



**Government of Odisha
Forest, Environment & Climate Change Department**

**Office of the Deputy Director,
Similipal South Wildlife Division, Baripada**

Phone No-(06792) 252593, Fax-256705; Email Id: dfo.similipalsouthwl@odisha.gov.in



**Tender Document for “Supply, Installation of
Software for AI based detection & surveillance
on Forest Fire with Real time Alert System with
Comprehensive Maintenance Contract (CMC)
for 5 Years” in Similipal Tiger Reserve,
Mayurbhanj, Odisha**





**OFFICE OF THE DEPUTY DIRECTOR,
SIMILIPAL SOUTH WILDLIFE DIVISION, BARIPADA**

Phone No-(06792) 252593, Fax-256705; Email Id: dfo.similipalsouthwl@odisha.gov.in

Bid Identification No: DD South-09/2025-26, Date: 12.25

Tender for "Supply, Installation of Software for AI based detection & surveillance on Forest Fire with Real time Alert System with Comprehensive Maintenance Contract (CMC) for 5 Years" in Similipal Tiger Reserve, Mayurbhanj, Odisha

The Deputy Director, Similipal South WL Division invites bid from reputed firms/ manufacturers / authorized distributors/ dealers for **"Supply, Installation of Software for AI based detection & surveillance on Forest Fire with Real time Alert System with Comprehensive Maintenance Contract (CMC) for 5 Years"** in Similipal Tiger Reserve, Mayurbhanj, Odisha. The Tender document containing the details of Document fees, EMD, preparation of the bid and terms & conditions of the Tender is available in online at www.similipal.org or at the O/o the Deputy Director, Similipal South WL Division, Baripada. The Last date of submission of the Tender is 28.12.25, 04.00 P.M. The Deputy Director, Similipal South WL Division, Baripada reserves its right to amend/modify/cancel any of the scope and terms and conditions of this tender without assigning any reason thereof.

Sd/-

**Deputy Director,
Similipal South WL Division,
Baripada**



Disclaimer

The information contained in this Tender Document or subsequently provided to Bidder(s) whether verbally or in documentary form by or on behalf of the Deputy Director, Similipal South WL Division or any of their employees or advisors, is provided to the Bidder(s) on the terms and conditions set out in this Tender Document and all other terms and conditions subject to which such information is provided.

This Tender Document is not an agreement / contract and is not an offeror invitation by the Tendering Authority to any party other than the bidder who are eligible to submit the Bids ("Bidders"). The principle of this Tender Document is to provide the Bidder(s) with information to support the formulation of their Proposals. This Tender Document does not purport to contain all the information each Bidder may entail. This Document maynot be apposite for all persons, and it is not possible for Tendering Authority, its employees, or advisors to consider the investment objectives, financial situation, and needs of each Bidder who reads or uses this Tender Document. Each Bidder should conduct its own investigations and analysis and should check the accuracy, reliability and completeness of the information in this Document and where necessary obtain independent advice from appropriate sources. The Tendering Authority, its employees and advisors make no representation or warranty and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of this Document. The Tendering Authority may in its absolute discretion, but without being under any obligation to do so, update, improve or supplement the information in this Tender Document



1:FACT SHEET

Sl. No.	Item	Description
a)	Bid Identification No.	Bid ID No. DD South-09/2025-26
b)	Project Title	<i>Tender for "Supply, Installation of Software for AI based detection & surveillance on Forest Fire with Real time Alert System with Comprehensive Maintenance Contract (CMC) for 5 Years" in Similipal Tiger Reserve, Mayurbhanj, Odisha</i>
c)	Name of the Tender Inviting Authority	Deputy Director, Similipal South Wildlife Division, Bhanjpur, Baripada, 757002
d)	Contact person, Address & Email	Sri Sidharth Pratihari, Sr. Assistant, O/o the Deputy Director, Similipal South WL Division, Baripada, 757002. Mob: 8908157052 Email: dfo.similipalsouthwl@odisha.gov.in
e)	Tender paper Cost	Bidders shall submit non-refundable tender paper cost of ₹5,000/- (Five Thousand) in the form of Demand Draft/Cheque in the name of Deputy Director, Similipal South Wildlife Division, Bhanjpur, Baripada.
e)	Earnest Money Deposit	Bidders shall submit, along with their Bids, EMD of ₹1,00,000/- (One Lakh only) and should be valid for 180 days from the due date of the tender. The EMD should be submitted with the Technical Bid. The EMD may be paid through Demand Draft/Bank Guarantee infavour of Deputy Director, Similipal South Wildlife Division, Bhanjpur, Baripada.
f)	Selection Method	Least Cost Selection Method (L1)
g)	Date of issue of Tender	17.12.2025
h)	Date of availability of complete Tender Documents	19.12.2025
i)	Last Date of Submission of Bid	28.12.2025, 4.00 P.M
j)	Date of Technical Presentation	02.01.2026, 11.00 A.M onwards
k)	Date of opening of technical	03.01.2026, 11.00 A.M onwards
l)	Date of Opening of financial bid	04.01.2026, 11.00 A.M onwards
m)	Bid Validity Period	120 Days



2: INTRODUCTION TO THE PROJECT

Similipal Tiger Reserve covering 2750 Sq. Km of forest area located in the centre of Mayurbhanj district. The buffer area of the tiger reserve has several villages and is prone to forest fires every year between February to May. Traditionally the department depends on fire alerts from satellites received from FSI which is transmitted to field personnel at the ground for quick movement of fire control infrastructure. However, the time period between occurrence and alert transmission varies from 2 hrs to 6 hrs. This resulted in the fire extending to wider area and control of fire difficult. There was therefore a requirement of real-time fire detection. In 2023-24 with the funding from government an advanced AI system was set up in

Similipal Tiger Reserve.



