



Odisha Police

Website: www.odishapolice.gov.in

Bid Reference No. 02-AFIS-RQT-RFP-2023-24 dtd.14.07.2023

**E-TENDER DOCUMENT
PS AFIS Up-graded version of AFIS (AFPIS) Software
for District RQT**

**A.I.G. of Police (Provisioning)
Tender Calling Authority
At/Po- Buxibazar, Cuttack, PIN – 753001
Tel./Fax No.0671-2304001,
Email – sphqrs.orpol@nic.in**

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NOTICE INVITING BID

Odisha Police

Office of the D.G & I.G. of Police, Odisha, Cuttack

Tel. :0671-2304001, Website : www.odishapolice.gov.in, Email : sphqrs.orpol@nic.in

RFP No. 02-AFIS-RQT-RFP-2023-24 /dtd. 14.07.2023

Online Bids through e-Tender Portal <https://tendersodisha.gov.in> are invited from the eligible bidders for purchase of **Up-graded version of AFIS (AFPIS) Software for District RQT (SCRB)** during the current financial year 2023-24 as per the particulars mentioned below.

Sl. No.	Name of Item	Approximate quantity
1.	Up-graded version of AFIS (AFPIS) Software for District RQT	08 nos.

Sl. No.	Particulars	Date	Time
1	Date & Time of release of bid	14.07.2023	10:00 AM
2.	Date & Time of Pre Bid meeting	24.07.2023, 12:30 PM Venue _ O/o the SCRБ, Rasulgarh, Bhubaneswar	
3	Publication of Corrigendum to RFP (if any) in the website	27.07.2023	11:30 AM
4	Date & Time of online bid submission	Start Date & Time 27.07.2023, 10:00 AM	End date & Time 17.08.2023, 5:00 PM
5	Date & Time for online Technical bid opening	18.07.2023, 5:00 PM	
6	Date of presentation of solution of e-tender / Technical Bid evaluation	To be informed to the participated bidders	
7	Date of Price bid opening	To be informed to the qualified bidders.	

The bid document with all information relating to the bidding process including cost of bid document, Prequalification criteria and terms & conditions are available in the websites: www.odishapolice.gov.in and <https://tendersodisha.gov.in> The Authority reserves the right to accept / reject any part thereof or all the bids without assigning any reason thereof.

**A.I.G. of Police (Provisioning,
Odisha, Cuttack.
(Tender Calling Authority)**

SECTION I
INSTRUCTION TO BIDDERS

- 1.1 **The Odisha Police –Odisha Police** (Tender Inviting Authority) is a Govt. organization working under Home Department, Govt. of Odisha.
- 1.2 This ‘Bid Document’ contains the following:
- Section I: Instruction to bidders
 - Section II: General Definitions and Scope of Contract.
 - Section III: Tender Schedule
 - Section IV: Specific Conditions of Contract
 - Section V: General Conditions of Contract
 - Section VI: Formats for bidder for Submission of Bid (Technical bid)
 - Section VII: Annexes [Formats for the successful bidder (Supplier) after finalization of bid]
- 1.3 The bid documents published by the Bid Inviting Officer (Procurement Officer Publisher) in the **e-procurement portal** <https://tendersodisha.gov.in> will appear in the “**Latest Active Tender**”. The Bidders/ Guest Users can download the Bid documents from **14.07.2023** and submit it online from **27.07.2023, 10.00AM** to **17.08.2023, 5.00 PM** after which the same will be removed from the list of “**Latest Active Tender**”. The bid document is also available at website: www.odishapolice.gov.in

1.4 PARTICIPATION IN BID

1.4.1 PORTAL REGISTRATION:

The bidder intending to participate in the bid is required to **register in the e-procurement portal** using an active personal/official e-mail ID as his/her Login ID and attach his/her valid **Digital signature certificate (DSC) - Class II or III** to his/her unique Login ID. He/ She have to submit the relevant information as asked for about the bidder. The portal registration of the bidder is to be authenticated by the **State Procurement Cell** after **verification** of original valid certificates/documents such as (i) PAN and (ii) Registration Certificate (RC) / GST Certificate (for Procurement of Goods) of the concerned bidder. The time period of validity in the portal is co terminus with validity of RC/ GST. Any change of information by the bidder is to be re-authenticated by the State Procurement Cell. After successful authentication, bidder can participate in the online bidding process.

1.4.2 LOGGING TO THE PORTAL:

The Bidder is required to type his/her *Login ID* and password. *The system will again ask to* select the DSC and confirm it with the password of DSC as a second stage authentication. For each login, a user’s DSC will be validated against its date of

validity and also against the **Certificate Revocation List (CRL)** of respective CAs stored in system database. The system checks the unique Login ID, password and DSC combination and authenticates the login process for use of portal.

1.4.3 DOWNLOADING OF BID:

The bidder can download the bid of his / her choice and undertake the necessary preparatory work **off-line** and upload the completed bid before the closing date and time of submission.

1.4.4 CLARIFICATION OF BID:

The registered bidder can ask questions related to the online bid in the e-procurement portal **before the pre-bid meeting**. The State Crime Record Bureau, At-Rasulgarh, Bhubaneswar (Email – dircrb.odpol@nic.in)will clarify queries related to the bid. Through e-mail by the e-mail ID: dircrb.odpol@nic.in and Contact No. 0674-2580110 **or State e-Procurement cell help desk 1800-3456765, 0674-2530998 for assistance in this regard.**

1.4.5 PREPARATION OF BID

The detail guideline for preparation of bid is mentioned at General condition of Contract- Section VI

1.4.6 PAYMENT OF COST OF BID DOCUMENTS:

The detail guideline for payment of Cost of Bid Document is mentioned at General Condition of contract-Section VI

1.4.7 SUBMISSION AND SIGNING OF BID

The detail guideline for submission of & signing of bid is mentioned at General Condition of Contract-Section VII

1.4.8 TIMELINE FOR DELIVERY OF GOODS/SERVICES AND PAYMENTS

As mentioned in the RFP. Successful bidders will be provided with online tracking facility for knowing goods/services delivery status at consignee locations.

Note: (Uploading of files for submission of bid)

For management of space the bidders can serially arrange their scanned documents as per Format T1 (all pages should be signed by authorized signatory with seal and then to be scanned) and create two equalized PDF files and upload them to avoid any space constraint.

The **BOQ** file (Excel file) is to be uploaded in the **price bid**.

SECTION II
General Definitions & Scope of Contract

2.1 General Definitions

- 2.1.1 *Department* means Odisha Police under Home Department, Government of Odisha.
- 2.1.2 *Government* means Government of Odisha.
- 2.1.3 *Bid / Tender Inviting Authority* is the Odisha Police or authorized person of Odisha Police (A.I.G. of Police (Provisioning), Odisha, Cuttack, who on behalf of the User Institution/Government or the funding agencies calls and finalize bids and ensure supply, installation and after sales service of the equipment's procured under this bid document.
- 2.1.4 *Tender Evaluation Committee & Technical Committee* are Committees authorized by the D.G. & I.G. of Police, Odisha, Cuttack to decide on the purchase of the items to be procured by the Odisha Police.
- 2.1.5 *User Institutions* are the Odisha Police under Home Department, Govt. of Odisha for which the items under this bid is procured.
- 2.1.6 *De-recognition/ Debarment* – the event occurring by the operation of the conditions under which the bidders will be prevented for a period of 3 years from participating in the future bids of Tender Inviting Authority, more specifically mentioned in the Specific Conditions of Contract (Section V) and General Conditions of Contract (Section VI) of this bid document, the period being decided on the basis of number of violations in the bid conditions and the loss/hardship caused to the Tender Inviting Authority on account of such violations.

2.2 Scope

- 2.2.1 The bids are invited for the supply of the items, the details of which are mentioned in the RFP, needed for Odisha Police.
- 2.2.2 The bidders can't withdraw their bid after opening of technical bid, within the minimum bid validity period of 365 days & also after accepting the Letter of Intent.
- 2.2.3 Withdrawal or non-compliance of agreed terms and conditions after the execution of the agreement will lead to invoking of penal provisions and may also lead to de-recognition/debarment.

**SECTION III
TENDER SCHEDULE**

3.1. Bid Details

1.	<i>Bid Reference No.</i>	RFP No._ 02-AFIS-RQT-RFP-2023-24 dtd.14 .07.2023
2.	<i>Cost of Bid Document (in shape of DEMAND DRAFT) from any nationalized/ scheduled bank in India in favour of A.I.G. of Police (Provisioning), Odisha, Cuttack</i>	Rs. _500_ /- (exclusive of GST) for any or all the item(s)
3.	<i>Validity of bid</i>	365 days from the date of technical bid opening or till next tender floated whichever is earlier.
4.	<i>Earnest Money Deposit (EMD) (Refundable) (As Demand Draft from any scheduled commercial bank/nationalized bank in the name of Police Department, Odisha payable at Cuttack) or through NeSL.</i>	Rs.43,200/- (Rupees Forty Three Thousand Two Hundred only)
5.	<i>Performance Security</i>	5% of the Total contract value with respect to the Approx. quantity mentioned in Schedule IV excluding taxes (for successful bidders)
6.	<i>Validity of Performance Security</i>	The performance security (in case of Bank Guarantee) shall remain valid for a period of minimum (5) five years from the date of supply of items.

3.2. Important Dates:

Sl. No.	Particulars	Date and time	
1.	<i>Date & time of release of bid</i>	14.07.2023 , 10.00 AM	
2.	<i>Date & Time of Pre Bid meeting</i>	24.07.2023, 12:30 PM Venue _ O/o the SCRB, Rasulgarh, Bhubaneswar A pre-proposal meeting will be held on 24.07.2023 3 PM (Online Link shall be shared based on the request receive from bidder on <u>aig-prov.odpol@gov.in</u> before 15:00 hours, 21.07.2023	
2.	<i>Date & time of Online bid submission</i>	<i>Start Date & Time</i>	<i>End date & Time</i>
		27.07.2023, 10:AM	17.08.2023, 10:AM
3.	<i>Date & time for submission of Tender Documents, Tender Document Fee of tender document</i>	27.07.2023, 10:AM	17.08.2023, 10:AM
4.	<i>Date & time of online Technical bid opening</i>	18.08.2023, 05:00 PM	
5.	<i>Date of opening of Price Bid</i>	To be informed to the qualified bidders	

SECTION IV
SPECIAL CONDITIONS OF CONTRACT

4.1 Time Limits Prescribed

<u>Sl. No</u>	<u>Activity</u>	<u>Time limit</u>
5.1.1	<i>Delivery period</i>	45 (Forty five) days from date of issue of Supply Order.
5.1.2	<i>Submission of Performance Security.</i>	15 days from the date of issue of Letter of Intent.
5.1.3	<i>Time for making payments by Tender Inviting Authority</i>	<i>The payment will be completed after successful inspection and acceptance of stores by the competent authority.</i>

4.2 Pre-qualification of Bidders:

4.1.1 Bidder shall only be a Original Equipment Manufacturer (OEM) or their authorized agent of the OEM having running business in the tendered item with a good business record.

- a) The bidder in proof of he being an OEM / Authorized Agent shall submit authenticated documentary evidence in this regard. The proof submitted earlier in some other context shall not be treated as valid and sufficient.
- b) The Applicant (or the Parent company, if applicable) shall be the product/ platform/ solution owner having running business in the tendered item with good business track record. The evidence for the same is a notarized affidavit filed with a licensed notary in the country of operation.

Note: Valid certificate mean the certificates should be valid on the date of opening of technical bid.

4.1.2 Bidder(manufacturer/importer) shall have minimum turn over as per **Format T6** in each of the year for **last 3 (three) financial years** in India.

Last **3 (three) financial years** means either during **2018-19,2019-20 and 2020-21 or 2020-21,2021-22 and 2022-23.**

The proof of turnover is to be furnished in **Format T6** certified by the Chartered accountant & supported by audited annual statements/ annual report with the turnover figures highlighted there. **(Provisional statement of account shall not be considered).**

4.1.3 The bidder must be registered under **GST**.

4.1.4 Submission of fake or forged documents / Submission of incorrect information / Suppression of vital information & facts will attract de- recognition / debarment/ Banned /

blacklisting and can't participate in the tender process. Any Bidder/manufacturing unit which has been de-recognized/debarred/banned/blacklisted by Odisha Police for any reasons can't participate in the tender during the period of de-recognition/debarment/banned.

(b) Any bidder who has been convicted by a competent court of law can't participate in the tender process.

4.1.5 The bidder has to submit the Bid document cost as mentioned in Section-III.

4.1.6 The bidder has to submit declaration form as per **Format T5**.

4.1.7 The bidder has to furnish the declaration regarding Bid Security as per **Format T3** instead of EMD (Earnest Money Deposit).

SECTION V
GENERAL CONDITIONS OF CONTRACT

5.1 Contents of the Bid Document:

This 'Bid Document' contains the following:

Section I: Instruction to Bidders

Section II: General Definition & Scope of Contract.

Section III: Tender Schedule

Section IV: Special Conditions of Contract

Section V: General Conditions of Contract

Section VI: Formats for bidder for Submission of Bid (Technical Bid)

Section VII: Annexes [Formats for the successful bidder (Supplier) after finalization of bid]

5.2 Bid Document:

5.2.1 The detailed technical specifications and terms and conditions governing the supply and quality-related matters are in the "Bid Document".

5.2.2 The bid document shall be made available on the website www.odishapolice.gov.in and <https://tendersodisha.gov.in> for downloading. Bidder shall submit Bid Document cost (mentioned in Section III) as described in clause 6.5 and non-submission of the same shall be one of the primary reasons for rejection of the offer in the first round.

5.2.3 The documents shall be submitted online through the e-Tender portal <https://tendersodisha.gov.in>. Bidders have to enroll themselves in the e-procurement portal and a digital signature certificate is required.

5.2.4 The **general guidelines** on the **e-Tender** process is as mentioned below:

5.2.4.1 Bidders should have a Class II or III Digital Signature Certificate (DSC) to be procured from any Registration Authorities (RA) under the Controller of certifying agency (CCA). Once, the DSC is obtained, bidders have to **register** in the **e-procurement portal** <https://tendersodisha.gov.in> for participating in this bid. Website registration is a one-time process without any registration fees. However, bidders have to procure DSC at their own cost.

5.2.4.2 Bidders may contact State e-Procurement cell help desk 1800- 3456765, 0674-2530998 for assistance in this regard.

5.2.4.3 The e-Tender process comprises the stages viz. downloading the bid document, pre-bid meeting (as applicable to each bid), bid submission (technical cover and financial cover), opening of technical bid and opening of financial bids for the technically qualified bidders.

5.2.4.4 Payment of Bid Document Cost:

The **details of payment of document cost** is mentioned in the RFP.

- 5.2.4.5 The details of documents (in PDF format) for online submission of technical bid is mentioned in the RFP.
- 5.2.4.6 The blank price bid format should be downloaded and saved on bidder's computer without changing the file name (otherwise price bid will not get uploaded). The bidder should fill in the details in the same file and upload the same back on the website.
- 5.2.4.7 Prices quoted by the Bidder shall be fixed during the bidder's performance of the contract and not subject to variation on any account. However statutory taxes & duties will be paid as per prevailing rates. A bid submitted with an adjustable/variable price quotation will be treated as non - responsive and rejected.

5.3 Responsibility of Verification of Contents of Bid Document:

- 5.3.1 The purchasers of the bid document shall examine all instructions, forms, terms and specifications in the Bid Document and verify that all the contents mentioned in the 'Bid Document'.
- 5.3.2 Failure to furnish any information required by the bid documents and submission of an offer not substantially responsive to it in every respect shall be at the bidder's risk and may result in the rejection of the bids, without any further notice.

5.4 Guidelines for Preparation of Bid

- 5.4.1 The Bidder shall bear all costs associated with the preparation and submission of its bid and Odisha Police, hereinafter referred to as "Tender Inviting Authority", will in no case be responsible or liable for these costs, and regardless of the conduct or outcome of the bidding process. The **documents to be submitted** online is mentioned in the bid document.
- 5.4.2 In the event of documentary proof as required being not enclosed, the Bid shall be liable to be rejected. All pages of the bid, shall be signed by the authorized person(s) along with the stamp of the bidder.
- 5.4.3 Language of Bid:- The Bid prepared by the bidder and all correspondence and documents relating to the bid exchanged by the bidder and the Tender Inviting Authority, shall be in English language. Supporting documents and printed literature furnished by the bidder may be written in another language provided they are accompanied by an authenticated accurate translation of the relevant passages in the English language in which case, for purposes of interpretation of the Bid, the English translation shall govern.
- 5.4.4 The bid (in English Language only) for the supply of items mentioned in the RFP shall be submitted along with detailed specifications.
- 5.4.5 The documentary evidence regarding past performance shall be submitted along with the Bid shall be produced duly attested by the bidder on every page and serially numbered. Any interlineations, erasures or overwriting shall be valid only if they are initialed by the person (s) signing the offer.
- 5.4.6 Bidder shall submit a **declaration letter** as per Format T5 signed by the bidder or the authorized representative and shall enclose it as part of the technical bid as a proof of having read and accepted the terms and conditions of the bid document.

5.4.7 An offer submitted in vague /ambiguous financial terms and the like, shall be termed as non-responsive and shall be summarily rejected.

5.4.8 Clarifications to specific requests shall be responded to through e-mail and general clarifications, affecting all the bidders shall be published in the official website of the Tender Inviting Authority (www.odishapolice.gov.in). However, it shall be the duty of the prospective bidder to ensure that the clarifications sought for has been properly received in time by the Tender Inviting Authority.

5.4.9 Any clarification on the e-Tender procedure shall be obtained from Odisha Police / SCRB.

5.5 Payment for e-Tenders (Bid document Cost)

5.6 Bid Document Cost

5.6.1 The bidder has to submit the bid document cost as mentioned in Section–III and non-submission of Bid Document Cost as mentioned in Section III shall be one of the primary reasons for rejection of the offer in the first round.

5.6.2 All bidders shall pay bid document cost as per the instructions provided in clause

5.6.3 Bidders are **liable to pay bid document cost**.

5.7 Submission of BID SECURITY DECLARATION FORM (Rule 170 of General Financial Rule 2017)

5.8 Deadline for Submission of Bid

5.8.1 Bidders shall upload all the necessary documents in the e-Tender portal before the last date & time for online submission.

5.8.2 The Tender Inviting Authority may, at its discretion, extend the deadline for submission of Bid, in which case all rights and obligations of the Tender Inviting Authority and the bidders shall remain unaffected.

5.9 Modification and Withdrawal of Bids

5.9.1 The bidder can modify or withdraw bids submitted online before the last date & time of online submission.

5.10 Period of Validity of Bid

5.10.1 The bid must remain valid for minimum 365 days (one year) from the date of opening of technical bid. A bid valid for a shorter period shall be rejected by the Tender Inviting Authority as non-responsive.

5.10.2 The bidder can't withdraw their bid within the bid validity period.

5.10.3 Withdrawal or non-compliance of bid terms and conditions after the issuance of Supply Order will lead to de-recognition/ debarment of the successful bidder.

5.11 Rejection/Cancellation of Bids:

- 5.11.1 The bids shall be rejected in case the bidder fails to meet the pre-qualification criteria as specified in Clause 4.2.
- 5.11.2 At any point of time, the Tender Inviting Authority reserves the right to reject the bid if the bidder fails to fulfill the terms & conditions of the bid document including technical specification, factory inspection, furnish of relevant document as per the satisfaction of Tender Inviting Authority.
- 5.11.3 Any pre-condition by the bidder contradicting to the tender terms & conditions or non-compliance to product specification.
- 5.11.4 The Tender Inviting Authority reserves the right to cancel the tender for all items or for any one or more of the items tendered without assigning any reasons thereof.

5.12 Notices

- 5.12.1 The Tender Inviting Authority shall publish the following information on its website or e-Tender portal at the appropriate time as part of ensuring transparency in the bid process;
 - 5.12.1.1 The bid notices, documents, corrigendum, addendum etc if any.
 - 5.12.1.2 Amendments to the bid conditions, if any, especially after the pre-bid meeting
 - 5.12.1.3 Results of the responsiveness of the technical bids and minor infirmities/clarifications sought.
 - 5.12.1.4 List of bidders qualified and reasons for rejection of unqualified bidders.
 - 5.12.1.5 Final List of technically qualified bidders.
 - 5.12.1.6 Summary of Online price bid opening.
- 5.12.2 Notice, if any, relating to the contract given by one party to the other, shall be sent in writing by email or fax and confirmed by post. The procedure will also provide the sender of the notice, the proof of receipt of the notice by the receiver. The addresses of the parties for exchanging such notices will be the addresses as incorporated in the contract.
- 5.12.3 The effective date of a notice shall be either the date when delivered to the recipient or the effective date specifically mentioned in the notice, whichever is later.

5.13 Other Terms and Conditions

- 5.13.1 Specifications and Standards: - The Goods & Services to be provided by the successful bidder under this contract shall conform to the specifications and quality control parameters mentioned in of the RFP.
- 5.13.2 The bidder shall be responsible for payment of any charges due to any statutory authorities such as Income Tax, GST and Customs Duties etc.
- 5.13.3 In the event if it found that there is some statutory deduction to be made at the source, the Tender Inviting Authority will have the authority to do so.

