

**FOREST, ENVIRONMENT & CC DEPARTMENT
GOVT OF ODISHA
CHANDAKA WILDLIFE DIVISION ,
BHUBANESWAR**

**Design, Supply, Installation and Commissioning of AI Based System for Reduction of
Human-Elephant Conflict their Protection and Monitoring at Bharatpur -Jagannath
Prasad sector of Chandaka -Dampara Wildlife Sanctuary**

Tender No:

< 01/2023-24 >

**Divisional Forest Officer
Chandaka Wildlife Division
Bhubaneswar**

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Short Re-invitation for Bid

Tender No: **<02/2023-24>**

I.	Tender Document Opens for Download	;	29-02-2024
II.	Last Date for Submission of Tender	:	06-03-2024
III.	Opening of Tender	:	06-03-2024
IV.	Technical presentation	:	06-03-2024
V.	Opening of Financial Bids	:	07-03-2024
VI.	Award of Tender	:	07-03-2024
VII.	Completion of Work	:	08-04-2024
VIII.	Approximate project cost with 3 Years CAMC	:	2.1 Crores INR (1.62 Cr project cost + 0.48 Cr CAMC)

1 Introduction

Man-animal conflict is increasing in both frequency and severity world-wide and will likely to continue in future. Bharatpur-jagannath prasad sector of Chandaka-Dampara sanctuary is situated within capital city Bhubaneswar. The sanctuary is surrounded by thickly populated seven Nos of Slums ie. Rental Basti, Saliasahi ,Birbasa, Mundasahi, Chunakoli, Sundarpur & Bharatpur. This Forest is under enormous pressure for firewood, Poles, Poaching of wild animals and encroachment. Asiatic elephant is the flagship species in this forest. The elephants are moving outside for crop raiding resulting into man animal conflict. Hence, wildlife and humans increasingly compete for space and resources. The Government of Odisha is committed to conserve elephants and other wildlife species.

1.1 Problem Statement

Design, Implement and Support 24x7 E-Surveillance System (Electronic-eye, e-Eye) for forest areas of the desired ranges, including areas for elephants straying in the vicinity of Bhubaneswar WL Range., besides monitoring any kind of unwanted intrusion and to keep check on wildlife crime.

The key objective of the system will be to provide accessibility to the remote areas using unmanned surveillance system. The system should be based on long-range thermal sensors to support seamless 24X7 surveillance and wireless technology to ensure minimal setup and interference in the Forest area i.e. no cables should be laid within the Forest boundaries.

The System should do the following:

- System needs to be designed for protection of wildlife especially elephants.
- It has been observed that elephant herd moving across the forest boundaries are susceptible to the conflict situation. The system should enable reduction of such Human-elephant conflicts by generating appropriate alerts and warnings.
- All setups should be installed within forest boundaries and should be self-sufficient.
- Model needs to be designed so that the communication and information flow is multilevel, precise and faster.
- The system should be capable of detection of forest fires.
- Self-intelligent AI/ML based system for tracking surveillance and alerting i.e. should keep on surfing and should zoom in case of tracking of animal/human/any other moving object/object with body heat.
- Identify the human and animal trafficking remotely and generate appropriate moderated alerts with geographical information. Alert should show both geo-coordinates and name of locations.

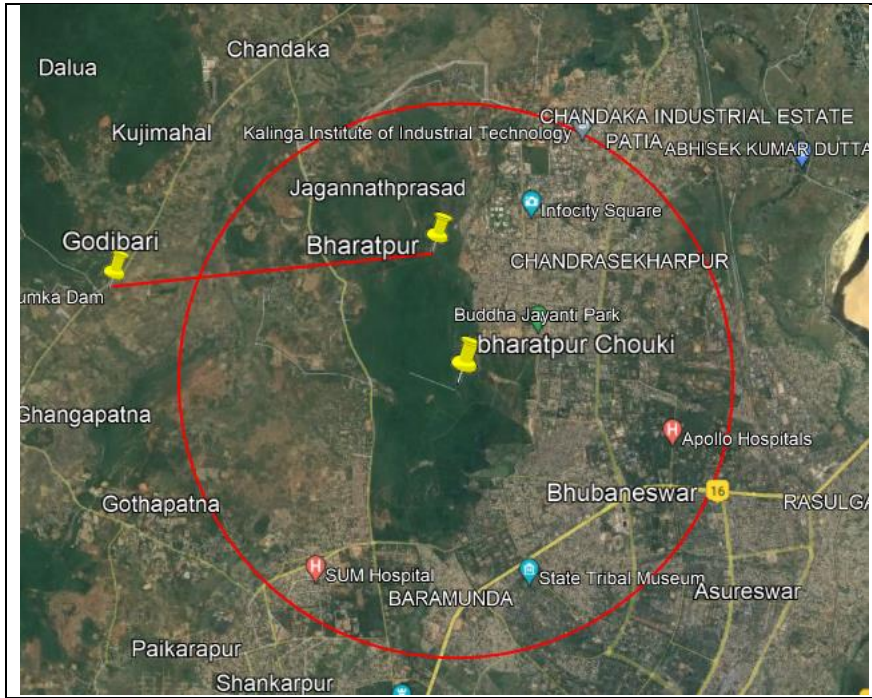
- System should support live surveillance and live combing.
- System should provide proper alert cycle and system monitoring to identify the system failures.
- The system should be able to detect Human/cattle/vehicle detection and tracking within the restricted areas.
- Accidents and other such activities need to be detected, tracked and alerted through control and SMS/EMAIL on selected mobile numbers and on computer for persons having appropriate access permissions, besides control room.
- An Artificial Intelligence and Machine Learning based 24X7 support for the complete system. Please note that the system should not only do live monitoring but should have software capabilities like species identification (Elephant/Cattle/Human) and other forest management features, pertaining specifically to forest.
- Poaching, trafficking, trend analysis and reporting should be integral part of the system.
- Establish and operationalize Control Room at desired location(s).
- Proper Integration mechanism in the software should be provided to consume data from various sources like Drones, Direct and indirect sightings, and any other viable source as identified by the Department and agreed by the Bidder.
- The system should be capable of Integrating Images for elephant profiling and tagging. The ML Model needs to be designed in consideration with the above.

1.2 Most Vulnerable sector for desired monitoring in the Chandaka Forest Division

Priority Segments

S. No	Division	Range	Priority Area Name	Total Area Desired for Monitoring
1	Chandaka	Bhubaneswar	Bharatpur	10-20 sq kms
2	Chandaka	Bhubaneswar	Jagannathprasad	4-5 sq kms
Control Rooms				
S. No	Division	Range	Control Room Location	GPS
1	Chandaka WL	Bhubaneswar	Near Bharatpur Watch Tower towards South	20°18'49.N, 85°47'45.65" E
2	Chandaka WL	Bhubaneswar	O/o the DFO Chandaka WL Divn,Bhubaneswar	20°17'10.N, 85°47'37.E
3	Chandaka WL	Bhubaneswar	Nature awareness centre,Bharatpur	NA

1.3 Google Map Snapshots for most Vulnerable sector for desired monitoring in the Chandaka Forest Division



1.4 Methodology for resolving the above problem –

A suitable sustainable 24x7, Artificial Intelligence driven, autonomous surveillance system is planned to be installed in the above mentioned most vulnerable sector, inside and outside reserve forest area, so as to provide adequate autonomously generated warning of an impending elephant movement or conflict situation to all concerned officials.

In spite of the above-mentioned mitigation measures, they are woefully inadequate to completely solve the problem. Our field assessments show that problem is complex and manual intervention alone would not be adequate. Therefore, the Forest department proposes to use most modern artificial intelligence based digital technology to supplement and complement the already existing mitigation measures.

1.5 Deliverables:

1. Fool proof mechanism to detect the presence of elephants and other wild animals in close proximity along the desired locations and give location specific early warning and real time alerts to all concerned officials.
2. The design, infrastructure, technical specifications of equipment including sensor systems should be effective, weather proof and sustainable in acquiring and communicating the required digital data at the problem location.
- 2 Live video streams of the surveillance system are to be provided to the display walls, stake holders .

3 Instructions to Bidders

3.1 General

- i. While every effort has been made to provide comprehensive and accurate background information, requirements and envisaged solution(s) specifications, Bidders must form their own conclusions about the solution(s) needed to meet the Odisha Forest Department's requirements. Bidders and recipients of this Tender Document may wish to consult their own legal advisers in relation to this Tender Document.
- ii. The Bidders are requested to examine the instructions, terms and conditions and specifications given in the Tender Document . Failure to furnish all required information in every respect will be at the Bidder's risk and may result in the

rejection of bid.

- iii. It will be the responsibility of the Bidder that all factors have been investigated and considered while submitting the Bids and no claim whatsoever including those of financial adjustments to the contract awarded under this tender will be entertained by Odisha Forest Department. Neither any time schedule nor financial adjustments arising thereof shall be permitted on account of failure by the Bidder to appraise themselves.
- iv. It will be imperative for each Bidder(s) to familiarize itself/ themselves with the prevailing legal situations for the execution of contract. Chandaka Wildlife Division shall not entertain any request for clarification from the Bidders regarding such legal aspects of submission of the Bids.
- v. The bidder is responsible for the technological solutions included in their technical bids, and Chandaka Wildlife Division will not be liable for any legal difficulties or claims made against the technical solutions by any individual or company.
- vi. The Bidder shall be deemed to have satisfied itself fully before Bidding as to the correctness and sufficiency of its Bids for the contract and price quoted in the Bid to cover all obligations under this Tender.
- vii. It must be clearly understood that the Terms and Conditions and specifications are intended to be strictly enforced. No escalation of cost in the Tender by the Bidder will be permitted throughout the period of Agreement or throughout the period of completion of contract whichever is later on account of any reasons whatsoever.
- viii. The Bidder shall submit the scanned copy of bid document (in .pdf) and corrigendum (if any) as an acceptance of the bid.
- ix. All information supplied by Bidders as part of their bids in response to this Tender Document, may be treated as contractually binding on the Bidders, on successful award of the assignment by the Chandaka Wildlife Division on the basis of this Tender Document.
- x. 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 Odisha Forest Department. Any notification of preferred bidder status by Chandaka Wildlife Division shall not give rise to any enforceable rights by the Bidder. Chandaka Wildlife Division may cancel this public procurement at any time prior to a formal written contract being executed by or on behalf of Odisha Forest Department.

- xi. In the event of the specified date for the submission of Tender offers being declared a public holiday by the Government, the offers will be received up to the appointed time on the next working day. The Chandaka Wildlife Division may, at its discretion, extend this deadline for submission of offers by issuing corrigendum.
- xii. The chosen bidder must produce full designs and detailed drawings for all components of the proposed works, as well as working drawings.
- xiii. Facsimile, Email and any other unspecified media offers will be rejected.

3.2 Eligible Bidders

Only companies incorporated under the Companies Act 1956 or the Companies Act 2013.