Figure 1 Tower Location of Similipal

Technology and Infrastructure:

The newly implemented system features the following components:

- Tower infrastructure
- Cameras
- Solar system
- Information transmission system
- Control room infrastructure.
- AI Software

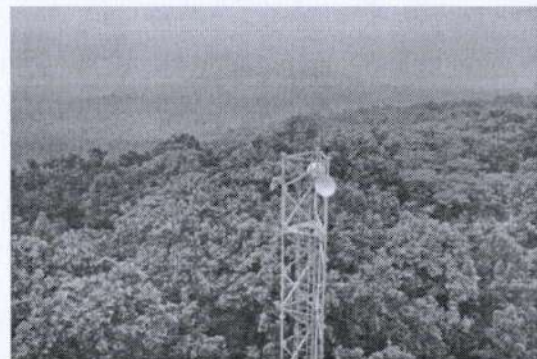


Figure 1 Tower with PTZ camera at Kusumbani

Existing infrastructure:

Tower Infrastructure:

Five towers were established at strategic locations inside Similipal Sanctuary. These towers are having 4 Tonnes weight bearing capacity that can withstand wind speed of up to 250 Km/hr. The towers are of 25 m tall and located on the top of the hills at heights varying from 800m to 1100m. Each tower has 3 lightening arresters each of -0.05 ohms resistance. The location of the towers are (1)Kusumbani (2) Chahala (3)Kulipal (4) Meghasani and (5)Gudgudia as per *Figure-1*. The following are the influencing factors for deciding the location of the tower which also decide the effectiveness of the system:

- The towers are located at maximum possible height as possible for the cameras to have a clear view of the farthest distance to maximise the area coverage.
- Each tower is located such that there is line of sight between the towers for transmission of information.
- The total area covered for fire detection is maximised and the most fire prone areas are effectively covered.



D. Accessibility to the spot is also considered.

Camera infrastructure:

Each tower is fixed with high-resolution cameras. Each camera has a visual range of 15-20 kilometres, effectively covering the entire sanctuary. The cameras are high resolution (Pan, Tilt and Zoom) and work Day and Night (24 x7) connected via RF to the Central Command Room. The PTZ cameras are mounted on towers (Figure 2)

Solar System:

The system is solar powered with inverters of 3.5 KVA at site. The solar infrastructure and the tower are protected in a solar powered fence for protection from elephants. (Annexure 4)



Figure 2. RF antenna and camera

Information transmission System:

A robust communication systems to transmit Wireless Connectivity between towers and control room via High-Performance Integrated InnerFeed® airMAX® ac Bridge is provided (Figure 3). The communication between towers and the control room is also through internet. Internet is transmitted from Bariapda via the same radiofrequency used by the system. Therefore, there is high reliability in data transmission. (Annexure 5)

Control Room Infrastructure:

The control Room at Field Director office has been established with State of the Art Technology with high end graphic outputs. Storage Devices have been setup to store the data collected by the cameras. (Figure 4).

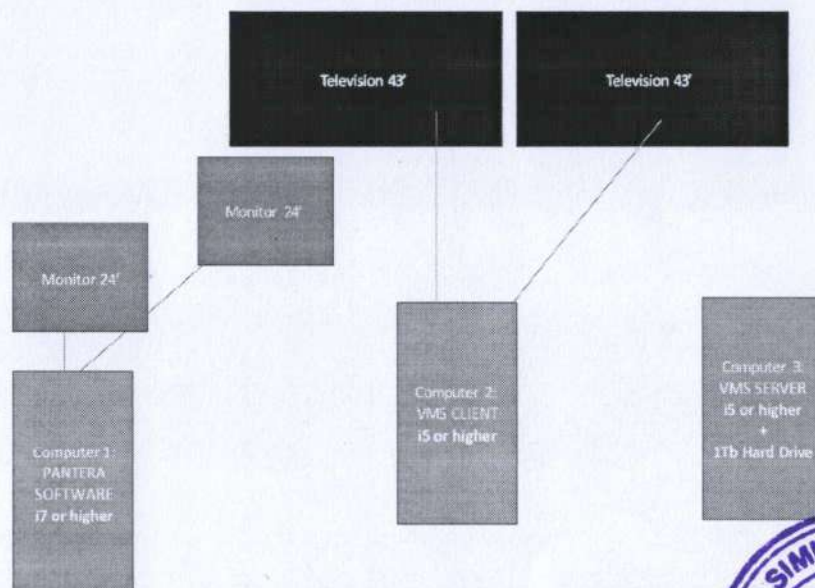
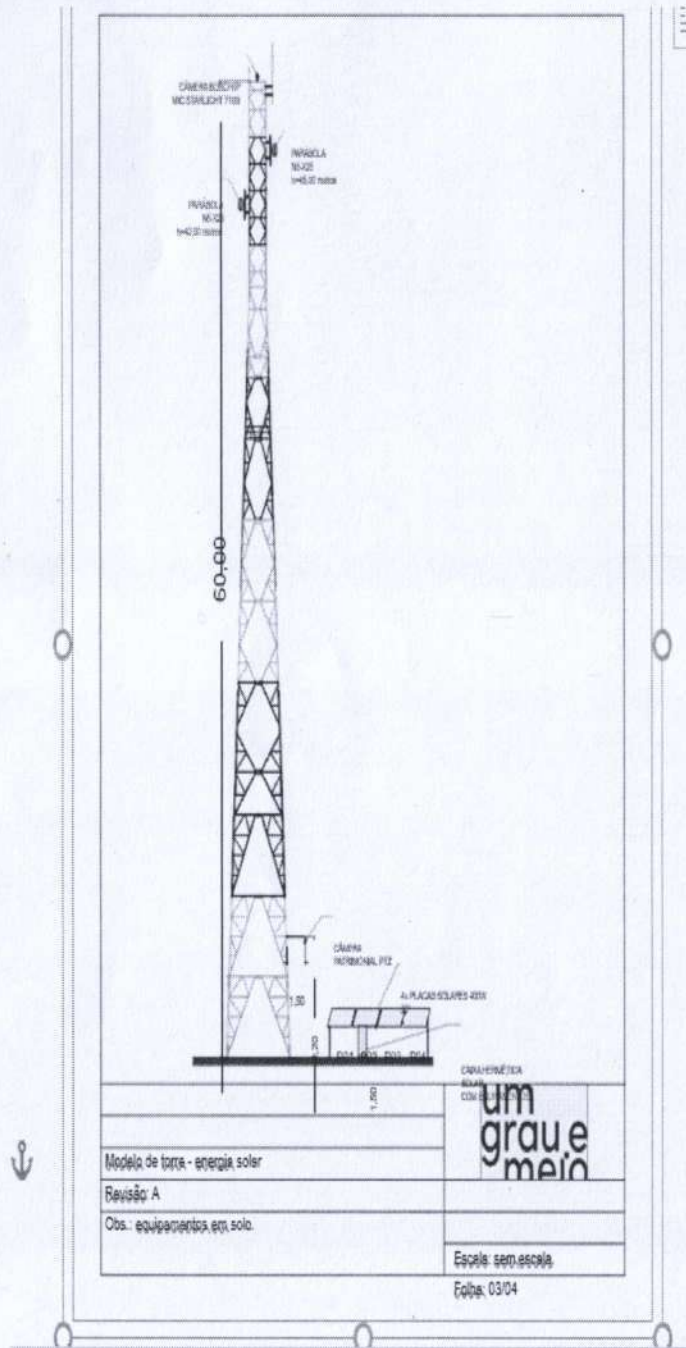