5.14 Submission of Queries

- 5.14.1 Submission of queries regarding tender terms & condition must be reach by E-Mail id aig-prov.odpol@nic.in up to 24/07/2023, 5:00 PM. The Tender Inviting Authority may or may not amend the terms and conditions as well as technical specifications of the bid document on the basis of feedback obtained with a view to obtain maximum number of competitive bids.

5.15 Amendment of Bid Documents:

- 5.15.1 At any time prior to the dead line for submission of Bid, the Tender Inviting Authority may, for any reason, modify the bid document by amendment and publish it in e-tender portal and Odisha Police website.
- 5.15.2 The Tender Inviting Authority shall not be responsible for individually informing the prospective bidders for any notices published related to each bid. Bidders are advised to browse e-Tender portal or website of the Tender Inviting Authority for information/general notices/amendments to bid document etc. on a day-to-day basis before submission of bid.

5.16 Submission of Bid

- 5.16.1 The bids are to be submitted **on-line** in two parts in the e-Tender portal. Each process in the e-procurement is time stamped and the system can detect the time of log in of each user including the Bidder.
- 5.16.2 **PART-I as TECHNICAL BID** shall be submitted **on-line only** in the e-Tender portal with all the required documents as mentioned in **the RFP**
- 5.16.3 **PART II as PRICE BID** (in the required Format) shall be submitted **online only**. The price bid format (excel sheet available in e-Tender portal) is specific to a bid and is not interchangeable. The price bid format file shall be downloaded from the e-Tender portal and the bidders shall quote the prices in the respective fields before uploading it. All **white** areas of BOQ file shall be filled by the bidder. The **grey areas** of BOQ shall not be modified/edited by the bidder. The Price bids submitted in **any other formats** will be treated as **non-responsive**. Multiple price bid submission by bidder shall lead to cancellation of bid.
- 5.16.4 The bidder should **check the system generated confirmation statement** on the status of the submission.

5.16.5 SIGNING OF BID

The bidder shall sign on all statements, documents, certificates uploaded by him, owning responsibility for their correctness / authenticity. If any of the information furnished by the bidder is found to be false /fabricated/ bogus, the Bid Security shall stand forfeited & his/her name shall be recommended for blocking of portal registration and the bidder is liable to be de-recognition/debarment.

5.16.6 SECURITY OF BIDSUBMISSION:

- 5.16.6.1 All bid uploaded by the bidder to the e-procurement portal will be encrypted.
- 5.16.6.2 The encrypted bid can only be decrypted / opened by the authorized openers on or after the due date and time.

5.16.7 RESUBMISSION AND WITHDRAWAL OF BIDS:

- 5.16.7.1 Resubmission of bid by the bidders for any number of times before the final date and time of submission is allowed.
- 5.16.7.2 Resubmission of bid shall require uploading of all documents including price bid afresh.
- 5.16.7.3 If the bidder fails to submit his modified bids within the pre-defined time of receipt, the system shall consider only the last bid submitted.
- 5.16.7.4 The Bidder can withdraw its bid before the closure date and time of receipt of the bid. The system shall not allow any withdrawal after expiry of the closure time of the bid.
- 5.16.7.5 The bidder should avoid submission of bid at the last moment to avoid inconvenience.
- 5.16.7.6 The details of the documents to be uploaded **online** are mentioned in

Clause 5.16.

5.17 List of Documents in Bid Submission

The list of documents (**Scanned documents to be uploaded online in PDF format**) as a part of Technical Bid (PART I) is as mentioned below:

- 5.17.1 Bid Document cost [(Scanned copy of the instrument in PDF)]
- 6.17.2[**Original instruments** of the bid document cost in a sealed envelope must reach the Tender Inviting Authority by post / courier after the closing date of online bid submission and within the date and time of opening of online technical bid, failing which the bid shall be rejected]
- 5.17.2 Format – T1 (Check List)
- 5.17.3 Format – T2 (Details of Items quoted)
- 5.17.4 Format – T3 (Bid Security Declaration)
- 5.17.5 Format – T4 (Details of Bidder)
- 5.17.6 Format – T5 (Declaration Form)
- 5.17.7 Format – T6 (Annual Turnover Statement by Chartered Accountant)
- 5.17.8 Copies of the annual audited statement/ Annual Report for **2018-19,2019-20 and 2020-21 or 2020-21,2021-22 and 2022-23** (Provisional statement of account shall not be considered).
- 5.17.9 Format–T7 (**Performance Statement** during the last three Years)

- 5.17.10 Format – T8 (Land Border sharing certificate)
- 5.17.11 Copy of ISO/BIS Certificate (if any)
- 5.17.12 Copy of the GST registration certificate
- 5.17.13 Copy of PAN
- 5.17.14 Copy of IT Returns of the financial years during **2018-19,2019-20 and 2020-21 or 2020-21,2021-22 and 2022-23.**

Copies of all the above documents uploaded in the **technical bid** shall **also to be submitted** along with the Tender document Cost after the closing date of online bid submission and within the date and time of opening of online technical bid, failing which the bid shall be rejected. However, the copy of all documents to be submitted should be **exactly the same as uploaded in e-tender portal**. Copy of the documents to be submitted shall be only for the purpose of clarity / better visibility of the documents uploaded in case of any scanned documents uploaded (like product catalogues/ information's/ Certificates etc.) is not clear. In that case, the documents shall be considered for evaluation **if the scan copy of the same is uploaded.**

Note: No price information to be furnished in the Technical bid.

5.18 Opening of Technical Bid

- 5.18.1 The technical bid opening is **online**. The date of technical bid opening is published in advance. The date of opening of price bid will be decided after the technical bid evaluation and those who qualify in the technical bid evaluation shall be informed in advance through online notice.
- 5.18.2 The **on-line opening** of the technical bid and the price bid shall be done by the Tender Inviting Authority or his authorized representatives as per bid schedule. The prospective bidders or his/her representative can access to the on-line bid opening by logging in to the e-Tender portal with the registered digital signature. Bidders or his/her representative may not come to the office of the Tender Inviting Authority for the opening of either technical or price bids.
- 5.18.3 In the event of the specified date for opening of bid being declared holiday, the Bid shall be opened at the appointed time and venue on the next working day.
- 5.18.4 In the event of the claims in the on-line documents are materially missing or of substantial error or unqualified for want of required qualifications, the bid shall be rejected. However, minor infirmities in the submission of documents will be allowed to be rectified by obtaining required clarification by the Tender Inviting Authority so as to ensure qualification of maximum number of competitive offers to the final round.
- 5.18.5 The bidder shall be **responsible for properly uploading** the relevant documents (in the format specified) in the **e-Tender portal** in the specific location and the Tender Inviting Authority shall not be held liable for errors or mistakes done while uploading the on-line bid.

5.18.6 The date and time of Price Bid will be announced only after the opening of the Technical Bid, Technical Evaluation and sample verification of the item(s) offered.

5.19 Evaluation of Bid

- 5.19.1 The Evaluation will be done by Tender Evaluation Committee.
- 5.19.1.1 The documents submitted as part of the technical bids shall be scrutinized by a Tender Evaluation Committee duly appointed.
- 5.19.1.2 The Tender Evaluation Committee may also verify the veracity of claims in respect of the known performance of the item(s) offered, the experience and reputation of bidder in the field, the financial solvency etc.
- 5.19.1.3 The decisions of the Tender Evaluation Committee on whether the bidders are responsive or non-responsive or requiring clarifications will be published.
- 5.19.1.4 The details of price bid evaluation is mentioned at Clause No.5.21

5.20 Sample Verification of the item(s):

5.20.1 The Tender Inviting Authority's contractual right to inspect, test and, if necessary, reject the goods after the goods' arrival at the final destination shall have no bearing of the fact that the goods have previously been inspected and cleared by Tender Inviting Authority's inspector during sample / software verification as mentioned above.

5.21 Price Bids Opening :-

- 5.21.1 The price bid of the technically qualified bidders shall be opened online by the Tender Inviting Authority or his authorized representative.
- 5.21.2 Price Offered shall be in **Indian Rupees**. All the rates and amounts shall be quoted in Indian Rupees (IR) and shall be presumed to be in Indian Rupees unless specifically permitted to be quoted otherwise in this tender document. However an OEM located outside the country may quote its price in the Currency of the country to which he belongs but the same shall be converted to INR at the exchange rate prevailing on the date of opening of Tender and the same will be binding on both parties
- 5.21.3 Fixed price: Prices quoted by the Bidder shall be fixed during the period of the contract and not subject to variation on any account.
- 5.21.4 There shall also be no hidden costs.
- 5.21.5 Bidder shall quote prices in all necessary fields in the available format. The price shall be entered separately in the following manner:
 - 5.21.5.1 Applicable GST shall be quoted in the specified column in numeric values (If the field is left blank, value will be taken as zero) in the BOQ/Price Bid format.

- 5.21.5.2 The bidders shall offer the price which shall be inclusive of all the accessories (if any) mentioned in the RFP.
- 5.21.5.3 Bidders in no way can alter/modify the price bid/ BOQ format, if so he is liable for disqualification.
- 5.21.5.4 No bidder shall be allowed at any time on any ground, whatsoever it may be, to claim revision or modification in the rates quoted by him (Except any change made by the NPPA/Govt.). Representation to make correction in the tender documents on the ground of Clerical error, typographical error, etc., committed by the bidder in the Bids shall not be entertained after submission of the tenders. Conditions such as “SUBJECT TO AVAILABILITY” “SUPPLIES WILL BE MADE AS AND WHEN SUPPLIES ARE RECEIVED” etc., will not be entertained under any circumstances and the tenders of those who have given such conditions shall be treated as incomplete and accordingly the Tender will be rejected.

5.22 Price Bid Evaluation

- 5.22.1 The quoted rate should include excise / customs duty, transportation, insurance, packing & forwarding or any other incidental charges for door delivery at the warehouses & GST. The price bid evaluation of an item will be made by comparison of basic quoted prices of each bidder excluding GST. The lowest eligible bidder i.e. (L1) bidder will be the bidder who has quoted the lowest basic price in BOQ, out of the rest bidders for that item.
- 5.22.2 In case of any discrepancy in quoted GST percentage in BOQ by different bidders for a similar item(s). Then price bid evaluation for that item will be finalized after getting clarification from bidders as well as from tax department.

5.23 Award of Contract

5.23.1 Criteria:- In QCBS Method the highest score is recommended for further negotiation and the contract is awarded by the appropriate authority,

5.23.2 Variation of Quantities at the Time of Award/ Currency of Contract:-At the time of awarding the contract, the Tender Inviting Authority reserves the right to increase or decrease substantially the quantity of goods and services mentioned under Cl. 4.1 (rounded off to next whole number) without any change in the unit price and other terms & conditions quoted by the bidder.

5.24 Notification of Award/Letter of Intent (LOI)

- 5.24.1 Within the bid validity period, the Tender Inviting Authority will notify the list of successful bidder (s) in tender portal or website of Odisha Police before issuing the Letter of Intent (LOI).
- 5.24.2 The successful bidder(s), upon receipt of the LOI, shall deposit the prescribed performance security within **10 (ten)** days.
- 5.24.3 The Notification of Award shall constitute the formation of the Contract.

5.25 Signing of Contract

- 5.25.1 The successful bidder shall execute an agreement in a format which will be provided to the successful bidder along with the LOI for ensuring satisfactory supply and after sales support.
- 5.25.2 The successful bidder shall submit the bank guarantee in the format as per Annexure IV, or a demand draft as a performance security prescribed.
- 5.25.3 Promptly after notification of award, within ten days from the date of the letter of intent, the successful bidder shall execute the contract (as per agreement) on Rs.100/- stamp paper purchased in the name of the successful bidder, duly signed and dated, to the Tender Inviting Authority by registered / speed post or in person.
- 5.25.4 Assignment: -The Successful bidder shall not assign, either in whole or in part, its contractual duties, responsibilities and obligations to perform the contract, except with the Tender Inviting Authority's prior written permission.
- 5.25.5 Sub Contracts: - The Successful bidder shall not sub contract the execution of the contract. Such action, if done without the knowledge of the Tender Inviting Authority prior to the entering of the contract, shall not relieve the Successful bidder from any of its liability or obligation under the terms and conditions of the contract.
- 5.25.6 Modification of contract: - If necessary, the Tender Inviting Authority may, by a written order given to the successful bidder at any time during the currency of the contract, amend the contract by making alterations and modifications within the general scope of contract in any one or more of the following:
- 5.25.6.1 Incidental services to be provided by the successful bidder,
- 5.25.6.2 Any other term(s) of the contract, as felt necessary by the Tender Inviting Authority depending on the merits of the case.
- 5.25.7 In the event of any such modification/alteration causing increase or decrease in the cost of goods and services to be supplied and provided, or in the time required by the successful bidder to perform any obligation under the contract, an equitable adjustment shall be made in the contract price and/or contract delivery schedule, as the case may be, and the contract amended accordingly.
- 5.25.8 If the successful bidder doesn't agree to the adjustment made by the Tender Inviting Authority, the successful bidder shall convey its views to the Tender Inviting Authority within ten days from the date of the successful bidder's receipt of the Tender Inviting Authority amendment / modification of terms of the contract.

5.26 Performance Security

- 5.26.1 Performance Security for an amount equal to 5% of LOI/ supply order value excluding Taxes shall be paid upfront within **15 days** of issue of LOI/ supply order in form of Demand Draft drawn in favour of the A.I.G. of Police (Provisioning), Odisha, Cuttack payable at Cuttack r/ Irrevocable Bank Guarantee from any Nationalised / Scheduled Bank in favour of the A.I.G. of Police (Provisioning), Odisha, Cuttack in the format as

given in Annexure –V with validity for a period of **60 months** from the date of execution of the agreement

- 5.26.2 For subsequent order (s)/ emergency situations, the successful supplier shall deposit performance security for an amount equal to 5% of P.O. value excluding Taxes within 15 days of issue of purchase order in shape of Demand Draft / Irrevocable Bank Guarantee from any Nationalised / Scheduled Bank in favour of the Odisha Police valid for a period of 60 months from the date of execution of the agreement.
- 5.26.3 Upon receipt of performance security, the Tender Inviting Authority shall issue the Supply Orders containing the terms and conditions for the execution of the order.
- 5.26.4 Failure of the successful bidder in providing performance security mentioned in Section III.
- 5.26.5 The Performance security shall be denominated in Indian Rupees as detailed below:
- 6.26.5.1.1 It shall be in any one of the forms namely Account Payee Demand Draft or Bankers Cheque or Bank Guarantee issued by a Scheduled bank in India, in the prescribed form (Annexure V) as provided in this document endorsed in favor of the Tender Inviting Authority.
- 6.26.5.2 In the event of any failure /default of the successful bidder with or without any quantifiable loss to the government, the amount of the performance security is liable to be forfeited.
- 6.26.5.3 In the event of any amendment issued, the successful bidder shall, within (15) days of issue of the amendment, furnish the corresponding amendment to the Performance Security (as necessary), rendering the same valid in all respects in terms of the contract, as amended.
- 5.26.6 Tender Inviting Authority will release the Performance Security without any interest to the successful bidder on completion of 60 months from the date of execution of the agreement.

5.27 Supply Conditions

- 5.27.1 The tender inviting authority may place the purchase order in a phased manner during the rate contract period. The Purchase orders will be issued through E- mail followed by Speed Post/Courier.
- 5.27.2 (a) The successful bidder shall have to supply the item(s) within the **stipulated period (45 days)**, at the warehouses/ Supply points as mentioned in the RFP.
- 5.27.3** In case the supplied item(s) not delivered within the stipulated delivery period, the Tender Inviting Authority shall deduct **Liquidated Damage (LD) charges** as per the bid conditions.

5.27.4 The successful bidder(s) will arrange transportation of the ordered goods as per its own procedure and pay necessary insurance against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery and pay all incidental charges till it reaches at consignee point. It shall be ensured by the supplier that the item(s) delivered at the destination(s) in working and good condition as per Bid Document.

5.28 Payment

- 5.28.1 No advance payments towards the cost of items will be made to the bidder.
- 5.28.2 Payments shall be made after successful inspection of the items and acceptance by the competent authority.
- 5.28.3 The original invoice submitted shall be in the name of the Tender Inviting Authority and the name of the consignee shall be mentioned in it.
- 5.28.4 Where there is a statutory requirement for tax deduction at source, such deduction towards income tax and other taxes as applicable will be made from the bills payable to the Successful supplier at rates as notified from time to time.

5.29 Intellectual Property Rights(IPR)

- 5.29.1 The successful bidder shall, at all times, indemnify and keep indemnified the Tender Inviting Authority, free of cost, against all claims which may arise in respect of goods & services to be provided by the successful bidder under the contract for infringement of any intellectual property rights or any other right protected by patent, registration of designs or trademarks.
- 5.29.2 In the event of any such claim in respect of alleged breach of patent, registered designs, trademarks etc. being made against the Tender Inviting Authority, the Tender Inviting Authority shall notify the successful bidder of the same and the successful bidder shall, at his own expenses take care of the same for settlement without any liability to the Tender Inviting Authority.
- 5.29.3 The Successful bidder/its Indian Agent shall at all times, indemnify and keep indemnified the Tender Inviting Authority/ Government of India against all claims/ damages etc. for any infringement of any Intellectual Property Rights (IPR) while providing its services.

5.30 Corrupt or Fraudulent Practices

- 5.30.1 It is required by all concerned namely the User Institution/ Bidders/ Successful bidders etc to observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the Tender Inviting Authority defines, for the purposes of this provision, the terms set forth below as follows:
- 5.30.2 “corrupt practice” means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and
- 5.30.3 “fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Tender Inviting Authority, and includes collusive practice among Bidders (prior to or after Bid submission) designed to

establish Bid prices at artificial non- competitive levels and to deprive the Tender Inviting Authority of the benefits of free and open competition;

- 5.30.4 Tender Inviting Authority will reject a proposal for award if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question; will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract by the Tender Inviting Authority if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing the contract.
- 5.30.5 No bidder shall contact the Tender Inviting Authority or any of its officers or any officers of the government on any matter relating to its bid, other than communications for clarifications and requirements under this bid in writing, with an intention to influence the members of various committees or officials of Tender Inviting Authority. Any such effort by a bidder to influence the Tender Inviting Authority in the Tender Inviting Authority's bid evaluation committee, bid comparison or contract award decisions may result in rejection of the bid.

5.31 Force Majeure

- 5.31.1 For purposes of this clause, Force Majeure (FM) means extraordinary events or circumstance beyond human control such as an event described as an act of God (like a natural calamity) or events such as a war, strike, riots, crimes (but not including negligence or wrong-doing, predictable/seasonal rain and any other events specifically excluded in the clause).
- 5.31.2 An FM clause in the contract frees both parties from contractual liability or obligation when prevented by such events from fulfilling their obligations under the contract. An FM clause does not excuse a party's non-performance entirely, but only suspends it for the duration of the FM. The firm has to give notice of FM as soon as it occurs (**within 7 days**) and it cannot be claimed ex-postfacto.
- 5.31.3 There may be a FM situation affecting the purchase organisation only. In such a situation, the purchase organisation is to communicate with the supplier along similar lines as above for further necessary action. If the performance in whole or in part or any obligation under this contract is prevented or delayed by any reason of FM for a period exceeding **60(Sixty)** days, either party may at its option terminate the contract without any financial repercussion on either side. Notwithstanding the punitive provisions contained in the contract for delay or breach of contract, the supplier would not be liable for imposition of any such sanction so long as the delay and/ or failure of the supplier in fulfilling its obligations under the contract is the result of an event covered in the FM clause.

5.32 Resolution of Disputes

- 5.32.1 If dispute or difference of any kind shall arise between the Tender Inviting Authority and the successful bidder in connection with or relating to the contract, the parties shall make every effort to resolve the same amicably by mutual consultations.

5.33 Applicable Law & Jurisdiction of Courts

- 5.33.1 The contract shall be governed by and interpreted in accordance with the laws of India for the time being in force.
- 5.33.2 All disputes arising out of this bid will be subject to the jurisdiction of courts of law in Bhubaneswar / High Court of Orissa.

5.34 General/ Miscellaneous Clauses

- 5.34.1 Nothing contained in this Contract shall be constructed as establishing or creating between the parties, i.e. the Successful bidder on the one side and the Tender Inviting Authority on the other side, a relationship of master and servant or principal and agent.
- 5.34.2 Any failure on the part of any Party to exercise right or power under this Contract shall not operate as waiver thereof.
- 5.34.3 The Successful bidder shall notify the Tender Inviting Authority of any material change that would impact on the performance of its obligations under this Contract.
- 5.34.4 The Successful bidder shall, at all times, indemnify and keep indemnified the Tender Inviting Authority / Government of Odisha against any claims in respect of any damages or compensation payable in consequences of any accident or injury sustained or suffered by its employees or agents or by any other third party resulting from or by any action, omission or operation conducted by or on behalf of the successful bidder/its associate/affiliate etc.
- 5.34.5 All claims regarding indemnity shall survive the termination or expiry of the contract.

