
39	S/I/T/C of Interactive unified Control Panel	2
40	S/I/T/C of UPS 1KVA Online	18
41	S/I/T/C of UPS 3KVA Online	2
42	S/I/T/C of IP Phone	30
43	S/I/T/C of HDMI Cable 10 mtr	6
44	S/I/T of RJ45 Connector	700
45	S/I/T/C of IP-TV Broadcasting Device	10
46	S/E/T/C of HDMI Splitter 1 to 8port	10
47	S/E/T/C of HDMI Cable 1 mtr	100
48	S/I/T/C of HDMI Extender	20
49	S/I/T/C of Automatic Boom Barrier 6 mtr	1
50	S/I/T/C of Full Height Turnstile drop down	5
51	S/I/T/C of Industrial Grade Canteen Kiosk	3
52	S/I/T/C of Hard Metal IP Based SOS Button	38
53	S/I/T/C of Industrial Grade Emergency IP Phone	12
54	S/I/T/C of Outdoor Turnstile Controller (Industrial Grade)	10
55	S/I/T/C of Industrial Grade RFID High Frequency	17
56	S/I/T/C of Industrial Grade POE IP Speaker	34
57	S/I/TC of Digital Gooseneck Mic	2
58	S/I/TC of GSM Gateway VoLTE	1
59	S/I/T/C of License - Video Surveillance Devices	98
60	S/I/T/C of License - Canteen Kiosk & Biometric Devices	30
61	S/I/T/C of License - IP Phone & IP Speakers Devices	82
62	S/I/T/C of License - SOS Button	38
63	S/I/T/C of Video Conference System	2
64	S/I/T/C Baggage Scanner 60X40CM Dual Energy Device	1
65	S/I/T/C Prison Management Software	1

66	S/I/T/C Prison Inmate Calling System	8
67	S/I/T/C of Firewall Device	1
68	Lightning Arrester and Earthing Provisioning	1
69	S/I/T/C of Information Kiosk	1

Circle Jail Baripada

Sl. No.	**Particulars**	**[A]** **Quantity**
1	S/E of PVC Pipe 25mm (Medium) Surface (UOM @ Meters)	2000
2	S/E/T of CAT6 Cable (UOM @ Meters)	10000
3	S/F of Heavy Duty flexible hose pipe 25mm (UOM @ Meters)	500
4	S/E of PVC Pipe 25mm (Heavy) Recessed (UOM @ Meters)	1200
5	S/E of PVC Pipe 25mm (Heavy) Surface (UOM @ Meters)	700
6	S/E of PVC Trucking Channel 40 X 60 mm (UOM @ Meters)	300
7	S/E of PVC batten of size 25 mm x 16 mm (UOM @ Meters)	400
8	S/E of Heavy Duty HDPE PLB Duct OD40mm ,ID33 with inner silicon lubricant layer (UOM @ Meters)	2500
9	Horizontal Digging and Drilling for HDPE Pipe and Optical fibre cable 3 mtrs. below ground level trenchless (UOM @ Meters)	2500
10	S/E/T of 6 core armoured OFC (optical fibre cable) (UOM @ Meters)	2900

11	S/E/T of CAT 6 armoured cable (UOM @ Meters)	300
12	S/E of 3 core, 2.50 sqmm copper conducter cable (UOM @ Meters)	1900
13	S/I of Outdoor type 4" x 4" Enclosure	100
14	S/I of Outdoor type 12"x12" Enclosure	2
15	S/I/T/C of Voltage Stabilizer 220-110AC 1500	18
16	S/I of Hot press moulded SMC junction box	22
17	S/I/T/C of 2MP Fixed Dome IP Camera	28
18	S/I/T/C of 2MP Fixed Bullet IP Camera	39
19	S/I/T/C of 5MP Fixed Bullet IP Camera	12
20	S/I/T/C of 5MP Motorized VF Bullet IP Camera	12
21	S/I/T/C of 2MP 30X Optical zoom PTZ IP Camera	1
22	S/I/T/C of 64CH Network Video Recorder Device	2
23	S/I/T/C of Main Database and video mgmt Server (n+n)	2
24	S/I/T/C of Commercial grade FHD 43" Display	4
25	S/I/T/C of 12 Core OFC LIU Loaded	18
26	S/I/T/C of Single mode SC Pigtail	140
27	S/I/T/C of Fiber Patch Cord SC- LC & LC-LC (SM)	36
28	S/I/T/C of GBIC-SFP LX (SM) Fiber Transceiver (1G)	36
29	S/I/T/C of GBIC-SFP Module (10G)	4
30	S/I/T/C of 24Port Network Switch - L3 Core - 10G	2
31	S/I/T/C of 24 Port PoE Switch fully L2 Core	6
32	S/I/T/C of 8-Port PoE Switch L2	14
33	S/I/T/C of 9U Wall Mountable Network Rack	20
34	S/I/T/C of 42U Server Rack	1
35	S/I/T/C OF 10TB (24x7) HDD	28
36	S/I/T/C OF 128GB Class10 SD Card	10
37	S/I/T/C of IP PBX 250Channel	1
38	S/I/T/C of Unified Communication Server	1
39	S/I/T/C of Interactive unified Control Panel	2
40	S/I/T/C of UPS 1KVA Online	18
41	S/I/T/C of UPS 3KVA Online	2
42	S/I/T/C of IP Phone	30