Figure-4 Control room Set up

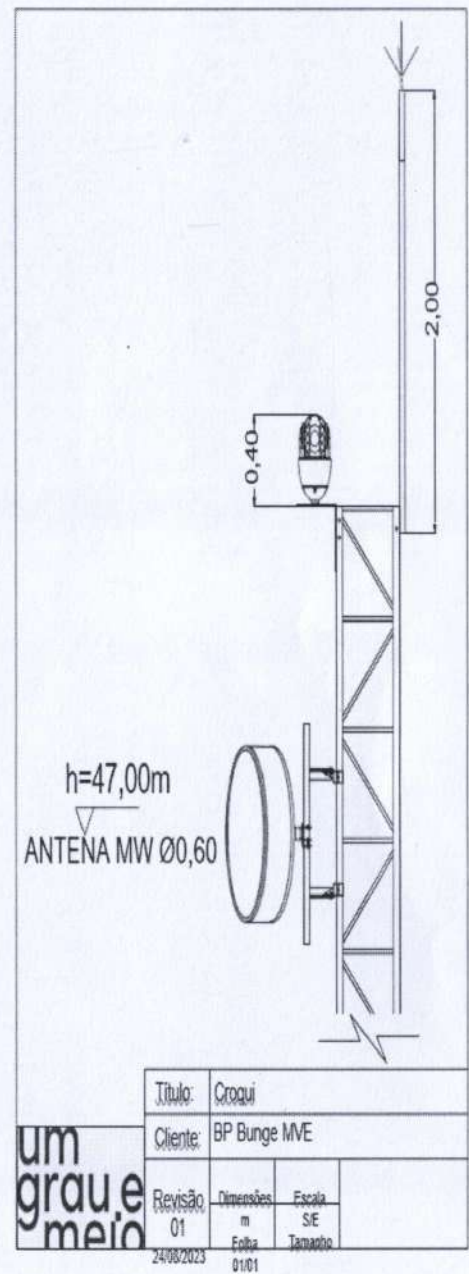
COMPONENTS OF THE INFRASTRUCTURE

Tower with Power + Connectivity
Tower Setup
PTZ Camera + Setup
Power
Solar UPS
Solar Circuit breaker
DC Surge Protector
Solar Charge controller
48VDC cooler FAN
Connectivity
PTP Radio with Antennae
Control Room
Bandwidth (To Be Provided by Client on Site)
2 touch displays for the detection software
1 display for security cameras
1 display for the Pantera Web management software
Main PC: I7 CPU/gaming GPU/16Gbram 250Gb SSD
Image recording Server in 1+ Tb
Auxiliary PC running AI: I7 CPU/gaming GPU/16Gbram 250Gb SSD
Cloud Router Switch
PoE Patch Panel
Relay Coupler
Siren
PoE Injector
IP Dome Camera
Firewall
Testing & Installation





(TowerInfrastructureDetails)



(RF Antenna fixed on Tower)



PTZ Camera – Installed on The Tower

Datasheet

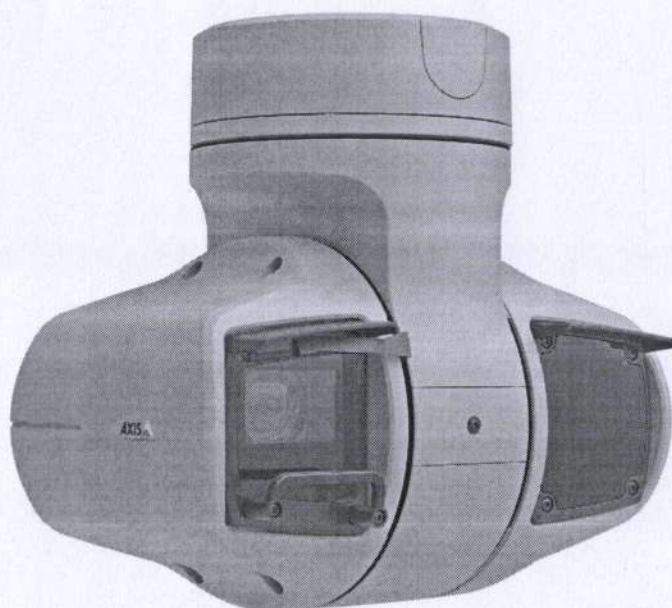


AXISQ6225-LEPTZCamera

Heavy-dutyPTZcamerawithlong-rangeIR

This heavy-duty PTZ camera meets the MIL-STD-810G standard, ensuring reliable operation in the toughest conditions. It offers HDTV 1080p resolution and a 1/2" sensor with 31x optical zoom. Featuring Lightfinder, Forensic WDR, and OptimizedIR it ensures sharp, clear images in any light conditions. This vandal-resistant, IK10-rated camera is resistant to both impacts and harsh weather conditions including wind speed up to 245 km/h (150 mph). It comes with built-in analytics preinstalled to alert you when needed. Additionally, Zipstream with H.264/H.265 significantly reduces bandwidth and storage requirements without compromising image quality.