5.35 Penalties for Non-performance

- 5.35.1 The penalties to be imposed at any stage under this bid are;
- 5.35.1.1 imposition of liquidated damages,
 - 5.35.1.2 forfeiture of performance security
 - 5.35.1.3 cancelation of Purchase Order and termination of the contract
 - 5.35.1.4 de-recognition/ debarment of the bidder/supplier
- 5.35.2 Failure to produce the requisite certificates after claiming to possess such certificates or concealment or misrepresentation of facts will not only lead to rejection of bids in the first round itself and/or may lead to forfeiture of performance security as well as result in de-recognition/ debarment of the bidder.
- 5.35.3 The penalties to be imposed on the bidder, at any stage, will be decided on the basis of the violations of number of bid conditions specifically mentioned in the bid document as that leading to forfeiture of Performance Security or leading to de-recognition/debarment.
- 5.35.4 Any unexcused delay by the successful bidder in maintaining its contractual obligations towards delivery of goods and performance of services shall render the successful bidder liable to any or all of the following sanctions:
- 5.35.5 **Liquidated Damages:-** will be charged for delayed supply as follows—
- a) The supplier has to supply the indent within the time specified in the supply order.

Failure to supply the indent in full within the stipulated period as mentioned in the supply order may lead to forfeiture of Performance Security and blacklisting of the suppliers. If at all the delivery is allowed to be accepted after the due date, Liquidated Damages (LD) @ 0.5% of the total amount of order (excluding taxes) per week or part thereof shall be charged, however, that the L.D. shall not exceed 5% of the amount of order.

5.35.6 The decision to impose penalties and finally to **de-recognition/debarment** the defaulting firm will be final and shall be binding on all bidders participating in the bid.

5.36 De-recognition/Debarment

5.36.1 Odisha Police shall **de-recognize/ debar** the defaulting supplier for any item for a period up-to **3(three) years** from the date of issue of De-recognition/Debarment order on the following grounds:

(i) For non-performance of contract provisions, non-supply / part-supply (**To be decided by the Tender Inviting authority**) as per purchase order during the validity of the rate contract period.

5.36.2 If **3(three)** or more items supplied by the supplier are declared as **de-recognized/debarred** on **quality grounds**, then the firm **itself will be de-recognized/debarred** by Odisha Police.

5.36.3 The bidder can be **de-recognized/debarred** by Odisha Police up-to a period of **3 years** in case it is found at the time of *evaluation/verification/inspection/at any point of time till the end of contract period*, that the bidder has furnished **forged documents/false information** along with the bid.

5.36.4 The de-recognition/debarment provisions will apply *without prejudice to other penal provisions as per the tender terms & conditions*.

5.36.5 The penalties imposed by the Tender Inviting Authority will be published on the website of the Tender Inviting Authority for a period as decided appropriate.

5.37 Termination of Contract

5.37.1 Termination for default:- The Tender Inviting Authority, without prejudice to any other contractual rights and remedies available to it (the Tender Inviting Authority), may, by written notice of default sent to the successful bidder, terminate the contract in whole or in part, if the successful bidder fails to deliver any or all of the goods or fails to perform any other contractual obligation(s) within the time period specified in the contract, or within any extension thereof granted by the Tender Inviting Authority.

5.37.2 In the event of the Tender Inviting Authority terminating the contract in whole or in part, the Tender Inviting Authority may procure goods and/or services similar to those cancelled, with such terms and conditions and in such manner as it deems fit and the successful bidder shall be liable to the Tender Inviting Authority for the extra expenditure, if any, incurred by the Tender Inviting Authority for arranging such procurement.

5.37.3 Unless otherwise instructed by the Tender Inviting Authority, the successful bidder shall continue to perform the contract to the extent not terminated.

5.37.4 Termination for insolvency: If the successful bidder becomes bankrupt or otherwise insolvent, the Tender Inviting Authority reserves the right to terminate the contract at any time, by serving written notice to the successful bidder without any compensation, whatsoever, to the successful bidder, subject to further condition that such termination will not prejudice or affect the rights and remedies which have accrued and / or will accrue thereafter to the Tender Inviting Authority.

5.37.5 Termination for convenience:- The Tender Inviting Authority reserves the right to terminate the contract, in whole or in part for its (Tender Inviting Authority's) convenience, by serving written notice on the successful bidder at any time during the currency of the contract. The notice shall specify that the termination is for the convenience of the Tender Inviting Authority. The notice shall also indicate inter-alia, the extent to which the successful bidder's performance under the contract is terminated, and the effective date of such termination.

5.38 Amendment of RFP :

- At any time prior to the deadline for submission of Bids, Odisha Police may, for any reason, whether at its own initiative or in response to clarifications requested by a Bidder, modify the RFP by the issuance of Addendum or a Corrigendum. An addendum or a corrigendum thus issued will be a part of the RFP and shall be published online on the website www.odishapolice.gov.in / www.tendersodisha.gov.in , Odisha Police will assume no responsibility for receipt of the Addendum or Corrigendum.
- To accord the Bidder a reasonable time for taking an Addendum into account, or for any other reason, Odisha Police may, at its own discretion, extend the Bid Due Date

5.39 Proprietary Data

All documents and other information supplied by Odisha Police or submitted by a Bidder to Odisha Police shall remain or become the property of Odisha Police. Bidder(s) are to treat all information as strictly confidential and shall not use it for any purpose other than for preparation and submission of their Bid. Odisha Police shall not return any Bid, or any information provided therewith.

5.40 Confidentially

Information relating to the examination, clarification, evaluation, and recommendation for the Bidder shall not be disclosed to any person who is not officially concerned with the process or is not a retained professional advisor advising Odisha Police in relation to or matters arising out of or concerning the Bidding Process. Odisha Police will treat all information, submitted as part of the Bid, in confidence and will require all those who have access to such material to treat the same in confidence. Odisha Police may not divulge any such information unless it is directed to do so by any statutory entity that has the power under law to require its disclosure or is to enforce or assert any right or privilege of the statutory entity and/ or Odisha Police.

5.41 Service Level Agreement (SLA)

- The Bidder should meet the following SLAs during the warranty period; however, a separate SLA agreement will be executed with a successful Bidder when the project is awarded and accepted.
- The SLA is designed for rapid response to mission critical service, hardware, DC and software application emergency. The time between the initial request for service and the time a technical person respond to the request should not exceed 1 hour. The Resolution for permanent solution to an emergency should be within 4 hours.
- In case of complete system breakdown, the resolution time should be less than 30min. and resolution should be less than 1 hour.
- The Service level agreement would be valid for the complete period of contract. This SLA may be reviewed and revised according to the procedure detailed in SLA Change Control Mechanism.

5.42 Resolution of Disputes

If dispute or difference of any kind shall arise between the Tender Inviting Authority and the successful bidder in connection with or relating to the contract, the parties shall make every effort to resolve the same amicably by mutual consultations.

5.43 Arbitration, Applicable Law & Jurisdiction of Courts

- Except as otherwise provided elsewhere in the contract, if any dispute, difference, question or disagreement arises between the parties hereto or their respective representatives or assignees, at any time in connection with construction, meaning, operation, effect, interpretation or out of the contract or breach thereof, the same shall be decided by Sole Arbitrator to be appointed by Odisha Police.
- If the Arbitrator so appointed dies, resigns, incapacitated or withdraws for any reason from the proceedings, another Arbitrator shall be appointed by Odisha Police. The Arbitrator so appointed shall proceed with the reference from the stage, where his predecessor had left if both parties consent for the same, otherwise, he shall proceed de novo. It is a term of the contract that the party invoking arbitration shall specify all disputes to be referred to arbitration at the time of invocation of arbitration and not thereafter. It is also a term of the contract that neither party to the contract shall be entitled to seek interest and the arbitrator should not grant interest.
- The Arbitral Tribunal shall give reasoned award and the same shall be final, conclusive and binding on the parties. The venue of the arbitration shall be Bhubaneswar and language will be English. Fees of the Arbitrator and expenses incidental to the arbitration proceedings shall be borne equally by the parties. Subject to as aforesaid, the provisions of Arbitration and

Conciliation Act, 1996 and any statutory modifications or re- enactment in lieu thereof shall apply to the arbitration proceedings under this Clause.

- Subject to above, the Courts in Bhubaneswar alone shall have jurisdiction in this matter.
- The contract shall be governed by and interpreted in accordance with the laws of India for the time being in force.
- All disputes arising out of this bid will be subject to the jurisdiction of courts of law in Bhubaneswar / High Court of Orissa.

5.44 General/ Miscellaneous Clauses

- Nothing contained in this Contract shall be constructed as establishing or creating between the parties, i.e. the Successful bidder on the one side and the Tender Inviting Authority on the other side, a relationship of master and servant or principal and agent.
- Any failure on the part of any Party to exercise right or power under this Contract shall not operate as waiver thereof.
- The Successful bidder shall notify the Tender Inviting Authority of any material change that would impact on the performance of its obligations under this Contract.
- The Successful bidder shall, at all times, indemnify and keep indemnified the Tender Inviting Authority / Government of Odisha against any claims in respect of any damages or compensation payable in consequences of any accident or injury sustained or suffered by its employees or agents or by any other third party resulting from or by any action, omission or operation conducted by or on behalf of the successful bidder/its associate/affiliate etc.
- All claims regarding indemnity shall survive the termination or expiry of the contract.

5.45 Fall Clause

The prices charged for the supplies under the contract by successful bidder shall in no event exceed the lowest price at which the successful bidder sells the items/NPPA price of identical description elsewhere in the country during the period of contract. If at any time, during the contract, the bidder reduces the price chargeable under the contract, he shall forthwith notify such reduction to the Tender Inviting Authority and the price payable under the contract of the items supplied after the date of coming into force of such reduction or sale shall stand correspondingly reduced.

ANNEXURE-A
APPROXIMATE REQUIREMENT OF ITEMS TO BE PURCHASED UNDER STATE FUND
CURRENT FINANCIAL YEAR 2023-24.

1. Project Background

OBJECTIVE:

The Odisha Police has already implemented the Up-graded version of AFPIS (Automated Finger Print & Palm Print Identification System). As part of this project, Servers are being up-graded at the State level and PS AFIS with SD Live Scanner and Web Camera are being provided to Police Stations. The Up-graded version of AFIS (AFPIS) software in 24 District RQTs is currently functional. The main objective of the software is to establish a local database at District level and retrieve Fingerprint Data between PS AFIS, District RQT Software and Up-graded version of AFIS (AFPIS) Software installed in the Central Server of SCRB (FPB).

Introduction:

This will be a competitively negotiated procurement; therefore, proposers/ bidders should submit their best proposal. The Police department reserves the right to award a contract to the proposer submitting the proposal determined to be most advantageous and in the interest of Police i.e. technicality, price and other factors considered. The initial contract period will cover the system design, delivery, implementation & commissioning followed by a 5-years (3 years comprehensive + 2 years' Service) onsite warranty period, followed by an optional annual maintenance charge (AMC) or multi-year extended warranty period till next 5 years after warranty. This solicitation / RFP include the following:

The successful Bidder will have to develop all necessary APIs (Application Programming Interfaces), Bridge Software etc. and procure all required drivers and tools for integration with the existing State AFIS having its Central Server at State FPB, SCRB, PS AFIS Software and Finger Print Live Scanner installed at PSs by different vendors at no extra cost. Successful Bidder shall provide the aforesaid API to SCRB which shall verify the same. Successful Bidder shall ensure successful updation/integration with the existing State AFIS having its Central Server at State FPB, SCRB, PS AFIS Software and Finger Print Live Scanner installed at PSs by different vendors. The successful vender shall also provide all such API/Middleware/Bridge Software for any backward or forward integration with third party hardware/software in future too. Successful Bidder shall also provide Table of data structure to SCRB. The aforesaid API, data and data structure shall be sole property of SCRB Odisha. SCRB shall be free to utilise such API and date structure for the purpose of integration of any third party hardware/software.

Tender Call Notice No.
Tender Document No. II

OTHER CONDITIONS OF THE CONTRACT

1. All the clarifications sought from the bidders/ suppliers on technical specifications of the products or otherwise shall be promptly submitted in a transparent and unambiguous manner.
2. All the disputes shall be subjected to the jurisdiction of Civil Courts situated at Bhubaneswar/Cuttack.
3. Any objection / suggestion / complaint by any bidder with regard to tender shall be intimated in writing to the tender calling authority. The Chairman / Members of Technical / Purchase Committee would not entertain any correspondence / discussion in the above matter.
4. The firm may be blacklisted on the following grounds.
 - (a) Misbehavior/threatening of departmental and supervisory officers during execution of work/tendering process.
 - (b) Involvement in any sort of tender fixing.
 - (c) Constant non-achievement of milestone on insufficient and imaginary grounds and non-adherence to quality specifications despite being pointed out.
 - (d) Persistent and intentional violation of important conditions of contract.
 - (e) Security consideration of the State I.e., any action that jeopardizes the security of the State.
 - (f) Submission of false/ fabricated/ forged documents for consideration of a tender.
5. Restriction on public procurement for bidders of certain countries:-
 - I) Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority.
 - II) "Bidder" (Including the term 'tenderer', 'consultant' or 'service provider' in certain contest) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial judicial person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.
 - III) "Bidder from a country which shares a land border with India" for the purpose of this Order means:-
 - a. An entity incorporated, established or registered in such a country ; or
 - b. A subsidiary of an entity incorporated, established or registered in such a country ; or
 - c. An entity substantially controlled through entities incorporated, established or registered in such a country ; or
 - d. An entity whose beneficial owner is situated in such a country ; or
 - e. An Indian (or other) agent of such an entity ; or
 - f. A natural person who is a citizen of such a country ; or
 - g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.

IV) The beneficial owner for the purpose of (iii) (d) above will be as under:

1. In case of company of Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more judicial person, has a controlling ownership interest or who exercises control through other means.

Explanation-

- a. “controlling ownership interest” means ownership of or entitlement to more than twenty-five per cent of shares or capital or profits of the company;
 - b. “Control” shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders arrangements or voting arrangements;
 2. In case of partnership firm, the beneficial owner is the natural person(s) who, whether acting along or together, or through one or more judicial person, has ownership of entitlement to more than fifteen per cent of capital or profits of the partnership;
 3. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting along or together, or through one or more judicial person, has ownership of or entitlement to more than fifteen per cent of the property or capital or profits of such association or body of individuals;
 4. Where no natural person is identified under(1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;
 5. In case of trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen per cent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.
- V) An Agent is a person employed to do any act for another, or to represent another in dealings with third person.

Bidder to submit certificate in prescribed format Annexed with Bid document as Annexure- T 8.

Seal & Signature of the bidder.

**A.I.G. of Police (Provisioning)
Odisha, Cuttack.
(Tender Calling Authority)**

OTHER CONDITIONS OF THE CONTRACT

Tender Call Notice No.

1. The supplies shall be delivered to the authorities at the place indicated below.

All items	Name of the Authority & his address	Quantity
	Director, State Crime Records Bureau, Rasulgarh, Bhubaneswar-751010, Odisha	As per Supply order

2. The working of the equipment shall be demonstrated successfully and expenses incurred on demonstration shall be borne by the supplier.
3. The supplier shall organise training to acquaint the employees of the Organisation regarding operation of the equipments at their own cost.
4. All the supplies made shall be subject to a minimum period of warrantee up to a period of **5 years**.
5. **The successful bidder has to provide one dedicated and qualified service & Support enginner at SCRB on full time basis for unintercepted service & supprt.**
6. The supplier shall repair or replace at his cost any component of the supplies that may go out of order during the warranty period. The repair and replacement shall as far as possible be carried out within the premises, where the equipment has been installed. If, however, it is necessary to take the equipments to the workshop of the supplier, it must be repaired and re-installed successfully in its premises within 48 hours counted from the time service call is placed. Failing so, replacement equipment in working condition shall be supplied till return of the equipment.

7. SLA and Penalties

- 1.

The penalty shall be calculated in the following manner and shall be adjusted against “Performance Security”:

$$\text{Penalty} = \frac{\text{Cost of the unit article / soft ware}}{5(\text{years}) \times 365(\text{days})} \times \text{No. of days in operational (48 hrs after reporting)}$$

OR

Penalty clause as per OFR rules which ever is higher.

8. **SAMPLE / DEMONSTRATION/POWER POINT PRESENTATION:**

9. With regards to following item, the firms need not submit sample along with their bid / offer but they shall demonstrate the quoted model along with the applications of the AFIS Software for inspection / consideration by the Technical Committee during its meeting.
10. Whoever does not give demonstration as per our above directions, their Tender shall be rejected.
11. If an equipment or supply goes out of order within the warranty period and the supplier is informed about it, it must be attended to within 48 hours counted from the time service call is placed.

**SCOPE OF WORK OF CONTRACT
TECHNICAL SPECIFICATIONS**

TECHNICAL SPECIFICATIONS for Up-Graded version of AFIS (AFPIS) Software for District

Sl. No.	TECHNICAL SPECIFICATIONS for Up-gradation version of AFIS (AFPIS) Software for District RQT
	<p>OBJECTIVE: The Odisha Police has already implemented the Up-graded version of AFPIS (Automated Finger Print & Palm Print Identification System). As part of this project, Servers are being up-graded at the State level and PS AFIS with SD Live Scanner and Web Camera are being provided to Police Stations. The Up-graded version of AFIS (AFPIS) software in 24 District RQTs is currently functional. The main objective of the software is to establish a local database at District level and retrieve Fingerprint Data between PS AFIS, District RQT Software and Up-graded version of AFIS (AFPIS) Software installed in the Central Server of SCRIB (FPB).</p> <p>Introduction: This will be a competitively negotiated procurement; therefore, proposers/ bidders should submit their best proposal. The Police department reserves the right to award a contract to the proposer submitting the proposal determined to be most advantageous and in the interest of Police i.e. technicality, price and other factors considered. The initial contract period will cover the system design, delivery, implementation & commissioning followed by a 5-years (3 years comprehensive + 2 years' Service) onsite warranty period, followed by an optional annual maintenance charge (AMC) or multi-year extended warranty period till next 5 years after warranty. This solicitation / RFP include the following:</p> <p style="text-align: center;">The successful Bidder will have to develop all necessary APIs (Application Programming Interfaces), Bridge Software etc. and procure all required drivers and tools for integration with the existing State AFIS having its Central Server at State FPB, SCRIB, PS AFIS Software and Finger Print Live Scanner installed at PSs by different vendors at no extra cost. Successful Bidder shall provide the aforesaid API to SCRIB which shall verify the same. Successful Bidder shall ensure successful updation/integration with the existing State AFIS having its Central Server at State FPB, SCRIB, PS AFIS Software and Finger Print Live Scanner installed at PSs by different vendors. The successful vender shall also provide all such API/Middleware/Bridge Software for any backward or forward integration with third party hardware/software in future too. Successful Bidder shall also provide Table of data structure to SCRIB. The aforesaid API, data and data structure shall be sole property of SCRIB Odisha. SCRIB shall be free to utilise such API and date structure for the purpose of integration of any third party hardware/software.</p>
COMPLIANCES WITH INTERNATIONAL STANDARDS	
I.	NIST Compliance to Data Format for the Interchange of Fingerprint, Facial, Iris & other Biometric Information ANSI (American National Standards Institute)/NIST-ITL 1-2011). The NIST files should be in compliance with NCRB NAFIS NIST Data Format.
II.	JPEG compression for mug-shot images (ANSI/NIST – ITL 12011)
III.	Minutiae and related information encoded from a finger or palm: ANSI/NIST Type-9 (ANSI / NIST–ITL 1-2011)
IV.	Ten-print Processing: 500/1000 ppi ANSI/NIST Type-4 Images (ANSI/NIST–ITL 1-2011)
V.	Palm Print Processing: 500 ppi/1000 ppi ANSI/NIST Type-15 Images (ANSI/NIST– ITL 1-2011, ANSI/NIST–CSL 1-1993)

VI.	Electronic Fingerprint Transmission Specification (EFTS)
VII.	A certified version of the Wavelet Scalar Quantization (WSQ) algorithm as specified by ISTATEAFIS- IC-0110 (V3.1) for lossy compression of fingerprint images scanned and transmitted at 500 ppi
VIII.	Finger Image standard as per the ISO/ IEC 19794- 4
IX.	Minutiae Image standard as per the ISO/ IEC 19794-2
X.	Benchmarked in Slap Finger print Segmentation Evaluation (SlapSeg04) by NIST
XI.	Bidder/ Any consortium member in case of consortium/Algorithm developer/ OEM must have participated in NIST ELFTEFS evaluation program conducted by NIST in 2010 for chance print encoding and FP Data interoperability
<p>AFPIS REQUIREMENTS SPECIFICATION for District RQT:</p> <ul style="list-style-type: none"> • Technical specification for the AFPIS system for District RQT includes functional, performance and system administration requirements. • A detailed specification of requirements for implementation and support services associated with the implementation of the new AFPIS including Delivery/ Implementation, Conversion/ Loading of district Records, import of district data from main server, Training, Maintenance and Operations Support services. 	
<p>TECHNICAL REQUIREMENT FOR DISTRICT RQT</p> <p>The objective of this Tender is to obtain the systems, technologies and implementation and support services of a qualified bidder to accomplish the design, delivery and implementation of a new and modern Automated Fingerprint and Palmprint Identification System (AFPIS) with Palm Print/Slap/Rolled/Live Scanner print/on-line receipt of fingerprint data from PS AFIS, that will provide enhanced efficiency and effectiveness of the Police for identification of criminals involved in different crimes.</p> <p>The required technical specification for the new AFPIS system as reference is mentioned in this tender.</p>	
<p>TECHNICAL & IMPLEMENTATION QUALIFICATIONS FOR AFPIS for District RQT</p> <p>a.) Proposals/ Bids will not be accepted whose systems do not meet the equivalent requirements and productive use requirements mentioned in this Tender.</p> <p>b.) The proposed AFPIS system technology must be of Latest-generation technology and in presently operational use in a Law Enforcement. AFPIS that has capacity and performance specifications equivalent to or greater than those included in the accompanying AFPIS requirements specification.</p> <p>c.) In proposed new Automated Fingerprint and Palm print Identification System (AFPIS) for district RQT, the following points may be considered.</p> <ol style="list-style-type: none"> 1. Accuracy 2. Speed 3. Ease of use 4. Upgrades 5. Inter-connectivity between different system and programs. 6. Compatibility with the NAFIS. 7. Integration with the CCTNS database so as to prepare 360° profiling of criminals with inter alia other details shall also show FP and photos of the criminals. <p>Proposers will be evaluated on their ability to provide minimum One (1) Law Enforcement AFPIS installation & successful commissioning references that are comparable in size and functionality to the AFPIS, with performance that is equal to or greater than the workload capacity, response time, and accuracy requirements specified for the AFPIS, and that clearly demonstrate that proposed AFPIS technologies and products are non-developmental and in current productive operational use at the referenced location. References for systems installed in whole India are preferred. Information that must be supplied for each reference is as follows:</p> <ol style="list-style-type: none"> 1. Name of Department. 2. Address. 3. State, Country 4. Point of Contact / Indenting Officer 	

5. System Officer (Name and Title, Telephone, Email and Fax Numbers).
6. Brief system overview
7. Description with current database size.