43	S/I/T/C of HDMI Cable 10 mtr	6
44	S/I/T of RJ45 Connector	800
45	S/I/T/C of IP-TV Broadcasting Device	8
46	S/E/T/C of HDMI Splitter 1 to 8port	8
47	S/E/T/C of HDMI Cable 1 mtr	100
48	S/I/T/C of HDMI Extender	20
49	S/I/T/C of Automatic Boom Barrier 6 mtr	1
50	S/I/T/C of Full Height Turnstile drop down	5
51	S/I/T/C of Industrial Grade Canteen Kiosk	3
52	S/I/T/C of Hard Metal IP Based SOS Button	38
53	S/I/T/C of Industrial Grade Emergency IP Phone	14
54	S/I/T/C of Outdoor Turnstile Controller (Industrial Grade)	10
55	S/I/T/C of Industrial Grade RFID High Frequency	17
56	S/I/T/C of Industrial Grade POE IP Speaker	38
57	S/I/TC of Digital Gooseneck Mic	2
58	S/I/TC of GSM Gateway VoLTE	1
59	S/I/T/C of License - Video Surveillance Devices	92
60	S/I/T/C of License - Canteen Kiosk & Biometric Devices	30
61	S/I/T/C of License - IP Phone & IP Speakers Devices	82
62	S/I/T/C of License - SOS Button	38
63	S/I/T/C of Video Conference System	2
64	S/I/T/C Baggage Scanner 60X40CM Dual Energy Device	1
65	S/I/T/C Prison Management Software	1
66	S/I/T/C Prison Inmate Calling System	8
67	S/I/T/C of Firewall Device	1
68	Lightning Arrester and Earthing Provisioning	1
69	S/I/T/C of Information Kiosk	1

Circle Prison Berhampur

Sl. No.	Particulars	[A] Quantity
1	S/E of PVC Pipe 25mm (Medium) Surface (UOM @ Meters)	1900
2	S/E/T of CAT6 Cable (UOM @ Meters)	11000
3	S/F of Heavy Duty flexible hose pipe 25mm (UOM @ Meters)	650
4	S/E of PVC Pipe 25mm (Heavy) Recessed (UOM @ Meters)	1150
5	S/E of PVC Pipe 25mm (Heavy) Surface (UOM @ Meters)	750
6	S/E of PVC Trucking Channel 40 X 60 mm (UOM @ Meters)	350
7	S/E of PVC batten of size 25 mm x 16 mm (UOM @ Meters)	400
8	S/E of Heavy Duty HDPE PLB Duct OD40mm ,ID33 with inner silicon lubricant layer (UOM @ Meters)	2450
9	Horizontal Digging and Drilling for HDPE Pipe and Optical fibre cable 3 mtrs. below ground level trenchless (UOM @ Meters)	2450
10	S/E/T of 6 core armoured OFC (optical fibre cable) (UOM @ Meters)	2900
11	S/E/T of CAT 6 armoured cable (UOM @ Meters)	300
12	S/E of 3 core, 2.50 sqmm copper conducter cable (UOM @ Meters)	2000
13	S/I of Outdoor type 4" x 4" Enclosure	100
14	S/I of Outdoor type 12"x12" Enclosure	2
15	S/I/T/C of Voltage Stabilizer 220-110AC 1500	19