- > HDTV1080pand31xopticalzoom
- > 1/2"sensorandlong-rangeOptimizedIR
- > Electronicimagestabilization
- > MIL-STD-810GandNEMATS2compliant
- > AXISObjectAnalyticspreinstalled



SolarOff-GridSystem-InstalledontheTowerforPowerforCamera+RadioPTP

Technical Specification of 3.5KW Off-Grid Solar System.

Sl No.	ItemDescription	Qty	Make
01	SolarPanel535-545WpMono Half cut	6	Luminous/Livfast/ Microtek/ Renewsys/E.
02	Solar Off-Grid Inverter 3.75KVA,48Volt.	01	Luminous/Livfast/Microtek/Eq
03	SolarBatteryC10150ah,12 V	04	Luminous/Livfast/Microtek/Eq
04	DCCable4MM	30Mtr	Polycab/Microtek/KEI
05	DCCable10MM	30Mtr	Polycab/Microtek/KEI
06	AJB3in1out 1000Volt	01	Elmake
07	MC4Connector	10pair	
08	Installation	3.75K.W	



PTPRadio with Antennae- Installed on Tower



Ubiquiti airFiber 5X HD Radio AF-5XHD-US 5GHz PtP 1Gbps WISP Backhaul (2-Pack) with airFiber X Antenna AF-5G34-S45 Dish 34dBi Slant 45 AF-5X (2-Pack)

Model:AF-5XHD-US(2UNITS)

- Processor:airFiberLTUIC
- MaximumThroughput:1Gbps
- MaximumRange:100km
- PacketsperSecond:2+million
- Encryption:WPA2-PSK(AES)
- OS:airFiber-airOS8
- WirelessModes:AP/CPE

Radio

- Frequency:5150-5250MHz;5740-5850MHz
- FrequencyRange:4.8-6.2GHz
- Max.ConductedTXPower:29dBm
- Frequencyaccuracy:<2ppm
- ChannelBandwidth:10/20/30/40/50/60/80/100MHz

ProductSpecifications

- Dimensions:8.82x3.23x1.89"
- Weight:12.3oz
- RFConnectors:(2)RP-SMAweatherproof(CH0,CH1)(1)SMAweatherproof(GPS)
- PowerSupply:24V,1AGigabitPoEAdapter
- Max.PowerConfiguration:6-12W
- Supportedvoltageconsumption:24-50VDC
- NetworkingInterface:Dataport:(1)10/100/1000EthernetportManagementport:(1)10/100/1000Ethernetport

Model:AF-5G34-S45(2UNITS)

- 5GHzFrequency
- 34dBiGain
- 650-mm diametersize
- 30dBFB/BRatio
- 1.6:1Max.VSWR
- Upto125mphWindSurvivability



3: SCOPE OF WORK

The scope of work covers supply, installation of software for AI based active detection of Forest fire, detection of movement of wild animals, detection of poacher movement and for use in other wildlife related management in Similipal Tiger Reserve alongwith 5 years of comprehensive maintenance contract(CMC) of the equipment.

Component-1

Supply & Installation of AI Software, Analytics -

(Detection should be based on AI for forestFire Management, Risk Index, Weather Data; Fire Propagationetc. In addition to that AI based detection of wild animalsto the extent of identifying species and location and distance)

Component-2

Comprehensive Maintenance Contract(CMC)-

Comprehensive Maintenance Contractfor the next five years starting from 2025-26 to 2030-31 of all the components (Cameras, Solar Grids, RF Connectivity, Control room, Towers etc.) for making the project fully operational.

4: INSTRUCTIONS TO THE BIDDERS

- a. The Deputy Director, Similipal South Wildlife Division hereinafter called as "Authority" invites sealed proposals from eligible bidders for "Supply, Installation of Software for AI based detection & surveillance on Forest Fire with Real time Alert System with Comprehensive Maintenance Contract (CMC) for 5 Years" in Similipal Tiger Reserve, Mayurbhanj, Odishaas per detailed scope of work in this RFP document.
- b. This invitation to bid is open to all bidders meeting the minimum eligibility criteria as mentioned in this tender Document.
- c. Not more than one bid shall be submitted by one Bidder.
- d. Proposals must be received not later than time, date and venue mentioned in the Fact Sheet. Proposals that are received late will not be considered in this procurement process.
- e. Bidder who has downloaded the tender document from the official website: (www.similipal.org) shall not tamper/modify the RFP form including downloaded price bid template in any manner. In case if the same is found to be tampered /modified in any manner, bid will be completely rejected and EMD would be forfeited and Bidder is liable to be banned from doing business with theauthority.
- f. The authority will award the contract to the successful bidder whose proposal has been determined as the best value proposal based on Technical and Financial evaluation criteria and accepted by the Tender Accepting Authority.
- g. The authority reserves the right to reject any or all the Bids in whole or part, prior to signing of the Contract, without assigning any reasons.



4.1 General Instructions

- a. All information supplied by Bidders may be treated as contractually binding on the Bidders, on successful award of the assignment by the "Authority" on the basis of this tender.
- b. No commitment of any kind, contractual or otherwise shall exist unless and until a formal written contract has been executed by or on behalf of the "Authority". Any notification of preferred Bidder status by the "Authority" shall not give rise to any enforceable rights by the Bidder. The "Authority" may cancel this public procurement at any time prior to a formal written contract being executed by or on behalf of the "Authority".
- c. This tender supersedes and replaces any previous public documentation and communications, and Bidders should place no reliance and dependence on such communications.