COMPARATIVE CAPABILITIES:

- Database capacity:
- Ten prints, chance prints, palm prints, photo images.

Identification accuracy –

- Ten print, chance print, palm print, facial recognition (indicate where the stated accuracy is supported by benchmark testing).
- Identification throughout performance (number of transactions per hour) – ten print, chance print, palm print, facial recognition.
- Identification response time performance – ten print, chance print, palm print, facial recognition.

e.) Selection preference will be given to proposers that commit to meet timeframe for implementing the new AFPIS system. The goal of the AFPIS Project is to complete the design, implementation and installation of the system and achieve full production operations within 16 weeks after contract award or as soon as technical feasible.

f.) The technical information provided with the references must demonstrate or support the capability of the proposed technology to satisfy the identification functionality and performance requirements of this solicitation Tender.

DISTRICT ROT AFPIS REQUIREMENTS

1. IMPLEMENTATION REQUIREMENTS

The entire system will constitute the following parts having online integration with the central system and PS AFIS system: -

1. Finger Prints of the convicted / arrested persons and Chance Prints from scene of crime will be collected at District Finger print units /Courts which will be communicated to Central Server and will be stored at District RQTs and Central Server. On line receipt of fingerprint data from PS AFIS will also be stored at District RQTs and Central Server.

The CCTNS Network will be used for establishing connectivity for transfer of data from Police Stations to District RQT and Central Server at State Finger Print Bureau. All the police stations should be able to trigger their query through Chance print / Palm Print/Slap/Rolled/Live Scanner print after using the existing connectivity with district RQT and State Finger Print Bureau and the result should be displayed in the concerned police station/ district RQT.

The software to be offered by the vendor for District RQTs must be compatible with the existing PS AFIS with SD Live Scanner in Odisha Police procured from different vender(s).

IMPLEMENTATION SERVICES: The awarded bidder will deliver comprehensive management and technical services associated with the implementation of the system, including:

1. Project Management,
2. System Design, Implementation, Delivery, Installation, Acceptance, Testing and Migration of Operations
3. Complete system Integration and installation commitment of Hardware, Application Software, System Software, 3rd Party Software (if any) etc.
4. Data Conversion and Loading in districts
5. Bidder will have to submit the training schedule for the officials to be nominated by the Department. During Training all aspects for smooth functioning of this project will be covered including troubleshooting.
6. Operations Support and Maintenance during warranty & AMC period.

DESIRED TECHNICAL SPECIFICATIONS FOR DISTRICT RQT AFPIS SYSTEM IN BRIEF:

(1) SYSTEM SPECIFICATIONS:

(a) AFPIS Requirements:

A fully functional Automated Fingerprint and Palmprint Identification System (AFPIS) for District RQT should have a **Matching Module** which will provide Ten Print, Palm Print, Chance / Latent print search on the following pattern:

i. Ten Print Matching

- *Ten Print to Ten Print Search*
- *Ten Print (Roll + Slap =20) to Chance / Latent Print Search*
- *Ten Print to Both - Ten Print & Chance / Latent Print (Roll + Slap = 20) Database Search*

ii. Chance / Latent Print& Unsolved Scene of Crime print matching

- *Chance / Latent Print to Ten Print (Roll + Slap = 20) Search*
- *Chance / Latent Print to Chance / Latent print Search*
- *Chance / Latent Print to Both – Ten Print (Roll + Slap = 20) &Chance / Latent print Database*

iii. Palm print

- *Palm print to palm print search.*

iv. Search

- *Finger / Palm Chance / Latent to All – Ten Print (Roll + Slap = 20), Chance / Latent, Palm Print & Chance / Latent Palm print Database Search*

(b) Standard Features:

1. Automated ten print search.
2. Automated quality replacement of better prints.
3. Automated minutiae, core & delta, detection and extraction.
4. Automated pattern recognition.
5. Automated capture of logical rolled & plain print area.
6. Automated Sequence Check.
7. Automated selection of matching digit.
8. Full range of integrated chance/latent and ten print image enhancements.
9. Manual editing of minutiae and core/delta location(s) and directions(s).
10. Image capture through Palm Print/Slap/Rolled/Live Scanners & Digital Camera.
11. Facility to re-edit chance/latent print images without requiring a re-scan.
12. Facility to launch secondary searches.
13. Side- by-side comparison.
14. Rotation of chance/latent images during verification.
15. Secondary/temporary database for document case examination.
16. User defined search filters & candidate thresholds.
17. Integration of AFPIS with personal information system.
18. NIST File output, single and in batches.
19. Must be able to run on a standalone desktop/laptop system, all the way up to a nationwide system with multimillion subject databases and hundreds of Remote Query Stations
20. Customization capabilities should include the User Interface, and integration with external application e.g. Digital & Analogue photo imaging systems, live-Scan technology, external database applications and Mobile AFIS with SD Live Scanner (hand held).
21. Backlog conversion facility of finger print and attribute data of existing AFPIS.
22. Ability to trace the Finger Print sample in the database from a Photostat copy input.
23. Adult's finger print must be retrieved from the whole FP Database if the same person's juvenile finger print is available in database.
24. Charting facility for generating Grounds of opinion for document cases.
25. Ability to retrieve juvenile, Female, Suspect, Dead body print data etc. from main database.
26. Disk mirroring to eliminate the possibility of lost data due to media failure.
27. Automated database backups to ensure that key data is kept up-to-date.
28. Integration with other image enhancing systems existing in a Bureau.

(c) Desirable Features:

1. Flexible, modular and scalable solution.
2. Capture of chance/Latent images from paper/cards or directly from evidence items such as curved surfaces, using a forensic workstation.
3. User Friendly with the ability for the Fingerprint Experts/ Fingerprint proficient to quickly learn the operations of the application software.

(d) Issues to be taken into account:

<p>1. AFPIS System support at least 10 years onsite during warranty (three years Comprehensive and seven years' Service)</p> <p>2. In case the SCRB decides to change the RQT hardware at the Districts during the warranty period, the vendor shall have to migrate the software system successfully.</p> <p>3. Fingerprint data of the concerned districts are to be imported from the Central Server of Finger Print Bureau, Odisha.</p> <p>4. Integration commitment of AFPIS system & databases.</p> <p>5. Integration and installation commitment of complete system.</p> <p>6. Training needs to be imparted by the vendor after installation at the District RQT.</p>		
<p>2. AFPIS DATABASE REQUIREMENT</p> <p>AFPIS product line should feature a flexible, modular and scalable solution with open system architecture so that it connects with the existing database seamlessly .The AFPIS must be scalable and up-gradable according to specific customized needs.</p>		
<p>3. WORK LOAD / DATABASE REQUISITES AT DISTRICT RQT</p>		
Sl.No	SPECIFICATION	UNITS
Data Base		
	Ten digit slip database	25,000
Upgradability Up to 50,000		
	Number of prints to be stored/slip (Rolled & Plain/Flat	20
	Single print latent (chance) database including unsolved scene of crime collection	5,000
Upgradability	10,000	
	Textual, demographic and photographic Database	Yes
	Palm Prints	Nil
Upgradeability Up to 5,000		
Daily record and Searches		
	Number of record slips	20
	Number of search slips	50
	Updating of data (all unsuccessful search results will lead to addition to database)	50
	Number of latent (chance) prints	10
Working Hours		
	System working hours (24x7x365 days with 99.99% uptime) and no single point of failure	Round the clock
	Effective manual hours per day	8 hours
4. GENERAL REQUIREMENT FOR DISTRICT RQT AFPIS SYSTEM		
Sl. No	Description	
4.1	Redundant server architecture that automatically re-configures itself in case of failure	
4.2	Disk mirroring to eliminate the possibility of lost data due to media failure. A system of automated database backups to ensure that key data is kept up-to-date in the event of a crash	
4.3	AFPIS solution must be user friendly with the ability for the Fingerprint Experts/ Fingerprint Proficient to quickly learn the operations of the application software.	
4.4	Minimum 4 levels of security are required to access various features at District RQT – District RQT database Level Security - Network Level Security - Application Level Security - System Level Security	
4.5	The System Software (if any) to be provided should be of latest version. The firm will also give an undertaking in this regard	
4.6	AFPIS should support composite records and multiple records of the subject. The system should retain multiple records in archive up to 20 in numbers best in quality and followed by latest reference. There should be Automated Synchronization of records between composite records	

	and multiple records in archive database.
4.7	Archive module should be capable of identify, display and print on demand from archive record on standard format of Finger Print Slip, Latent Print Card, Palm images and other associated details.
4.8	Shall provide tools for verification/authentication of records between AFPIS composite database and the archive database.
4.9	The system should have Report Module capable of generating periodical statistical reports on various parameters for monitoring performance of system and its utilization by various users to be customized to meet day to day requirement
4.10	The system should be capable of providing AFPIS Inter Connectivity and able to communicate electronically with other compliant and compatible AFPIS system
4.11	The system should have ports available to integrate applications e.g. Photo Imaging Systems, Digital Media, Palm Print/Slap/Rolled/Live Scanner, Flatbed Scanner, Digital Camera etc
4.12	Should have an user interface with external Data base applications e.g. CCTNS with a common unique key.
4.13	It should also have capability to process & reply to finger print based remote query
4.14	AFPIS System should have automated monitor running processes to provide real-time detection of the occurrence of system problems, including software problems and hardware component failure with descriptions of response requirements
4.15	Administrator Module should be provided with various easy to use tool/utilities to monitor and control the system
4.16	System should have administration utilities to monitor system performance, manage transaction queues, balance workload workflow control, view and review data base records, update, modification and deletion etc.
4.17	System should have central operation control to monitor process, re-do and re-direct if necessary of any work of local workstation under supervision
4.18	Utility tool should include facility to convert the AFPIS data into various standard formats with provision to export on external storage media devices
4.19	Backup/Recovery/Disaster Management Module
4.20	AFPIS should provide for backup to reclaim the work in process files within 1 or 2 hours of a detected failure and backup capabilities to reconstruct permanent files and operating system software. The system should provide for incremental backup in every 24 hours and full back up of database once in a week.
4.21	In case of natural or induced disaster or any occurrence that may render the AFPIS partially or fully non-functional. The system should provide for solution for recovery within 6 hours that will ensure continuous and proper performance of the system and sub systems.
4.22	Existing communication between Main server, District RQT and PS AFIS will be on CCTNS connectivity already available from all police stations, DCR Bx of Districts and State Finger Print Bureau, Odisha, Bhubaneswar.
4.23	The operating system should be Windows 64 bit
4.24	The bidder should provide patches and upgrades (New versions) of STATE – AFPIS during the warranty & ATS period without any extra cost.
4.25	The system should have provision for submission of single digit search from web (browser) based PS AFIS to the District RQT – AFPIS.
5. SYSTEM ACCURACY	
5.1	The system should be capable of achieving accuracy not less than 99% for ten print and palm print, i.e. if the search is true match then it should be in the first position 99% of the time.
5.2	The system should be capable of achieving accuracy for Chance / latent print search; if the search is true match then it should be in the first position 90% of the time, in first three positions 95% of the time and in top ten positions 99% of the time.
6. SYSTEM RESPONSE TIME	
6.1	Response time will be the time required for the District RQT to search the finger print against the complete database and giving out the traced /untraced result. . The benchmark response time is around 10 seconds for Ten Digit Print and 90 Second for Latent Prints search in 1 Lac fingerprint

	database
6.2	The application should be capable to accommodate 20 Ten digit print process, 05 latent print concurrent processing and 05 Palm print process fired from the multiple locations.
6.3	District RQT – AFPIS should support image resolution of ≥ 500 ppi (or 1000 ppi (pixels per inch)) in all aspects of capture, processing and archiving. There should be no quality loss in transporting the data to the new system
6.4	Should have the capability to reproduce one to one hard copy of ten prints with flat/rolled print and Palm print (full hand) records from electronic files submitted to District RQT – AFPIS.
6.5	The system should provide for separate temporary database for document case, inmate/suspect examination
7. STANDARD MODULE REQUIREMENT FOR DISTRICT RQT	
7.1	The system should be capable of receiving, storing, matching and retrieving electronically transmitted finger & Palm prints from PS AFIS workstations.
7.2	The system should also be capable of receiving, storing and retrieving textual, demographic and photographic details of the criminal.
7.3	The system should be capable of receiving and processing inked and inkless rolled, flat & Palm print images at a resolution of ≥ 500 ppi and latent prints at a resolution of 1000 ppi (pixels per inch).
7.4	There should be facility of automated minutiae extraction, pattern recognition at least primary & secondary code. The vendor shall use maximum classifications of different attributes/features as per the system being provided by the vendor i.e. core & delta detection
7.5	The system should perform image quality check and sequence check automatically and also able to capture Rolled Print & Plain Print area & sequence validation with interactive dialog for manual assistance, if required.
7.6	In case of unacceptable, poor quality or out of order prints, the system should give alert for manual quality check with option for accepting or rejecting poor quality prints or swapping out of sequence prints
7.7	If the image is unacceptable, a message should be sent automatically to the exporting remote location/workstation
7.8	The system should have automated enhancement and encoding module
7.9	The system should provide automatic generation of transaction subject ID
7.10	The system should automatically update subject ID for identification on multiple subject IDs
7.11	The system should automatically generate composite records by using best fingerprints.
7.12	System should provide following <ul style="list-style-type: none"> • Binarize/Trace • Blur • Difference of Gaussians • Un-sharp Mask • Local Histogram Equalizations • Laplacian Sharpen However the vendor is free to give more tools • Overlap Segregation
7.13	The system must be able to separate fingerprints on multi-colored surfaces viz. currency notes, Revenue Stamps, Stamp papers, legal documents etc.
7.14	System should weed out time barred slips automatically based on age or years. Timeline in years records needs to be preserved needs to form part of the requirement and complete archival policy of data needs to be centrally governed
7.15	System should be scalable enough to seamlessly integrate AFIS Data with Iris and face Image database in all respects.
7.16	Enrolment persons should have role based biometric authentication for enrolling fingerprints in AFPIS.
7.17	Matching Module should provide Ten Print, Palm Print , Chance / Latent print search on the following pattern :-
7.17.1	Ten print Matching
	Ten Print to Ten Print Search

	Ten Print (Roll + Slap =20) to Chance / Latent Print Search
	Ten Print to Both - Ten Print & Chance / Latent Print (Roll + Slap = 20) Database Search
7.17.2	Chance / Latent Print & Unsolved Scene of Crime print matching
	Chance / Latent Print to Ten Print (Roll + Slap = 20) Search
	Chance / Latent Print to Chance / Latent print Search
	Chance / Latent Print to Both – Ten Print (Roll + Slap = 20) & Chance / Latent print Database
7.17.3	Palm print matching
	Palm print to palm print
7.17.4	Search
	Finger / Palm Latent to All – Ten Print (Roll + Slap = 20), Chance / Latent, Palm Print & Chance / Latent Palm print Database Search
8. DEMOGRAPHIC AND TEXTUAL DATA MODULE REQUIREMENT FOR DISTRICT RQT	
8.1	Storage & retrieval module should have facility of Phonetic Name Search & Indexing
8.2	Should be seamlessly integrated with Fingerprint and Palm Print Image Database in all respects
8.3	Should be retrievable by clicking on shortlist of probable match results.
8.4	Should maintain profile/dossier of a criminal viz. (i) Name (ii) Sex (iii) Parentage (iv) Addresses (v) Date of Birth (vi) Category (vii) FIR details viz. FIR No., Date, Year, U/S, P.S. & District (viii) Conviction details viz. Name of the Court, Date of conviction, U/S, Punishment awarded (ix) Photograph etc.
8.5	Should provide for sub-system for separate categories i.e. Convicted, Arrested, Suspect, Inmate, Wanted, B.C., Proclaimed Offender, Absconder etc.
8.6	Should have Input, Query and Report Module on the basis of different data fields and categories.
8.7	System should be compatible with the NCRB codification standard for storage and retrieval of criminal data.
8.8	The bidder should provide all sorts of customization required towards the demographic details
9. SEARCH & VERIFICATION REQUIREMENT FOR DISTRICT RQT	
Search Module: Search / Comparison of ten prints, Palm Prints single digit finger prints and latent prints to the AFPIS database shall have the following functions:-	
9.1	Remote Query can be fired from multiple locations at the same time. The results will be sent to the respective terminals.
9.2	Ability to have priority based processing of matching requests received from PS AFIS. The system should be capable of indicating Query No./Date wise / Time wise to the transaction in need of priority and provide tools to initiate the priority processing.
9.3	The system should generate flash to be displayed at concerned workstation (i) Sr. No. in Queue (ii) Searching (iii) Total No. of Records to be searched (iv) No. of Records searched counter (v) Approximate time to be taken to complete the processing. Total time taken shall be flashed after the completion of search.
9.4	Automated comparison of each rolled or flat ten print image against the corresponding “flat” image, to ensure proper finger identification
9.5	Automated image quality rating to each ten prints, flat print, latent print & palm Print
9.6	Multi-finger matching/searching of latent prints against all 20 finger prints (both rolled and flat) in Ten digit Print record
9.7	The latent search algorithms should also support search with no filtering and 100 % data penetration to eliminate the need to perform multiple searches of the same latent print.
9.8	Ten print & single digit print should be searched against the ten finger print database and simultaneously unsolved Chance / Latent print database.
9.9	The system should be capable to enroll and search/match a slip having less than ten print in case of amputated / bandaged / missing fingers
9.10	Palm print should be searched against the Palm print database and simultaneously unsolved Chance / Latent print database
9.11	Chance / Latent fingerprints should be searched against the ten print finger database and simultaneously unsolved Chance / Latent fingerprint data base

9.12	Chance / Latent Palm print should be searched against the Palm Print Database and simultaneously unsolved Chance / Latent palm print database.
9.13	The system should be capable of matching of Chance / Latent prints of unknown scale with given accuracy standards
9.14	The system should be able to re-submit ten digit print, palm Print and Chance / Latent print from database to search against database.
9.15	Option for Ten print, single print, Palm Print and Chance / Latent print search for identity verification without entering the record into AFPIS
9.16	AFPIS should support the ranking of candidate matches for a selected print or set of prints with the highest potential of a likely match appearing in first position
9.17	Option for operator to use data field as filter for search
9.18	Ten prints & Chance / Latent print should be searched automatically against the ten finger print database and simultaneously unsolved Chance / Latent print database.
9.19	Support for retrieving and comparing of the existing ten digit print record with the finger prints of subject short listed from the demographic data.
Verification Module	
9.20	Verification module should be available in District RQT.
9.21	Ten digit search should be based upon at-least four best finger print before the respondents are returned for manual verification and the system should perform ten finger matches automatically against each respondent to ensure accuracy.
9.22	The four highest quality finger print images available in the Ten digit search print should be selected automatically by the system through automated image quality assessment
9.23	On-screen side by side display presentation of the search print and potential matching prints from the AFPIS database. The ranking of candidate matches from potential matching print(s) with highest potential should appear on the top in descending order.
9.24	Should be able to selectively display or hide an overlay of extracted minutiae points in the onscreen image comparison and binary image display
9.25	The system should provide a convenient method to examine side-by-side same-size images of the search prints compared with the candidate list prints and the ability to proceed forward and backward through the candidate list
9.26	The system should provide for user defined threshold candidate list
9.27	The system should provide automatic charting of matching points on both the matching prints with examiner defined charting option for Court Opinion
9.28	The system should give alert if verification of Ten Print and Chance / Latent print is not attended within 24 hours.
9.29	The system should have dedicated GUI(s) for court chart preparation. Charting functions should have feature <ul style="list-style-type: none"> • Restricted access by an authorized user(s) only • Ability to support manual marking of selected minutiae points • Side-by-Side display (Disputed and Admitted/Specimen Prints) • Ability to edit complete expert report • Ability to print expert report • Facility of sending opinion report with Charting and grounds of opinion in prescribed format to Director, FPB for cross verification and digital signature.
9.30	The system should have dedicated GUI(s) for circulation of latent print cases. Circulation program should have feature <ul style="list-style-type: none"> • Restricted access by an authorized user(s) only. • Store, search and verify finger / palm prints on case database or on central database. • Ability to circulate among group of users • Ability to support manual marking of selected minutiae points
9.31	Side-by-Side display (Known and Unknown Prints)
9.32	Ability to edit complete expert report
9.33	<ul style="list-style-type: none"> • Ability to print expert report, chance print photo • Ability to send expert report to concern Police Station.