16	S/I of Hot press moulded SMC junction box	26
17	S/I/T/C of 2MP Fixed Dome IP Camera	32
18	S/I/T/C of 2MP Fixed Bullet IP Camera	42
19	S/I/T/C of 5MP Fixed Bullet IP Camera	14
20	S/I/T/C of 5MP Motorized VF Bullet IP Camera	16
21	S/I/T/C of 2MP 30X Optical zoom PTZ IP Camera	1
22	S/I/T/C of 64CH Network Video Recorder Device 16HDD slots	2
23	S/I/T/C of Main Database and video mgmt Server (n+n)	2
24	S/I/T/C of Commercial grade FHD 42" Display	4
25	S/I/T/C of 12 Core OFC LIU Loaded	19
26	S/I/T/C of Single mode SC Pigtail	120
27	S/I/T/C of Fiber Patch Cord SC- LC & LC-LC (SM)	40
28	S/I/T/C of GBIC-SFP LX (SM) Fiber Transceiver (1G)	40
29	S/I/T/C of GBIC-SFP Module (10G)	4
30	S/I/T/C of 24Port Network Switch - L3 Core - 10G	2
31	S/I/T/C of 24 Port PoE Switch fully L2 Core	7
32	S/I/T/C of 8-Port PoE Switch L2	16
33	S/I/T/C of 9U Wall Mountable Network Rack	23
34	S/I/T/C of 42U Server Rack	1
35	S/I/T/C OF 10TB (24x7) HDD	28
36	S/I/T/C OF 128GB Class10 SD Card	30
37	S/I/T/C of IP PBX 250Channel	1
38	S/I/T/C of Unified Communication Server	1
39	S/I/T/C of Interactive unified Control Panel	2
40	S/I/T/C of UPS 1KVA Online	19
41	S/I/T/C of UPS 3KVA Online	2
42	S/I/T/C of IP Phone	31
43	S/I/T/C of HDMI Cable 10 mtr	6
44	S/I/T of RJ45 Connector	900
45	S/I/T/C of IP-TV Broadcasting Device	12
46	S/E/T/C of HDMI Splitter 1 to 8port	12
47	S/E/T/C of HDMI Cable 1 mtr	100
48	S/I/T/C of HDMI Extender	24

49	S/I/T/C of Automatic Boom Barrier 6 mtr	1
50	S/I/T/C of Full Height Turnstile drop down	5
51	S/I/T/C of Industrial Grade Canteen Kiosk	3
52	S/I/T/C of Hard Metal IP Based SOS Button	36
53	S/I/T/C of Industrial Grade Emergency IP Phone	16
54	S/I/T/C of Outdoor Turnstile Controller (Industrial Grade)	10
55	S/I/T/C of Industrial Grade RFID High Frequency	16
56	S/I/T/C of Industrial Grade POE IP Speaker	39
57	S/I/TC of IP Based Gooseneck Mic	2
58	S/I/TC of GSM Gateway VoLTE	1
59	S/I/T/C of License - Video Surveillance Devices	100
60	S/I/T/C of License - Canteen Kiosk & Biometric Devices	24
61	S/I/T/C of License - IP Phone & IP Speakers Devices	86
62	S/I/T/C of License - SOS Button	36
63	S/I/T/C of Video Conference System with License	2
64	S/I/T/C Baggage Scanner 60X40CM Dual Energy Device	1
65	S/I/T/C Prison Management Software	1
66	S/I/T/C Prison Inmate Calling System	8
67	S/I/T/C of Firewall Device with License 5 Yrs	1
68	S/I/T/C of Lightning Arrester and Earthing Provisioning	1
69	S/I/T/C of Information Kiosk	1

Circle Prison Chaudwar

Sl. No.	Particulars	[A] Quantity
1	S/E of PVC Pipe 25mm (Medium) Surface (UOM @ Meters)	1600
2	S/E/T of CAT6 Cable (UOM @ Meters)	9700
3	S/F of Heavy Duty flexible hose pipe 25mm (UOM @ Meters)	600
4	S/E of PVC Pipe 25mm (Heavy) Recessed (UOM @ Meters)	1200
5	S/E of PVC Pipe 25mm (Heavy) Surface (UOM @ Meters)	600
6	S/E of PVC Trucking Channel 40 X 60 mm (UOM @ Meters)	300
7	S/E of PVC batten of size 25 mm x 16 mm (UOM @ Meters)	500
8	S/E of Heavy Duty HDPE PLB Duct OD40mm ,ID33 with inner silicon lubricant layer (UOM @ Meters)	2600
9	Horizontal Digging and Drilling for HDPE Pipe and Optical fibre cable 3 mtrs. below ground level trenchless (UOM @ Meters)	2600
10	S/E/T of 6 core armoured OFC (optical fibre cable) (UOM @ Meters)	3000
11	S/E/T of CAT 6 armoured cable (UOM @ Meters)	300
12	S/E of 3 core, 2.50 sqmm copper conducter cable (UOM @ Meters)	2100
13	S/I of Outdoor type 4" x 4" Enclosure	100
14	S/I of Outdoor type 12"x12" Enclosure	2
15	S/I/T/C of Voltage Stabilizer 220-110AC 1500	20