4.2 Compliant Proposals/ Completeness of Response

- a. Bidders are advised to study all instructions, forms, terms, requirements and other information in the tender documents carefully. Submission of the bid shall be deemed to have been done after careful study and examination of the bid document with full understanding of its implications.
- b. Failure to comply with the requirements of this paragraph may render the Proposal non-compliant and the Proposal may be rejected. Bidders must:
 - Include all documentation specified in this tender.
 - Follow the format of this tender and respond to each element in the order as set out in this tender.
 - Comply with all requirements as set out within this tender document.

5: DETAIL TERMS AND CONDITIONS

Detailed Terms and Condition for Tender for **"Supply, Installation of Software for AI based detection & surveillance on Forest Fire with Real time Alert System with Comprehensive Maintenance Contract (CMC) for 5 Years"** in Similipal Tiger Reserve, Mayurbhanj, Odisha" in various Forest & Wildlife divisions under Baripada Circle, Odisha are as under;

A. Technical Bid

- 5.1 The AI algorithms shall be designed in such a way that it will detect the forest fire automatically through the camera feed and gives instant alert to the control room and the users registered mobile number on real time basis.



- 5.2 The software shall provide continuous feed of information on 24x7 basis. In the event of wild animal detection, the AI camera shall be trained to the extent to identify the species, its exact location with GPS etc.
- 5.3 The software shall have the capacity to detect and distinguish each and every object separately with object attributes from the camera feeds.
- 5.4 **The system should carry high degree of accuracy while determining the spatial location of the objects. The accuracy should always be less than or equal to 50 mtr.**
- 5.5 **The software shall be one time license subscription for the user. No annual recurring cost or hidden charges are allowed.**
- 5.6 The software dashboard should be user friendly containing all required information and data base.
- 5.7 The system should have complete flexibility for upgrading and expansion in all respects depending on future requirements. The system should have liberty to add additional module in future based on the requirement.
- 5.8 The Authority reserve the right to accept or deny the proposal for additional modules at any point of time without assigning any reason thereof.
- 5.9 Technical bid should contain technical details provided along with relevant supporting Documents attached such as technical specifications, technical compliance, and data sheets.
- 5.10 The System shall be accepted based on the test certificates submitted by the manufacturer/bidder and successful completion of all the components as an integrated system after Installation & Commissioning at the installation site. Not meeting any of the component specifications will lead to rejection of the system as a whole.

B. Financial Bid

- 5.11 Financial bid(s) of the only technically qualified tenderer(s) will be opened for financial evaluation. Prices should be inclusive of all Taxes & Duties, as applicable. The financial bid(s) will be evaluated on the basis of the total cost as quoted.
- 5.12 Financial bid will be opened day after the technical bidding date i.e. 04.01.2026 at 11.00 A.M onwards in the office of the Deputy Director, Similipal South Wildlife Division, Baripada in presence of the bidder or their representative.

C. General Term & Condition

- 5.13 The bidders who wish to supply the system shall produce the Test/Qualification Certifications of the cameras. Bidding without certificates or producing fake certificates may lead to disqualify the bidder.
- 5.14 The complete hardware and software support to be extended by the contractor.
- 5.15 Diagnostic checks shall be done by the system periodically for the proper functioning of the Video Cameras.



- 5.16 All pre-bid queries have to be submitted in writing to Deputy Director, Similipal South Wildlife Division, Baripada through official email id: dfo.similipalsouthwl@odisha.gov.in on or before 25.12.2025 by 04:00 PM in the format given below on the letter head of the company.

Sr. No	Page No.	Clause/ Point No.	Subject	Clarification Sought	Remarks If any	
--------	----------	-------------------	---------	----------------------	----------------	--

No queries will be entertained after this allotted time frame. If it is considered necessary to modify the Technical Specifications or any Tender conditions, the same shall be carried out. The modified tender documents will again be uploaded on the website www.similipal.org for the information of all prospective tenderers.

- 5.17 All the pages of the Technical / Financial Bid format shall be page numbered and all the relevant supporting documents as required must be enclosed along with tender.
- 5.18 **Payment Terms: 90% payment of the order value of the software shall be released after satisfactory installation and testing of the software performance. Balance 10% of the order value shall be released after 180 days after satisfactory installation and submission of the test report. No advance payment will be made under any circumstances. For comprehensive Maintenance contract (CMC) the vendor will be paid quarterly in proportion to the contract value for 5 years subject to availability of funds.**
- 5.19 The maintenance work should be carried out in close coordination with the authority, field staffs and with minimum disturbance to the wildlife and its habitat. No works shall be executed after sunset and before sunrise in the sanctuary area. The workers shall strictly abide the provision of the Wildlife Protection Act, 1972 or any relevant act time being in force. Any violation of the above provision will be viewed seriously may leads to rescindment of the entire contract.
- 5.20 It will be Bidder Firm's responsibility to enforce all safety measures/precautions required as per relevant codes for carrying out the work. The authority shall not be responsible for any mishap/injury/impairment caused to the workers.
- 5.21 Bidder/Firm has to clean all the debris left behind after work at the end of days. They shall be responsible for labour engaged for their code of conduct.
- 5.22 The bid offer should be valid till 180 days from the date of opening of financial bid.
- 5.23 **Termination for Default:** The 'Authority' may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Bidder, terminate the Contract in whole or in part: If the Bidder fails to deliver any or all of the Goods within the period(s) specified in the Contract, or within any extension thereof granted by the Purchaser; or If the Bidder fails to perform any other obligation(s) under the Contract. If the Bidder, in the judgment of the purchaser, has engaged in corrupt or fraudulent practices in competing for or in executing the contract. For the purpose of this clause: "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. "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 borrower 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 borrower of the benefits of free and open competition. In the event the Purchaser terminates the Contract in whole or in part, the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or services similar to those undelivered, and the Bidder shall be liable to the Purchaser for any excess costs for such similar Goods or services. However, the Bidder shall continue the performance of the Contract to the extent not terminated. The contractor/bidder shall not display the photographs & content of the work and also will not take advantage through publicity of the work without written permission of the Authority. Non-Compliance to this may result in the blacklisting of firm. The incomplete and conditional tender will be rejected. Quoting unrealistic rates will also be treated as a disqualification.

