



नेशनल ऑटोमोटिव टेस्ट ट्रैक्स

NATIONAL AUTOMOTIVE TEST TRACKS

Limited Tender Document

For

**SITC of IPPBX System for Internal/External communication
at NATRAX**

PITHAMPUR, DIST. DHAR (Madhya Pradesh)

Tender No. - NATRAX/PROC/A&IT/24/47

National Automotive Test Tracks (NATRAX)/ नेशनल ऑटोमोटिव टेस्ट ट्रैक्स (NATRAX)
A unit of National Automotive Board (NAB)/ राष्ट्रीय मोटर वाहन बोर्ड (एनएबी) की एक इकाई
NH-52, Old Agra- Mumbai Highway/ NH-52, पुराना आगरा-मुंबई राजमार्ग,
Next to Pithampur Flyover/ पीथमपुर फ्लाईओवर के बगल में,
Post Khandwa (Near Pithampur)/ पोस्ट खंडवा (पीथमपुर के पास)
Dhar District, Madhya Pradesh-454774/ धार जिला, मध्य प्रदेश -454774
Phone: +919893892310, Fax - 07292-256101
Email: a.prabhakar@natrip.in, anuj.kumar@natrip.in

1. General Instructions:

<p>नेशनल ऑटोमोटिव टेस्ट ट्रैक्स (NATRAX) नेशनल ऑटोमोटिव बोर्ड (NAB) के तहत एक ऑटोमोटिव टेस्टिंग एंड सर्टिफिकेशन सेंटर है, जो भारी उद्योग मंत्रालय, भारत सरकार द्वारा गठित एक स्वायत्त निकाय है। NATRAX को लगभग 3000 एकड़ भूमि पर पीथमपुर, जिला धार, (मध्य प्रदेश, भारत) के पास, सभी प्रकार के ऑटोमोबाइल के व्यापक परीक्षण और मूल्यांकन के लिए स्थापित किया गया है।</p>	<p>National Automotive Test Tracks (NATRAX) is an Automotive Testing & Certification Centre under National Automotive Board (NAB) which is an autonomous body constituted by Ministry of Heavy Industries, Government of India. NATRAX has been set up on approx. 3000 acres of land for comprehensive testing and evaluation of all types of automobiles, near Pithampur, Dist. Dhar, (Madhya Pradesh, India).</p>				
<p>नेशनल ऑटोमोटिव टेस्ट ट्रैक्स (NATRAX), ऐसे योग्य और अनुभवी बोलीदाताओं से पासवर्ड संरक्षित या सीलबंद कोटेशन / बोलियां आमंत्रित करता है, जो काम करने, निष्पादित करने और कार्यान्वित करने के लिए इस दस्तावेज़ में निर्दिष्ट पात्रता मानदंड को पूरा करते हैं। तथा निर्धारित शर्तों पर कार्य करने के इच्छुक हैं। कार्यों का संक्षिप्त विवरण और एनआईक्यू/निविदा की समय-सीमा नीचे दी गई तालिका में संक्षेप में दी गई है:</p>	<p>The National Automotive Test Tracks (NATRAX), invites Password Protected OR Sealed Quotations/Bids from the qualified and experience Bidder(s) who meets the specified eligibility criteria in this document in the prescribed Proforma for performing, executing and implementing the works on the terms and conditions contained in this Bid document. Brief description of works and the timelines for NIQ/tender are summarised in the table below:</p>				
<p>कार्य का वर्णन /Description of Work</p>	<p>अनुबंध की अवधि / Period of Contract</p>	<p>निविदा के फ्लोटिंग की शुरुआत की तिथि / Date of start of floating of tender</p>	<p>बोली जमा करने की अंतिम तिथि / Last date for submission of Bid</p>	<p>बोली खोलने की तिथि और समय / Date & Time of Bid opening</p>	<p>अनुमानित लागत / Estimated Cost</p>
<p>SITC of IPPBX System for Internal/External communication at NATRAX</p>	<p>60 Days from the date of Issue of Work Order.</p>	<p>04th April 2024</p>	<p>15th April 2024 at 1500 Hrs</p>	<p>15th April 2024 at 1530 Hrs</p>	<p>Rs. 7.00 Lakh</p>

Per bid meeting at 1100 hrs on 12th April 2024 at NATRAX HQ (in case of any query please write us at je.procurement@natrax.in;

2. कोटेशन/बोली प्रस्तुत करने का विवरण/ Quotations/Bid Submission details:

<p>पासवर्ड से सुरक्षित बोली/कोटेशन बोलीदाता द्वारा निम्नलिखित ईमेल आईडी पर उपरोक्त समय और तारीख के बाद या पूर्व सूचना पर अगली सुविधाजनक तारीख और समय के रूप में प्रस्तुत किया जाना है।</p>	<p>Password protected Bid/Quotation is to be submitted by the Bidder at the following email ID's not later than the aforesaid time & date or as next convenient date & time on pre-intimation</p>
<p>mail to: a.prabhakar@natrip.in, anuj.kumar@natrip.in, & je.procurement@natrax.in</p>	
<p>OR</p>	
<p>मोहरबंद बोलियां/कोटेशन भी पूर्वोक्त तिथि और समय पर NATRAX हब कार्यालय में सीलबंद लिफाफों में हार्ड कॉपी में जमा किए जा सकते हैं। हालांकि, मौजूदा कोविड महामारी को देखते हुए बोलीदाताओं को इलेक्ट्रॉनिक मोड के माध्यम से बोली लगाने के लिए प्रोत्साहित किया जाता है</p>	<p>Sealed Bids/quotations may also be submitted in the hard copy in sealed envelops at NATRAX Hub office in the aforesaid date and time. However, Bidders are encouraged to Bid/quote through electronic mode considering the ongoing Covid pandemic</p>
<p>उक्त तिथि एवं समय के बाद कोई बोली स्वीकार नहीं की जायेगी। हालाँकि, असाधारण मामलों में, NATRAX के पास बोली खोलने से पहले बोली जमा करने के समय/अंतिम तिथि को अगली सुविधाजनक तिथि/समय तक बढ़ाने का अधिकार सुरक्षित है।</p>	<p>No Bids will be accepted after the aforesaid date and time. However, on exceptional cases, NATRAX reserves the right to extend the time/last date of submission of Bid to a next convenient date/time before opening of the Bids.</p>
<p>टेलीग्राफिक रूप से या ट्रांसमिशन के अन्य माध्यमों (टेलीफैक्स, आदि) के माध्यम से भेजी गई बोलियां जो पासवर्ड से सुरक्षित नहीं हैं, उन्हें दोषपूर्ण, अमान्य माना जाएगा और खारिज कर दिया जाएगा।/</p>	<p>Bids sent telegraphically or through other means of transmission (telefax, etc.) which are not Password Protected shall be treated as defective, invalid and shall stands rejected.</p>
<p>NATRAX गैर-प्राप्ति/गैर-वितरण/या किसी तकनीकी त्रुटि या गलत प्राप्तकर्ता के कारण किसी भी देरी के लिए जिम्मेदार नहीं होगा। बोलीकर्ता NATRAX से अपनी बोली प्रस्तुत करने की प्राप्ति की पुष्टि कर सकते हैं</p>	<p>NATRAX shall not be responsible for any delays for non-receipt /non-delivery/or any technical errors or due to wrong addressee. Bidders may confirm the receipt of their Bids submission from NATRAX</p>
<p>Disclaimer/ अस्वीकरण:</p>	
<p>NATRAX बिना कोई कारण बताए किसी या सभी प्रस्तावों को स्वीकार/अस्वीकार/संशोधित/विभाजित करने के सभी अधिकार सुरक्षित रखता है।</p>	<p>NATRAX reserves all rights to accept/reject/modify/split any or all proposals without assigning any reasons. Bidders shall not have any cause of action or claim against NATRAX for any of its decisions.</p>