3.3 Amendments to the Tender

- i. Before closing of the Tender, clarifications and corrigendum (if any) will be notified in the websites mentioned in the Tender Schedule. The Bidders shall periodically check for the amendments or corrigendum of information in the websites till the closing date of this Tender. Chandaka Wildlife Division will not make any individual communication and will in no way be responsible for any information missed out by the bidders.
- ii. One week after the notification of the short tender, no clarifications will be provided.
- iii. Before the closing of the Tender, Chandaka Wildlife Division may amend the Tender document as per requirements or wherever it feels that such amendments are absolutely necessary.
- iv. Amendments also may be given in response to the queries by the prospective

Bidder(s). Such amendments will be notified in the websites mentioned in the tender schedule. It is bidder responsibility to keep checking the website for any changes or clarifications or corrigendum to the tender document.

- v. Chandaka Wildlife Division at its discretion may or may not extend the due date and time for the submission of bids on account of any amendments.
- vi. Chandaka Wildlife Division is not responsible if bidder misinterprets any provision of this tender document.

3.4 Contacting Tender Inviting Authority

- i. Bidders shall not make attempts to establish unsolicited and unauthorized contact with the Tender Accepting Authority, Tender Inviting Authority or Tender Scrutiny Committee after the opening of the Tender and prior to the notification of the Award and any attempt by any Bidder to bring to bear extraneous pressures on the Tender Accepting Authority shall be sufficient reason to disqualify the Bidder.
- ii. Notwithstanding anything mentioned above, the Tender Inviting Authority or the Tender Accepting Authority may seek bona fide clarifications from Bidders relating to the tenders submitted by them during the evaluation of tenders.

3.5 Force Majeure

Neither Tender Inviting Authority nor the Successful Bidder shall be liable to the other for any delay or failure in the performance of their respective obligations except in proven (with appropriate documentary evidence) causes or contingencies beyond their reasonable control due to Force Majeure conditions such as:

- i. any act of God such as lightning, earthquake, landslide, etc or other events of natural disaster of rare severity
- ii. Meteorites or objects falling from aircraft or other aerial devices, travelling at high speeds
- iii. Fire or explosion, chemical or radioactive contamination or ionizing radiation
- iv. Epidemic, pandemic or plague
- v. Act of war (whether declared or undeclared), threat of war, invasion, armed conflict or act of foreign enemy, unexpected call up of armed forces, blockade, embargo, revolution, riot, religious strife, bombs or civil commotion, sabotage, and terrorism
- vi. Supply disruptions due to international events/circumstances

3.6 Arbitration

In case of any dispute, the matter will be referred to a sole Arbitrator to be appointed by the Odisha Forest Department.

- i. Any dispute or difference, whatsoever, arising among the parties to this agreement arising out of or in relation to this agreement shall be resolved by the Parties through mutual consultation, in good faith and using their best endeavors. To this end, the parties agree to provide frank, candid and timely disclosure of all relevant facts, information and documents to facilitate discussions between them/their representatives or officers;
- ii. 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 a sole Arbitrator to be mutually agreed upon.
- iii. If the Arbitrator so appointed dies, resigns, incapacitated or withdraws for any reason from the proceedings, another Arbitrator shall be appointed in the same manner. 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 precede de novo.
- iv. 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.
- v. 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.
- vi. The Arbitral Tribunal shall give reasoned award and the same shall be final, conclusive and binding on the parties.
- vii. The venue of the arbitration shall be decided by the Odisha Forest Department.

- viii. The 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 the Arbitration and Conciliation Act 1996 and any statutory modifications or re-enactment in lieu thereof shall apply to the arbitration proceedings under this clause.

4 Minimum Eligibility Criteria (MEC) and Technical Evaluation System (TES)

The Bidders should have the following MEC for participating in the Tender and will be evaluated on the following TES. The Bidder can also be a 'Bidding Consortium'.

4.1 Minimum Eligibility Criteria (MEC)

- A. The Bidders should have the following Eligibility for participating in the Tender. The Bidders should enclose documentary evidence for fulfilling the Eligibility. If a Bidder fails to enclose the documentary proof for eligibility, their bid will be summarily rejected. The bidder shall meet the following requirements:
- B. (i) The bidder should have experience of at least 5 years in this field and has successfully executed at least two such projects in protected areas.
- C. (ii) The bidder should have done a similar contract of at least Rs. 5.0 Crores for any State or Central Government, preferably, in the forest sector.
- D. (iii) The bidder company should have experience of similar project in India and should have successfully completed the project, to the satisfaction of concerned agency & should be running efficiently. Completion means the project should be in Annual Maintenance Contract either with the bidder or any other agency.
- E. (iv) The average annual turnover of the bidder company should be more than Rs. 1 Crore for last three years including present financial year with positive net worth.
- F. (v) Bidder shall furnish PAN, GST Registration no. along with the IEC Code number.
- G. (vi) Bidder should have ISO certification for Quality i.e. ISO 9001:2015.
- H. (vii) Firms black listed by Government of Odisha are barred from participating in this tender.
- I. (viii) Bidder should comply declaration in relation with directions issued by Ministry of Finance, Department of Expenditure, Public Procurement Division

issued on 23rd July 2020

<https://doe.gov.in/sites/default/files/OM%20dated%2023.07.2020.pdf>).

- J. (ix) Bidder solution should not violate any existing IP or Patent, in such cases written authorization/consent letter should be enclosed as a part of eligibility if applicable.

B. The documentary evidence for meeting the eligibility criteria must mandatorily be submitted along with offer.

Only those bidders who have submitted required documents (*Minimum Eligibility Criteria*) and who meet the Minimum Eligibility Criteria as mentioned above and as determined by the Tender Scrutiny Committee (TSC) shall be considered for further technical evaluation.

4.2 Technical Evaluation System (TES)

The Bidders should enclose documentary evidence for fulfilling the following Technical Evaluation Criteria. The Tender Scrutiny Committee (TSC) will evaluate the bids as per the below criteria. Bidders qualifying for TES need to make a presentation for clause 3.3.4.

Clause	Criteria/Sub-Criteria	Marking Systems	Maximum Marks
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<p>3.3.1</p>	<p>Bidder Turnover</p> <p>Average turnover in last five financial years (FY 2017-2018, FY 2018-2019, FY 2019-2020, FY 2020-2021, FY 2021-2022) for a Single bidder / Primary Partner of Bidding Consortium</p> <p>Supporting Document to be provided:</p> <p>Extracts from the audited Balance sheet and Profit & Loss statement.</p> <p style="text-align: center;">--OR--</p> <p>Certificate from CA (With CA's Registration Number/ Seal)</p> <p>For current year, provisional statements are acceptable</p>	<p>Between INR 1 Cr to INR 2 Cr : 8 marks</p> <p>Greater than INR 2 Cr : 10 marks</p>	<p style="text-align: center;">10</p>
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Clause	Criteria/Sub-Criteria	Marking Systems	Maximum Marks
3.3.2	<p>Technology Leadership Team</p> <p><u>Team Leader</u></p> <p>i. B. Tech / B.E or equivalent degree in Computer Science / IT / Any other Engineering discipline is desirable.</p> <p>ii. Project Management Certification (PMP/Prince 2 / Six Sigma / ITIL / Agile) is desirable</p> <p>Supporting Documents to be provided - along with Annexure 3</p>	<p>Experience of executing Artificial Intelligence based surveillance projects in wildlife. (Work orders/POs)</p> <p>1 project: 8 marks</p> <p>2 or more projects: 10 marks</p> <p>(Maximum Marks: 10)</p>	10
3.3.3	<p>Team Members</p> <p>i. B. Tech / B.E or equivalent degree in Computer Science / IT / any other Engineering discipline is desirable.</p> <p>ii. overall experience of at least one year in Artificial Intelligence and implementation is desirable</p> <p>Supporting documents to be provided: along with annexure 3</p>	<p>AI expertise of team members in AI-based design and AI-based project implementation.</p> <ul style="list-style-type: none"> • 1 to 3 members – 1 Mark • 3 to 5 members – 3 marks • more than 5 members – 5 marks <p>Qualitative assessment would be out of submitted resumes based on the above parameters for their suitability for proposed role.</p> <p>(Maximum Marks: 5)</p>	5
3.3.4	<p>Technical Presentation</p> <p>Approach to the solution in the field demonstration for</p> <ul style="list-style-type: none"> • Understanding of project requirements • Necessary 	<p>Marks will be awarded out of 100</p> <p>A detailed technical presentation is to be made covering the following with a total of 45 marks allocated to it:</p> <ol style="list-style-type: none"> 1. Deployment plan with details of operation & maintenance – 10 marks 2. System Architecture that covers Capacity to hand hold the Forest 	100

Clause	Criteria/Sub-Criteria	Marking Systems	Maximum Marks
	<p>implementation strategy and resources required</p> <ul style="list-style-type: none"> • Proposed Solution and Technical Architecture 	<p>Department, data security, data privacy, and scalability – 5 marks</p> <p>3. Software topology – 5 marks</p> <p>4. Software modules – 5 marks</p> <p>5. Surveillance plan – 5 marks</p> <p>6. AI application details– 15 marks</p> <p>7. Live feed management – 2 marks</p> <p>8. Alert management and dissemination – 3 marks</p> <p>9. Command and control – 3 marks</p> <p>10. Hardware specs of the camera system (proven capability) with all safety and international quality standards & compliances – 15 marks</p> <ul style="list-style-type: none"> • 5 + years of product (Project related to wildlife surveillance and monitoring) existence (15 marks) • 5 to 3 years of product (Project related to wildlife surveillance and monitoring) existence (10 marks) • 3 to 1 years of product (Project related to wildlife surveillance and monitoring) existence (5marks) • Less than 1 year – 2 mark 	
Total Marks			100

The bidder shall be required to get at least 70 marks out of 100 marks to qualify for next stage i.e. opening of the financial bids.

4.3 Valuation of technical proposal:

TSC will evaluate whether all the points/ requirements mentioned in the TENDER DOCUMENT are understood and addressed well. TSC will also evaluate whether the implementation methodology is in line with the requirement. The bidder must make a technical presentation and live demonstration of projects as per clause 3.3.4 to the TSC.

To declare a bidder as technically qualified, the bidder has to score a minimum of 70 marks based on the above said clause 3.3 (TES) and the financial bids of only those bidders who score 70 or above in the TES shall be opened.

4.4 Final Evaluation of Bid

The Final Evaluation will be done on Quality-cum-Cost-Based-System (QCBS) with the weightage of Technical & Price Bid score in the ratio 70:30. The final evaluation shall be done as described below,

The marks scored in Technical Bid will be evaluated as follows:

$$T_N = T_B / T_{MAX} * 100$$

T_N = Normalized technical score of the bidder under consideration

T_B = Evaluated technical score for the bidder under consideration

T_{MAX} = Maximum technical score for any bidder

For Technically Qualified Bidders, the Financial scores will be calculated as

$$F_N = F_{MIN} / F_B * 100$$

Where,

F_N = Normalized financial score of the bidder under consideration

F_B = Evaluated cost for the bidder under consideration

F_{MIN} = Minimum evaluated cost for any bidder

Both the Technical Bid mark & Price Bid mark will be added to arrive at the total mark as follows:

$$B_N = 0.7 * T_N + 0.3 * F_N$$

Where,

- B_N = overall score of bidder under consideration
- T_N = Normalized technical score for the bidder under consideration
- F_N = Normalized financial score of the bidder under consideration

The total mark will be arranged in the descending order. The Highest scorer (H1) will be declared as the Successful Bidder

5 Bid Preparation and Submission

5.1 Cost of Bid

The Bidder should bear all costs associated with the preparation and submission of Bids. Chandaka Wildlife Division will in no way be responsible or liable for these charges/costs incurred regardless of the conduct or outcome of the bidding process.