10. FUNCTION OF RQT	
10.1	<p>The RQT will be connected at Central STATE-AFPIS Headquarters and PS AFIS. They are the full functioning extended arm of the STATE-AFPIS connected by internet protocol (IP). RQTs functions as Fingerprint/ Palm print input terminal, Transaction/Communication Module, search/verification Module, Demographic and Textual Data Module and Database/Master Server for local data base (integrated in one system) only. The FP expert at the remote end will be able to send/store multi fingerprint / palm print and textual data received from PS AFIS/taken by scanner to STATE-AFPIS Server. If the search result is negative at District RQT database, RQT will automatically put the request in queue for submitting query to STATE-AFPIS. The system will have capability to set transaction priority to submit search transactions out of turn and retrieve search result for dissemination.</p>
10.2	<p>Minimum requirements for the RQTs are as follows:</p> <ul style="list-style-type: none"> i.) The RQT should have all the devices integrated into one application i.e. Finger Print Live Scanner, iris scanner (in Future), camera and flatbed scanner. ii.) The RQT should have the capability to submit transaction to the NAFIS Work Station installed in the District Hqrs. iii.) The RQT should be able to receive the results from the STATE-AFPIS and notifications if any error. iv.) The RQT should have the GUI for submitting Demographic forms and taking actions on receipt of search requests to the central STATE-AFIS system. v.) The RQT should be able to import transactions from legacy State AFIS. vi.) It should be able to capture flat with auto capture. Flats should capture as 4-4-2. On the spot segmentation should be performed and operator feedback about capture quality should be instantaneously provided. If quality requirements are not met multiple attempts should be allowed. Manual correction of the segmentation boxes should also be allowed to avoid any segmentation errors. vii.) Able to capture rolls. Rolls should be captured in a sequence and multiple attempts should be allowed if the quality requirements are not met. Automatic sequence check should be performed and position should be corrected automatically. viii.) Should have provision to upgrade to capture iris with auto capture. Iris should be captured if scanner is connected. Quality analysis on the spot and operator feedback should be provided. Multiple attempts should be allowed. ix.) Able to input palm using flatbed scanner. The scanned images should be automatically imported into the software. Automatic segmentation if required should be performed along with on the spot quality analysis. x.) Able to input inked slips. The software should be able to take legacy slips with either preformatted specification or on unformatted slip. The system should automatically detect fingers and slaps and perform segmentation with quality assessment. If the system fails to detect the operator should be given an option to manually mark the fingerprints. xi.) The RQT should be able to print hard copies of the slips and demographic data with conviction details with configured formats. xii.) The enrolment application should be capable of performing quality analysis to make sure the input data is of sufficient quality to meet the accuracy of SLA. System can use a combination of standard quality measures plus proprietary quality measurements depending on the biometric modality. xiii.) The system should be able to resubmit ten digit print, iris (in future), and palm print from database to search against database with re-editing facility. xiv.) The System should have a provision for creating secondary/temporary database for document case examination. xv.) The system should allow latent acquisition from files, digital camera and flat bed scanner. xvi.) The system should support multiple latent acquisitions associated with one individual case. xvii.) The system should provide following image pre-processing capability for assisting the examiner automatically and manually in cases of poor quality image: <ul style="list-style-type: none"> a). Filters for Flattening/Thickening, Thinning of Ridges, Reduction to single pixel level,

	<p>Edge Detection, Emboss, Distortion correction, selection of area of interest, histogram and able to separate overlaid chance prints</p> <p>b). The system should be able to separate fingerprints on multicoloured surfaces viz. currency notes, Revenue Stamps, Stamp papers, legal documents etc.</p> <p>xviii.) The system should automatically detect minutiae or allow the examiner to add or delete minutiae of determining the dpi scale if the scale is not known and submit such latent for matching with given accuracy standards.</p> <p>xix.) Verification Results to be shown as film strip or list with highest scoring matches at top position or first position.</p> <p>xx.) The system should allow the examiner to submit more than one transaction in parallel.</p> <p>xxi.) The results should come back to the examiner who had submitted the search request.</p> <p>xxii.) The system should allow the examiner to choose various combinations of filters to search in and allow either performing a lights out search or providing more selective information such as chance/latent type (finger or palm), position, orientation and search angle tolerance. In case, however, if Lights out search fails for a dead body, expert intervention can be sought for.</p> <p>xxiii.) The system should use hardware or software acceleration to facilitate smother image processing operations.</p> <p>xxiv.) The system should provide automatic / manual charting of matching points on both the matching prints with examiner defined charting option for Court Opinion.</p> <p>xxv.) The system should allow printing of court exhibits whenever required.</p> <p>xxvi.) The number of results retrieved per search transaction should be configurable.</p> <p>xxvii.) Examiner should be able to input Chance / Latent prints from files, digital camera or flatbed scanner.</p> <p>xxviii.) The system should be able to resubmit Chance / Latent print from database to search against database with re-editing facility.</p> <p>xxix.) Should be able to selectively display or hide an overlay of extracted minutiae points in the onscreen image comparison.</p> <p>xxx.) The system should have role based access.</p>
10.3	<p>Fingerprint /Palm print Database /Storage Subsystem</p>
	<ol style="list-style-type: none"> i. Should function as Warehouse for processed Fingerprint/Palm print / Criminal Attribute database. ii. Storage & retrieval module should have facility of Phonetic Name Search & Indexing. iii. Should be seamlessly integrated with Finger & Palm Print, Iris (in future) database in all respects. iv. Should be retrievable by clicking on shortlist of probable match results. v. Should maintain profile/dossier of a criminal viz. (I) Name (ii) Sex (iii) Parentage (iv) Addresses (v) Date of Birth (vi) Category (vii) FIR details viz. FIR No., Date, Year, U/S, P.S. & District (viii) Conviction details viz. Name of the Court, Date of conviction, U/S, Punishment awarded (ix) Photograph (x) MOB etc. as per requirement from time to time. vi. Should provide sub-system for separate categories i.e. Convicted, Arrested, Suspect, Wanted, Unknown Dead Body, Proclaimed Offender, Absconder etc. vii. Should have Input, Query and Report Module on the basis of different data fields and categories. viii. The tendered should provide all sorts of customization required towards the

	demographic details.
10.4	Asset Management/Reporting Subsystem/ SLA Management / Incident Management
	<ul style="list-style-type: none"> i. Management / Health of RQT, Data enter & DR. ii. Various type of Report generation regarding various type of activities happening through District RQT-AFPIS. iii. The Successful Bidder will require to deploy suitable open source SLA management / Incident management tools for proper monitoring during the post implementation phase.
10.5	Fingerprint /Palm print Transaction / Communication Subsystem
	<ul style="list-style-type: none"> i. Should take care with log report, all the incoming and outgoing Fingerprints/ Palm print data & Reports. ii. Should act as priority / Queue management system. The Remote Query Queue Management server (RQ2M) is responsible for the queue management infrastructure. All NCRB NAFIS systems will interface with the District RQT AFPIS using the queues designated for them on the Remote Query Queue Management (RQ2M) server. The transactions will be processed based on priority assigned to each transaction. External authorized agencies can also submit searches and records via the queuing interface. iii. Transaction Subsystem will be responsible for executing the workflows on the incoming data and transaction type. Fingerprint /Palm print Transaction Subsystem drives the search engine using the data provided and information available in the Identity Management System. iv. The Bidder should provide the Fingerprint /Palm print Transaction Subsystem that integrates the proposed search engine and should also have flexibility to integrate other search engines in futures. The proposed Fingerprint /Palm print Transaction Subsystem at minimum should meet the following requirements. v. The Transaction Subsystem should run on COTS hardware and should be platform independent. vi. The proposed Transaction Manager should run on Windows 64 bit operating systems. vii. Redundant server architecture that automatically re-configures itself in case of failure. viii. The proposed system should be of enterprise class and highly scalable both vertically and horizontally. ix. All transaction inside the Transaction Manager should be NIST EBTS based. x. The Transaction Subsystem should implement workflows as per Indian Law enforcement requirements.

	<ul style="list-style-type: none"> xi. Integrate with Criminal attribute database for encounter update and conviction information update. xii. Suspect search using Fingerprint / Palm Print. Unsolved Chance / Latent database should be searched along with 20 prints databases. xiii. Chance / Latent search against respective modalities and galleries i.e. 20 print, palm and unsolved databases. xiv. Enrolment and update based on recent encounter or best quality biometrics (form composite records). xv. The workflow in the Transaction Subsystem as integrated with biometric search engine in general should facilitate automated minutiae extraction, quality assessment and insertion in appropriate galleries. xvi. If the image is unacceptable, a message should be sent automatically to the workstation which submitted the transaction in case if the operator had overridden the systems alerts. xvii. Send results to requesting PS AFIS that are interested in that record. xviii. Should facilitate subscribing for a record of interest to receive notification for any kind of activity on that record. xix. Easily customizable and pluggable workflows. xx. The system should have automated enhancement and encoding module as part of the search engine which should not require any manual intervention. xxi. The Transaction Subsystem should support verification or authentication transaction. xxii. The Transaction Subsystem should provide automatic generation of transaction subject ID/ transaction control number and this transaction control number (TCN) should be traceable in the entire system through the entire life cycle of the transaction. xxiii. Remote Query can be fired from multiple locations at the same time with same or different priority. xxiv. System's ability to have priority based processing of matching requests received from workstations. The system should be capable of indicating Query No./Date-wise/ Time-wise to the transaction in need of priority and provide tools to initiate the priority processing. xxv. The Remote Query Workstation (AFPIS) of State / UT SCRIB Should integrate with all the existing legacy State AFPIS over Remote Query Queue/Priority Management System. xxvi. The system should generate flash to be displayed at concerned workstation (i) SL. No. in Queue (ii) Searching (iii) Total No. of Records to be searched (iv) No. of Records searched counter (v) Approximate time to be taken to complete the processing. Total time taken shall be flashed after the completion of search System Security. xxvii. The successful Bidder will have to develop all necessary APIs (Application Programming Interfaces), Bridge Software etc. and procure all required drivers and tools for integration with the existing State AFIS having its Central Server at State FPB, SCRIB, PS AFIS Software and Finger Print Live Scanner installed at PSs by different vendors at no extra cost. Successful Bidder shall provide the aforesaid API to SCRIB which shall verify the same. Successful Bidder shall ensure successful updation/integration with the existing State AFIS having its Central Server at State FPB, SCRIB, PS AFIS Software and Finger Print Live Scanner installed at PSs by different vendors. The successful vender shall also provide all such API/Middleware/Bridge Software for any backward
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	<p>or forward integration with third party hardware/software in future too. Successful Bidder shall also provide Table of data structure to SCRB. The aforesaid API, data and data structure shall be sole property of SCRB Odisha. SCRB shall be free to utilise such API and data structure for the purpose of integration of any third party hardware/software.</p> <p>xxviii. Zero transaction loss and thus transaction persistence should be supported.</p> <p>xxix. The Transaction Subsystem should weed out time barred slips automatically based on age or years as per our requirement.</p>
10.6	<p>System Security</p> <p>System Security: The data of District RQT-AFPIS is a valuable resource and key component of Technical Architecture. Information Security is very important to maintain Integrity, Confidentiality & Availability of data.</p> <p>i. Data needs to be protected against following threats.</p> <p>a) Unauthorized access to database or application.</p> <p>b) Accidental modifications or deletions</p> <p>c) Confidentiality, Integrity & Availability breeches of data during data transport & physical storage</p> <p>ii. Front end application should include features of MD 5/SHA encryption layer, SSL based (for web enabled), Prevention from BRUTE Force Attack, SQL Injection, other vulnerability patches etc.</p> <p>iii. Multi-layered security should be in place in order to access various features at Central Server, which must be exhibited by the vendor at the time of evaluation etc.</p>
10.7	<p>General Requirements</p> <p>i The proposed system server applications should be platform independent and should run on Windows.</p> <p>ii. Windows 64 bit operating systems.</p> <p>iii. The bidder should provide patches and upgrades (new versions) of District RQT-AFPIS system during the Warranty and ATS periods without any cost.</p> <p>iv. Redundant server architecture that automatically re-configures itself in case of failure.</p> <p>v. Disk mirroring to eliminate the possibility of lost data due to media failure. A system of automated database backups to ensure that key data is kept up-to-date in the event of a crash.</p> <p>vi. The system/solution must be user friendly with the ability for the Fingerprint Experts/Fingerprint proficient to quickly learn the operations of the application software.</p> <p>vii. The System Software to be provided should be of latest version.</p> <p>viii System should be capable of the following services: Identify / verify display and print on demand from archive record on standard format of Finger Print Slip, Chance / LatentPrint Card, Palm images and other associated details. (Complete Printing Report- Image + Demographic Info.)</p> <p>ix. The system should have a Report Module capable of generating statistical reports periodically on various parameters for monitoring performance of system and its utilization by various users to be customized to meet day to day requirement.</p> <p>x. The system should be capable of providing District RQT - AFPIS (including Palm Print) Inter Connectivity and able to communicate electronically with other compliant and compatible STATE-AFPIS systems.</p> <p>xi. The system should have automated monitor running processes to provide real-time detection of the occurrence of system problems, including software problems and hardware component failure with descriptions of response requirements.</p> <p>xii. Administrator Module should be provided with various easy to use tool/utilities to monitor and control the system.</p> <p>xiii. The system should have administration utilities to monitor system performance, manage</p>

	<p>transaction queues, balance workload, workflow control, view and review database records, update, modification and deletion etc.</p> <p>xiv. The system should have central operation control to monitor process, re-do and redirect if necessary of remote site work or any work of local workstation under supervision.</p> <p>xv. Utility tool should include facility to convert the STATE-AFPIS data (including Palm Prints) into various NIST standard formats with provision to export on external storage media devices.</p> <p>xvi. Backup/Recovery/Disaster Management Module</p> <p>xvii. The system should provide for backup to reclaim the work in process files within two hours of a detected failure and backup capabilities to reconstruct permanent files and operating system software. The system should provide for incremental backup in every 24 hours and full back up of database once in a week.</p> <p>xviii. In case of natural or induced disaster or any occurrence that may render the District RQT-AFPIS partially or fully non-functional, the system should provide for solution for recovery within six hours (or stipulated time) that will ensure continuous and proper performance of the system and sub systems.</p> <p>xix. Network connectivity between District Offices, Bureau, Courts & Police Stations will be using CCTNS network connectivity.</p> <p>xx. The system should have provision for submission of Single Digit search from Web (browser) based Remote query to the District-AFPIS.</p>
10.8	Miscellaneous Requirements
	<p>i. The system should feature dynamic quality upgrade of stored fingerprints and palm prints at the time of each trace, by maintaining a virtual set of best quality prints from the entire set of available prints for a given person. It should be possible for an expert to manually set a quality for a given print.</p> <p>ii. Automatic Henry Classification of 10 digits F.P. Record / Search Slip.</p> <p>iii. Automated ridge direction determination.</p> <p>iv. Automated core and delta detection and extraction.</p> <p>v. . Automated minutiae quality assignment.</p> <p>vi. Automated search chance print up to 360 degree Orientation.</p> <p>vii. Capability to take chance print negative image directly & match it.</p> <p>viii. Automated capture of logical rolled print area.</p> <p>ix. Automated capture of logical plain print area and comparison of plain prints with rolled prints.</p> <p>x. Automated integration of District RQT-AFPIS with personal information system (Criminal Attribute) for storage and retrieval.</p> <p>xi. Automated selection of matching digit, which is best in quality in search slip and database for verification.</p> <p>xii. The system should fully support the capability to capture multiple chance/latent prints associated with a particular case.</p> <p>xiii. The system should provide the ability to capture the associated case data and link this data to each chance/latent print in the case.</p> <p>xiv. The system should facilitate Chance/latent print images to be re-edited and launched for secondary searches without requiring a re-scan of the chance/latent print.</p> <p>xv. The system should also have a full range of integrated chance/latent and ten print image enhancing capabilities.</p> <p>xvi. Data conversion tools to convert the data of existing STATE-AFPIS.</p> <p>xvii. Automated Ten Digit Update</p> <p>xviii. Automated Chance / Latent Print Update</p> <p>xix. Finger Print and Demographic Data acquisition: It should have the capacity to record and maintain interactive Finger Print and demographic data acquisition.</p> <p>xx. Efficient case processing and linking with the captured Chance / Latent palm print.</p> <p>xxi. Automated search against unresolved chance / latent records during new Ten Digit Slip registration / replace.</p> <p>xxii. Networking and Data Updating Capabilities</p> <p>xxiii. Inter District RQT-AFPIS Data Portability and Query Processing.</p>

	xxiv. Secure and Stable Database with Licensing xxv. Architecture should be scalable. xxvi. System Administration xxvii. Antivirus support with patches and upgrades (during Warranty and ATS periods) xxviii. Demographic Details Information Management. xxix. Availability of Interfaces for Integration with other Indian police Software xxx. Finger Print and Demographic Data Report Generation. xxxi. Maintenance and Support. It should have a capability of creating local removable data base for temporary comparison work. xxxii. Facility for high availability disaster recovery (HADR)
11. Technical Terms & Conditions for District RQT- AFPIS System	
11.1	The quantity of District RQT- AFPIS Workstations and or any other item can be increased or decreased at any stage till the delivery of consignment is complete.
11.2	Sole proprietary and ownership / License rights of all the hardware and software including data will be with the Odisha Police.
11.3	It is mandatory that all the desired features should be demonstrated at the time of technical evaluation of the system. No second chance shall be provided for demonstration. Technical offers which shall be found half/partial complied shall be treated as cancelled.
11.4	Existing ten digit fingerprint slips of criminals along with textual demographic data and chance/latent prints have to be transported from the database lying with the districts have to be migrated by the successful bidder at its own cost and efforts.
11.5	The successful firm shall provide on-site warranty of Software for a period of Ten years (three years Comprehensive and seven years' Service)
11.6	The successful bidder will organize a training program (as decided by the authority) to train the Odisha Police Personnel for proper handling of the System.
11.7	All desired customization shall be provided free of cost. One full time well qualified & experienced computer programmer is to be provided for six months at no extra cost to Odisha Police for customization from the date of installation in Districts. A system report must be prepared prior to development of application incorporating all the requirements.
11.8	Technical support of all types should be available within four hours of lodging any complaint. In case of major problem, solution is to be provided within 24 hours of lodging of complaint.
11.9	The firm providing the AFPIS software should have successful working experience with other State Police in India.
11.10	All systems must utilize a Windows 64-bit operating system
11.11	Vendor must have at least one successful operational install in India with current updates (till Tender date)
11.12	Service / Helpdesk Information Cards with details (Address of Centre with nearest place to installation, phone no., engineer name etc.) be provided along with equipment to all locations
11.13	The rates finalized will be valid for one year.
11.14	The supplier shall furnish complete, well fabricated and reliably operating and four level secure centralized systems. Design of software shall be consistent with the requirements of long-term trouble free operation with highest degree of reliability and maintainability. The software shall operate safely with the existing equipment like RQTs, Live Scanners, Flatbed scanners, Web cameras, Digital cameras etc. without undue heating, vibration, wear, corrosion, electromagnetic interference or similar problems and all software shall be proven, tested and reliable.
11.15	The successful bidder is required to supply the latest updates, patches and upgrades of Software free of cost during the warranty period
11.16	The successful bidder shall be responsible for connecting all Police Stations of the concerned District to District RQT-AFPIS and Central AFPIS at SCRB(FPB) through CCTNS Connectivity already available with Odisha Police. Bidder will use this connectivity during implementation of the project.
11.17	. The system should give high accuracy rate in matching the partial and Chance / Latent prints
11.18	The system should have provision for accepting fingerprints through Palm

	Print/Slap/Rolled/Live Scanners, digital cameras, scanning the chance/latent print or the live mug shot. It should accept demographic data (Criminal Attribute Data Base). While printing the reports it should be able to fetch these records and prepare a combined report containing expert opinion, grounds of opinion, the questioned print, the matched print, the demographic details and the mug shot of the individual.
11.19	The District RQT-AFPIS system should be able to prepare and print quality and quantity reports. It should be able to print individual workstation performance and the time taken in processing different queries. It should keep a log of all users of the District RQT so as to permit carrying of the audit trails. It should be able to provide the list of Records that are fit for weeding out. District RQT-AFPIS should provide fingerprint matching in the following ways – a.) Ten print to ten print match, b.) Single digit print to ten print match, c.) Partial print to ten print match, d.) Partial print to partial print and e) Palm print to Palm print.
11.20	In District RQT-AFPIS systems facility is required to work out Serial Crimes that thought unsolved need to be looked into, from the angle if the identical criminal was involved in all of the crimes
11.21	The system should be capable in handling the increased workload without needing an up gradation within the warranty period.
11.22	Matching Accuracy: The District RQT-AFPIS system should have zero false acceptance rate and true rejection rate. The system should give high accuracy rate in matching the partial and Chance / Latent prints as well.
11.23	The system should permit search with or without information about Core and Delta or about a particular digit. We require to store all the ten print.
12	Compatibility: The digital scanner and web camera provided to Odisha Police uses operation systems of the OEM. The application developed must be fully compatible with the O/S of the scanners and should be implemented in a cloud computing or similar mode has to ensure that current scanners and web camera can be fully used to their maximum specified potential.