<p>NATRAX के किसी भी निर्णय के लिए बोलीदाताओं के पास कार्रवाई का कोई कारण या दावा नहीं होगा।</p>	
<p>For NATRAX</p> <p>Head Procurement & Stores</p>	
<p>इस निविदा में आगे चार अनुबंध शामिल हैं/</p> <ul style="list-style-type: none"> • अनुबंध-I (ए)-बोलीदाताओं के लिए निर्देश (आईटीबी)/ • अनुबंध- I (बी) - अनुबंध की विशेष शर्तें/ • अनुबंध-II- अनुबंध/विनिर्देश/ड्राइंग और डिजाइन की तकनीकी शर्तें/ • अनुबंध-III- वित्तीय प्रस्ताव/ • अनुबंध - IV- प्रस्तुत करने की विधि (ऑनलाइन माध्यम से)/ 	<p>This tender further contain four Annexures:</p> <ul style="list-style-type: none"> • Annexure-I (A)-Instructions to Bidders (ITB). • Annexure-I (B)- Special conditions of contract. • Annexure-II- Technical Conditions of contract/Specification/Drawings & Design. • Annexure-III- Financial Proposal. • Annexure-IV- Method of submission (in case of Bid submission through online mode).

A. ANNEXURE I (A)- INSTRUCTION TO BIDDERS (ITB)

1. Bidders are required to submit their Bids in a **Password Protected PDF format**, named as **“Quotation/Bid for Tender No. NATRAX/PROC/A&IT/24/47”** on the subject of the email, containing two separate **Password Protected PDF document**, as given below. The **Password Protected** Bids shall be submitted at the mentioned email ID(s) before the closure of Bid submission date/time.

OR

Sealed Bids/quotations may also be submitted in the hard copy in sealed envelopes at NATRAX office in the aforesaid date and time. However, Bidders are encouraged to Bid/quote through electronic mode.

- a) **In case of online Bid submission, the password of the documents shall be submitted by the Bidders at the time of the Quotation/Bid opening.**



- b) *The bidders are advised to submit the bid after duly signed submitted on each page, the bids received without sign and numbered may be rejected by NATRAX.*

All bidders may visit NATRAX office based on the given date and time for Bid opening.

2. **Minimum Eligibility Criteria (MEC):** the bidder should meet the following eligibility criteria to be Technically Qualified:

2.1. **Legal Valid entity:** the bidder should be a legal valid entity in form of Proprietorship/Partnership/Pvt. Ltd Company/Public Company/Govt Entity PSU etc, in support the appropriate documents should be submitted.

2.2. **Experience:** Bidder should have at least 3 years *similar works experience and also completed at least one out of following:

One *similar work not less than 80% of estimated value

OR

Two *similar works not less than 50% of estimated value of each.

OR

Three *similar works not less than 40% of estimated value of each.

***Similar works:** Supply & Installation of IP PBX Systems OR Servicing (AMC) of any IP PBX etc, for any Govt/Reputed Private Organization/Institution. **In support the copy of completion certificates with work order/purchase order should be submitted.**

3. The Bidders are expected to carefully examine all the contents of the Tender documents/NIQ including instructions, conditions, terms, specifications, drawings (if any), shall inspect the Site with prior notice to NATRAX and at Bidders own cost, acquaint himself with all local conditions, means of access to the work, nature of the work and all matters pertaining thereto & take them fully into account before submitting their offer. Failure to comply with the requirements as detailed in these documents shall be at the Bidder's own risk. Bids which are not responsive to the requirements of the Tender will be rejected.
4. While all efforts have been made to avoid errors in drafting of the Tender documents, the Bidder is advised to check the same carefully. No claim on account of any errors detected in the Tender documents shall be entertained.