5.2 Earnest Money Deposit (EMD)

- i. An EMD amount as specified in the Tender Schedule should be paid in the form of Demand Draft/Fixed Deposit Receipt/Bank Guarantee from any Nationalised Bank drawn/pledged in favour of the DFO, Chandaka Wildlife Division payable at Bhubaneswar, Odisha.
- ii. The EMD of the unsuccessful Bidders will be refunded within a reasonable time consistent with the rules and regulation in this behalf
- vii. The EMD amount held by CHANDAKA WILDLIFE DIVISION till it is refunded to the unsuccessful Bidders and will not earn any Interest thereof.
- viii. The EMD amount of the Successful Bidder shall be converted as part of the Security Deposit (SD) except Demand Draft for successful execution of the work and will be returned only after the successful fulfilment of the Contract.
- ix. The EMD amount will be forfeited by ODISHA FOREST DEPARTMENT, if the Bidder withdraws the bid during the period of its validity specified in the tender or if the Successful Bidder fails to

sign the contract or the Successful Bidder fails to remit Security Deposit within the due date.

5.3 Letter of Authorization

A letter of authorization from the Board of Directors / appropriate authority authorizing the Tender submitting authority or a Power of Attorney as given in the annexure 7 should be submitted in the tender; otherwise, the Bids will be summarily rejected.

5.4 Two Part Bidding

Bidders should go through all Instructions, Terms and Conditions and Technical specifications given in the Tender Document. Failure to furnish information required in the Bid document or submission of a Bid not substantially responsive in every respect will be at the Bidders risk and may result in rejection of Bids. Bidders should strictly submit the Bid as specified in the Tender, failing which the bids will be non-responsive and will be rejected.

4.4.1 Technical Bid

The first part of the bid is called technical bid and it requires submission of the following documents

1. A Letter of Undertaking on company's letter head.
2. Copy of supporting documents for MEC (cl. 3.2) & TES (cl 3.3) have to be submitted. The MEC and technical bid documents should be submitted in two separate, tied / stitched bundles.
3. The MEC and technical bid shall be furnished in the format specified in the TENDER DOCUMENT.

4.4.2 Financial Bid (Price Bid Form)

Second part of the bid is called the Price Bid which should be submitted in the Bill of Quotation (BOQ) given in the tender document.

1. The rate quoted by the Bidder should include of Manpower, Materials, Software Development, Pilot Run, Go-Live of the surveillance system and related applications.
2. Supervision, Training, Administration, Overheads, Travel, Lodging, Boarding, In-station & Outstation expenses, etc., and any other cost involved

in the successful implementation of Scope of Work mentioned will not be borne by CHANDAKA WILDLIFE DIVISION while implementation. The price bid shall be furnished in the format specified in the TENDER DOCUMENT.

3. Total Bid price (contract price) is the summation of the rates quoted for line items R1, R2, R3, ,... RN1, RN2... including GST. Successful bidder will be determined based on this total bid price and applying QCBS formula as per cl.3.5 of TENDER DOCUMENT.
4. A free warranty period for 12 months should be included after the go-live of the project (surveillance system), for Infrastructure and each implemented application.
5. Bill of Quotation (BOQ) should not contain any conditional offers or variation in clause; otherwise the Bids will be summarily rejected.
6. The Prices quoted shall be only in INDIAN RUPEES (INR) only.
7. The cost quoted by the Bidder shall be kept firm for a period specified in the Tender from the date of opening of the tender. The Bidder should keep the Price firm during the period of Contract including during the period of extension of time (if any). Escalation of cost will not be permitted during the said periods or during any period while providing services whether extended or not for reasons other than increase of duties / taxes payable to the Governments in India. The Bidders should particularly take note of this factor before submitting the bids.

5.5 Bid closing date and time

The Bids should be submitted not later than the date and time specified in the Tender Schedule or Corrigendum (if any). Bid cannot be submitted after closing date and time. Hence the Bidders should submit the Bids well in advance to avoid disappointments.

5.6 Submission of Bids

Tender documents can be downloaded from the following websites i.e., portal

<<https://www.khordha.nic.in> / <https://www.odishaforest.in> / www.wildlifeodisha.in / www.chandakawildlife.in> Bidder should read all the terms and conditions.

Content of bid as per clause 4.1 should be submitted in hard copy to the following address < Divisional Forest Officer, Chandaka Wildlife Division ,Gajovihar,Baramunda,Bhubaneswar-751003 >

5.7 Modification and withdrawal of Bids

The Bids once submitted cannot be modified or amended or withdrawn. No documents can be added or modified after submission of Bids.

5.8 Tender Fee

TENDER can be downloaded from the following websites

<https://www.khordha.nic.in/> / <https://www.odishaforest.in/>
www.wildlifeodisha.in / www.chandakawildlife.in

- iii. Tender fee of Rs. 10,000 (Rupees Ten thousand only) shall be paid at the time of submission of bid. The Tender fee shall be non-refundable. The fee should be paid in the mode of Demand Draft in favour of DFO, Chandaka Wildlife Division payable at Bhubaneswar, Odisha.

Without the payment of Bid Submission fee, the bids will be taken as incomplete and non-responsive and shall not be considered. The DD should be submitted along with the Minimum Eligibility Criteria Documents

5.9 Earnest Money Deposit (EMD)

iv. EMD of Rs. 4,20,000 (Rupees Four Lakh Twenty Thousand) Only can be in the form of FDR / DD and must be pledged in favour of DFO, Chandaka Wildlife Division payable at Bhubaneswar, Odisha from any Nationalized bank. The FDR/DD should be submitted along with the Minimum Eligibility Criteria Documents

4.9.1 For Unsuccessful bidders:

The EMD of all unsuccessful bidder(s) would be refunded without interest by Chandaka Wildlife Division on finalization of the bid in all respects by the successful bidder.

4.9.2 For Successful bidder:

The EMD of Rs 4,20,000 (2% of the tender cost) shall be deposited by the successful bidder in shape of FDR/DD pledged in favour of DFO, Chandaka Wildlife Division payable at Bhubaneswar, Odisha from any Nationalized bank.

The above-mentioned EMD will be returned after one year of completion of work.. In case bid is submitted without the EMD then DFO ,Chandaka Wildlife Division will reject the bid without providing opportunity for any further correspondence to the bidder concerned.

4.9.3 The EMD may be forfeited in any of the following circumstances:

The EMD shall be forfeited by the tendering authority(DFO Chandaka WL Division) under the following conditions:

- i. If a Bidder withdraws or modifies its Proposal during the Proposal validity period.
- ii. If a Bidder is disqualified in accordance with DTCN
- iii. If the Bidder tries to influence the evaluation process or engages in corrupt, fraudulent, coercive, or undesirable practice or restrictive practice as set out in Clause 3.

If a Bidder is declared the first ranking Bidder and it:

- i. Withdraws its Proposal during negotiations. However, failure to arrive at a consensus between the tenderer and the first ranked Bidder shall not be construed as withdrawal of proposal by the first ranked Bidder;
- ii. Fails to furnish the Performance Security
- iii. Fails to sign and return, as acknowledgement, the duplicate copy of the letter of award;
- iv. Fails to fulfil any other condition precedent to the execution of the Contract, as specified in the letter of award; or fails to execute the Contract.

5.10 Bid Validity Period

- i. Bid shall remain valid for the time period mentioned in the Work Order.
- ii. The bidder shall be required to extend the bid validity period, if requested by client to do so. Accordingly, the bid security shall also be extended by the bidder for such period.
- iii. The request and the responses to the request shall be made in writing.

5.11 Content of Bid

The Three sets of documents (each enveloped separately and packed in a master envelope) are required to be submitted for evaluation. The sets will comprise of:

Document Set per envelope- packed in one master envelope	Name of Document	Content
One	a. Basic and Minimum Eligibility Criteria documents	<ul style="list-style-type: none"> a. TENDER Document Fee receipt b. Earnest Money Deposit (EMD) receipt c. Minimum Eligibility Criteria Covering letter d. Consortium Agreement (in case of consortium bidder) e. Copy of Certification of Incorporation/Registration Certificate f. PAN Card g. GST Registration h. Income tax return for last two years. i. Details of annual turnover with documentary evidence. j. Details of net worth with documentary evidence. k. Relevant ISO certification l. As per format provided in Annexure 2 m. Documentary evidence as per format provided in Annexure 7 and 8 n. Citation details of projects as per format in Annexure 3 as applicable. o. No Deviation Certificate as per Annexure 2 p. Total Responsibility declaration as per Annexure 2
Two	a. Technical Bid	a. Technical bid as per Annexure 3 along with the required supporting documents.
Three	a. Financial Bid	a. Price quote for each of the items as per Annexure 4

Please note that Prices should NOT be indicated in the Technical Bid but should only be indicated in the Financial Bid.

All the pages of the bid must be sequentially numbered. The bid documents must contain in the beginning of the document, a list of contents with page numbers. Any deficiency in the documentation may result in the rejection of the Bid.

The original bid shall be prepared in indelible ink. It shall contain no interlineations or overwriting, except as necessary to correct errors made by the Bidder itself. Any such corrections must be initialed by the person (or persons) who sign(s) the bids.

All pages of the bid shall be initialed and stamped by the person (or persons) who sign the bid.

Chandaka Wildlife Division will not accept delivery of bid by fax or e-mail and any other unspecified media. Hard Copy submission is mandatory.