TECHNICAL EVALUATION METHODOLOGY

1. QCBS (Quality Cost-Based Selection) will be followed for evaluation. The technical proposals will be allotted weightage of 70% while the financial proposals will be allotted weightage of 30%. The pass mark is 70% in technical evaluation .Hence commercial bids of only those participants who satisfied this criterion will be opened. Thus, the final score will be obtained by adding their technical score and commercial score.
2. **COMMERCIAL SCORING MATRIX (CS):** Price offered inclusive of all taxes = CS: it is the value of price offered by vender in its commercial bids.
3. **Technical evaluation scoring matrix (TS): the methodology for technical score calculation is detailed below.**

Sl. No.	Marks distribution	Weightage
1	Solution/live demonstration	10 marks
2	Ten digits search test in database of 10000 slips	20 marks
3	Latent prints search in database of 10000 slips	20 marks
4	On Line submission of Data to Central Server(FPBSCR B)	10 marks
5	Palmp rint Search to database of 1000 Palms	20 marks
6	Compliance of NIST Data to CFPB(NCRB) NAFIS*	20marks

*Documentary support (with number and date with clear designation of issuing authority) is required for this compliance.

Total TS = 100 marks

Qualifying Marks (70)

Formula for calculating commercial score (CS)

$TS = L1 / \text{Price quoted by the respective bidder} \times 100$

4. Formula for calculating final score (FS) by QCBS basic.

$FS (\text{Final score}) = TS(\text{Technical score}) \times 0.70 + CS (\text{Commercial score}) \times 0.30$

The bidder who has scored highest shall be given FS-1 rest FS-2, FS-3 and so on. FS-1 will be called for negotiation and subsequent preceding as per tendering condition for award of contract.

NOTE: In QCBS Method the highest score is recommended for further negotiation and the contract is awarded by the appropriate authority.

SECTION –VI

FORMATS FOR SUBMISSION OF BID

(Technical Bid)

FORMAT – T 1

CHECK LIST

(To be submitted in *Part I -Technical Bid*)

The documents have to be arranged as per the order mentioned in checklist for ease of scrutiny.

The bidder has to **upload the documents** as mentioned in Check list (**in PDF format**) **online** in the **e-procurement portal**, on or before the due date & time of submission of technical bid.

Copies of the all the documents uploaded in the technical bid shall **also to be submitted** along with the **Tender Document Cost** on or before the online technical bid opening. However, the copy of all documents should be exactly the same as uploaded in e-tender portal.

Name of the Bidder	
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Sl · N o	Item	Whethe r include d Yes / No	Pag e No.
1	Format – T1 (Check List)		
2	Bid Document Cost as DD (Rs.590/- for any or all the item)		
3	Format – T2 (Details of Items quoted) / Technical Specification compliance sheet		
4	Format – T3 (Bid Security Declaration)		
5	Copy of the GST registration certificate		
6	Copy of PAN (Income Tax)		
7	Copy of IT Returns of the financial years during 2018- 19, 2019-20 and 2020-21 or 2020-21, 2021-22 and 2022-23.		
8	Format – T4 (Details of Bidder)		
9	Format – T5 (Declaration Form)		

10	Format – T6 (Annual Turnover Statement by Chartered Accountant)		
11	Copies of the annual audited statement/Annual Report for during 2018- 19, 2019-20 and 2020-21 or 2020-21, 2021-22 and 2022-23..(Provisional statement of account shall not be considered)		
12	Format–T7 (Performance Statement during the last three Years)		
13	Format–T8 (Land border sharing certificate)		
14	Photo copy of valid manufacturing license / Import license for each and every product quoted.		
15	Valid up-to-date Good manufacturing practice certificate as per revised schedule-M (GMP (for MSMEs registered within the state of Odisha)).		
16	Non Conviction certificate issued by the licensing authority of the state that the manufacturers/importer have not been convicted.		
17	ISO Certificate		
18	BIS/CE Certificate (if any)		
19	Any other document required as per the technical specification (Section-IV)(i.e. Product Brochure/ Catalog/Data Sheet etc.)		

All the documents to be furnished in the checklist has to be page numbered. All the formats (T1 – T8) are to be filled up mandatorily.

Note:

- 1) Mentioning of Page Nos. in the relevant column as mentioned above is mandatory for ease of scrutiny.
- 2) No price information (i.e. Scanned copy of the price format etc.) to be uploaded in Technical Bid.
- 3) After preparation of the all the documents as per checklist, the bidders have to put the page nos. on each page and put the signature of the authorized signatory & seal. Then each page has to be scanned and the scanned document to be uploaded in the e-tender portal before the scheduled date & time.
- 4) The bidders can find two files [(i) Scan copy of Tender document cost, VAT, PAN etc. & (ii) All documents as per check list T1] in technical bid for uploading their files.

However, for management of space the bidders can divide their scanned documents in two parts and upload one part in one file and balance document in the second file to avoid any space constraint.

Format – T2

Details of Item quoted :-

Technical specifications compliance sheet of the item

TECHNICAL SPECIFICATIONS for Up-gradation version of AFIS (AFPIS) Software for District RQT

Sl. No.	TECHNICAL SPECIFICATIONS for Up-gradation version of AFIS (AFPIS) Software for District RQT		
	<p><u>OBJECTIVE:</u> The Odisha Police has already implemented the Up-graded version of AFPIS (Automated Finger Print & Palm Print Identification System). As part of this project, Servers are being up-graded at the State level and PS AFIS with SD Live Scanner and Web Camera are being provided to Police Stations. The Up-graded version of AFIS (AFPIS) software in 24 District RQTs is currently functional. The main objective of the software is to establish a local database at District level and retrieve Fingerprint Data between PS AFIS, District RQT Software and Up-graded version of AFIS (AFPIS) Software installed in the Central Server of SCRIB (FPB).</p> <p><u>Introduction:</u> This will be a competitively negotiated procurement; therefore, proposers/ bidders should submit their best proposal. The Police department reserves the right to award a contract to the proposer submitting the proposal determined to be most advantageous and in the interest of Police i.e. technicality, price and other factors considered. The initial contract period will cover the system design, delivery, implementation & commissioning followed by a 5-years (3 years comprehensive + 2 years' Service) onsite warranty period, followed by an optional annual maintenance charge (AMC) or multi-year extended warranty period till next 5 years after warranty. This solicitation / RFP include the following:</p> <p>The successful Bidder will have to develop all necessary APIs (Application Programming Interfaces), Bridge Software etc. and procure all required drivers and tools for integration with the existing State AFIS having its Central Server at State FPB, SCRIB, PS AFIS Software and Finger Print Live Scanner installed at PSs by different vendors at no extra cost. Successful Bidder shall provide the aforesaid API to SCRIB which shall verify the same. Successful Bidder shall ensure successful updation/integration with the existing State AFIS having its Central Server at State FPB, SCRIB, PS AFIS Software and Finger Print Live Scanner installed at PSs by different vendors. The successful vender shall also provide all such API/Middleware/Bridge Software for any backward or forward integration with third party hardware/software in future too. Successful Bidder shall also provide Table of data structure to SCRIB. The aforesaid API, data and data structure shall be sole property of SCRIB Odisha. SCRIB shall be free to utilise such API and date structure for the purpose of integration of any third party hardware/software.</p>		

COMPLIANCES WITH INTERNATIONAL STANDARDS			
XII.	NIST Compliance to Data Format for the Interchange of Fingerprint, Facial, Iris & other Biometric Information ANSI (American National Standards Institute)/NIST-ITL 1-2011). The NIST files should be in compliance with NCRB NAFIS NIST Data Format.		
XIII.	JPEG compression for mug-shot images (ANSI/NIST – ITL 12011)		
XIV.	Minutiae and related information encoded from a finger or palm: ANSI/NIST Type-9 (ANSI / NIST–ITL 1-2011)		
XV.	Ten-print Processing: 500/1000 ppi ANSI/NIST Type-4 Images (ANSI/NIST–ITL 1-2011)		
XVI.	Palm Print Processing: 500 ppi/1000 ppi ANSI/NIST Type-15 Images (ANSI/NIST– ITL 1-2011, ANSI/NIST–CSL 1-1993)		
XVII.	Electronic Fingerprint Transmission Specification (EFTS)		
XVIII.	A certified version of the Wavelet Scalar Quantization (WSQ) algorithm as specified by ISTATEAFIS- IC-0110 (V3.1) for lossy compression of fingerprint images scanned and transmitted at 500 ppi		
XIX.	Finger Image standard as per the ISO/ IEC 19794- 4		
XX.	Minutiae Image standard as per the ISO/ IEC 19794-2		
XXI.	Benchmarked in Slap Finger print Segmentation Evaluation (SlapSeg04) by NIST		
XXII.	Bidder/ Any consortium member in case of consortium/Algorithm developer/ OEM must have participated in NIST ELFTEFS evaluation program conducted by NIST in 2010 for chance print encoding and FP Data interoperability		
AFPIS REQUIREMENTS SPECIFICATION for District RQT:			
<ul style="list-style-type: none"> • Technical specification for the AFPIS system for District RQT includes functional, performance and system administration requirements. • A detailed specification of requirements for implementation and support services associated with the implementation of the new AFPIS including Delivery/ Implementation, Conversion/ Loading of district Records, import of district data from main server, Training, Maintenance and Operations Support services. 			
TECHNICAL REQUIREMENT FOR DISTRICT RQT			
<p>The objective of this Tender is to obtain the systems, technologies and implementation and support services of a qualified bidder to accomplish the design, delivery and implementation of a new and modern Automated Fingerprint and Palmprint Identification System (AFPIS) with Palm Print/Slap/Rolled/Live Scanner print/on-line receipt of fingerprint data from PS AFIS, that will provide enhanced efficiency and effectiveness of the Police for identification of criminals involved in different crimes.</p> <p>The required technical specification for the new AFPIS system as reference is mentioned in this tender.</p>			

<p>TECHNICAL & IMPLEMENTATION QUALIFICATIONS FOR AFPIS for District RQT</p> <p>a.) Proposals/ Bids will not be accepted whose systems do not meet the equivalent requirements and productive use requirements mentioned in this Tender.</p> <p>b.) The proposed AFPIS system technology must be of Latest-generation technology and in presently operational use in a Law Enforcement. AFPIS that has capacity and performance specifications equivalent to or greater than those included in the accompanying AFPIS requirements specification.</p> <p>c.) In proposed new Automated Fingerprint and Palm print Identification System (AFPIS) for district RQT, the following points may be considered.</p> <ol style="list-style-type: none"> 1. Accuracy 2. Speed 3. Ease of use 4. Upgrades 5. Inter-connectivity between different system and programs. 6. Compatibility with the NAFIS. 7. Integration with the CCTNS database so as to prepare 360° profiling of criminals with inter alia other details shall also show FP and photos of the criminals. <p>Proposers will be evaluated on their ability to provide minimum One (1) Law Enforcement AFPIS installation & successful commissioning references that are comparable in size and functionality to the AFPIS, with performance that is equal to or greater than the workload capacity, response time, and accuracy requirements specified for the AFPIS, and that clearly demonstrate that proposed AFPIS technologies and products are non-developmental and in current productive operational use at the referenced location. References for systems installed in whole India are preferred. Information that must be supplied for each reference is as follows:</p> <ol style="list-style-type: none"> 1. Name of Department. 2. Address. 3. State, Country 4. Point of Contact / Indenting Officer 5. System Officer (Name and Title, Telephone, Email and Fax Numbers). 6. Brief system overview 7. Description with current database size. <p>COMPARATIVE CAPABILITIES:</p> <ul style="list-style-type: none"> • Database capacity: • Ten prints, chance prints, palm prints, photo images. <p>Identification accuracy –</p> <ul style="list-style-type: none"> • Ten print, chance print, palm print, facial recognition (indicate where the stated accuracy is supported by benchmark testing). • Identification throughout performance (number of transactions per hour) – ten print, chance print, palm print, facial recognition. • Identification response time performance – ten print, chance print, palm print, facial recognition. <p>e.) Selection preference will be given to proposers that commit to meet timeframe for implementing the new AFPIS system. The goal of the AFPIS Project is to complete the design, implementation and installation of the system</p>		
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<p>and achieve full production operations within 16 weeks after contract award or as soon as technical feasible.</p> <p>f.) The technical information provided with the references must demonstrate or support the capability of the proposed technology to satisfy the identification functionality and performance requirements of this solicitation Tender.</p>		
<p><u>DISTRICT RQT AFPIS REQUIREMENTS</u></p> <p><u>1. IMPLEMENTATION REQUIREMENTS</u></p> <p>The entire system will constitute the following parts having online integration with the central system and PS AFIS system: -</p> <p>1. Finger Prints of the convicted / arrested persons and Chance Prints from scene of crime will be collected at District Finger print units /Courts which will be communicated to Central Server and will be stored at District RQTs and Central Server. On line receipt of fingerprint data from PS AFIS will also be stored at District RQTs and Central Server.</p> <p>The CCTNS Network will be used for establishing connectivity for transfer of data from Police Stations to District RQT and Central Server at State Finger Print Bureau. All the police stations should be able to trigger their query through Chance print / Palm Print/Slap/Rolled/Live Scanner print after using the existing connectivity with district RQT and State Finger Print Bureau and the result should be displayed in the concerned police station/ district RQT.</p> <p>The software to be offered by the vendor for District RQTs must be compatible with the existing PS AFIS with SD Live Scanner in Odisha Police procured from different vender(s).</p> <p>IMPLEMENTATION SERVICES: The awarded bidder will deliver comprehensive management and technical services associated with the implementation of the system, including:</p> <ol style="list-style-type: none"> 7. Project Management, 8. 2. System Design, Implementation, Delivery, Installation, Acceptance, Testing and Migration of Operations 9. Complete system Integration and installation commitment of Hardware, Application Software, System Software, 3rd Party Software (if any) etc. 10. Data Conversion and Loading in districts 11. Bidder will have to submit the training schedule for the officials to be nominated by the Department. During Training all aspects for smooth functioning of this project will be covered including troubleshooting. 12. Operations Support and Maintenance during warranty & AMC period. 		
<p>DESIRED TECHNICAL SPECIFICATIONS FOR DISTRICT RQT AFPIS SYSTEM IN BRIEF:</p>		

<p>(1) <u>SYSTEM SPECIFICATIONS:</u></p>		
<p>(a) AFPIS Requirements: A fully functional Automated Fingerprint and Palmprint Identification System (AFPIS) for District RQT should have a Matching Module which will provide Ten Print, Palm Print, Chance / Latent print search on the following pattern:</p> <p>i. Ten Print Matching</p> <ul style="list-style-type: none"> • <i>Ten Print to Ten Print Search</i> • <i>Ten Print (Roll + Slap =20) to Chance / Latent Print Search</i> • <i>Ten Print to Both - Ten Print & Chance / Latent Print (Roll + Slap = 20) Database Search</i> <p>ii. Chance / Latent Print& Unsolved Scene of Crime print matching</p> <ul style="list-style-type: none"> • <i>Chance / Latent Print to Ten Print (Roll + Slap = 20) Search</i> • <i>Chance / Latent Print to Chance / Latent print Search</i> • <i>Chance / Latent Print to Both – Ten Print (Roll + Slap = 20) &Chance / Latent print Database</i> <p>iii. Palm print</p> <ul style="list-style-type: none"> • <i>Palm print to palm print search.</i> <p>iv. Search</p> <ul style="list-style-type: none"> • <i>Finger / Palm Chance / Latent to All – Ten Print (Roll + Slap = 20), Chance / Latent, Palm Print & Chance / Latent Palm print Database Search</i> 		
<p>(b) Standard Features:</p> <ol style="list-style-type: none"> 1. Automated ten print search. 2. Automated quality replacement of better prints. 3. Automated minutiae, core & delta, detection and extraction. 4. Automated pattern recognition. 5. Automated capture of logical rolled & plain print area. 6. Automated Sequence Check. 7. Automated selection of matching digit. 8. Full range of integrated chance/latent and ten print image enhancements. 9. Manual editing of minutiae and core/delta location(s) and directions(s). 10. Image capture through Palm Print/Slap/Rolled/Live Scanners & Digital Camera. 11. Facility to re-edit chance/latent print images without requiring a re-scan. 12. Facility to launch secondary searches. 13. Side- by-side comparison. 14. Rotation of chance/latent images during verification. 15. Secondary/temporary database for document case examination. 16. User defined search filters & candidate thresholds. 17. Integration of AFPIS with personal information system. 18. NIST File output, single and in batches. 19. Must be able to run on a standalone desktop/laptop system, all the way up to a nationwide system with multimillion subject databases and hundreds of Remote Query Stations 20. Customization capabilities should include the User Interface, and integration with external application e.g. Digital & Analogue photo imaging systems, live-Scan technology, external database applications and Mobile AFIS with SD Live Scanner (hand held). 21. Backlog conversion facility of finger print and attribute data of existing 		

AFPIS. 22. Ability to trace the Finger Print sample in the database from a Photostat copy input. 23. Adult's finger print must be retrieved from the whole FP Database if the same person's juvenile finger print is available in database. 24. Charting facility for generating Grounds of opinion for document cases. 25. Ability to retrieve juvenile, Female, Suspect, Dead body print data etc. from main database. 26. Disk mirroring to eliminate the possibility of lost data due to media failure. 27. Automated database backups to ensure that key data is kept up-to-date. 28. Integration with other image enhancing systems existing in a Bureau.			
(c) Desirable Features: 1. Flexible, modular and scalable solution. 2. Capture of chance/Latent images from paper/cards or directly from evidence items such as curved surfaces, using a forensic workstation. 3. User Friendly with the ability for the Fingerprint Experts/ Fingerprint proficient to quickly learn the operations of the application software.			
(d) Issues to be taken into account: 1. AFPIS System support at least 10 years onsite during warranty (three years Comprehensive and seven years' Service) 2. In case the SCRB decides to change the RQT hardware at the Districts during the warranty period, the vendor shall have to migrate the software system successfully. 3. Fingerprint data of the concerned districts are to be imported from the Central Server of Finger Print Bureau, Odisha. 4. Integration commitment of AFPIS system & databases. 5. Integration and installation commitment of complete system. 6. Training needs to be imparted by the vendor after installation at the District RQT.			
2. AFPIS DATABASE REQUIREMENT AFPIS product line should feature a flexible, modular and scalable solution with open system architecture so that it connects with the existing database seamlessly. The AFPIS must be scalable and up-gradable according to specific customized needs.			
3. WORK LOAD / DATABASE REQUISITES AT DISTRICT RQT			
4. GENERAL REQUIREMENT FOR DISTRICT RQT AFPIS SYSTEM			
Sl. No	Description		
4.1	Redundant server architecture that automatically re-configures itself in case of failure		
4.2	Disk mirroring to eliminate the possibility of lost data due to media failure. A system of automated database backups to ensure that key data is kept up-to-date in the event of a crash		
4.3	AFPIS solution must be user friendly with the ability for the Fingerprint Experts/ Fingerprint Proficient to quickly learn the operations of the application software.		