5. The Bidder shall carry out all the work strictly in accordance with Specification, Standard Practices and instructions of NATRAX or NATRAX's representative and deviation on any account will not be permitted. If in the opinion of NATRAX, changes have to be made and it desires the Bidder to carry out the same. The decision of NATRAX in such cases shall be final and shall not be open to arbitration.
6. The successful Bidder is bound to carry out associated work necessary for the completion of the job even though such items are not included in the quantities to achieve end results and deemed to be priced in the other items. No claim on this account shall be entertained.
7. Addendum / Corrigendum (if required) to the Tender may be issued prior to the date of opening of the Bid to clarify or to intimate any changes/modifications etc. All such addendum / corrigendum shall be treated as an integral part of the Tender.
8. Any effort by a Bidder to influence NATRAX or any of its functionaries in the process of examination, clarification, evaluation and comparison of tenders and in decisions concerning award of contract, may result in rejection of the Bid.
9. In order to afford prospective bidders, reasonable time for preparing their Quotes after taking into account such amendments, NATRAX may, at its discretion, extend the deadline for submission of Bids.
10. Information relating to the examination, clarification, evaluation and comparison of Bids and recommendations concerning the award of Contract shall not be disclosed to Bidders or other persons not officially concerned with such process.
11. NATRAX reserves the right to accept / reject or modify any Bids, and to annul the Tender process and reject all Bid(s)/quotation(s), at any time prior to award of Contract, or to divide the Contract between/amongst Bidders without thereby incurring any liability to the affected Bidder or Bidders or any obligations to inform the affected Bidder or Bidders of the grounds for NATRAX's action. Any Bidder not following ITB stands rejected.

12. BID OPENING & EVALUATION

- a) **The bids shall be opened by committee at NATRAX. Bidder or Bidder Authorized Representative are advised to attend the bid opening on the given date and time.**
- b) The L-1 bidder in the quoted rates shall be deemed as successful Bidder) to determine the successful Bidder.
- c) For the evaluation of the Bids, the eventual Bid prices shall be ascertained after considering all the terms and conditions associated with the Bid price specified in the Bid document and after detailed scrutiny of the quotations/bids.
- a) No Bidder shall be allowed to propose/carry out any revision / correction / modification in his Price Bid offer.
- b) If there is a discrepancy between the sub total/s and the total price that is obtained by multiplying the unit price and quantity/adding the sub total/s, the sub total/s shall prevail and the total price shall be corrected, unless in the opinion of the Employer that there is an obvious misplacement of the decimal point in the sub total price, in which case the total price as quoted shall govern and the sub total/s shall be corrected;
- c) If there is an error in a total, corresponding to the addition or subtraction of sub totals, the subtotal/s shall prevail and the total shall be corrected; and
- d) The Bidder needs to fill the rates against each item in word as well as in figures as mentioned in BOQ (Financial Bid). In case of any discrepancy, the rate provided in word shall prevail and correct the amount against the item. **All the prices should be inclusive of all taxes and GST.**
- e) The amount stated in the Letter to Bid will be adjusted by the Employer in accordance with the above procedure for the correction of errors and, shall be considered as binding upon the bidder. If the Bidder does not accept the corrected amount of Bid, the bid will be rejected.
- f) Contract negotiations, if any, will be held before the issuance of Letter of Acceptance/ Notification of Award. The negotiation shall conclude with a revised

offer letter from the successful bidder, affecting the discounts if any and accepted by NATRAX.

13. Award of Work:

- a) Prior to the expiry of the period of Bid validity prescribed, NATRAX will issue to the Successful Bidder, the Work Order. The Successful Bidder shall return one copy of the Work Order to NATRAX duly acknowledged and signed by the authorized signatory, within two [2] days of receipt of the same by him.

14. Validity of bids:

The rate quoted should be valid for a **minimum period of 90 days** from the last date of Submission of Quotation. No claim for escalation of rate will be considered at any point of time.

15. Prospective bidders requiring any clarification of the Tender may write to a.prabhakar@natrip.in; anuj.kumar@natrip.in, je.procurement@natrax.in

16. The Bids / related correspondences shall be made in English language.

Annexure-I (B)**17. Special Conditions of contract:**

a.	Scope of work	SITC of IPPBEX System for Internal/External communication at NATRAX
b.	Contract Period	60 Days from the date of Issue of Work Order.
c.	Engineer In-charge (EIC)	Shall be notified to successful bidder.
d.	Rate Firmness	The charges/rate quoted by supplier must be firm throughout the Contract period and no escalation of any kind is permissible. The "final contract value" shall be derived on the completion of work at actual.
e.	Warranty period	2 years from the date of completion & acceptance of work.
	Payment, Mode and Retention	i. 70% Payment shall be made on delivery of material at NATRAX on submission of tax invoice along with supporting document and certified by EIC, within 15 days.



		<p>ii. 20% shall be made on successful completion of work and acceptance by NATRAX, within 15 days.</p> <p>iii. Balance 10% shall be release only after successful completion of warranty period, within 15 days.</p> <p>iv. Payment shall be made after statutory deduction as applicable.</p> <p>v. Advance payment: maximum 10% of contract value may be paid after receiving request from contractor and submission of bank guarantee of 110% of the requisite amount. An interest 10% per annum shall be charged on the outstanding advance payment. The said advance payment shall be released in minimum two instalments. Contractor has to submit a utilization certificate for the said advance payment.</p> <p>vi. The GST/Taxes & duties of Govt. will be reimbursed on actual basis upon the submission of original receipt/ documentary evidence.</p> <p>All the payments shall be made through RTGS only.</p>
g.	Liquidated Damages	In case of delay in completion of work by contractor, NATRAX reserve the rights to impose an LD @ 0.1% of contract value per days up to maximum 10% of contract value, and same shall be adjusted from the payment of contractor.
h.	Project Facility / Place of Installation/delivery	NATRAX Site NH-52, Old Agra- Mumbai Highway, Near to Pithampur Flyover, Post Khandwa (Near Pithampur), Dhar District, Madhya Pradesh-454774
i.	Water supply & Electricity Charges	i. Electricity (if any): Free of Cost ii. Water supply (if any): Free of Cost
j.	Termination of Contract	If the work/service is found to be not satisfactory or not found as per the specification indicated in this document, the Contract will be terminated with short notice of 14 days in writing. In case of termination the balance work shall be completed by NATRAX through any other party on the risk & cost of contractor.
k.	Integrity pact	The successful bidder needs to execute an integrity pact (as per Appendix-A).

18. The bidder should give the following, duly signed and sealed, failing to which the



bids will be summarily rejected:

19. DECLARATION:

(To be executed on Bidder's letter head)

I/We having acquainted with the content & requirement of this Tender No. NATRAX/-----
-----, dated _____ and do hereby accept to furnish the same in compliance
with all terms & conditions. I/we have not tampered/modified the tender in any manner
and breach of any such, will result in rejection of Tender and / or prosecuted.