5.12 Bid Formats

4.12.1 Minimum Eligibility Criteria Format

Sl. No	Section Heading	Details
1.	Minimum Eligibility Criteria checklist	As per format provided in Annexure 2
2.	Minimum Eligibility Criteria Covering Letter	As per format provided in Annexure 2
3.	About Bidder (Company Profile)	As per format provided in Annexure 2 of this Documents
4.	Legal	<ul style="list-style-type: none"> Copy of Certification of Incorporation/Registration Certificate PAN Card GST Registration Income tax return for last two years (2020-21 & 2021-22)
5.	Annual Turnover	Details of annual turnover with documentary evidence.
6.	Net worth	Details of net worth with documentary evidence.
7.	Certification	Relevant ISO certification
8.	Bidder's experience	As per Format provided in Annexure 2
9.	Self-certificate for non-blacklisting clause	As per format provided in Annexure 2

10.	Power of Attorney	Documentary evidence as per format provided in Annexure 7 and 8
11.	Project Experience	As per format in clause 3.2.3
12.	No Deviation certificate	As per format provided in Annexure 2
13.	Total responsibility certificate	As per Annexure 2

4.12.2 Technical Bid Format

Section	Section Heading	Details
1.	Technical Bid Checklist	As per format provided in Annexure 3
2.	Technical Bid Covering Letter	As per format provided in Annexure 3
3.	Bidder's Financial turn over (for last five years)	As per format provided in Annexure 3
4.	Solution proposed	Details as required in Technical Criteria Annexure 3
5.	Project/credential Summary	As per format provided in Annexure 3
6.	Technology/ Leadership team a. Team Leader b. Team Members	As per format provided in Annexure 3
7.	Project Plan and Resources	<ul style="list-style-type: none"> • Project plan as per format provided in Annexure 3 • Manpower Plan as per format provided in Annexure 3 • Summary of resources as per format provided in Annexure 3 • CV of Team leader/ team members as per format provided in Annexure 3
8.	Manufacturers'/ Producers' Authorization Form	As per format provided in Annexure 3
9.	Anti- Collusion certificate	As per format provided in Annexure 3
10.	Non-disclosure agreement	As per format provided in Annexure 6

4.12.3 Financial Bid Format

The Bidder must submit the Financial Bid in the formats specified in Annexure 4

S No.	Section Heading	Details
1.	Total Price Summary	As per format provided in Annexure 4

5.13 Language

The bid should be prepared and submitted by the bidders in English language only. If any submitted supporting documents are in any language other than English, translation of the same in English language is to be provided (duly attested) by the Bidders. For purposes of interpretation of the documents, the English translation shall govern.

5.14 Authentication of Bids

An authorized representative (or representatives) of the Bidder shall initial all pages of the Minimum Eligibility Criteria Qualification, Technical and Financial Bids.

Bid should be accompanied by an authorization in the name of the signatory (or signatories) of the Bid. The authorization shall be in the form of a written power of attorney accompanying the Bid or in any other form demonstrating that the representative has been duly authorized to sign.

5.15 Amendment of Request for Proposal

At any time prior to the due date for submission of bid, CHANDAKA WILDLIFE DIVISION may, for any reason, whether at its own initiative or in response to a clarification requested by prospective bidder(s), modify the Tender document by amendments. Such amendments shall be uploaded on the e-procurement portal, through corrigendum and shall form an integral part of Tender document. The relevant clauses of the Tender document shall be treated as amended accordingly.

It shall be the responsibility of the prospective bidder(s) to check the e-procurement portal given in advertisement from time to time for any amendment in the Tender document. In case of failure to get the amendments, if any, Chandaka Wildlife Division shall not be responsible.

In order to allow prospective bidders a reasonable time to take the amendment into account in preparing their bids, Chandaka Wildlife Division , Bhubaneswar at its discretion, may extend the deadline for submission of bids. Such extensions shall be uploaded on website of the Chandaka Wildlife Division , Bhubaneswar.

5.16 Bid Price

Financial Bid shall be as per the format provided in Section 8. Bidders shall give the required details of all applicable taxes, duties, other levies and charges etc. in respect of direct transaction between CHANDAKA WILDLIFE DIVISION and the Bidder.

Bidders shall quote for the entire scope of contract on a “overall responsibility” basis such that the total bid price covers Bidder’s all obligations mentioned in or to be reasonably inferred from the bidding documents in respect of providing the product/services.

Prices quoted by the Bidder shall remain firm during the entire contract period and not subject to variation on any account. A bid submitted with an adjustable price quotation shall be treated as non-responsive and rejected. However, it should be noted that the price quotes should be inclusive of tax components. The quoted price must have a break up of applicable tax rates.

Note: Online Bid price shall include of all excise, GST, levy cess, taxes etc (Central and State). A separate breakup sheet shall be provided.

5.17 Deviations and Exclusions

Bids shall be submitted strictly in accordance with the requirements and terms & conditions of the TENDER. The Bidder shall submit a No Deviation Certificate as per the format mentioned in Annexure 2 The bids with deviation(s) to the clauses / outlined scope mentioned in the TENDER are liable for rejection.

5.18 Total Responsibility

Bidder should issue a statement undertaking total responsibility for the defect free operation with effective SLAs of the proposed solution as per the format mentioned in Form 1

5.19 Late Bids

- i. Late submission will not be entertained.
- ii. The bids submitted by telex/telegram/fax/e-mail etc. shall not be considered.
No correspondence will be entertained on this matter.
- iii. Chandaka Wildlife Division shall not be responsible for any non-receipt/non-delivery of the documents due to technical snag whatsoever at Bidder's end. No further correspondence on the subject will be entertained.
- iv. Chandaka Wildlife Division reserves the right to modify and amend any of the above-stipulated condition/criterion.

5.20 Right to Terminate the Process

Chandaka Wildlife Division may terminate the TENDER process at any time and without assigning any reason. CHANDAKA WILDLIFE DIVISION makes no commitments, express or implied, that this process will result in a business transaction with anyone.

A bid may be construed as a non-conforming bid and ineligible for consideration:

- i. If it does not comply with the requirements of this TENDER.
- ii. If a bid does not follow the format requested in this TENDER or does not appear to address the particular requirements of the solution.

5.21 Acceptance/Rejection of Bids

- i. CHANDAKA WILDLIFE DIVISION reserves the right to reject in full or part, any or all bids without assigning any reason thereof. CHANDAKA WILDLIFE DIVISION reserves the right to assess the Bidder's capabilities and capacity. The decision of tenderer shall be final and binding.
- ii. Bid should be free of over writing. All erasures, correction or addition must be clearly written both in words and figures and attested.
- iii. In the event of any assumptions, presumptions, key points of discussion, recommendation or any points of similar nature submitted along with the Bid, tendering authority reserves the right to reject the Bid and forfeit the EMD.
- iv. If there is any discrepancy in the Financial bid, it will be dealt as per the following:
 - a. If, in the price structure quoted for the required goods/services/works, there is discrepancy between the unit price and total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly.
 - b. If there is an error in a total corresponding to the addition or subtraction of

subtotals, the subtotals shall prevail, and the total shall be corrected.

- c. If there is a discrepancy between words and figures, the amount in words shall prevail.
- d. If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date up to which the bidder has to send his explanations. On the above lines CHANDAKA WILDLIFE DIVISION reserves the right to take appropriate decision which needs to be agreed by the bidder. If the bidder does not agree to the decision of ODISHA FOREST DEPARTMENT, the bid is liable to be disqualified.

5.22 Confidentiality

All the material/information shared with the Bidder during the course of this procurement process as well as the subsequent resulting engagement following this process with the successful bidder, shall be treated as confidential and should not be disclosed in any manner to any unauthorized person under any circumstances. The employees of the successful Primary partner and Consortium members who are proposed to be deployed on the project need to furnish a Non-Disclosure Agreement (NDA) as per TENDER Volume III.

5.23 Disqualification

The bid is liable to be disqualified/ a proper explanation can be called in the following cases or in case bidder fails to meet the bidding requirements as indicated in this TENDER:

- a. During validity of the bid, or its extended period, if any, the bidder increases its quoted prices
- b. The bidder's bid is conditional and has deviations from the terms and conditions of TENDER
- c. Bid is received in incomplete form
- d. Bid is not accompanied by all the requisite documents
- e. Information submitted in technical bid is found to be misrepresented, incorrect or false, accidentally, unwittingly or otherwise, at any time during the processing of the contract (no matter at what stage) or during the tenure of the contract including the extension period if any.
- f. Financial bid is enclosed with the same document as technical bid.
- g. Bidder tries to influence the bid evaluation process by unlawful/corrupt/fraudulent

means at any point of time during the bid process

- h. In case any one party submits multiple bids or if common interests are found in two or more bidders, the bidders are likely to be disqualified, unless additional bids/bidders are withdrawn upon notice immediately
- i. If any of the consortium member is also a partner in any other bid, then all the affected bids shall be disqualified.

5.24 Key Personnel

The tendering Authority has identified certain key positions and minimum qualifications for each of the positions that should be part of project team of the bidder (hereby referred to as “key personnel”).

5.25 Initial Composition; Full Time Obligation; Continuity of Personnel

Bidder shall ensure that each member of the Key Personnel devotes substantial working time as per the staffing schedule/ manpower plan to perform the services to which that person has been assigned as per the bid.

Bidder shall not make any changes to the composition of the Key Personnel and not require or request any member of the Key Personnel to cease or reduce his or her involvement in the provision of the Services during the defined term of the engagement unless that person resigns, is terminated for cause, is long-term disabled, is on permitted mandatory leave under Applicable Law or retires. In any such case, the ODISHA FOREST DEPARTMENT’s prior written consent would be mandatory.

5.26 Evaluations

Bidder shall carry out an evaluation of the performance of each member of the Key Personnel in connection with the Services at least once in each Contract Year. Bidder shall provide reasonable written notice to Chandaka Wildlife Division of the date of each evaluation of each member of the Key Personnel. Chandaka Wildlife Division shall be entitled to provide inputs to the bidder for each such evaluation. Bidder shall promptly provide the results of each evaluation to DFO, Chandaka Wildlife Division, subject to Applicable Law.

5.27 Replacement

In case any proposed resource resigns, then the Bidder has to inform Chandaka Wildlife Division within one week of such resignation.

Bidder shall promptly initiate a search for a replacement to ensure that the role of

any member of the Key Personnel is not vacant at any point in time during the contract period, subject to reasonable extensions requested by Bidder to DFO, Chandaka WL Division

Before assigning any replacement member of the Key Personnel to the provision of the Services, Bidder shall provide Chandaka Wildlife Division with:

- a. A resume, curriculum vitae and any other information about the candidate that is reasonably requested by tenderer; and
- b. An opportunity to interview the candidate.

The bidder has to provide replacement resource of equal or better qualification and experience as per the requirements of this TENDER.

If Chandaka Wildlife Division objects to the appointment, Bidder shall not assign the individual to that position and shall seek an alternative candidate in accordance with the resource requirements of this TENDER.

The bidder needs to ensure at least 4 weeks of overlap period in such replacements. Chandaka Wildlife Division will not be responsible for any knowledge transition to thereplacement resource and any impact/escalation of cost incurred by the bidder due to resource replacement.

5.28 High Attrition

System Integrator(SI) shall ensure that none of the Key Personnel (refer Section 3.6.1 of the TENDER DOCUMENT) and manpower exit from the project during first 6 months of the beginning of the project. In such cases of exit MSI need to provide replacement within 7 days (Qualification Mentioned in TENDER DOCUMENT section 3.6.1 / Corrigendum), except for medical reason/death a penalty of INR 2 lakhs per such replacement shall be imposed on SI.