- 5.24 **Force Majeure:** In no event shall either Party have any liability for failure to comply with this Agreement, if such failure results directly from the occurrence of any contingency beyond the reasonable control of the Party, including, without limitation, strike or other labour disturbance, riot, major power failure, war, natural calamities including but not limited to floods, earthquakes, fire, volcanic eruptions, epidemics, National Emergency, interference by any government or governmental agency, embargo, seizure, or enactment or abolition of any law, statute, ordinance, rule, or regulation (each a "Force Majeure Event"). In the event that either Party is unable to perform any of its obligations under this Agreement because of a Force Majeure Event, the Party who has been so affected shall as soon as may be, after coming to know of the Force Majeure Event, inform the other Party and shall take reasonable steps to resume performance as soon as may be after the cessation of the Force Majeure Event. If the period of non-performance due to a Force Majeure Event exceeds thirty (30) days, the Party whose ability to perform has been so affected may, by giving written notice, terminate this Agreement.
- 5.25 The incomplete and conditional tenders will be rejected. Quoting of unrealistic rates will also be treated as disqualification.
- 5.26 Bidder shall not be permitted to withdraw his/her offer or modify the terms and conditions thereof after acceptance of tender. In case the Bidder fails to observe and comply with the stipulations made herein or backs out after quoting the rate, the aforesaid amount of Earnest Money Deposit and Performance Guarantee will be forfeited by the 'Authority'. Besides this, the Bidder will also be liable to be debarred/blacklisted from participating in the tendering process of the 'Authority' in future and/or suitable penalty will be levied.
- 5.27 Normally no extensions of the scheduled delivery or completion dates should be granted except where events constituting force majeure, as provided in the contract, have occurred or the other circumstances demands for.



- 5.28 All the applicable taxes are to be paid by the Bidder/Firm. Price should be quoted accordingly. No price variation shall be allowed during the contract.
- 5.29 On receipt of intimation from the 'Authority' of the acceptance of his/their Tender, the successful Tenderer shall be bound to implement the contract and within 7 days thereof, the successful Tenderer shall sign an agreement and the Schedule of terms and conditions but the written acceptance by the 'Authority' of a tender will constitute a binding contract between the 'Authority' and the person so Tendering whether such formal agreement is or not subsequently executed.
- 5.30 Minimum oneweek Training Programme needs to be scheduled/arranged by the successful bidder, without any additional extra charges. The supplier shall provide training at desired places as fixed by the authority for personnel of user department on the operation, maintenance of the software. Training manuals [5 copies] towards this should be prepared and handed over to the user department before starting of the training.

5.31 Arbitration

- a. In the event of failure to carry out the contractual obligations, with in the stipulated period or extended period and determination of the contract for any reason. Violation of the warranties etc. the 'Authority' shall have the right to carry out the unfinished obligation at the exclusive cost and risk of the bidder/firm, after due notice and the difference so accrued shall be recoverable from the bidder/firm.
- b. The provision of the Arbitration and conciliation Act, 1996 or as at relevant time and of rules framed there under and any statutory modifications thereof shall be deemed to apply and be incorporated in this agreement.
- c. Upon every or any such reference, the cost of any incidentals to the reference and award(s) respectively shall be at the reasonable discretion of the Arbitrators or in the event of their not agreeing, of the Umpire appointed the amount thereof or direct the same to be fixed as between solicitors and client or as between parties and shall be direct by whom and in what manner the same shall be borne and paid.
- d. Panel of arbitrators will be provided by the 'Authority' out of which the bidder will have to select one.
- e. The bidder shall have no objection if the officer who has dealt with the case at any stage is nominated as an arbitrator. Further, that one of the arbitrator's shall be Accounts Expert.
- f. In case of vacancy being caused due to resignation, death or incapacity of the arbitrator's to function as such, the same shall be provided in the aforesaid manner and the new arbitrator's shall proceed from the stage at which vacancy is caused.



- g. All disputes shall be subject to the jurisdiction of the Court of Law at Baripada, Mayurbhanj, Odisha

6: KEY REQUIREMENTS OF THE BID

General requirement

1. Earnest Money Deposit:

- a. An EMD of the value @ ₹1,00,000/- (Rupees One Lakh only) must be paid through Demand Draft/Cheque/Bank Guarantee in favour of the Deputy Director, Similipal South Wildlife Division, Bhanjpur, Baripada in any nationalized Bank payable at Baripada.
- b. The EMD should be submitted in the Technical Bid.
- c. The EMD of the unsuccessful bidders would be returned on the same day of the final selection of bidder.
- d. The EMD of successful bidder would be returned after satisfactory installation & testing of the software.
- e. The bid / proposal submitted without EMD, mentioned above, will be summarily rejected.
- f. The EMD shall be forfeited:
 - If Bid is withdrawn during the validity period or any extension agreed by the Bidder thereof.
 - If the Bid is varied or modified in a manner not acceptable to the Purchaser after opening of Bid during the validity period or any extension thereof.
 - If the Bidder tries to influence the evaluation process.
 - If the successful bidder fails to sign the contract or the performance guarantee is not submitted within the time specified
- g. The local MSE bidders are exempted from submission of EMD. However, they must furnish documentary evidence against the same.

2. Tender Paper Cost:

The participating bidders shall submit a non-refundable tender paper cost of **₹5,000/-** (FiveThousand Only) though Demand Draft/Cheque in favour of Deputy Director, Similipal South Wildlife Division, Bhanjpur, Baripada in any nationalized Bank payable at Baripada.