I / We hereby declare that the firm/company has not been blacklisted or debarred in the
past by any other Government organization from taking part in Government tenders.

In case the above information found false or in case of breach of any of terms and conditions
at any stage of Tender or Contract, I/We are fully aware that the Tender/ Contract will be
rejected / cancelled by NATRAX and Payments (for completed/partially completed),
Retention, Bid Security (EMD), Performance Security, etc., shall be forfeited.

Signature of the Bidder: _____

Name and Designation: _____

Address: _____

Contact details: _____

Place:

Date:

Seal of the Bidder's Firm

TECHNICAL CONDITIONS OF CONTRACT/ SCOPE OF WORK/TECHNICAL SPECIFICATIONS

SUBJECT: SITC of IPPBEX System for Internal/External communication at NATRAX

The scope of work and technical specification shall be as per below table and BOQ.

S.No	Description	Items
1	<p>IP-PBX with Paging Pro Server Features: Caller ID Support, Conference Call, Call Transfer, Call Forwarding, Call Recording, Do Not Disturb, Call Waiting, Call History, Detail Records, Call Event Logging, Speed Dials, Caller Blacklisting, Call Screening, Voicemail, Voicemail to E-mail, Three-Way Calling Support, Open SIP, Webgui, Interactive Voice Response (IVR), Unlimited IP extensions, Unlimited IP Concurrent call, Ring Groups, Music on Hold, Find Me / Follow Me Calling, Support for Video Calling, Secure Communications (SRTP/TLS), Support for SIP Trunk, GSM/FXO/FXS Gateway, PSTN, PRI, Gigabit Ethernet, SMNP, etc.</p> <p>IPPBX features required: Announcement, Zone selection, SPMP (Scheduled Pre-recorded Message Play), Message upload, Remote Management, Internet Protocol Version 4, Multiple announcement zone.</p> <p>Hardware Specification-1U RACK Server with Railkit, Intel Xeon Processor 4 Core, 8GB RAM, 256GB SSD with RAID1.</p>	IP-PBX
2	<p>Wireless VoIP Gateway (4 Ports) Key Features and Benefits: GSM/CDMA/LTE wireless gateway Complete Protocols Range- Support both 2G/3G/4G wireless network, including both GSM/CDMA/LTE and More High Voice Optimization Capability- crystal clear communication, including DSP-based 128mc echo cancellation High Flexibility and Scalability- 2~32 Ports of Wireless-to-IP transmission User-friendly GUI</p>	Wireless VoIP Gateway



<p>High Interoperability with Terminals- Compliant with all brands of terminal mobile devices and a complete range of SIP trunking worldwide</p> <p>Telco-Grade Reliability</p> <p>Open and programmable API</p> <p>PIN management</p> <p>Call time restriction: SIM Card/Single Call</p> <p>Operator locking</p> <p>BCCH management</p> <p>Call hold</p> <p>Call transfer</p> <p>SMPP</p> <ul style="list-style-type: none">• Voice <p>Silence suppression and detection</p> <p>CNG (Comfort Noise Generator) support</p> <p>VAD (Voice Activity Detection) support</p> <p>Echo cancellation (G.168), up to 128ms</p> <p>Self-adaptive dynamic buffering</p> <p>Call progress tone generation</p> <p>AGC (Automatic Gain Control) support</p> <ul style="list-style-type: none">• Protocol <p>SIP V2.0 RFC3261</p> <p>SDP RFC2327</p> <p>Session Timer RFC4028</p> <p>RTP/RTCP RFC3551</p> <p>SIP registration</p> <p>SIP trunk (Point-to-Point)</p> <p>SIP trunk group</p> <p>Ringback (Immediate/normal)</p> <p>SIP/GSM release cause configurable</p> <p>DNS SRV/A query</p> <p>Out-of-stack agent</p> <p>DTMF mode: Signal/RFC2833</p> <p>NAT traversal</p> <p>Dynamic NAT, Static NAT, STUN</p> <ul style="list-style-type: none">• Physical Interface <p>SIM Card Socket: 8 or 4-port</p> <p>Ethernet interface: RJ45, 2 ETH, 10/100M Base</p> <p>CONSOLE: RJ45, RS232, 115200bps</p> <p>Antenna interface: SMA</p> <p>Status indicator: PWR, RUN, ALM, Channel state, Signal strength, ACT per network, LINK status.</p> <p>Reset button</p> <ul style="list-style-type: none">• Network Protocol	
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<p>IP v4, UDP/TCP, PPPoE, DHCP FTP/TFTP ARP, RARP, NTP HTTP, Telnet</p> <ul style="list-style-type: none">• Management Configuration management based on WEB Configuration backup/restore Interface in Chinese/English Firmware upgrade via HTTP/TFTP Password modification for WEB sign-in Factory settings restore CDR and tracking information output Syslog Ping and Tracet tests based on WEB Transport Protocol Count: TCP, UDP, RTP VoIP Call Count PSTN Count: ASR, ACD, PDD Voice loopback test IVR Customizable System Log Centralized cloud-platform integrated management Environment Operating temperature: 0°C – 55°C Storage temperature: -20°C – 85°C Humidity: 8% – 90% non-condensing Storage humidity: 8% – 90% non-condensing• LAN Amount: 2 (10/100 BASE-TX (RJ-45)) Self-adaptive bandwidth supported Auto MDI/MDIX supported• Console Port Amount: 1 RJ-45 (RS-232) Baud rate: 115200bps Data bits: 8 bits Stop bit: 1 bit Parity unsupported Flow control unsupported• Power Requirements Input voltage: DC 12V ± 10% Input current: ≥3A• Signaling Protocol: SIP V2.0 RFC3261• Network Protocol IP v4, UDP/TCP, PPPoE, DHCP	
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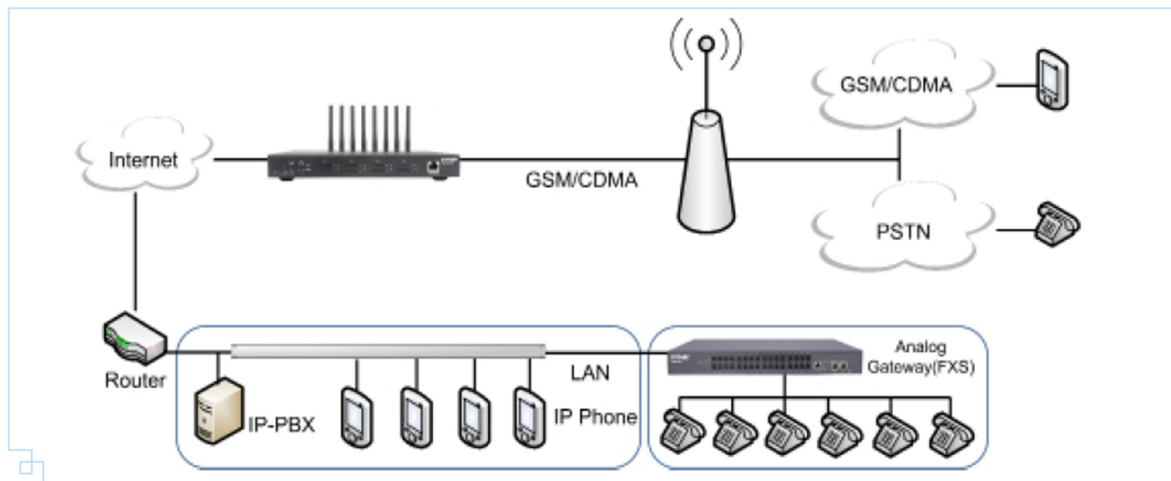