16	S/I of Hot press moulded SMC junction box	28
17	S/I/T/C of 2MP Fixed Dome IP Camera	30
18	S/I/T/C of 2MP Fixed Bullet IP Camera	40
19	S/I/T/C of 5MP Fixed Bullet IP Camera	14
20	S/I/T/C of 5MP Motorized VF Bullet IP Camera	16
21	S/I/T/C of 2MP 30X Optical zoom PTZ IP Camera	1
22	S/I/T/C of 64CH Network Video Recorder Device 16HDD slots	2
23	S/I/T/C of Main Database and video mgmt Server (n+n)	2
24	S/I/T/C of Commercial grade FHD 42" Display	4
25	S/I/T/C of 12 Core OFC LIU Loaded	20
26	S/I/T/C of Single mode SC Pigtail	140
27	S/I/T/C of Fiber Patch Cord SC- LC & LC-LC (SM)	40
28	S/I/T/C of GBIC-SFP LX (SM) Fiber Transceiver (1G)	40
29	S/I/T/C of GBIC-SFP Module (10G)	4
30	S/I/T/C of 24Port Network Switch - L3 Core - 10G	2
31	S/I/T/C of 24 Port PoE Switch fully L2 Core	10
32	S/I/T/C of 8-Port PoE Switch L2	16
33	S/I/T/C of 9U Wall Mountable Network Rack	26
34	S/I/T/C of 42U Server Rack	1
35	S/I/T/C OF 10TB (24x7) HDD	30
36	S/I/T/C OF 128GB Class10 SD Card	10
37	S/I/T/C of IP PBX 250Channel	1
38	S/I/T/C of Unified Communication Server	1
39	S/I/T/C of Interactive unified Control Panel	2
40	S/I/T/C of UPS 1KVA Online	20
41	S/I/T/C of UPS 3KVA Online	2
42	S/I/T/C of IP Phone	30
43	S/I/T/C of HDMI Cable 10 mtr	6
44	S/I/T of RJ45 Connector	1000
45	S/I/T/C of IP-TV Broadcasting Device	10
46	S/E/T/C of HDMI Splitter 1 to 8port	10
47	S/E/T/C of HDMI Cable 1 mtr	120
48	S/I/T/C of HDMI Extender	20

49	S/I/T/C of Automatic Boom Barrier 6 mtr	1
50	S/I/T/C of Full Height Turnstile drop down	5
51	S/I/T/C of Industrial Grade Canteen Kiosk	3
52	S/I/T/C of Hard Metal IP Based SOS Button	35
53	S/I/T/C of Industrial Grade Emergency IP Phone	15
54	S/I/T/C of Outdoor Turnstile Controller (Industrial Grade)	10
55	S/I/T/C of Industrial Grade RFID High Frequency	15
56	S/I/T/C of Industrial Grade POE IP Speaker	35
57	S/I/TC of IP Based Gooseneck Mic	2
58	S/I/TC of GSM Gateway VoLTE	1
59	S/I/T/C of License - Video Surveillance Devices	100
60	S/I/T/C of License - Canteen Kiosk & Biometric Devices	23
61	S/I/T/C of License - IP Phone & IP Speakers Devices	80
62	S/I/T/C of License - SOS Button	35
63	S/I/T/C of Video Conference System with License	2
64	S/I/T/C Baggage Scanner 60X40CM Dual Energy Device	1
65	S/I/T/C Prison Management Software	1
66	S/I/T/C Prison Inmate Calling System	8
67	S/I/T/C of Firewall Device with License 5 Yrs	1
68	S/I/T/C of Lightning Arrester and Earthing Provisioning	1
69	S/I/T/C of Information Kiosk	1