3. Bidder Eligibility:



Any false and/or inadequate information can result in rejection of the tender. While deciding on the selection of contractors, emphasis will be given on the ability and competence of applicants to do good quality works in the specified time schedule and in close co-ordination with other agencies. Decision of the 'Authority' with regard to selection of contractors will be final. The 'Authority' is not bound to assign any reasons thereof. The following are the criteria:

- i. **Experience:** The bidder shall have minimum 2-3 years of experience in the field of supply & installation of early warning system including maintenance.
- ii. **Brand:** The bidder must be an OEM or registered dealer of the product they are intended to supply. In both of the cases the certificate to that effect to be furnished by the bidder.
- iii. **Clients:** The bidder shall have valid clients in India which it has served at least during last 3 years.
- iv. **Work History:** The bidder shall have served to any Government department or Forest Department in any States of India during last 3 years. The bidder shall have to produce an authenticate certificate to his effect during participation in the bidding or else the bidding will be summarily rejected.
- v. **Registered office:** The bidder shall have registered office in India. The certificate to this effect should be submitted.
- vi. **Financial Stability:** The agency/vendor must have minimum turnover of at least Rupees **Two crore** every year in the last 3 years.
- vii. **Black listed:** The bidder should not have been blacklisted or should not be under liquidation, court receivership or similar proceeding and should not be bankrupt. The bidder shall have to furnish an undertaking to this effect along with the technical bids.

7: METHOD OF SELECTION

- i. The tender shall be prepared and submitted in two parts, viz, Part-I containing Technical and Commercial details of the offer and consent of the Contractor for terms and conditions of the tender and Part-II containing Prices only (Financial Bid).
- ii. Telegraphic, Fax and Email tenders will not be accepted.
- ii. Insertions, post scripts, additions and alterations shall not be valid unless confirmed by the tenderers signature. All copies of the tenders should be completed in all respects with all attachments/enclosures/annexures.
- iii. The Authority will evaluate the tenders, strictly on the basis of the terms & conditions incorporated in the tender document with the terms & conditions etc. as stipulated by the tenderer(s) in their tender to determine whether these are compliance in all respects, as specified in the tender document.
- iv. During the evaluation / scrutiny of the tenders, at any stage, if it is found that any of the tenderer(s) terms and conditions are not compliance with tender document, 'Authority' may seek the clarification within the specified target time and if the tenderer fails to reply / or not agree / accept the terms & conditions, their tender will be treated as unresponsive and it is liable for rejection.
- v. Evaluation of the proposals shall be done in two stages as: Technical-Bid/ Evaluation and Financial-Bid/ Evaluation. Technical evaluation of the



proposals shall be done on the basis of essential bidder eligibility criteria and the required Technical Specification. The Financial-Bid of the only technically qualified tenderer(s) will be opened on fixed date and time.

- vi. A technical committee will be constituted by the authority to scrutinise the bidding documents as per the technical requirement specified in this tender or part of tender documents.
- vii. The participating bidder shall present before the technical committee about the company/organisation portfolio, brief description of project, key features with technical details for appraisal of the committee.
- viii. The technical committee will verify the technical specification of the software as proposed by the participating bidder and select the best with and latest available software in this segment which will meet the requirement. The decision of the committee will be final and binding upon the parties.
- ix. All the technically qualified bidder will be called for 01 days of demonstration of their product/system in the field. The bidder will arrange the demonstration at their own cost. The authority will not take any responsibility for loss or damage of any of the products/goods during the demonstration.
- x. Upon successful demonstration of the system/product, the bidder will only be considered for the financial bid subject to satisfaction of the technical committee.
- xi. Bidder successfully qualified in Technical bids & demonstration will only be accepted to participate in the financial bidding.
- xii. The date of opening of financial bid will be communicated separately after successful demonstration is over.

8: AWARD OF BID

- i. Bid will be awarded to the bidder having lowest quoted price fulfilling all the required technical specification after successful demonstration.
- ii. The selected bidder shall enter into a formal agreement with the as per the Term & Conditions of the bid.

9: TECHNICAL REQUIREMENT

Minimum technical requirement of the software for detection of Forest Fire & Real time Alert System

- i. Possess developed Automatic Instant Detection System for Fire Detection.
- ii. AI algorithm (artificial intelligence) that detects fires and gives Instant Alerts to the control room and registered mobile no. of the targeted users.
- iii. Fire Risk Index.
- iv. App based alert detecting software.
- v. 24x7 operational capability.
- vi. Geo Tracking.
- vii. Continuous monitoring and recording.



viii. High degree of spatial accuracy(Accuracy<50 mtr.)

10: FINANCIAL BID

Financial Bid (Tentative BOQ)

"Supply, Installation of Software for AI based detection & surveillance on Forest Fire with Real time Alert System with Comprehensive Maintenance Contract (CMC) for 5 Years" in Similipal Tiger Reserve, Mayurbhanj, Odisha

Sl. No.	Name of the Component	Total Price	Rate of GST	Amount of GST	Total Price (with all Taxes)
1	Component-1 (AI-Software, Analytic includes AI Detection, Risk Map, Map Layers, Geo Tracking etc.)				
2	Component-2 Comprehensive Maintenance Charges (CMC) for the entire system (Tower, RF, Power Supply, Control Room & Cameras etc.) for 5 years.				
	i. With Materials				
	ii. Without Materials				
3	Total(With Materials)				
4	Total(Without Materials)				

Note:

1. With materials means the vendor/bidder has to supply both the materials and service during the repair and maintenance work.
2. Without materials means the cost of materials will be borne by the Authority & the vendor/bidder will have to provide only appropriate technicians, logistics and services during repairing and maintenance.
3. All the documents should be paged numbered and above format is filled according, failing which the tender will be cancelled
4. I/We have gone through the entire terms & conditions as stipulated in the tender document and confirm to accept and abide the same.
5. The Rate & Amount quoted above should be inclusive of GST, transportations and all other charges or taxes.



6. No other charges would be payable by the tender inviting 'Authority'.



Annexure-A

Tender Acceptance Letter

(To be given on Company Letter Head)

Date:

To,

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No: _____

Name of Tender / Work: -

Sir,

1. I/ We have downloaded / obtained the tender document for the above mentioned 'Tender/Work' from the web site namely:

_____ as per your advertisement, given in the above mentioned website.

2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents (including all documents like annexure(s), etc.), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.