4.4	Minimum 4 levels of security are required to access various features at District RQT – District RQT database Level Security - Network Level Security - Application Level Security - System Level Security		
4.5	The System Software (if any) to be provided should be of latest version. The firm will also give an undertaking in this regard		
4.6	AFPIS should support composite records and multiple records of the subject. The system should retain multiple records in archive up to 20 in numbers best in quality and followed by latest reference. There should be Automated Synchronization of records between composite records and multiple records in archive database.		
4.7	Archive module should be capable of identify, display and print on demand from archive record on standard format of Finger Print Slip, Latent Print Card, Palm images and other associated details.		
4.8	Shall provide tools for verification/authentication of records between AFPIS composite database and the archive database.		
4.9	The system should have Report Module capable of generating periodical statistical reports on various parameters for monitoring performance of system and its utilization by various users to be customized to meet day to day requirement		
4.10	The system should be capable of providing AFPIS Inter Connectivity and able to communicate electronically with other compliant and compatible AFPIS system		
4.11	The system should have ports available to integrate applications e.g. Photo Imaging Systems, Digital Media, Palm Print/Slap/Rolled/Live Scanner, Flatbed Scanner, Digital Camera etc		
4.12	Should have an user interface with external Data base applications e.g. CCTNS with a common unique key.		
4.13	It should also have capability to process & reply to finger print based remote query		
4.14	AFPIS System should have automated monitor running processes to provide real-time detection of the occurrence of system problems, including software problems and hardware component failure with descriptions of response requirements		
4.15	Administrator Module should be provided with various easy to use tool/utilities to monitor and control the system		
4.16	System should have administration utilities to monitor system performance, manage transaction queues, balance workload workflow control, view and review data base records, update, modification and deletion etc.		
4.17	System should have central operation control to monitor process, re-do and re-direct if necessary of any work of		

	local workstation under supervision		
4.18	Utility tool should include facility to convert the AFPIS data into various standard formats with provision to export on external storage media devices		
4.19	Backup/Recovery/Disaster Management Module		
4.20	AFPIS should provide for backup to reclaim the work in process files within 1 or 2 hours of a detected failure and backup capabilities to reconstruct permanent files and operating system software. The system should provide for incremental backup in every 24 hours and full back up of database once in a week.		
4.21	In case of natural or induced disaster or any occurrence that may render the AFPIS partially or fully non-functional. The system should provide for solution for recovery within 6 hours that will ensure continuous and proper performance of the system and sub systems.		
4.22	Existing communication between Main server, District RQT and PS AFIS will be on CCTNS connectivity already available from all police stations, DCRBx of Districts and State Finger Print Bureau, Odisha, Bhubaneswar.		
4.23	The operating system should be Windows 64 bit		
4.24	The bidder should provide patches and upgrades (New versions) of STATE – AFPIS during the warranty & ATS period without any extra cost.		
4.25	The system should have provision for submission of single digit search from web (browser) based PS AFIS to the District RQT – AFPIS.		
5. SYSTEM ACCURACY			
5.1	The system should be capable of achieving accuracy not less than 99% for ten print and palm print, i.e. if the search is true match then it should be in the first position 99% of the time.		
5.2	The system should be capable of achieving accuracy for Chance / latent print search; if the search is true match then it should be in the first position 90% of the time, in first three positions 95% of the time and in top ten positions 99% of the time.		
6. SYSTEM RESPONSE TIME			
6.1	Response time will be the time required for the District RQT to search the finger print against the complete database and giving out the traced /untraced result. . The benchmark response time is around 10 seconds for Ten Digit Print and 90 Second for Latent Prints search in 1 Lac fingerprint database		
6.2	The application should be capable to accommodate 20 Ten digit print process, 05 latent print concurrent processing and 05 Palm print process fired from the multiple locations.		
6.3	District RQT – AFPIS should support image resolution of ≥ 500 ppi (or 1000 ppi (pixels per inch)) in all aspects		

	of capture, processing and archiving. There should be no quality loss in transporting the data to the new system		
6.4	Should have the capability to reproduce one to one hard copy of ten prints with flat/rolled print and Palm print (full hand) records from electronic files submitted to District RQT – AFPIS.		
6.5	The system should provide for separate temporary database for document case, inmate/suspect examination		
7. STANDARD MODULE REQUIREMENT FOR DISTRICT RQT			
7.1	The system should be capable of receiving, storing, matching and retrieving electronically transmitted finger & Palm prints from PS AFIS workstations.		
7.2	The system should also be capable of receiving, storing and retrieving textual, demographic and photographic details of the criminal.		
7.3	The system should be capable of receiving and processing inked and inkless rolled, flat & Palm print images at a resolution of ≥ 500 ppi and latent prints at a resolution of 1000 ppi (pixels per inch).		
7.4	There should be facility of automated minutiae extraction, pattern recognition at least primary & secondary code. The vendor shall use maximum classifications of different attributes/features as per the system being provided by the vendor i.e. core & delta detection		
7.5	The system should perform image quality check and sequence check automatically and also able to capture Rolled Print & Plain Print area & sequence validation with interactive dialog for manual assistance, if required.		
7.6	In case of unacceptable, poor quality or out of order prints, the system should give alert for manual quality check with option for accepting or rejecting poor quality prints or swapping out of sequence prints		
7.7	If the image is unacceptable, a message should be sent automatically to the exporting remote location/workstation		
7.8	The system should have automated enhancement and encoding module		
7.9	The system should provide automatic generation of transaction subject ID		
7.10	The system should automatically update subject ID for identification on multiple subject IDs		
7.11	The system should automatically generate composite records by using best fingerprints.		
7.12	System should provide following <ul style="list-style-type: none"> • Binarize/Trace • Blur • Difference of Gaussians • Un-sharp Mask • Local Histogram Equalizations • Laplacian Sharpen However the vendor is free to give 		

	more tools • Overlap Segregation		
7.13	The system must be able to separate fingerprints on multi-colored surfaces viz. currency notes, Revenue Stamps, Stamp papers, legal documents etc.		
7.14	System should weed out time barred slips automatically based on age or years. Timeline in years records needs to be preserved needs to form part of the requirement and complete archival policy of data needs to be centrally governed		
7.15	System should be scalable enough to seamlessly integrate AFIS Data with Iris and face Image database in all respects.		
7.16	Enrolment persons should have role based biometric authentication for enrolling fingerprints in AFPIS.		
7.17	Matching Module should provide Ten Print, Palm Print , Chance / Latent print search on the following pattern :-		
7.17.1	Ten print Matching		
	Ten Print to Ten Print Search		
	Ten Print (Roll + Slap =20) to Chance / Latent Print Search		
	Ten Print to Both - Ten Print &Chance / Latent Print (Roll + Slap = 20) Database Search		
7.17.2	Chance / LatentPrint& Unsolved Scene of Crime print matching		
	Chance / Latent Print to Ten Print (Roll + Slap = 20) Search		
	Chance / Latent Print to Chance / Latent print Search		
	Chance / Latent Print to Both – Ten Print (Roll + Slap = 20) &Chance / Latent print Database		
7.17.3	Palm print matching		
	Palm print to palm print		
7.17.4	Search		
	Finger / Palm Latent to All – Ten Print (Roll + Slap = 20), Chance / Latent, Palm Print & Chance / Latent Palm print Database Search		
8. DEMOGRAPHIC AND TEXTUAL DATA MODULE REQUIREMENT FOR DISTRICT RQT			
8.1	Storage & retrieval module should have facility of Phonetic Name Search & Indexing		
8.2	Should be seamlessly integrated with Fingerprint and Palm Print Image Database in all respects		
8.3	Should be retrievable by clicking on shortlist of probable match results.		
8.4	Should maintain profile/dossier of a criminal viz. (i) Name (ii) Sex (iii) Parentage (iv) Addresses (v) Date of Birth (vi) Category (vii) FIR details viz. FIR No., Date, Year, U/S, P.S. & District (viii) Conviction details viz. Name of the Court, Date of conviction, U/S, Punishment awarded (ix) Photograph etc.		
8.5	Should provide for sub-system for separate categories		

	i.e. Convicted, Arrested, Suspect, Inmate, Wanted, B.C., Proclaimed Offender, Absconder etc.		
8.6	Should have Input, Query and Report Module on the basis of different data fields and categories.		
8.7	System should be compatible with the NCRB codification standard for storage and retrieval of criminal data.		
8.8	The bidder should provide all sorts of customization required towards the demographic details		
9. SEARCH & VERIFICATION REQUIREMENT FOR DISTRICT RQT			
Search Module: Search / Comparison of ten prints, Palm Prints single digit finger prints and latent prints to the AFPIIS database shall have the following functions:-			
9.1	Remote Query can be fired from multiple locations at the same time. The results will be sent to the respective terminals.		
9.2	Ability to have priority based processing of matching requests received from PS AFIS. The system should be capable of indicating Query No./Date wise / Time wise to the transaction in need of priority and provide tools to initiate the priority processing.		
9.3	The system should generate flash to be displayed at concerned workstation (i) Sr. No. in Queue (ii) Searching (iii) Total No. of Records to be searched (iv) No. of Records searched counter (v) Approximate time to be taken to complete the processing. Total time taken shall be flashed after the completion of search.		
9.4	Automated comparison of each rolled or flat ten print image against the corresponding “flat” image, to ensure proper finger identification		
9.5	Automated image quality rating to each ten prints, flat print, latent print & palm Print		
9.6	Multi-finger matching/searching of latent prints against all 20 finger prints (both rolled and flat) in Ten digit Print record		
9.7	The latent search algorithms should also support search with no filtering and 100 % data penetration to eliminate the need to perform multiple searches of the same latent print.		
9.8	Ten print & single digit print should be searched against the ten finger print database and simultaneously unsolved Chance / Latent print database.		
9.9	The system should be capable to enroll and search/match a slip having less than ten print in case of amputated / bandaged / missing fingers		
9.10	Palm print should be searched against the Palm print database and simultaneously unsolved Chance / Latent print database		
9.11	Chance / Latent fingerprints should be searched against the ten print finger database and simultaneously unsolved Chance / Latent fingerprint data base		

9.12	Chance / Latent Palm print should be searched against the Palm Print Database and simultaneously unsolved Chance / Latent palm print database.		
9.13	The system should be capable of matching of Chance / Latent prints of unknown scale with given accuracy standards		
9.14	The system should be able to re-submit ten digit print, palm Print and Chance / Latent print from database to search against database.		
9.15	Option for Ten print, single print, Palm Print and Chance / Latent print search for identity verification without entering the record into AFPIS		
9.16	AFPIS should support the ranking of candidate matches for a selected print or set of prints with the highest potential of a likely match appearing in first position		
9.17	Option for operator to use data field as filter for search		
9.18	Ten prints & Chance / Latent print should be searched automatically against the ten finger print database and simultaneously unsolved Chance / Latent print database.		
9.19	Support for retrieving and comparing of the existing ten digit print record with the finger prints of subject short listed from the demographic data.		
Verification Module			
9.20	Verification module should be available in District RQT.		
9.21	Ten digit search should be based upon at-least four best finger print before the respondents are returned for manual verification and the system should perform ten finger matches automatically against each respondent to ensure accuracy.		
9.22	The four highest quality finger print images available in the Ten digit search print should be selected automatically by the system through automated image quality assessment		
9.23	On-screen side by side display presentation of the search print and potential matching prints from the AFPIS database. The ranking of candidate matches from potential matching print(s) with highest potential should appear on the top in descending order.		
9.24	Should be able to selectively display or hide an overlay of extracted minutiae points in the onscreen image comparison and binary image display		
9.25	The system should provide a convenient method to examine side-by-side same-size images of the search prints compared with the candidate list prints and the ability to proceed forward and backward through the candidate list		
9.26	The system should provide for user defined threshold candidate list		
9.27	The system should provide automatic charting of matching points on both the matching prints with examiner defined charting option for Court Opinion		

9.28	The system should give alert if verification of Ten Print and Chance / Latent print is not attended within 24 hours.		
9.29	The system should have dedicated GUI(s) for court chart preparation. Charting functions should have feature <ul style="list-style-type: none"> • Restricted access by an authorized user(s) only • Ability to support manual marking of selected minutiae points • Side-by-Side display (Disputed and Admitted/Specimen Prints) • Ability to edit complete expert report • Ability to print expert report • Facility of sending opinion report with Charting and grounds of opinion in prescribed format to Director, FPB for cross verification and digital signature. 		
9.30	The system should have dedicated GUI(s) for circulation of latent print cases. Circulation program should have feature <ul style="list-style-type: none"> • Restricted access by an authorized user(s) only. • Store, search and verify finger / palm prints on case database or on central database. • Ability to circulate among group of users • Ability to support manual marking of selected minutiae points 		
9.31	Side-by-Side display (Known and Unknown Prints)		
9.32	Ability to edit complete expert report		
9.33	<ul style="list-style-type: none"> • Ability to print expert report, chance print photo • Ability to send expert report to concern Police Station. 		
10. FUNCTION OF RQT			
10.1	The RQT will be connected at Central STATE-AFPIS Headquarters and PS AFIS. They are the full functioning extended arm of the STATE-AFPIS connected by internet protocol (IP). RQTs functions as Fingerprint/ Palm print input terminal, Transaction/Communication Module, search/verification Module, Demographic and Textual Data Module and Database/Master Server for local data base (integrated in one system) only. The FP expert at the remote end will be able to send/store multi fingerprint / palm print and textual data received from PS AFIS/taken by scanner to STATE-AFPIS Server. If the search result is negative at District RQT database, RQT will automatically put the request in queue for submitting query to STATE-AFPIS. The system will have capability to set transaction priority to submit search transactions out of turn and retrieve search result for dissemination.		
10.2	Minimum requirements for the RQTs are as follows: <ul style="list-style-type: none"> i.) The RQT should have all the devices integrated into one application i.e. Finger Print Live Scanner, iris scanner (in Future), camera and flatbed scanner. 		

	<p>ii.) The RQT should have the capability to submit transaction to the NAFIS Work Station installed in the District Hqrs.</p> <p>iii.) The RQT should be able to receive the results from the STATE-AFPIS and notifications if any error.</p> <p>iv.) The RQT should have the GUI for submitting Demographic forms and taking actions on receipt of search requests to the central STATE-AFIS system.</p> <p>v.) The RQT should be able to import transactions from legacy State AFIS.</p> <p>vi.) It should be able to capture flat with auto capture. Flats should capture as 4-4-2. On the spot segmentation should be performed and operator feedback about capture quality should be instantaneously provided. If quality requirements are not met multiple attempts should be allowed. Manual correction of the segmentation boxes should also be allowed to avoid any segmentation errors.</p> <p>vii.) Able to capture rolls. Rolls should be captured in a sequence and multiple attempts should be allowed if the quality requirements are not met. Automatic sequence check should be performed and position should be corrected automatically.</p> <p>viii.) Should have provision to upgrade to capture iris with auto capture. Iris should be captured if scanner is connected. Quality analysis on the spot and operator feedback should be provided. Multiple attempts should be allowed.</p> <p>ix.) Able to input palm using flatbed scanner. The scanned images should be automatically imported into the software. Automatic segmentation if required should be performed along with on the spot quality analysis.</p> <p>x.) Able to input inked slips. The software should be able to take legacy slips with either preformatted specification or on unformatted slip. The system should automatically detect fingers and slaps and perform segmentation with quality assessment. If the system fails to detect the operator should be given an option to manually mark the fingerprints.</p> <p>xi.) The RQT should be able to print hard copies of the slips and demographic data with conviction details with configured formats.</p> <p>xii.) The enrolment application should be capable of performing quality analysis to make sure the input data is of sufficient quality to meet the accuracy of SLA. System can use a combination of standard quality measures plus proprietary quality measurements depending on the biometric modality.</p> <p>xiii.) The system should be able to resubmit ten digit print, iris (in future), and palm print from database to search against database with re-editing facility.</p> <p>xiv.) The System should have a provision for creating</p>		
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	<p>secondary/temporary database for document case examination.</p> <p>xv.) The system should allow latent acquisition from files, digital camera and flat bed scanner.</p> <p>xvi.) The system should support multiple latent acquisitions associated with one individual case.</p> <p>xvii.) The system should provide following image pre-processing capability for assisting the examiner automatically and manually in cases of poor quality image:</p> <p>a). Filters for Flattening/Thickening, Thinning of Ridges, Reduction to single pixel level, Edge Detection, Emboss, Distortion correction, selection of area of interest, histogram and able to separate overlaid chance prints</p> <p>b). The system should be able to separate fingerprints on multicoloured surfaces viz. currency notes, Revenue Stamps, Stamp papers, legal documents etc.</p> <p>xviii.) The system should automatically detect minutiae or allow the examiner to add or delete minutiae of determining the dpi scale if the scale is not known and submit such latent for matching with given accuracy standards.</p> <p>xix.) Verification Results to be shown as film strip or list with highest scoring matches at top position or first position.</p> <p>xx.) The system should allow the examiner to submit more than one transaction in parallel.</p> <p>xxi.) The results should come back to the examiner who had submitted the search request.</p> <p>xxii.) The system should allow the examiner to choose various combinations of filters to search in and allow either performing a lights out search or providing more selective information such as chance/latent type (finger or palm), position, orientation and search angle tolerance. In case, however, if Lights out search fails for a dead body, expert intervention can be sought for.</p> <p>xxiii.) The system should use hardware or software acceleration to facilitate smother image processing operations.</p> <p>xxiv.) The system should provide automatic / manual charting of matching points on both the matching prints with examiner defined charting option for Court Opinion.</p> <p>xxv.) The system should allow printing of court exhibits whenever required.</p> <p>xxvi.) The number of results retrieved per search transaction should be configurable.</p> <p>xxvii.) Examiner should be able to input Chance / Latent prints from files, digital camera or flatbed scanner.</p> <p>xxviii.) The system should be able to resubmit Chance /</p>		
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	<p>Latent print from database to search against database with re-editing facility.</p> <p>xxix.) Should be able to selectively display or hide an overlay of extracted minutiae points in the onscreen image comparison.</p> <p>xxx.) The system should have role based access.</p>		
10.3	Fingerprint /Palm print Database /Storage Subsystem		
	<p>i. Should function as Warehouse for processed Fingerprint/Palm print / Criminal Attribute database.</p> <p>ii. Storage & retrieval module should have facility of Phonetic Name Search & Indexing.</p> <p>iii. Should be seamlessly integrated with Finger & Palm Print, Iris (in future) database in all respects.</p> <p>iv. Should be retrievable by clicking on shortlist of probable match results.</p> <p>v. Should maintain profile/dossier of a criminal viz. (I) Name (ii) Sex (iii) Parentage (iv) Addresses (v) Date of Birth (vi) Category (vii) FIR details viz. FIR No., Date, Year, U/S, P.S. & District (viii) Conviction details viz. Name of the Court, Date of conviction, U/S, Punishment awarded (ix) Photograph (x) MOB etc. as per requirement from time to time.</p> <p>vi. Should provide sub-system for separate categories i.e. Convicted, Arrested, Suspect, Wanted, Unknown Dead Body, Proclaimed Offender, Absconder etc.</p> <p>vii. Should have Input, Query and Report Module on the basis of different data fields and categories.</p> <p>viii. The tendered should provide all sorts of customization required towards the demographic details.</p>		
10.4	Asset Management/Reporting Subsystem/ SLA Management / Incident Management		
	<p>i. Management / Health of RQT, Data enter & DR.</p> <p>ii. Various type of Report generation regarding various type of activities happening through District RQT-AFPIS.</p> <p>iii. The Successful Bidder will require to deploy suitable open source SLA management / Incident management tools for proper monitoring during the post implementation phase.</p>		
10.5	Fingerprint /Palm print Transaction / Communication Subsystem		

<ul style="list-style-type: none"> i. Should take care with log report, all the incoming and outgoing Fingerprints/ Palm print data & Reports. ii. Should act as priority / Queue management system. The Remote Query Queue Management server (RQ2M) is responsible for the queue management infrastructure. All NCRB NAFIS systems will interface with the District RQT AFPIS using the queues designated for them on the Remote Query Queue Management (RQ2M) server. The transactions will be processed based on priority assigned to each transaction. External authorized agencies can also submit searches and records via the queuing interface. iii. Transaction Subsystem will be responsible for executing the workflows on the incoming data and transaction type. Fingerprint /Palm print Transaction Subsystem drives the search engine using the data provided and information available in the Identity Management System. iv. The Bidder should provide the Fingerprint /Palm print Transaction Subsystem that integrates the proposed search engine and should also have flexibility to integrate other search engines in futures. The proposed Fingerprint /Palm print Transaction Subsystem at minimum should meet the following requirements. v. The Transaction Subsystem should run on COTS hardware and should be platform independent. vi. The proposed Transaction Manager should run on Windows 64 bit operating systems. vii. Redundant server architecture that automatically re-configures itself in case of failure. viii. The proposed system should be of enterprise class and highly scalable both vertically and horizontally. ix. All transaction inside the Transaction Manager should be NIST EBTS based. x. The Transaction Subsystem should implement workflows as per Indian Law enforcement requirements. xi. Integrate with Criminal attribute database for encounter update and conviction information update. xii. Suspect search using Fingerprint / Palm Print. Unsolved Chance / Latent database should be searched along with 20 prints databases. xiii. Chance / Latent search against respective modalities and galleries 		
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<p>i.e. 20 print, palm and unsolved databases.</p> <p>xiv. Enrolment and update based on recent encounter or best quality biometrics (form composite records).</p> <p>xv. The workflow in the Transaction Subsystem as integrated with biometric search engine in general should facilitate automated minutiae extraction, quality assessment and insertion in appropriate galleries.</p> <p>xvi. If the image is unacceptable, a message should be sent automatically to the workstation which submitted the transaction in case if the operator had overridden the systems alerts.</p> <p>xvii. Send results to requesting PS AFIS that are interested in that record.</p> <p>xviii. Should facilitate subscribing for a record of interest to receive notification for any kind of activity on that record.</p> <p>xix. Easily customizable and pluggable workflows.</p> <p>xx. The system should have automated enhancement and encoding module as part of the search engine which should not require any manual intervention.</p> <p>xxi. The Transaction Subsystem should support verification or authentication transaction.</p> <p>xxii. The Transaction Subsystem should provide automatic generation of transaction subject ID/ transaction control number and this transaction control number (TCN) should be traceable in the entire system through the entire life cycle of the transaction.</p> <p>xxiii. Remote Query can be fired from multiple locations at the same time with same or different priority.</p> <p>xxiv. System's ability to have priority based processing of matching requests received from workstations. The system should be capable of indicating Query No./Date-wise/ Time-wise to the transaction in need of priority and provide tools to initiate the priority processing.</p> <p>xxv. The Remote Query Workstation (AFPIS) of State / UT SCRB Should integrate with all the existing legacy State AFPIS over Remote Query Queue/Priority Management System.</p> <p>xxvi. The system should generate flash to be displayed at concerned workstation (i) SL. No. in Queue (ii) Searching (iii) Total No. of Records to be searched (iv) No. of Records searched counter (v) Approximate time to be taken to complete the processing. Total time taken shall be flashed after the completion of search System Security.</p> <p>xxvii. The successful Bidder will have to develop all necessary APIs (Application Programming Interfaces), Bridge Software etc. and procure all required drivers and tools for integration with the existing State AFIS having its Central Server at State FPB, SCRB, PS AFIS Software and Finger Print Live Scanner installed at PSs by different vendors at no extra cost. Successful Bidder shall provide the aforesaid API to SCRB</p>		
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	<p>which shall verify the same. Successful Bidder shall ensure successful updation/integration with the existing State AFIS having its Central Server at State FPB, SCRB, PS AFIS Software and Finger Print Live Scanner installed at PSs by different vendors. The successful vender shall also provide all such API/Middleware/Bridge Software for any backward or forward integration with third party hardware/software in future too. Successful Bidder shall also provide Table of data structure to SCRB. The aforesaid API, data and data structure shall be sole property of SCRB Odisha. SCRB shall be free to utilise such API and date structure for the purpose of integration of any third party hardware/software.</p> <p>xxviii. Zero transaction loss and thus transaction persistence should be supported.</p> <p>xxix. The Transaction Subsystem should weed out time barred slips automatically based on age or years as per our requirement.</p>		
10.6	System Security		
	<p>System Security: The data of District RQT-AFPIS is a valuable resource and key component of Technical Architecture. Information Security is very important to maintain Integrity, Confidentiality & Availability of data.</p> <p>i. Data needs to be protected against following threats.</p> <p>a) Unauthorized access to database or application.</p> <p>b) Accidental modifications or deletions</p> <p>c) Confidentiality, Integrity & Availability breeches of data during data transport & physical storage</p> <p>ii. Front end application should include features of MD 5/SHA encryption layer, SSL based (for web enabled), Prevention from BRUTE Force Attack, SQL Injection, other vulnerability patches etc.</p> <p>iii. Multi-layered security should be in place in order to access various features at Central Server, which must be exhibited by the vendor at the time of evaluation etc.</p>		
10.7	General Requirements		
	<p>i The proposed system server applications should be platform independent and should run on Windows.</p> <p>ii. Windows 64 bit operating systems.</p> <p>iii. The bidder should provide patches and upgrades (new versions) of District RQT-AFPIS system during the Warranty and ATS periods without any cost.</p> <p>iv. Redundant server architecture that automatically re-configures itself in case of failure.</p> <p>v. Disk mirroring to eliminate the possibility of lost data due to media failure. A system of automated database backups to ensure that key data is kept up-to-date in the event of a crash.</p> <p>vi. The system/solution must be user friendly with the ability for the Fingerprint Experts/Fingerprint proficient to quickly learn the operations of the application software.</p> <p>vii. The System Software to be provided should be of latest version.</p> <p>viii System should be capable of the following services: Identify / verify display and print on demand from archive record on standard format of Finger Print Slip, Chance / LatentPrint Card, Palm images and other</p>		