	<p>FTP/TFTP ARP, RARP, NTP HTTP, Telnet</p> <ul style="list-style-type: none">• Audio Encoding & Decoding G.711A 64 kbps G.711U 64 kbps G.729 A/B 8 kbps G.723 5.3/6.3 kbps G.722 64 kbps AMR 4.75 kpbs iLBC 13.3/15.2 kbps• Sampling Rate 8kHz• Wireless Feature Frequency band: GSM: 850/900/1800/1900MHz CDMA: 800Mhz UMTS: 850/900/1900/2100Mhz SMS CODEC: ASCII/UCS2	
3	<p>32 Port FXS Gateway Key Features and Benefits Caller ID Display (CLI) CLI Restriction Call Hold 3-Party Conference Call Transfer Call Waiting Do Not Disturb (DND) Distinctive Ring Pick Up Firewall Traversal Standard SIP Protocol TR069/SNMP/Web System Logs Login Logs QoS VLAN Broadcast Storm Suppression Soft Access Control List (Soft ACL) Hotline Polyphonic Ringtone Black List White List POS Machine Fax Primary/Standby SBC Reversal Of Polarity NAT Interfaces- FXS Ports 32, FXO Port-0 WAN Port- 1*10/100M Base-T LAN Port- 1*10/100M Base-T Console Port- 1*RS232 for RJ45 LED Indicators-Power, Active, Ready Console</p>	Analog FXS Port Gateway

	<p>MEDIA PROCESSING VoIP Protocol-SIP 2.0 (RFC2543, RFC3261). IMS-SIP Network Protocol- IP/TCP/UDP/TRP/TRCP/ICMP/ ARP/RARP/SNTP Codec-G.711A/U-LAW, G.729a/ab, G.723.1 Transport- UDP Voice Capability- TOS/JITTER BUFFER/VAD/GNC/Diff-SERV/Gain Control/Packet Loss Compensation DTMF Mode- InBand, SIP Info, RFC 2833 Fax-T.30, T.38, Bypass QoS- 802.1q DSCP IP Assignment- Static/DHCP/PPPoE Firewall- Built-in firewall, packet filtering, IP Port filtering, Whitelist Network Services- DHCP/DNS/Telnet/HTTP/NAT "TELEPHONY FEATURES FXS Outbound Concurrent Call- 32" Management Protocol- Web OMC, SNMP, TR069 Provisioning- HPPT, TFTP Configuration- Remote Management, System Logs, Voice, Menu for FXS Gateway Basic Configuration CONNECTIVITY Cascading- 2 Size (LxWxH)-(mm)435*199*44 Weight-3.3 KG Power Supply- Power Adapter-AC 85-265 V,47-63 Hz Consumption-<=35W Surge Protection-4 KV Working Temperature-10 ~ 60 °C Storage Temperature-10 ~ 60 °C Humidity-10 ~ 95% (non-condensation) Wired Length- <=500m Mounting- Rack-mount</p>	
<p>4</p>	<p>SIP Phone Dual Port Fast/Gigabit Ethernet Port, 1 SIP Entry Level IP Phone, 1 SIP accounts and 2-line buttons, Higher level voice quality, monochrome screen, HD speaker, Anti- electromagnetic feature on handset and speaker, support auto provision via WAN and LAN, PoE Enabled, graphic character dot matrix with full view of backlight LCD, 1 SIP accounts, Call Forward, Call Transfer, Call Waiting, Hotline, Call Hold, Auto Answer, Redial, Mute, DND, Local 3-Way Conferencing, Speed Dial, Voice Mail, Local Phonebook (up to 1000), Direct IP call</p>	<p>SIP Phone</p>