3. The corrigendum(s) issued from time to time by your department/ organization too has also been taken into consideration, while submitting this acceptance letter.

4. I / We hereby unconditionally accept the tender document conditions of above-mentioned tender document / corrigendum(s) in its totality / entirety.

5. In case any provisions of this tender are found violated, then your department/ organization shall without prejudice to any other right or remedy be at liberty to reject this tender/bid including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)



Check List

Sl. No.	Detail	Yes/No	Documentary Proof (Page No.)
1.	EMD		
2	Tender Fees		
3.	Tender Acceptance Letter		
4	Certificate of experience (2-3 Year minimum)		
5	Certificate of satisfactory performance of system from any of the client to which the system has supplied & installed/ Work Order		
6	Technical Specifications		
7	Annexures-A, B, C, D, E &F(as per the proforma provided with the tender document)		
8	Financial Bid		

Note:The 'Authority' reserves the right to accept/reject any or all tenders without assigning any reason thereof and also to reject the material if the same is not found conforming to the specifications, with further right to affect risk and cost of the purchases.

Seal and Signature of Authorized
Signatory of Tenderer



Annexure-B

UNDERTAKING

It is certified that my Firm/Agency/Company has never been black listed by the any of the Government Departments/Autonomous Institutions/Universities/Public Sector Undertaking of the Government of India or any State Government or reputed educational institutions and no criminal case is pending against the said Firm/Agency/Company.

Signature of the Authorized Signatory -----

Name of the Signatory-----

Name of the Firm/Agency/Contractor-----

Seal of the Firm/Agency/Contractor-----

Place-----

Date-----



Annexure-C**Technical Specification**

"Supply, Installation of Software for AI based detection & surveillance on Forest Fire with Real time Alert System with Comprehensive Maintenance Contract (CMC) for 5 Years" in Similipal Tiger Reserve, Mayurbhanj, Odisha

Sr. No	Items	Fully Compliance (Yes/ No)	Make and Model	Page Numbers	Remarks
1	Automatic Instant Detection System for Fire Detection				
2	AI algorithm (artificial intelligence) that detects fires and gives Instant Alerts to the control room and registered mobile no. of the targeted users.				
3	Fire Risk Index.				
	App based alert detecting software.				
4	24x7 operational capability.				
5	Geo Tracking.				
6	Continuous monitoring and recording.				
7	High degree of spatial accuracy level. (Accuracy<50 mtr.)				



CERTIFICATE OF GUARANTEE/WARRANTY

(This certificate may be reproduced)

- i) I/We certify that the guarantee/warranty shall be starting from the date of satisfactory installation, commissioning and handing over of the equipment and of works conducted therewith covered under the Supply order in working Condition. During the guarantee/warranty period I/We shall provide "after sale service" and the replacement of any part(s) of the equipment or rectification of defects of work of the equipment will be free of cost. The replacement of the parts shall be arranged by us, at our own cost and responsibility. We undertake that the above guarantee/ warranty shall begin only from the date of installation, commissioning and handing over the equipment in working order. The benefit of change in dates of the guarantee/warranty period shall be in the interest of the user/your Institute.
- ii) During the warranty period, we shall provide at least three preventive maintenance visits & all breakdown services without any charges.
- iii) Uptime Guarantee : During the guarantee/warranty period, we will be responsible to maintain the equipment in good working condition for a period of 328 days (i.e., 90% uptime) in a block of 365 days. All the complaints will be attended by us within 5 days of receipt of the complaint in our office. In case there is delay of more than 5 days in attending to a complaint from our side then you can count the number of days in excess of the permissible response time in the downtime.
- iv) We certify that the equipment being offered/quoted is the latest model and that spares for the equipment will be available for a period of at least 5 years and we also guarantee that we will keep the 'authority' informed of any up-date of the equipment over a period of 5 years.
- v) We guarantee that we will supply spare parts if and when required on agreed basis for an agreed price. The agreed basis could be an agreed discount on the published catalogue price or an agreed percentage of profit on the landed cost.
- vi) We guarantee to the effect that before going out of production of spare parts, we will give adequate advance notice to you so that you may undertake to procure the balance of the life time requirements of spare parts.
- vii) We guarantee the entire unit against defects of manufacture, workmanship and poor quality of components.

Date

:

Authorised Signatory

Place

(With Sea



Annexure-E**MANDATE FORM FOR PAYMENT**

Sr.No.	Supplier Details	
1	Vendor Name	
2	Father/ Husband Name	
3	DOB	
4	PAN Number (Copy provided)	
5	Aadhaar Number	
6	TIN Number	
7	GST No.(Copy provided)	
9	Address Line1	
10	City	
11	Country	
12	State	
13	District	
14	Pin code	
15	Mobile No.	
16	Phone	
17	Email	
18	Bank Name	
19	IFSC Code	
20	Account Number	
21	Others	

Bidder(s)/Authorized Signatory (ies)

Annexure-F

DECLARATION SHEET

We.....hereby certify that all the information and data furnished by our organization with regard to this tender specification are true and complete to the best of our knowledge. I have gone through the specification, conditions and stipulations in details and agree to comply with the requirements and intent of specification. This is certified that our organization has been authorized (Copy attached) by the OEM to participate in Tender. We further certified that our organization meets all the conditions of eligibility criteria laid down in this tender document. Moreover, OEM has agreed to support on regular basis with technology / product updates and extend support for the warranty. The prices quoted in the financial bids are subsidized due to academic discount given to NIPER Mohali.

We, further specifically certify that our organization has not been Black Listed/De Listed or put to any Holiday by any Institutional Agency/ Govt. Department/ Public Sector Undertaking.	NAME & ADDRESS OF THE Vendor/ Manufacturer/ Agent
1. Phone	
2. FAX	
3. E-mail	
4. Contract person Name	
5. Mobile Number	
6. GST Number	
7. PAN Number	