<p>associated details. (Complete Printing Report- Image + Demographic Info.)</p> <p>ix. The system should have a Report Module capable of generating statistical reports periodically on various parameters for monitoring performance of system and its utilization by various users to be customized to meet day to day requirement.</p> <p>x. The system should be capable of providing District RQT - AFPIS (including Palm Print) Inter Connectivity and able to communicate electronically with other compliant and compatible STATE-AFPIS systems.</p> <p>xi. The system should have automated monitor running processes to provide real-time detection of the occurrence of system problems, including software problems and hardware component failure with descriptions of response requirements.</p> <p>xii. Administrator Module should be provided with various easy to use tool/utilities to monitor and control the system.</p> <p>xiii. The system should have administration utilities to monitor system performance, manage transaction queues, balance workload, workflow control, view and review database records, update, modification and deletion etc.</p> <p>xiv. The system should have central operation control to monitor process, re-do and redirect if necessary of remote site work or any work of local workstation under supervision.</p> <p>xv. Utility tool should include facility to convert the STATE-AFPIS data (including Palm Prints) into various NIST standard formats with provision to export on external storage media devices.</p> <p>xvi. Backup/Recovery/Disaster Management Module</p> <p>xvii. The system should provide for backup to reclaim the work in process files within two hours of a detected failure and backup capabilities to reconstruct permanent files and operating system software. The system should provide for incremental backup in every 24 hours and full back up of database once in a week.</p> <p>xviii. In case of natural or induced disaster or any occurrence that may render the District RQT-AFPIS partially or fully non-functional, the system should provide for solution for recovery within six hours (or stipulated time) that will ensure continuous and proper performance of the system and sub systems.</p> <p>xix. Network connectivity between District Offices, Bureau, Courts & Police Stations will be using CCTNS network connectivity.</p> <p>xx. The system should have provision for submission of Single Digit search from Web (browser) based Remote query to the District-AFPIS.</p>		
10.8	Miscellaneous Requirements	
<p>i. The system should feature dynamic quality upgrade of stored fingerprints and palm prints at the time of each trace, by maintaining a virtual set of best quality prints from the entire set of available prints for a given person. It should be possible for an expert to manually set a quality for a given print.</p> <p>ii. Automatic Henry Classification of 10 digits F.P. Record / Search Slip.</p> <p>iii. Automated ridge direction determination.</p> <p>iv. Automated core and delta detection and extraction.</p> <p>v. . Automated minutiae quality assignment.</p> <p>vi. Automated search chance print up to 360 degree Orientation.</p> <p>vii. Capability to take chance print negative image directly & match it.</p> <p>viii. Automated capture of logical rolled print area.</p> <p>ix. Automated capture of logical plain print area and comparison of plain prints</p>		

<p>with rolled prints.</p> <p>x. Automated integration of District RQT-AFPIS with personal information system (Criminal Attribute) for storage and retrieval.</p> <p>xi. Automated selection of matching digit, which is best in quality in search slip and database for verification.</p> <p>xii. The system should fully support the capability to capture multiple chance/latent prints associated with a particular case.</p> <p>xiii. The system should provide the ability to capture the associated case data and link this data to each chance/latent print in the case.</p> <p>xiv. The system should facilitate Chance/latent print images to be re-edited and launched for secondary searches without requiring a re-scan of the chance/latent print.</p> <p>xv. The system should also have a full range of integrated chance/latent and ten print image enhancing capabilities.</p> <p>xvi. Data conversion tools to convert the data of existing STATE-AFPIS.</p> <p>xvii. Automated Ten Digit Update</p> <p>xviii. Automated Chance / Latent Print Update</p> <p>xix. Finger Print and Demographic Data acquisition: It should have the capacity to record and maintain interactive Finger Print and demographic data acquisition.</p> <p>xx. Efficient case processing and linking with the captured Chance / Latent palm print.</p> <p>xxi. Automated search against unresolved chance / latent records during new Ten Digit Slip registration / replace.</p> <p>xxii. Networking and Data Updating Capabilities</p> <p>xxiii. Inter District RQT-AFPIS Data Portability and Query Processing.</p> <p>xxiv. Secure and Stable Database with Licensing</p> <p>xxv. Architecture should be scalable.</p> <p>xxvi. System Administration</p> <p>xxvii. Antivirus support with patches and upgrades (during Warranty and ATS periods)</p> <p>xxviii. Demographic Details Information Management.</p> <p>xxix. Availability of Interfaces for Integration with other Indian police Software</p> <p>xxx. Finger Print and Demographic Data Report Generation.</p> <p>xxxi. Maintenance and Support. It should have a capability of creating local removable data base for temporary comparison work.</p> <p>xxxii. Facility for high availability disaster recovery (HADR)</p>		
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11. Technical Terms & Conditions for District RQT- AFPIS System

11.1	The quantity of District RQT- AFPIS Workstations and or any other item can be increased or decreased at any stage till the delivery of consignment is complete.		
11.2	Sole proprietary and ownership / License rights of all the hardware and software including data will be with the Odisha Police.		
11.3	It is mandatory that all the desired features should be demonstrated at the time of technical evaluation of the system. No second chance shall be provided for demonstration. Technical offers which shall be found half/partial complied shall be treated as cancelled.		
11.4	Existing ten digit fingerprint slips of criminals along with textual demographic data and chance/latent prints have to be transported from the database lying with the districts have to be migrated by the		

	successful bidder at its own cost and efforts.		
11.5	The successful firm shall provide on-site warranty of Software for a period of Ten years (three years Comprehensive and seven years' Service)		
11.6	The successful bidder will organize a training program (as decided by the authority) to train the Odisha Police Personnel for proper handling of the System.		
11.7	All desired customization shall be provided free of cost. One full time well qualified & experienced computer programmer is to be provided for six months at no extra cost to Odisha Police for customization from the date of installation in Districts. A system report must be prepared prior to development of application incorporating all the requirements.		
11.8	Technical support of all types should be available within four hours of lodging any complaint. In case of major problem, solution is to be provided within 24 hours of lodging of complaint.		
11.9	The firm providing the AFPIS software should have successful working experience with other State Police in India.		
11.10	All systems must utilize a Windows 64-bit operating system		
11.11	Vendor must have at least one successful operational install in India with current updates (till Tender date)		
11.12	Service / Helpdesk Information Cards with details (Address of Centre with nearest place to installation, phone no., engineer name etc.) be provided along with equipment to all locations		
11.13	The rates finalized will be valid for one year.		
11.14	The supplier shall furnish complete, well fabricated and reliably operating and four level secure centralized systems. Design of software shall be consistent with the requirements of long-term trouble free operation with highest degree of reliability and maintainability. The software shall operate safely with the existing equipment like RQTs, Live Scanners, Flatbed scanners, Web cameras, Digital cameras etc. without undue heating, vibration, wear, corrosion, electromagnetic interference or similar problems and all software shall be proven, tested and reliable.		
11.15	The successful bidder is required to supply the latest updates, patches and upgrades of Software free of cost during the warranty period		
11.16	The successful bidder shall be responsible for connecting all Police Stations of the concerned District to District RQT-AFPIS and Central AFPIS at SCRB(FPB) through CCTNS Connectivity already available with Odisha Police. Bidder will use this connectivity during implementation of the project.		
11.17	. The system should give high accuracy rate in matching the partial and Chance / Latent prints		
11.18	The system should have provision for accepting fingerprints through Palm Print/Slap/Rolled/Live Scanners, digital cameras, scanning the chance/latent print or the live mug shot. It should accept demographic data (Criminal Attribute Data Base). While printing the reports it should be able to fetch these records and prepare a combined report containing expert opinion, grounds of opinion, the questioned print, the matched print, the demographic		

	details and the mug shot of the individual.		
11.19	The District RQT-AFPIS system should be able to prepare and print quality and quantity reports. It should be able to print individual workstation performance and the time taken in processing different queries. It should keep a log of all users of the District RQT so as to permit carrying of the audit trails. It should be able to provide the list of Records that are fit for weeding out. District RQT-AFPIS should provide fingerprint matching in the following ways – a.) Ten print to ten print match, b.) Single digit print to ten print match, c.) Partial print to ten print match, d.) Partial print to partial print and e) Palm print to Palm print.		
11.20	In District RQT-AFPIS systems facility is required to work out Serial Crimes that thought unsolved need to be looked into, from the angle if the identical criminal was involved in all of the crimes		
11.21	The system should be capable in handling the increased workload without needing an up gradation within the warranty period.		
11.22	Matching Accuracy: The District RQT-AFPIS system should have zero false acceptance rate and true rejection rate. The system should give high accuracy rate in matching the partial and Chance / Latent prints as well.		
11.23	The system should permit search with or without information about Core and Delta or about a particular digit. We require to store all the ten print.		
12	Compatibility: The digital scanner and web camera provided to Odisha Police uses operation systems of the OEM. The application developed must be fully compatible with the O/S of the scanners and should be implemented in a cloud computing or similar mode has to ensure that current scanners and web camera can be fully used to their maximum specified potential.		

Signature of the bidder Seal

Date:

Name & Address of the firm:

Format – T3

(To be submitted in *Part – I Technical Bid*)

(Affidavit before Executive Magistrate / Notary Public on **100** Rupees non- judicial stamp paper)

BID SECURITY DECLARATION FORM (Rule 170 of General Financial Rule2017)

Bid Ref. No. _____

Date: _____

To
The A.I.G. of Police, (Provisioning),
Odisha, Cuttack

I/We. The undersigned, declare that:

I/We accept that I/We may be suspended to submit bids for contract(s) with you for a period of one yeas from the date of bid opening if I am /We are in a breach of any obligation under the bid conditions, because I/We

- a) have withdrawn/modified my/our bid during the period of bid validity specified in the form of bid; or
- b) having been notified of the acceptance of our bid by the purchaser during the period of bid validity,
 - i. fail or refuse to execute the contract, or
 - ii. fail or refuse to submit the Performance Security of the amount specified in the bid.

Signature of the bidder Seal

Date:

Name & Address of the firm:

Format – T4(To be submitted in *Part – I Technical Bid*)**DETAILS OF THE BIDDER**

GENERAL INFORMATION ABOUT THE BIDDER						
1	Name of the Bidder					
	Registered address of the firm					
	State		District			
	Telephone No.		Fax			
	Email		Website			
Contact Person Details						
2	Name		Designation			
	Telephone No.		Mobile No.			
Communication Address						
3	Address					
	State		District			
	Telephone No.		Fax			
	Email		Website			
Type of the Firm (Please • relevant box)						
4	Private Ltd.	<input type="checkbox"/>	Public Ltd.	<input type="checkbox"/>	Proprietorship	<input type="checkbox"/>
	Partnership	<input type="checkbox"/>	Society	<input type="checkbox"/>	Others, specify	<input type="checkbox"/>
	Registration No. & Date of Registration.					
Nature of Business (Please • relevant box)						
5	Manufacturer		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Direct Importer		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Key personnel Details (Chairman, CEO, Directors, Managing Partners etc.)						
6	in case of Directors, DIN Nos. are required					
	Name			Designation		
	Name			Designation		
Name designation & Address of the person(s) responsible to the company as per Sec. 34 of D & C Act 1940.						
7	Name			Designation		
8	<i>Whether any criminal case was registered against the company or any of its promoters in the past?</i>				Yes / No	

9	<i>Other relevant Information</i>				
9.a	<i>Furnish the copy of the GST registration certificate</i>				
9.b	<i>PAN : Furnish the copy of the PAN</i>				
10	<i>Bank Details of the Bidder: The bidders have to furnish the Bank Details as mentioned below for Payment for supply if any (if selected)</i>				
	<p>a. Name of the Bank :</p> <p>b. Full address of the Branch concerned :</p> <p>c. Account no. of the bidder :</p> <p>d. IFSC Code of the Bank :</p>				
<i>Date:</i>		<i>Office Seal</i>		<i>Signature of the bidder / Authorized signatory</i>	

Format – T5
DECLARATION FORM
(To be submitted in *Part-I Technical Bid*)

(Affidavit before Executive Magistrate / Notary Public on **10 Rupees** non- judicial stamp paper)

I / Wehaving My / our registered office at..... & having My /our factory premises at..... do declare that I / We have carefully read all the terms & conditions of bid of Odisha Police ,Odisha for the supply of (Name of the items). The approved rate will remain valid for a period of one year from the date of approval or new rate contract which ever is earlier . I will abide with **all the terms & conditions** set forth in the **Bid document Reference no.** _____ along with the subsequent amendment, if any.

I/We do hereby declare I/We are not de-recognized / debarred/ banned/ blacklisted/ convicted as a firm or for the quoted item(s) **on or before the date of floating of the tender** by any one or more of the authorities and for one or more of the reasons mentioned in Cl. No. **5.2.7** of the tender document.

I/We agree that the Tender Inviting Authority can forfeit the Earnest Money Deposit and or Performance Security Deposit and de-recognition/ debarment me/us for a period of **3(three)** years if, any information furnished by us proved to be false at the time of inspection / verificationandnotcomplyingwiththeBidterms&conditions.IncaseI/Wearede-recognized / blacklisted/banned/ debarred by any State Govt. / Union Territory / Govt. of India / Govt. Organization / Govt. Health Institutions/ Odisha Police and or convicted by any court of law **on and from the date of floating of the tender**, I/We undertake to inform the same to Odisha Police. I/we also under take that, I/we are not involved in any unfair/fraudulent practice.

I/ We do hereby declare that I / we will supply the quoted item(s) as per the terms, conditions & specifications of the bid document and hereby further declare that I/We will supply the items /Supplies with packing, logograms as per the design and barcode as specified in the Annexure I–III of the tender under reference.

I/We do hereby declare that I/We have not been convicted by any court of competent jurisdiction for supplying NSQ items within the last 3(three) years from the date of floating of the tender.

Signature of the bidder:

Seal:

Date:

Name & Address of the Firm:

Format – T6

(To be submitted in *Part – I Technical Bid*)

ANNUAL TURN OVER STATEMENT

(In the letterhead of the Chartered Accountant)

The Annual Turnover for the last 3 (three) financial years of M/S _____
_____ who is a manufacturer/importer are
given below and certified that the statement is true and correct.

<i>Sl. No.</i>	<i>Financial Year</i>	<i>Turnover in Crores (Rs) both in figures & words</i>
<i>1</i>	<i>2018–2019/2019-2020</i>	
<i>2</i>	<i>2019-2020/2020-2021</i>	
<i>3</i>	<i>2020-2021/2022-2023</i>	

Date:

Signature of Auditor/

Place:

Chartered Accountant

(Name in Capital)

Seal

Membership No.

N.B : This turnover statement should also be **supported by** copies of audited **annual statement** of the last three financial years / **Annual Report** and the turnover figures mentioned above should be **highlighted** there.

Format – T7

(To be submitted in *Part – I Technical Bid*)

PERFORMANCE STATEMENT

(For the period of last three years)

(Please furnish order copies of the client serially, the names of which are mentioned below)

Name of Bidder:

Name of Manufacturer: _____

Name of the Item: _____

Sl.	Order Placed by (Address of purchaser) (attach documentary proof)*	Order no. & Date	Item Name	Specification	Qty	Value of Contract (Rs.)	Date of Completion	Have the items supplied satisfactorily (attach documentary proof)**
1								
2								
..								
..								

(attach separate sheets if the space provided is not sufficient)

Signature and seal of the Bidder

* The documentary proof will be copies of the purchase order (during the last 3 years) indicating P.O. No. and date.

** The documentary proof will be certificate from the consignee/end user indicating P.O. No. and date.

Format – T8
(To be submitted in *Part – I Technical Bid*)

FORMAT For Undertaking with respect to Compliance of Restrictions for Countries which share land border with India – as stipulated by Govt. of India.

(On Company Letter Head, to be signed by the duly authorized person)

Date: TENDER NO. : TITLE OF TENDER :

To,
AIG of Police (Provisioning),
Odisha, Cuttack

In line with the guidelines issued for compliance of Restrictions for Countries which share land border with India – as issued by Govt. of India in July'2020,

I/We have read the clause regarding restrictions on procurements from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries.

- a. I/We certify that this bidder is not from such a country or if from such a country has been registered with the competent authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered.
- b. I/We certify that this bidder is not from such a country or if from such a country has been registered with the competent authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the competent authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered*.(Applicable for works involving possibility of sub-contracting)

I/We hereby certify that I/We fulfill all requirements in this regard and am/are eligible to be considered.

[* Where applicable, evidence of a valid registration by the Competent Authority shall be attached]

Name and Signature of the Authorized Signatory

PRICE SCHEDULE

Price bid format (BOQ) is **not enclosed** in this bid document. It has to be downloaded from the **e-procurement portal** <https://tendersodisha.gov.in>

PRICE BID (in the *excel Format*) has to be submitted **online only**. The **price bid format (excel sheet available in e- Tender portal)** is specific to a bid and is not interchangeable. The price bid format file shall be **downloaded from the e- Tender portal** by the bidder and quote the **prices in the respective fields before uploading it**. All **white areas** of BOQ file shall be filled by the bidder. The **grey areas** of BOQ shall not be modified / edited by the bidder. The Price bids submitted in any other formats will be treated as non-responsive. Multiple price bid submission by bidder shall lead to cancellation of bid.

Price bid Format :-

Tender Inviting Authority:										
Name of Work:										
Contract No:										
Name of the Bidder/ Bidding Firm / Company :										
<u>PRICE SCHEDULE</u>										
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)										
NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	IGST / GST In Percentage (%)	IGST / GST In Rupees	Any Other Charges	Gross Total Per UNIT	Gross Total	TOTAL AMOUNT In Words
1	2	3	4	5	6	7	8	9	10	12
			Nos			0.00		0.00	0.000	INR Zero Only
			Nos			0.00		0.00	0.000	INR Zero Only
Total in Figures									0.000	INR Zero Only
Quoted Rate in Words		INR Zero Only								

SECTION-VII

**ANNEXES
(TO BE EXECUTED BY THE SUCCESSFUL BIDDER)**

Annexure IV

**Model Bank Guarantee Format for Performance Security
[Ref. Para 22(i)]**

To
The A.I.G. of Police (Provisioning),
Odisha, Cuttack.

WHEREAS.....(name and address of the supplier) (here in after called “the supplier”) has undertaking, in pursuance of contact no.....dated..... to supply.....(description of goods and services) (here in after called “the contract”).

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligation in accordance with the contract.

AND WHEREAS we have agreed to give the supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you on behalf of the supplier, up to a total of (amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show ground or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be Performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until theday of20.....

We theBranch.....undertake not to revoke the guarantee during its currency except with the previous consent of the Odisha Police in writing.

We theBranch..... further agree that a mere demand by Odisha Police is sufficient for us Branch at Bhubaneswar to pay the amount covered by the Bank

Guarantee without reference to the Agency and protest by said Agency cannot be a valid ground for us

..... Branch to decline payment to Odisha Police.

(Signature of the authorized officer of the Bank)

.....

Name and designation of the officer

.....

.....

Seal, name & address of the Banks and address of the Branch