Bidder shall:

- a. Provide DFO, Chandaka Wildlife Division with a reasonably detailed explanation as to the reasons for such change, including, where applicable and permitted, notes from any exit interviews conducted by Bidder with any departing member of the Key Personnel; and
- b. If such change to Key Personnel has or is likely to have any material adverse impact on the provision of the Services or any substantial part thereof, undertake, at its own costs, such remediation acts as are reasonably necessary in order to improve the retention of the Key Personnel including

making reasonable changes to the human resources policies and procedures applicable to the Key Personnel (including those related to compensation, benefits and other conditions so that they are competitive with the market) as may be necessary to ensure that such policies and procedures comply With Good Industry Practice.

5.29 Fraud and Corrupt Practices

The Bidders and their respective officers, employees, agents and advisers shall observe the highest standard of ethics during the Selection Process. Notwithstanding anything to the contrary contained in this TENDER, DFO, Chandaka Wildlife Division shall reject a Bid without being liable in any manner whatsoever to the Bidder, if it determines that the Bidder has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice (collectively the “Prohibited Practices”) in the Selection Process. In such an event, CHANDAKA WILDLIFE DIVISION shall, without prejudice to its any other rights or remedies, forfeit and appropriate the EMD or SD, as the case may be, as mutually agreed genuine pre-estimated compensation and damages payable to CHANDAKA WILDLIFE DIVISION for, inter alia, time, cost and effort of tenderer in regard to the TENDER, including consideration and evaluation of such Bidder’s Bid.

Without prejudice to the rights of DFO, CHANDAKA WILDLIFE DIVISION under Clause above and the rights and remedies which CHANDAKA WILDLIFE DIVISION may have under the LOI or the Agreement, if a Bidder is found by CHANDAKA WILDLIFE DIVISION to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice during the Selection Process, or after the issue of the LOI or the execution of the Agreement, such Bidder shall not be eligible to participate in any TENDER issued by CHANDAKA WILDLIFE DIVISION during a period of 3 years from the date such Bidder is found by CHANDAKA WILDLIFE DIVISION to have directly or through an agent, engaged or indulged in any Prohibited Practices.

For the purposes of this Section, the following terms shall have the meaning hereinafter respectively assigned to them:

- a. “corrupt practice” means
 - (i) the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of any person connected with

the Selection Process (for avoidance of doubt, offering of employment to or employing or engaging in any manner whatsoever, directly or indirectly, any official of CHANDAKA WILDLIFE DIVISION who is or has been associated in any manner, directly or indirectly with the Selection Process or the LOI or has dealt with matters concerning the Agreement or arising there from, before or after the execution thereof, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of ODISHA FOREST DEPARTMENT, shall be deemed to constitute influencing the actions of a person connected with the Selection Process); or

- (ii) save as provided herein, engaging in any manner whatsoever, whether during the Selection Process or after the issue of the Letter of Agreement (LOA) or after the execution of the Agreement, as the case may be, any person in respect of any matter relating to the Project or the Award or the Agreement, who at any time has been or is a legal, financial or technical consultant/adviser of CHANDAKA WILDLIFE DIVISION in relation to any matter concerning the Project;
- b. “fraudulent practice” means a misrepresentation or omission of facts or disclosure of incomplete facts, in order to influence the Selection Process;
- c. “coercive practice” means impairing or harming or threatening to impair or harm, directly or indirectly, any persons or property to influence any person’s participation or action in the Selection Process
- d. “undesirable practice” means (i) establishing contact with any person connected with or employed or engaged by CHANDAKA WILDLIFE DIVISION with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the Selection Process; or (ii) having a Conflict of Interest; and
- e. “restrictive practice” means forming a cartel or arriving at any understanding or arrangement among Bidders with the objective of restricting or manipulating a full and fair competition in the Selection Process.

5.30 Conflict of Interest

A bidder shall not have a conflict of interest that may affect the Selection Process or the Solution delivery (the “Conflict of Interest”). Any Bidder found to have a Conflict

of Interest shall be disqualified. In the event of disqualification, DFO, CHANDAKA WILDLIFE DIVISION shall forfeit and CHANDAKA WILDLIFE DIVISION requires that the bidder provides solutions which at all times hold government interest's paramount, avoid conflicts with other assignments or its own interests, and act without any consideration for future work. The bidder shall not accept or engage in any assignment that would be in conflict with its prior or current obligations to other clients, or that may place it in a position of not being able to carry out the assignment in the best interests of Government.

5.31 Sub-Contracting

The bidder would not be allowed to sub-contract work, except for the following:

- a. Facility Management Staff at Ground maintenance, Civil Works, Cleaning, Field Works, Survey works, Catering, Integration Works, Original Equipment Manufacturer (OEM) associated works, Vending Space management, Utilities management etc. and associated manpower.
- b. Sub-contractor will be approved by DFO, CHANDAKA WILDLIFE DIVISION basis on relevant credentials (of the sub-contractor for their scope of work) submitted. However, even if the work is sub-contracted, the sole responsibility of the work shall lie with the primary partner. The primary partner shall be held responsible for any delay/error/non-compliance etc. of its sub- contracted vendor.

5.32 Eligible Goods and Services, and Original Equipment Manufacturer (OEM) Criteria:

- i. For purposes of this Clause, the term "goods" includes commodities, raw material, machinery, equipment, and industrial plants; and "related services" include services such as insurance, transportation, supply, installation, integration, testing, commissioning, training, and initial maintenance.
- ii. The Bidder shall quote only one specific make and model from only one specific OEM, for each of the goods. Providing more than one option shall not be allowed. All goods quoted by the Bidder must be associated with item code and names and with printed literature describing configuration and functionality. Any deviation from the printed specifications should be clearly mentioned in the offer document by the Bidder.
- iii. The OEM for each products or technology quoted should be in the business

of that product or solution or technology for at least 3 years as on the date of Submission of the TENDER.

- iv. The OEM for each product should not be banned/ blacklisted in India because of security concerns.
- v. All the OEMs (Hardware, Software, OS etc) should have presence in India (Registered office) or through channel partners before the date of submission of bid. However, OEM of camera should be direct presence or through channel partners in India more than 3 years as on bid submission date. The MAC address of the all IP based equipment's must be registered in the name of quoted OEM Brand.
- vi. The OEM for all active components should give a declaration that products or technology quoted are neither end-of-sale nor end-of-life till 30 months from the date of bidding and are not end-of-support till 5 years from the due date of bidding.
- vii. The OEM of each product or technology should have quality certifications like ISO 9001:2015 / ISO 27001 and/ or ISO 14001 or equivalent where ever applicable.
- viii. The bidder's proposed OEM should not have been blacklisted by anyState / Central Government Department or Central /State PSUs.
- ix. Though the prime responsibility of providing 24x7x365 support for overall project is of MSI. However, in order to ensure the seamless support each of the proposed OEMs should either have existing capability and infrastructure to provide 24x7x365 technical support in India, or should provide an undertaking that they would establish the requisite infrastructure and capability to provide 24x7x365 technical support in India within 60 days from the date of signing of the contract of their successful MSI and proof of establishment should be provided after establishing the same.
- x. The Goods and Services to be supplied, installed and/or performed by the Bidder conform to the TENDER requirements.
- xi. Adequate supporting documents pertaining to the above points, along with a summary compliance table, should be submitted in the technical proposal by the Bidder.
- xii. Integrated Command Control Center (ICCC) Software licenses MUST not be

based on count of edge devices such as cameras, sensors, zones etc. It MUST support unlimited number of edge devices if they are integrated. This is to prove that the CCC is scalable for future expansion without being dependent on additional cost / license per edge device.

- xiii. ICCO Operator Terminal Application must be a 'thick Client' based on Client - Server architecture.
- xiv. ICCO OEM should be absolutely agnostic to any third party system and is not biased towards its own company products.
- xv. ICCO application must have latest inbuilt Video Drivers to play live and recorded video feeds from multiple video management systems.

5.33 Right to vary quantity

- i. At the time of award of contract or within one year, the quantity of goods, works or services originally specified in the bidding documents may be 25% increased or decreased by ODISHA FOREST DEPARTMENT. It shall be without any change in the unit prices or other terms and conditions of the Bid and the bidding documents.
- ii. If the DFO, CHANDAKA WILDLIFE DIVISION does not procure any subject matter of procurement or procures less than the quantity specified in the bidding documents due to change in circumstances, the bidder shall not be entitled for any claim or compensation except otherwise provided in the bidding document.
- iii. Repeat orders for extra items or additional quantities may be placed, if it is provided in the bidding document, on the rates and conditions given in the contract if the original order was given after inviting open competitive bids. Delivery or completion period may also be proportionally increased.

5.34 Withdrawal, Substitution, and Modification of Bids

- i. No bid may be withdrawn, substituted, or modified in the interval between the bid submission deadline and the expiration of the bid validity period specified by the Bidder in the Bid Submission Form, or any extension thereof agreed to by the Bidder. Withdrawal of a bid during this interval may result in the forfeiture of the EMD/Bid Security. This clause will be applicable till award of tender to successful bidder.
- ii. Any alteration/ modification in the Application or additional information

supplied subsequent to the Application Due Date, unless the same has been expressly sought for by the Authority, shall be disregarded.

- iii. Bids withdrawn shall not be opened and processed further.

5.35 Site Visit

- i. The Bidder may wish to visit and examine the site or sites and obtain for itself, at its own responsibility and risk, all information that may be necessary for preparing the bid and entering into the Contract. The costs of visiting the site or sites shall be at the Bidder's own expense.
- ii. It is strongly recommended that bidders may conduct their site surveys as per the requirement of TENDER wherever necessary, prior to the proposal submission.
- iii. No site visits shall be arranged or scheduled after the deadline mentioned in the tender document.

5.36 The site is located inside the Reserved forest area, and hence prior intimation for site visit should be given to < DFO, CHANDAKA WL DIVISION >

5.37 Technical field evaluation

Only those Bids which fulfil Part – I and Part – II will be taken up for Part –III evaluation and presentation.

5.38 Negotiations

The Chandaka Wildlife Division reserves the right to negotiate with the successful Bidder as below:

- i) On enhancing the Approach and Methodology, Bill of Material, Technical Solution, Service level, Timeline, Delivery quality, deployment model etc., on a pro rata basis.

- ii) No changes, amendments which materially alter the tendered prices shall be permitted after the opening of the tender, except as per the procedure prescribed by the department.

6 General Terms and Conditions

6.1 Acceptance/withdrawal of Tender

- a) The final acceptance of the tender is entirely vested with the Tender Accepting Authority, who reserves the right to accept or reject any or all of the tenders in full or in parts without assigning any reasons whatsoever.
- b) Tender Inviting Authority reserves the right to not to accept lowest price, to reject any or all the tenders without assigning any reasons, to relax or waive any of the conditions stipulated in the terms and conditions of tender as deemed necessary in the best interests of the Tender Inviting Authority for good and sufficient reasons.
- c) The Tender Accepting Authority may also reject all the tenders for reasons such as change in Scope, Specification, lack of anticipated financial resources, court orders, Force majeure conditions or any other unforeseen circumstances.
- d) After acceptance of the Tender by Tender Inviting Authority, the Successful Bidder shall have no right to withdraw his tender or claim higher price.