Circle Prison Sambalpur

Sl. No.	Particulars	[A] Quantity
1	S/E of PVC Pipe 25mm (Medium) Surface (UOM @ Meters)	1500
2	S/E/T of CAT6 Cable (UOM @ Meters)	9000
3	S/F of Heavy Duty flexible hose pipe 25mm (UOM @ Meters)	500
4	S/E of PVC Pipe 25mm (Heavy) Recessed (UOM @ Meters)	900
5	S/E of PVC Pipe 25mm (Heavy) Surface (UOM @ Meters)	500
6	S/E of PVC Trucking Channel 40 X 60 mm (UOM @ Meters)	300
7	S/E of PVC batten of size 25 mm x 16 mm (UOM @ Meters)	400
8	S/E of Heavy Duty HDPE PLB Duct OD40mm ,ID33 with inner silicon lubricant layer (UOM @ Meters)	2400
9	Horizontal Digging and Drilling for HDPE Pipe and Optical fibre cable 3 mtrs. below ground level trenchless (UOM @ Meters)	2400
10	S/E/T of 6 core armoured OFC (optical fibre cable) (UOM @ Meters)	2800
11	S/E/T of CAT 6 armoured cable (UOM @ Meters)	300
12	S/E of 3 core, 2.50 sqmm copper conducter cable (UOM @ Meters)	2000
13	S/I of Outdoor type 4" x 4" Enclosure	100
14	S/I of Outdoor type 12"x12" Enclosure	2
15	S/I/T/C of Voltage Stabilizer 220-110AC 1500	20

16	S/I of Hot press moulded SMC junction box	22
17	S/I/T/C of 2MP Fixed Dome IP Camera	28
18	S/I/T/C of 2MP Fixed Bullet IP Camera	38
19	S/I/T/C of 5MP Fixed Bullet IP Camera	8
20	S/I/T/C of 5MP Motorized VF Bullet IP Camera	14
21	S/I/T/C of 2MP 30X Optical zoom PTZ IP Camera	1
22	S/I/T/C of 64CH Network Video Recorder Device 16HDD slots	2
23	S/I/T/C of Main Database and video mgmt Server (n+n) (14nos. For Prison and 2nos. For Prison HQ)	2
24	S/I/T/C of Commercial grade FHD 42" Display	4
25	S/I/T/C of 12 Core OFC LIU Loaded	20
26	S/I/T/C of Single mode SC Pigtail	140
27	S/I/T/C of Fiber Patch Cord SC- LC & LC-LC (SM)	40
28	S/I/T/C of GBIC-SFP LX (SM) Fiber Transceiver (1G)	40
29	S/I/T/C of GBIC-SFP Module (10G)	4
30	S/I/T/C of 24Port Network Switch - L3 Core - 10G	2
31	S/I/T/C of 24 Port PoE Switch fully L2 Core	8
32	S/I/T/C of 8-Port PoE Switch L2	16
33	S/I/T/C of 9U Wall Mountable Network Rack	24
34	S/I/T/C of 42U Server Rack	1
35	S/I/T/C OF 10TB (24x7) HDD	30
36	S/I/T/C OF 128GB Class10 SD Card	10
37	S/I/T/C of IP PBX 250Channel	1
38	S/I/T/C of Unified Communication Server	1
39	S/I/T/C of Interactive unified Control Panel	2
40	S/I/T/C of UPS 1KVA Online	20
41	S/I/T/C of UPS 3KVA Online	2
42	S/I/T/C of IP Phone	30
43	S/I/T/C of HDMI Cable 10 mtr	6
44	S/I/T of RJ45 Connector	800
45	S/I/T/C of IP-TV Broadcasting Device	10
46	S/E/T/C of HDMI Splitter 1 to 8port	10
47	S/E/T/C of HDMI Cable 1 mtr	100
48	S/I/T/C of HDMI Extender	20

49	S/I/T/C of Automatic Boom Barrier 6 mtr	1
50	S/I/T/C of Full Height Turnstile drop down	5
51	S/I/T/C of Industrial Grade Canteen Kiosk	3
52	S/I/T/C of Hard Metal IP Based SOS Button	35
53	S/I/T/C of Industrial Grade Emergency IP Phone	16
54	S/I/T/C of Outdoor Turnstile Controller (Industrial Grade)	10
55	S/I/T/C of Industrial Grade RFID High Frequency	15
56	S/I/T/C of Industrial Grade POE IP Speaker	35
57	S/I/TC of IP Based Gooseneck Mic	2
58	S/I/TC of GSM Gateway VoLTE	1
59	S/I/T/C of License - Video Surveillance Devices	97
60	S/I/T/C of License - Canteen Kiosk & Biometric Devices	23
61	S/I/T/C of License - IP Phone & IP Speakers Devices	81
62	S/I/T/C of License - SOS Button	35
63	S/I/T/C of Video Conference System with License	2
64	S/I/T/C Baggage Scanner 60X40CM Dual Energy Device	1
65	S/I/T/C Prison Management Software	1
66	S/I/T/C Prison Inmate Calling System	8
67	S/I/T/C of Firewall Device with License 5 Yrs (7nos. for Prison and 1no. for Prison HQ)	1
68	S/I/T/C of Lightning Arrester and Earthing Provisioning	1
69	S/I/T/C of Information Kiosk	1