	without SIP proxy, Black list, Dialed/Received/Missed/Forwarded call (400 total), Call Centre Headsets mode	
5	<p>Optical Fiber Patch Cord, SM, LC-LC Patch cord with LSZH jacket, F8 2.7x5.5 mm, yellow, single mode G652.D 9/125 μm (OS1, OS2). Mounted on both sides with LC-Duplex connectors in acc. with IEC 61754-4. Zirconia (ceramic) ferrule with a PC polished end face geometry, connectors tuned in accordance with IEC 61755-3-1 and qualified in acc. with IEC 61753-1 for category U (uncontrolled environment). Blue connector housing (single mode), material PBT / UL 94 V-0, black duplex clip, 1 x blue and 1 x red strain relief, material TPE / UL 94 V-0 and plastic dust cover. Optical specifications (random mated): Performance: Insertion loss (IL) Grade C for 97% of the tested specimen: ≤ 0.50 dB / typical ≤ 0.25 dB Return loss (RL) Grade 2: ≥ 45 dB (typical ≥ 55 dB) Length - 3 m Length - 5 m</p>	Optical Fiber Patch Cord, SM, LC-LC
6	<p>24 Port Gigabit Ethernet Smart Managed PoE Switch with 2 Giga SFP Ports with Trans receivers Form Factor-Wall/Desktop Mountable Architecture-Non-Blocking Ports-24 Port 10/100/1000 with PoE Web Managed Switch + 2/4 Fiber SFP ports GBIC/SFP-It should be loaded with 2 No's 1000 Base mini GBIC/SFP tans receivers LC connector for single mode from the same OEM PoE-270W/75W (PoE+ supported) Port Status-Display Each port must have a dedicated LED status display. MAC Addresses-Supported Up to 8K MAC addresses Switching capacity-At least 20 Gbps and forwarding rate-Packet throughput 14 Mbps or more VLANs Supported-Support for up to 4096 VLANs simultaneously Port-based and 802.1Q tag-based VLANs MAC-based VLAN Management-Web Management Traceroute; single IP management; HTTP; SSH; RADIUS; port mirroring; TFTP upgrade; DHCP client; BOOTP; SNTP; cable diagnostics; ping; syslog; Telnet client (SSH secure support)</p>	24 Port Gigabit Ethernet Smart Managed PoE Switch

<p>RMON</p> <p>L2 Loop Protection-IEEE 802.1d Spanning tree protocol</p> <p>IEEE 802.1W RSTP (Rapid spanning Tree Protocol)</p> <p>IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)</p> <p>Link Aggregation-Support for IEEE 802.3ad Link Aggregation Control Protocol (LACP)</p> <ul style="list-style-type: none"> • Up to 8 groups • Up to 8 ports per group with 16 candidate ports for each (dynamic) 802.3ad link aggregation <p>QOS Support-At least 4 nos of 802.1p Priority Queues per Port.</p> <p>Port mirroring /span Port-Traffic on a port can be mirrored to another port for analysis with a network analyser or RMON probe. Up to 8 source ports can be mirrored to one destination port. A single session is supported.</p> <p>TFTP or FTP Support-For Configuration file backup and restore.</p> <p>Port Security-The ability to lock Source MAC addresses to ports, and limits the number of learned MAC addresses.</p> <p>Access Control-Should support standard and extended ACLS. Should support various types of ACLS like port based/time based.</p> <p>Power-Should support external power adapter for the switch.</p> <p>ISO-OEM should be ISO-9001:2015, 14001:2015 certified</p> <p>Support-Should provide online support until product warranty for free</p>	
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Derails of requirement IPPBX-Networking Phase-I			
S.No.	Item	UoM	Qty
1	IP-PBX Server- Attached technical detail in Technical Compliance sheet	Nos	1
2	Wireless VoIP Gateway- Attached technical detail in Technical Compliance sheet	R-Nos	1
3	Analog FXS Gateway- Attached technical detail in Technical Compliance sheet	R-Nos	2
4	IP Phone- Attached technical detail in Technical Compliance sheet	R-Nos	5
5	Optical Fiber Patch Cord, SM, LC-LC	Nos	2
6	24 Port Gigabit Ethernet Smart Managed PoE Switch with 2 Giga SFP Ports with transreceiver	Nos	2
7	Fiber Optic Joint Termination Enclosure Box with OFC Splicing Tray	Nos	2
8	Fiber splicing Charges as per actual	Nos	4
9	Installation, testing, and commissioning with configuration of PBX, FXS Gateway, SIP Phones, Switch configuration, splicing.	Nos	1

Scope of work (as per requirement of NATRAX):

1. IPPBX Installation and Configuration - Qty1.
2. Wireless VoIP Gateway Configuration - Qty1. (GSM/VoLTE SIM will be provided by us)
3. FXS Gateway Device Configuration - Qty2.
4. IPPHONES Installation and Configuration - Qty5.
5. 24 Port PoE Gigabit Switch Installation and Configuration - Qty.2
6. Fiber splicing as per requirement.
7. Operational support and training must be provided by successful bidder throughout the warranty period.



Form for the submission of Financial Bid

Financial Proposal Submission Form
(To be Executed on Letterhead of the Bidder)

FINANCIAL PROPOSAL SUBMISSION FORM

[Location, Date]

To:
The Head Procurement
NH-52, Old Agra- Mumbai Highway,
Near to Pithampur Flyover,
Post Khandwa (Near Pithampur)
Dhar District, Madhya Pradesh-454774

Dear Sir,

We, the undersigned, offer to provide the equipment & services in accordance with your Tender No. _____, dated _____ and our Technical Bid. Our attached Financial Bid includes the price in the format for financial bid provide as part of tender documents. The total price of our offer is _____ (in figures and words) and includes all the deliverables under this tender as per our Technical Bid.

We hereby declare that all the information and statements made in this Bid is true and complete in all respects and is as per the guidelines and terms & conditions laid down in the tender document. We further understand that any information which is found false or is not as per the guidelines and terms & conditions of the tender document may lead to our disqualification.

Our Financial Bid shall be binding upon us subject to the modifications resulting from Contract negotiations, up to expiration of the validity period of the Bid.

We understand NATRAX has right to accept or reject our Bid as per its discretion.

Yours sincerely,

Authorized Signature [In full]: _____

Authorized Signature [In initials]: _____

Name and Title of Signatory: _____

Name of Firm: _____

Address: _____

[Note : To be signed in blue ink]

ANNEXURE-III

Bill of Quantities (BOQ)/Financial Bid

S.No.	Item	UoM	Qty	Rate	Amount
1	IP-PBX Server- Attached technical detail in Technical Compliance sheet	Nos	1		
2	Wireless VoIP Gateway- Attached technical detail in Technical Compliance sheet	R-Nos	1		
3	Analog FXS Gateway- Attached technical detail in Technical Compliance sheet	R-Nos	2		
4	IP Phone- Attached technical detail in Technical Compliance sheet	R-Nos	5		
5	Optical Fiber Patch Cord, SM, LC-LC	Nos	2		
6	24 Port Gigabit Ethernet Smart Managed PoE Switch with 2 Giga SFP Ports with transreceiver	Nos	2		
7	Fiber Optic Joint Termination Enclosure Box with OFC Splicing Tray	Nos	2		
8	Fiber splicing Charges as per actual	Nos	4		
9	Installation, testing, and commissioning with configuration of PBX, FXS Gateway, SIP Phones, Switch configuration, splicing.	Nos	1		

Note: the quoted rates should be inclusive of GST, Transportation, Labour charges etc all.