6.2 Rejection of Tender of banned Tenderer

As per the by laws, if at any time before the acceptance of tender, the Tender Accepting Authority receives information that a tenderer who has submitted the tender has been banned by any procuring entity, the Tender Accepting Authority shall not accept the tender of that tenderer even if it may be the lowest priced tender.

6.3 Security Deposit (SD) and Performance Guarantee

- a. The Successful Bidder is required to remit a Security Deposit (SD) equivalent to 5% (Five percent) on the value of the order with the validity of two years as a

Guarantee of the bidder's performance of the contract within 15 days on receipt of the Provisional order and the bidder has to extend the validity of the SD up to the warranty period/ or as when required.

- b. It should be in the form of unconditional irrevocable Bank Guarantee / Demand Draft and drawn in favour of the DFO, Chandaka Wildlife Division payable at Bhubaneswar, Odisha as in the model form given in this TENDER DOCUMENT from the date of acceptance of the tender, after confirmation by Tender Inviting Authority. The SD furnished by the Successful Bidder in respect of the tender will be returned to them only after the successful fulfilment of the entire contract period after deduction of the applicable penalties (if any).

6.4 Placement of purchase order

- a. After receipt of the SDs and execution of the Contract as specified in the Tender and after fulfilling the mandatory submission of the documents, the Tender Inviting Authority will release Purchase orders to the successful bidder.
- b. The duration of project implementation shall commence only on issue of Purchase order.

6.5 Forfeiture of EMD and SD

- a. If the Successful Bidder fails to act according to the tender conditions or backs out after the tender has been accepted, the EMD will be forfeited to Tender Inviting Authority.
- b. If the Successful Bidder fails to remit the SD, the EMD will be forfeited to Tender Inviting Authority and the Bid of the Successful Bidder will be held void.
- c. If the Successful Bidder has failed to sign the Contract or backs out from the contract, the SD remitted by the Successful Bidder will be forfeited to Tender Inviting Authority.

6.6 Execution of the project

The Successful bidder should nominate a Project Manager, who will be a designated authority to act as a single point of contact for all purposes related to the execution of the tender and intimate Tender Inviting Authority. The Project Manager should be responsible for the effective delivery of work as specified in the Contract

agreement. The successful bidder should ensure that the Project Manager is fully familiarized with the Tender Conditions, Scope of Work and Deliverables.

6.7 Assigning of Tender whole or in part

The Successful Bidder shall not assign or make over the contract, the benefit or burden thereof to any other person or persons or body corporate. The Successful Bidder shall not under-let or sublet to any person(s) or body corporate for the execution of the contract or any part thereof without the written consent of Tender Inviting Authority.

6.8 Liquidated Damage (LD) for non-fulfilment of contract agreement

- a. A Liquidated Damage will be levied at the rate of 0.25% per week to a maximum of 5% on the total cost of the project for non-fulfilment of implementation schedule for roll-out of this project, except when specifically waived-off by the Department.
- b. Any unreasonable delay in completing the projects may entail cancellation of contract/blacklisting of bidder.
- c. In the event of failure by the Successful Bidder to fulfill the delivery conditions, Tender Inviting Authority at its discretion may initiate any of the actions as given below.
 - i. Extension of time may be permitted to complete the work with or without penalty at the discretion of the CHANDAKA WILDLIFE DIVISION based on the merits.
 - ii. Additional resources will be requested for speeding up the work.
 - iii. Liquidated Damages will be levied.
 - iv. Contract with the Successful Bidder may be terminated as per the termination clause and cancellation of purchase order may be issued.

6.9 Penalty for non-fulfilment of conditions:

Penalty will be levied at 5% on the total value of the project or the actual loss incurred by the Department whichever is higher if the conditions stipulated in the Tender/contract agreement are not fulfilled or observed till the project is completed with satisfactory performance and handed over.

6.10 Warranty Clause

- i. All the equipment supplied to the purchaser under this tender shall be of the new, tested in laboratory, of best quality (and workmanship) and shall be strictly in accordance with the specifications and particulars contained in this tender thereof and that the said equipment will continue to conform to the description and the quality aforesaid for a period of one year from the date of handing over of the completed project. If any defects in manufacturing or technical aspects are noticed within the warranty period, the bidder is liable to replace free of cost. The bidder should make necessary precautionary measures and ensure the security of the installed infrastructures. All components of the project including all accessories shall be under comprehensive onsite warranty for one year and shall be replaced or rectified immediately on intimation.

6.11 Penalty for Break Downs

During the warranty period, the successful bidder shall attend to all breakdowns and undertake repairs as necessary for resumption of operations expeditiously.

6.12 Joint Receipt Inspection

- a. The bidder should take necessary arrangements to conduct Joint receipt Inspection of equipment at spot. CHANDAKA WILDLIFE DIVISION will depute personnel for the JRI.
- b. JRI will be jointly signed by the Bidders representatives and personnel deputed by ODISHA FOREST DEPARTMENT. On submission of successful JRI report by the team the bidder is required to carry out installation & commissioning work.
- c. During JRI, the items produced and inspected shall be the actual equipment to be supplied to the site as per make & model quoted, tender specification and site requirement to fulfil the objective and scope of work. Hence, bidder has to produce all the items in compliance with specification and as per quote.
- d. If the item produced is not as per tender quote, it will be treated as "Not Meeting Specification" and bidder has to produce relevant item for re-examination.
- e. The Bidder is also advised to carefully study the requirement and quote the relevant item for the project

6.13 Delivery & Acceptance of Materials

- a. Physical delivery of the item will not constitute supply. The completion of

Acceptance test and taking into stock will constitute supply.

- b. The materials/equipment delivered should be strictly confirmed to the specifications, before commencement of installation.
- c. The equipment and accessories shall be delivered at respective sites at the cost of the bidder.
- d. The bidder is solely responsible for safety, any demurrage charges or penalty and or variation in the price for all components in the project.

6.14 Supply of Spares

The contractor shall propose a recommended Spares list. These should be sufficient to undertake in-site replacement of critical components. The same would be a part of the deliverables at the end of the installation.

6.15 Acceptance test and Taking Over

- i. On completion of the installation, a comprehensive acceptance test shall be taken up and if found fulfilling the same shall be accepted by CHANDAKA WILDLIFE DIVISION and the supplies taken into stock. The plan of the acceptance test shall be provided by the successful bidder to the satisfaction of ODISHA FOREST DEPARTMENT. Prior approval of CHANDAKA WILDLIFE DIVISION with regard to the method of testing shall be obtained by the successful bidder.
- ii. All the required documents in original from the respective OEM may be submitted.
- iii. The manuals for the static, mobile and portable shall be supplied according to the requirements projected under specifications. The manuals shall be supplied before taking into stock of the project at technical stores.

6.16 Schedule of Payment

The Payment terms are proposed as under

- i. No advance payment will be released.
- ii. On successful reception of equipment on site, amount pertaining to the supplied equipment will be released after installation and testing at the site within 20 days of the receipt of invoice.
- iii. A sum equal to 5% of the quoted total cost of the project submitted as Security deposit/performance guarantee will be retained and shall be paid to the successful bidder after completion of the warranty period i.e after one year from date of completion of work.

6.17 Termination of Contract

5.17.1 Termination for default

- i. Tender Inviting Authority may without prejudice to any other remedy for breach of contract, by written notice of default with a notice period of 15 days, sent to the Successful Bidder, terminate the contract in whole or part, subsequently their security deposit kept in the custody of CHANDAKA WILDLIFE DIVISION will be forfeited and credited to the account of Government.
 - a. if the Successful Bidder fails to complete all of the services indicated within the time period(s) specified in the Contract, or fails to deliver the items as per the Delivery Schedule or within any extension thereof granted by Tender Inviting Authority; or
 - b. If the Successful Bidder fails to perform any of the obligations under the contract; or
 - c. If the Successful Bidder, in the judgment of Tender Inviting Authority, has engaged in fraudulent and corrupt practices in competing for or in executing the Contract.

5.17.2 Termination for Insolvency

Tender Inviting Authority may at any time terminate the Contract by giving written notice with a notice period of 15 days to the Successful Bidder, if the Successful Bidder becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Successful Bidder, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to Tender Inviting Authority.

6.18 Insurance and safety measures

Insurance if any required, for any purpose/person will be arranged by the successful bidder alone for any work/ cost against transit damages / shortages /installation up to destination and complete handing over. The safety of the workers is vested with the bidder. The bidder shall take adequate safety measures for public and worker safety in all installation sites Execution.the tenderer will not be responsible for any injury/loss of life of the workers during the period of execution of work.

- i. The project shall be executed by the successful bidder/consortium in the most approved, substantial and workman like manner to the entire satisfaction of tenderer or his nominee i.e ACF, Chandaka Wildlife Division/ RO, Bhubaneswar

Wildlife Range/any officer authorized by the tenderer who both personally and by his deputies shall have full power to inspect the equipment at the final stage of testing.

- ii. The successful bidder shall submit such reports of progress as tenderer may prescribe and mutually agreed to ensure that the time schedule is maintained.
- iii. The successful bidder shall be fully responsible for the execution of the project to the entire satisfaction of DFO, Chandaka Wildlife Division or his nominee.

6.19 Schedule for project completion

The project shall be completed within 1 months from the date of issuance of work order.

The schedule for project implementation shall be as follows:

Sl. No	Type of Work	Schedule	Sub process involved
1	Provisional Acceptance order	Issued to successful bidder on completion of the tender process	
2	Submission of Security deposit and execution of Contract Agreement	07 days on receipt of provisional order	
3	Date of Work order	On receipt of SD and signing of the contract agreement and after submission of mandatory documents, Work order will be released.	
4	Supply, Installation of complete system as per tender specification and requirement.	01 months from the date of receipt of work order	Site preparation, supply installation and configuration of the system with testing by the successful bidder.
6	Offer for Acceptance Test and Trial Run and Training	Test and trail run - 07 days after completion of installation. Training will be undertaken and completed within 07 days of completion of Acceptance Test.	
7	Taking over by the CHANDAKA WILDLIFE DIVISION and support team and entering into warranty	After successful completion of ATP fulfilling all the tender conditions, on completion of Training the entire system will be taken up by the CHANDAKA WILDLIFE DIVISION duly assisted by support team engaged by successful bidder.	

6.20 Legal Jurisdiction

i. Subject to the above, the Courts at Bhubaneswar, Odisha only shall have jurisdiction in this matter and language in English.

7 Scope of Work

Major Aspects of design and Technical Specification of equipment of the complete system including Sensor Systems, Civil works, Power and IT Distribution, cabling along with relevant Command and Control system as well as Applications needed to successfully implement a modern, Artificial Intelligence Driven, Autonomous surveillance system for Man-Animal Conflict resolution at Chandaka Wildlife Division is indicated hereunder.

A list of Field equipments, infrastructure and their indicative specifications are given in Annexure 1 and 1a. However, the bidders herewith may determine them according to their design.

Annexure I – Field Equipments

A: FIELD EQUIPMENTS			
S. No	Details of Specifications (Minimum Requirement)	Unit	Quantity
1	Thermal Network Hybrid PTZ camera with artificial intelligence of 640 × 480 resolution (minimum) which is capable of penetrating foliage on either side of the track with in the zone of interest	Nos	2
2	Self-Supporting structure /High Mast of suitable height With Suitable camera Mount on Top with flexibility to shift the camera support system for dynamic response 30 meters	Nos	2
3	5 Meter high foundation for the self supporting structure	Nos	2
4	Weatherproof Enclosure IP56 or higher on each location to house Power/Network Equipment with PDU & Other accessories	Nos	2

5	Suitable Chemical Earthing with Lighting Arrester	Nos	06 Nos of earthing,01 no lightning arrester
6	Networking Cable	Nos	305mtr
7	Hooters/Siren, Siren Lights (Blue/white) with pole or concrete elevation of 5 meter	Nos	4
8	RF Point to Point Link along with all related accessories	Set	3
9	Networking Rack	Nos	1
10	Gigabit Ethernet switch	Nos	5
11	Tables & Chairs for Control Room	Nos	Table 02 nos & Chair 06Nos (Godrej make)
12	Workstations (Dual screen) for Ops room	Nos	2
13	Command and Control and Artificial Intelligence based Software	Nos	1
14	C2 Large LED Display 55"	Nos	1

15	2 KVA (Min) UPS Online	Nos	1
16	Suitable PCUs (For Field Devices) with housing	Nos	2
17	Solar Panels of 24V	Nos	12
19	NAS Storage Server with minimum of 90 Days Storage Backups with enterprise grade surveillance hard disk of appropriate capacity	Nos	1
20	Batteries 12V Exide	Nos	8
21	Tower server	Nos	1
22	Solar Panel Mounting Structures	Nos	2 Set
23	AI Server	Nos	-
24	Support team to assist the CHANDAKA WILDLIFE DIVISION 24x7 for assessing the functioning of the Surveillance system for a period of one year after go-live/project implementation		04 nos technical person
25	Operations and Maintenance Cost per annum for 3 years after free warranty period of 12 months after Installation and commissioning (Specify the cost for 1 st , 2 nd and 3 rd year AMCs separately)		48.00 lakh

1. Other items if any required may also be included as per the design of the bidder.
2. The quantity & type of Thermal Network Hybrid PTZ cameras required, need to be determined by the bidder as per his design for the solution.
3. The entire documentary proof shall be legible & readable otherwise the document may not be considered for evaluation.
4. No content in the documentary proofs should be scored/shaded/deleted/erased otherwise the document may not be considered for evaluation.
5. No new documents (other than those mentioned in the proposal) will be accepted for evaluation after opening of the technical bid.
6. Technical Qualification Criteria: The bidder is required to submit all the required technical documents in the tender itself. Technical evaluation will be carried out only after verification of the technical documents submitted.

7. The proposed AI based surveillance system should be designed in such a way that it should have provisions and capabilities for integration with other surveillance technologies currently available at the site or in the future including drones.
8. Apart from AMC, there should be a support team for assessing the functioning of the Surveillance system for a period of one year after Go-live, till the field team gather knowledge and skill on the operation. This team will assist CHANDAKA WILDLIFE DIVISION 24x7. The CV of the supporting team members should be given separately in the format prescribed for CV in Annexure 3
9. The period of installation of the Surveillance system may be one month. Extra time may be considered by the tenderer.

Annexure I.a – Tentative Technical Specification for Important Items

Section I: Surveillance Section

1. **Tower Systems:** A Detailed design for the camera support structure is to be submitted along with the proposal. The design must necessarily encompass the following elements
 - a) Camera support structure of suitable height in multiple sections
 - b) Self-Standing support structure with capability to withstand 150 km winds
 - c) Animal Proofing the tower system to prevent animal caused damage
 - d) Mounting Arm for Camera systems on top of the tower
 - e) Provision for ducting network cables
 - f) Provision for mounting Access Point
 - g) Provision for ducting power cable

Section II: Sensor Infra Structure

Minimum Technical specifications for the following types of sensors are attached.

1. Pole mounted Day/Night Camera Systems

THERMAL MODULE SPECIFICATION			
ARRAY TYPE	<i>α-Si Microbolometer</i>	SPECTRAL BAND	<i>8 - 14μm</i>
ARRAY SIZE	<i>640 x 480</i>	PIXEL PITCH	<i>17 μm</i>
FRAME RATE	<i>≥ 30 frames / second</i>	NETD	<i>< 50 Mk (@ 25⁰ C, f/1)</i>
ELECTRONIC ZOOM	<i>8 to 14 μm</i>	CALIBRATION	<i>Temperature Based ONE POINT</i>
CONTRAST/ BRIGHTNESS	<i>Auto / Manual</i>	NOISE REDUCTION MODE	<i>ON / OFF</i>
COLOR PALETTES	<i>12 Numbers</i>	QUALIFICATIONS	<i>MIL-810F</i>
Range (small elephant)	<i>Min 700m recognition</i>	PAN- WIDE -HFOV	<i>Min 72⁰</i>
DAY MODULE			
SENSOR	<i>1/2.8-type Progressive Scan CMOS</i>	SHUTTER SPEED	<i>1/25 to 1/15000 sec</i>

SENSOR FORMAT	<i>Effective Pixel 1920X1080 (2.13 MP)</i>	DAY/NIGHT	<i>IR Cut Filter for day/night</i>
NOISE REDUCTION	<i>3D DNR</i>	DE FOG PENETRATION	<i>On/Off</i>
WIDE DYNAMIC RANGE	<i>130 Db</i>	BACK LIGHT COMPENSATI ON	<i>On/Off</i>
LENS	<i>4.3mm to 129mm</i>	AUTO-WHITE BALANCE	<i>On/Off</i>
OPTICAL ZOOM	<i>30x</i>	FRAME-RATE	<i>≥ 50 fps</i>
DIGITAL ZOOM	<i>12x</i>	VIDEO COMPRESSION	<i>Mainstream H.264/MJPEG</i>
FIELD OF REGARD	<i>Min 72⁰</i>	Range (small elephant)	<i>~ 2.5 km</i>
TARGET TRACKING FUNCTION			
MULTIPLE OBJECT DETECTIO N	<i>AI Based Object Detection and Classification Up to 4 objects</i>	MOVING OBJECT DETECTI ON	<i>Yes</i>
GENERAL			
NETWORK CONNECTIVITY	<i>Ethernet</i>	COMMUNICATION	<i>Ethernet</i>
OPERATING TEMP	<i>0 to +55⁰ C</i>	STORAGE	<i>-20⁰ to +70⁰ C</i>
ENCRYPTION	<i>SSL, AES, TLS</i>	VIDEO STREAMING	<i>Dual Stream , H-264</i>
COMPLIANCE	<i>ONVIF – Profile S</i>	ELECTRICAL POWER	<i>+12 VDC (Max 40W)</i>
DUST / WATER PROTECTION	<i>IP -66</i>	OVER ALL WEIGHT	<i>< 12 KG</i>

Section V: Command Control

The Command and Control system is to be housed in the Command Designated Command and Control Room. All necessary and infrastructure required to house the C2 system are also a part of this contract. The bidders are to ensure that the C2 system must at the minimum include the following elements and capabilities.

a. C2 Server and Applications

Hardware. A server class machine for performing functions mentioned hereunder would need to be provisioned. The Hardware specifications of the server is to cater for the software complexity of the offered solution with computational room to house additional applications in time to come. The system must also cater for a Storage device for a min of 90 days back up of event logs and designated clips.

Software Applications. The Application set that needs to be offered as a part of the solution is to include

- i. GIS Based display system
- ii. Maps and Markings depicting the site layout
- iii. Vector layers for depiction various site facilities
- iv. Video Management System
- v. Analytics applications
- vi. Data Storage System
- vii. Record and Replay system

a. AI Application Suite

The Command and Control application is to be equipped with an Artificial Intelligence based Application software. The software must process detections from all cameras installed for the project in the reserve forest. The Artificial Intelligence based application suite is to perform the following applications

- i. Target Detection (Elephants)
- ii. Target Tracking
- iii. Target Recognition
- iv. Alert Generation

AI Model and Features.

- i. CNN and Regression fused models for sparse and dense object detection.
- ii. Detect and Recognize images by highlighting bounding boxes and labels.
- iii. Movement Detection for unrecognized objects.
- iv. Multi Object detection on a Single frame.
- v. Detect overlapped objects (Trees / Canopy) and non-overlapped objects (Elephant)
- vi. Objects are visually tracked on the screen with motion filters and predictors.
- vii. Visual Geofence based alerting system.
- viii. Heat Signature motion detection and tracking.
- ix. Recognition of objects in Thermal Vision during Night time.

AI Server . Actual specifications should be determined by the vendor

S. No	Parameter	Value	
1	Rack Mount Server		
2	Processor	Type	Intel Xeon-Silver 4314
		Clock speed (GHz)	At least 2.3GHz
		Quantity	Two or more
3	Graphic Processor	Type	NVIDIA Tesla T4
		Memory	16 GB GDDR6 with 320+ GB/s
		Quantity	Two or more
4	Cores	Per processor	At least 16 for each CPU
		Per GPU	Support at least 2,560 cuda cores
		Per GPU	Support at least 320 Tensor cores

5	Memory	Slots	Minimum 32 GB (1x 32GB) RDIMM and 31 DIMM blanks
		RAM	Should provide 256 GB of RAM 8 x 32GB (1x32GB) Dual Rank x4 DDR4-3200
		Protection	Industry standard memory protection.
6	Drive	Disk Drive	Up to 4 LFF SAS/SATA HDDs or SSDs Up to 10 SFF SAS/SATA HDDs or SATA/SAS/NVMe U.2 or U.3 SDDs
		Capacity and I/O	Min 750 GB SSD drivers with Random Read IOPS (4KiB, Q=16)=575,000

			Max Random Read IOPS (4KiB)=575,000@Q16 Random Write IOPS (4KiB, Q=16)=580,000 Max Random Write IOPS (4KiB)=580,000@Q16
7	Operating System(OS)		Should support at least the following industry standard server edition ubuntu 20.04, Windows server

b. C2 Display System

The C2 Display system must be an LED TV of size 55” or above. Display Unit Min 55” LED with Back-lit display to with minimum resolution of 1920 X 1080 and a wide viewing angle of minimum 178 deg.

c. Record and Replay System

The system must be equipped with a Record Replay system. The R and R system must be capable of receiving and recording Video streams and pictures and snapshots from the Operator work station.

d. Alert Management System

An artificial intelligence-based alert management system, that autonomously generates and manages alerts is required to be provided as a part of the Command and Control system. A flasher beacon (on each track) implementation is also to be considered as a part of the solution.

e. Live Management System

The system shall be supplied with alarm and video management and video storage software.