SEAL & SIGNATURE OF BIDDER'S



ANNEXURE -IV

NATRAX Bank details to be used for submission of EMD/Tender Fee (if any) & procedure for passwords protection

The image shows a Bank of Baroda cheque form. The bank's logo and name are at the top left. The address is Pithampur, Dhar - 454775. The account type is CBS (Current Bank Savings) and the account name is 'सेविंग्स खाता SAVINGS ACCOUNT'. The cheque is dated 13/07/2012. The amount is written as 'Rupees रुपये' and '₹'. The cheque number is 57730100011758. The cheque is marked 'Cancelled' and 'Can' in large handwritten letters. The MICR line at the bottom is 000001 4520 2026 011758 31.

प्रीतपुर धार - ४५४७७५
PITHAMPUR, DHAR - 454775
RTGS / NEFT IFSC CODE : BARB0PITHAM

जारी की गई तारीख से तीन माह के लिए वैध / VALID FOR THREE MONTHS FROM THE DATE OF ISSUE

CBS D D M M Y Y Y Y
सेविंग्स खाता SAVINGS ACCOUNT

Pay _____ or Bearer
Rupees रुपये _____ या धारक को

अदा करें ₹ _____

FOR NATIONAL.AUTOMOTIVE.TEST.TRACKS.NATRAX.DIVISON

आ. सं. 57730100011758
Ale No.

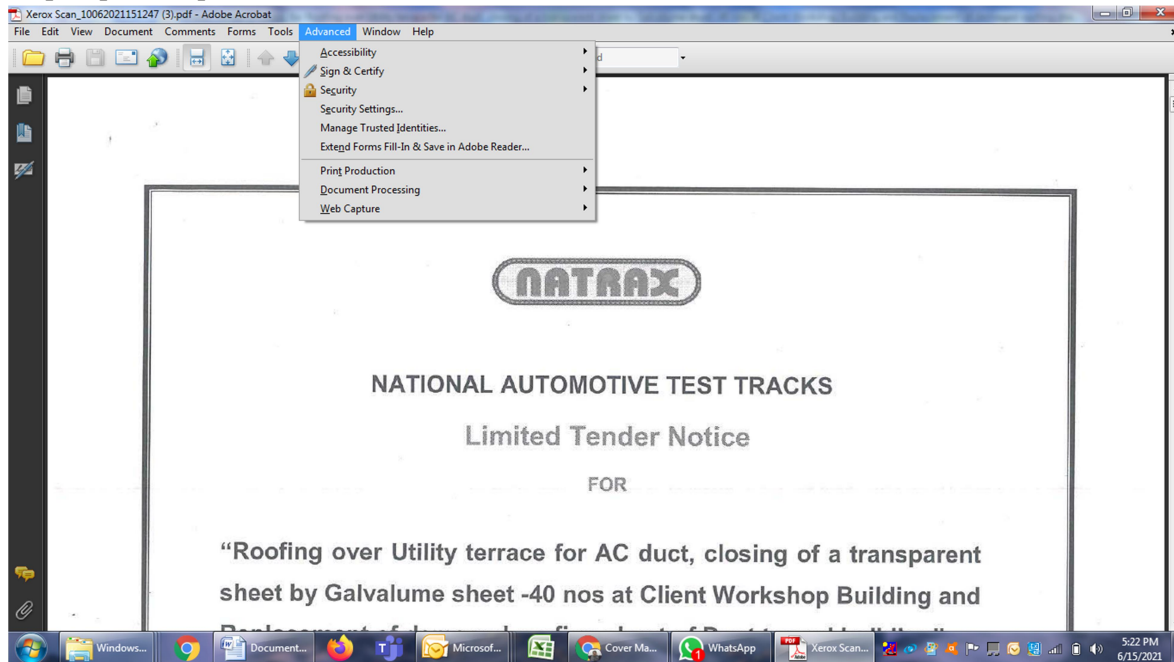
भारत की सभी शाखाओं पर समानुक्त पर चेक | PIT
Payable at par at all branches in India

AUTHORISED SIGNATORY
Please sign above

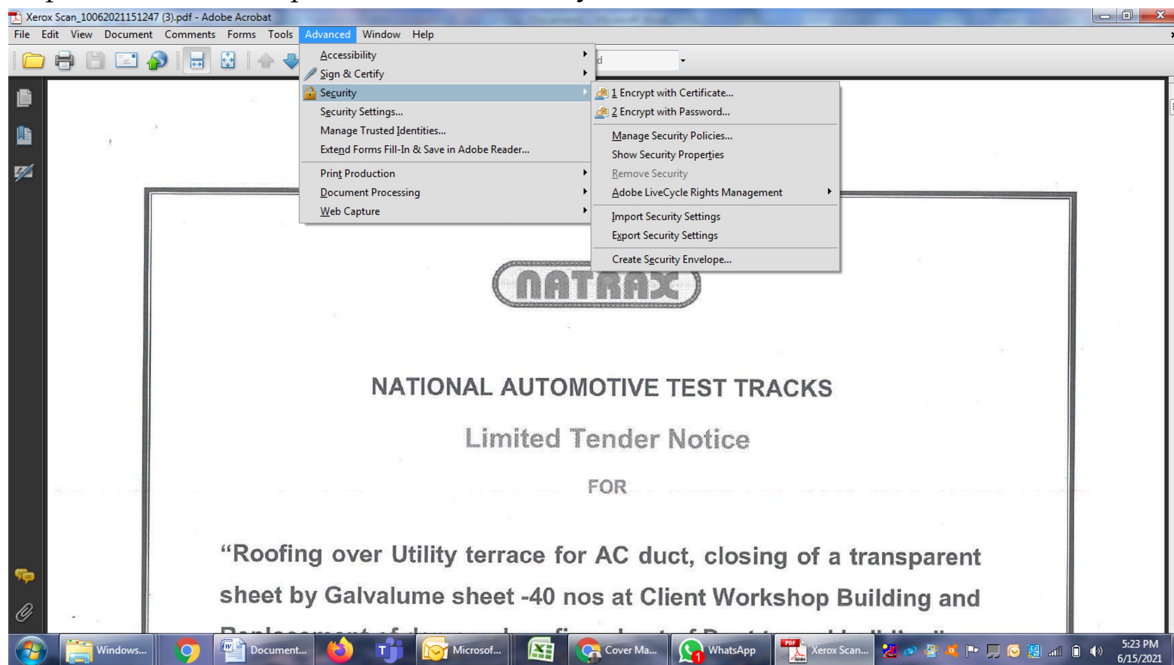
000001 4520 2026 011758 31

Steps for loading passwords in PDF Files-Method I

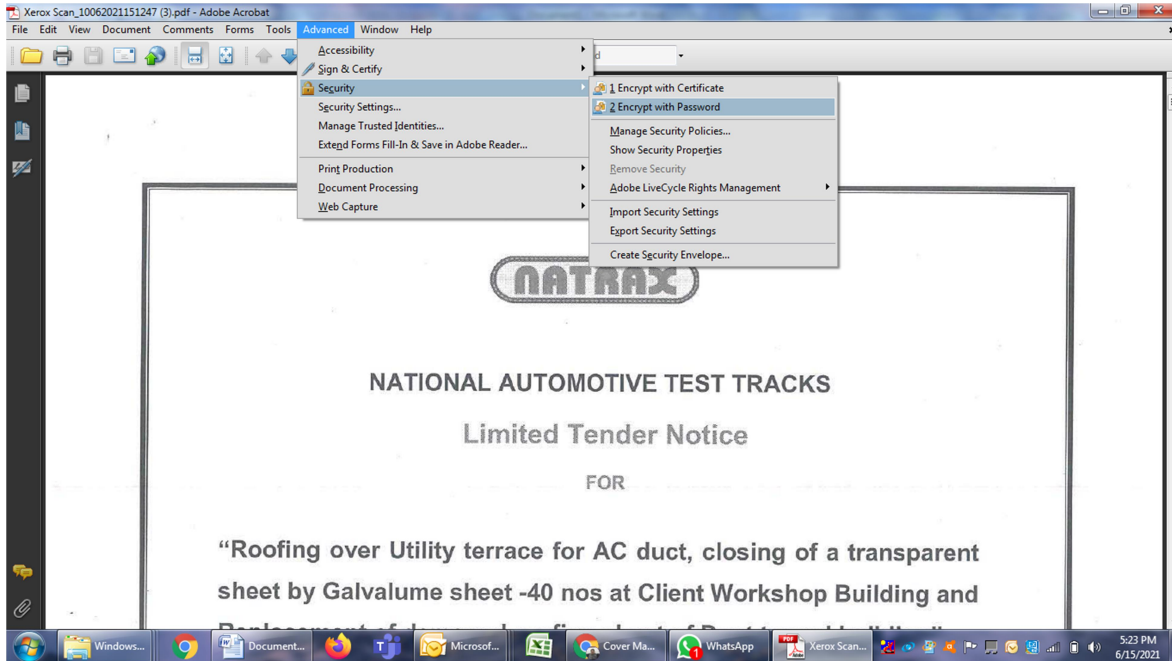
Step 1- please open PDF file and click on “Advance” tab.



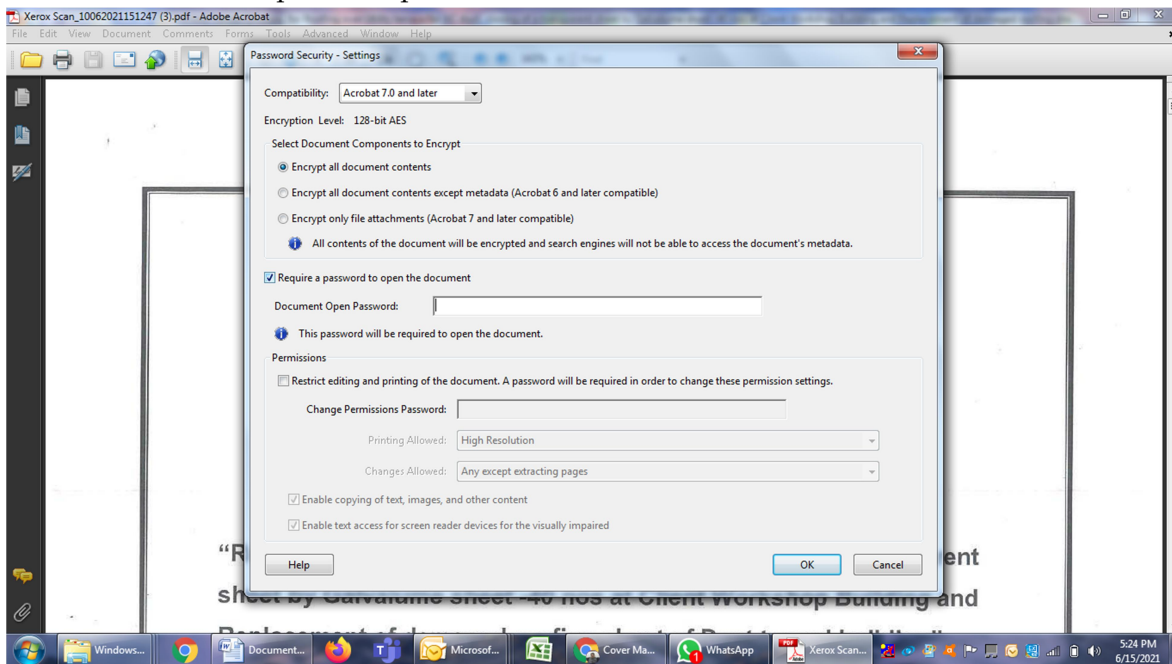
Step 2- in advance tab, please click on “Security” tab.



Step 3- in security tab, please click on “2 Encrypt with Password”.



Step 4- after that below window will open, please check in option “Required a password to open the document”. Then please fill password and click “ok”.



Step 5- after that below window will be open, please fill same password again, and click "ok".