- i. The software shall be license free or cost included in the offer.
- ii. The upgrades for the software and firmware should be free till the product support life cycle.
- iii. No extra cost shall be demanded for annual renewal

NAS Storage Server with 90 Days Storage Backups (Minimum Requirement)

Actual specifications should be determined by the vendor

System	
Main Processor	64-bit high-performance Intel processor
Controller	Single controller
Memory	4GB by default
Operating System	Embedded LINUX
User Interface	Web
Working mode	
Video Stream Mode	320-channel (640Mbps) incoming and recording, 160-channel (320Mbps) forwarding, 32-channel (64Mbps) playback Storage bandwidth ≤ 2.7 Gbps
IP SAN Mode	Write-through : 320Mbps; Write-back : 480Mbps
Storage	
HDD Amount	48 HDDs, Up to 10 TB capacity for each HDD SATA HDD composite connection
miniSAS	1 miniSAS port, for storage extension
HDD Installation	Additional HDD bracket, HDD hot-swap, HDD online replacement
HDD Mode	Single, RAID 0/1/5/6/10/50/60(Enterprise-level HDDs are recommended), JBOD, hotspare

Annexure 2 – Formats For Submission Of The Minimum Eligibility Criteria

Minimum Eligibility Criteria checklist

S. No	Checklist Items	Compliance (Yes or No)	Page No. and Section No. in bid
1.	TENDER Document fees (as Demand Draft in favor of DFO, Chandaka Wildlife Division payable at Bhubaneswar, Odisha.)		
2.	Earnest Money Deposit (to be attached)		
3.	Minimum Eligibility Criteria Covering letter as per format below		
4.	Consortium Agreement (if applicable) as per format below		
5.	About Bidder (Company Profile) as per format below		
6.	<ul style="list-style-type: none"> • Copy of Certification of Incorporation / Registration Certificate • PAN card • GST registration 		
7.	Audited financial statements for the last three financial years and Certificate from the Statutory Auditor/ CA		
8.	Declaration of non-blacklisting as per format below		
9.	Bidder's experience – Client Citation as per format below		
10.	Power of attorney a. for Authorized signatory (Annexure 7) b. for Primary partner of Consortium (Annexure 8)		
11.	Project Citations and Self-certifications, as Applicable		
12.	No Deviation Certificate as per format below		
13.	Total Responsibility Certificate as per format below		
14.	Valid ISO certification		

Minimum Eligibility Criteria Covering Letter

Date: dd/mm/yyyy

To

The Divisional Forest Officer
Chandaka Wildlife Division,
Gaja Vihar, Baramunda,
Bhubaneswar – 751003.

Subject: Request for Design, Supply, Installation and Commissioning of AI Based System for Reduction of Human-Elephant Conflict, their Protection and Monitoring in Bhubaneswar WL Range of Chandaka Wildlife Division.

Ref : TENDER No.<01/2023-24>dated<28.02.2024>

Dear Sir,

With reference to your “Request for Design, Supply, Installation and Commissioning of AI Based System for Reduction of Human-Elephant Conflict, their Protection and Monitoring in Bhubaneswar WL Range of Chandaka Wildlife Division”, we hereby submit our Pre-qualification bid, Technical Bid and Financial Bid for the same.

We hereby declare that:

- a. We hereby acknowledge and unconditionally accept that the CHANDAKA WILDLIFE DIVISION can at its absolute discretion apply whatever criteria it deems appropriate, not just limiting to those criteria set out in the TENDER and related documents, in short listing of Agency for providing services.
- b. We have submitted EMD of INR ----- and Tender fee of INR ----- in shape of DD in favour of DFO Chandaka Wildlife Division and payable at Bhubaneswar.
- c. We hereby declare that all information and details furnished by us in the Bid are true and correct, and all documents accompanying such application are true copies of the irrespective originals.
- d. We agree to abide by our offer for a period of 365 days from the date of Submission of bid prescribed by CHANDAKA WILDLIFE DIVISION and that we shall remain bound by a communication of acceptance within that time.
- e. We have carefully read and understood the terms and conditions of the TENDER and the conditions of the contract applicable to the TENDER. We do hereby undertake to provision as per these terms and conditions.
- f. In the event of acceptance of our bid, we do hereby undertake:
 - i. To supply the products and commence services as stipulated in the TENDER document

- ii. To undertake the project services for entire contract period from the date of signing of the contract as mentioned in the TENDER document.
- iii. We affirm that the prices quoted are inclusive of design, development, delivery, installation, commissioning, training, providing facility management and handholding support and discounts etc.
- g. We do hereby undertake, that, until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and notification of award of contract, shall constitute a binding contract between us.
- h. We understand that the CHANDAKA WILDLIFE DIVISION may cancel the bidding process at any time and that CHANDAKA WILDLIFE DIVISION is not bound to accept any bid that it may receive without incurring any liability towards the bidder.
- i. We fully understand and agree to comply that on verification, if any of the information provided in our bid is found to be misleading the selection process, we are liable to be dismissed from the selection process or termination of the contract during the project, if selected to do so

In case of any clarifications please contact, email, contact no.

Thanking you,

Yours sincerely,

(Signature of the Primary partner)

(Printed Name)

Designation Seal

Date:

Place:

Company profile

Brief company profile (required for both bidder and consortium member)

S. No.	Particulars	Description
1.	Name of Bidder	
2.	Legal status of Bidder (company, Pvt. Ltd., LLP etc.)	
3.	Main business of the Bidder	
4.	Registered office address	
5.	Incorporation date and number	
6.	Service Tax number	
7.	GST number	
8.	PAN details	
9.	Income tax return for last two years	
10.	Primary Contact Person (Name, Designation, address, mobile number, fax, email)	
11.	Secondary Contact Person (Name, Designation, address, mobile number, fax, email)	
12.	EMD details	
13.	Role in Consortium (if applicable)	Brief scope of work in the consortium

A. Valid Certificate of Incorporation (required for both bidder and consortium member)

B. Financial Turnover of last 3 years (Including current year)

Declaration of Non-Blacklisting (To be provided on the Company letter head)

Declaration for Primary partner:

Date: dd / mm / yyyy

To,

Subject : Self Declaration of not been blacklisted in response to the "Request for Proposal for Design, Supply, Installation and Commissioning of AI Based System for Reduction of Human-Elephant Conflict their Protection and Monitoring Forest Range of Chandaka Forest Division"

Ref: TENDER No. <<.....>> dated <<>>

Dear Sir,

We confirm that our company or firm, ,is currently not blacklisted in any manner whatsoever by anyof the State or UT and or Central Government in India on any ground including but not limited to indulgence in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice.

(Signature of the Primary partner)

Printed NameDesignation

Seal

Date:

Place:

Business Address:

Bidder's Experience - Client Citations

Prime Bidder or Consortium member is requested to furnish the credentials in the following format for both Pre-qualification and Technical criterion. All credentials should be followed by relevant documentary proof.

Name of the Project & Location	
Client's Name and Complete Address	
Narrative description of project	
Contract value for the bidder (in INR)	
Date of Start	
Date of Completion	
Activities under taken by prime bidder or consortium member	

N.B - If the project is ongoing, bidder must clearly specify which of the stages/phases/milestones are completed and which are ongoing and at what stage of completion and produce a self-certificate as per the format provided

No Deviation Certificate

This is to certify that our offer is exactly in line with your Tender enquiry/TENDER (including amendments) no. dated. This is to expressly certify that our offer contains no deviation either Technical (including but not limited to Scope of Work, Business Requirements Specification, Functional Requirements Specification, Hardware Specification and Technical Requirements Specification) or Financial in either direct or indirect form.

(Authorized Signatory)

Signature:

Name:

Designation:

Address:

Seal:

Date:

TOTAL RESPONSIBILITY CERTIFICATE

<Location, Date>

To

The Divisional Forest Officer,
Chandaka Wildlife Division,
Bhubaneswar.

Sir,

Sub: Self-certificate regarding Total Responsibility*****

This is to certify that we undertake total responsibility for the successful Design, Supply, Installation and Commissioning of AI Based System for Reduction of Human-Elephant Conflict their Protection and Monitoring in Bhubaneswar WL Range of Chandaka Wildlife Division for CHANDAKA WILDLIFE DIVISION as per the requirements of the TENDER DOCUMENT vide referenceDt..... and its corrigendum & clarifications.

Thanking you,

Yours faithfully

(Signature of the Authorized signatory of the Prime Bidder)

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

Annexure 3 – Formats for Submission of the Technical Bid

TECHNICAL BID CHECK-LIST

S No.	Check list Item	Compliance (Yes/No)	Page No. and Section No. in the Bid
1.	Technical Bid Covering Letter as per format below		
2.	Bidder's Financial Turnover as per format below		
3.	Credential summary (as per format)		
4.	Detailed proposed solution		
5.	Project plan and man power plan as per format given below		
6.	Technology/ Leadership team as per format given below a. Team leader b. Team members		
7.	Proposed CVs as per format given below		
8.	Compliance to Requirement (Technical/Functional Specifications) as per format given below		
9.	Proposed Bill of Material		
10.	Manufacturers'/Producers' Authorization Form as per format given below		
11.	Anti-Collision certificate as per format given below		
12.	Non-disclosure agreement as per format given below		

TECHNICAL BID COVERING LETTER

Date: dd/mm/yyyy

To,

The Divisional Forest Officer,
Chandaka Wildlife Division,
Bhubaneswar.

Subject : Request for Proposal for Design, Supply, Installation and Commissioning of AI Based System for Reduction of Human-Elephant Conflict their Protection and Monitoring in Bhubaneswar WL Range of Chandaka Wildlife Division

Ref : TENDER No. <<01/2023-24>>dated<<28.02.2024>>

Dear Sir,

I (in case of single bidder) or We, <<name of the undersigned Bidder and consortium members>>, having read and examined in detail all the bidding documents in respect of "Request for Proposal for Design, Supply, Installation and Commissioning of AI Based System for Reduction of Human-Elephant Conflict their Protection and Monitoring in Bhubaneswar WL Range of Chandaka Wildlife Division" do hereby propose to provide our services as specified in the bid submitted by us.

It is hereby confirmed that I / We are entitled to act on behalf of our company / corporation / firm / organization and empowered to sign this document as well as such other documents, which may be required in this connection.

We declare that all the services shall be performed strictly in accordance with the TENDER documents. We confirm that the information contained in this response or any part thereof, including its exhibits, and other documents and instruments delivered or to be delivered to DFO, CHANDAKA WILDLIFE DIVISION accurate, verifiable and complete. This response includes all information necessary to ensure that the statements therein do not in whole or in part mislead the department in its evaluation process. We also confirm that we shall not attract conflict of interest in principle.

We hereby declare that in case the contract is awarded to us, we shall submit the contract Performance bank guarantee in the form prescribed at Annexure 5 (a) of the TENDER DOCUMENT.

We here by declare that our bid is made in good faith, without collusion or fraud and the information contained in the bid is true and correct to the best of our knowledge and belief.

We understand that our bid is binding on us and that you are not bound to accept a Bid you receive. This bid is valid for 90 days after opening of technical bid. We shall extend the validity of the bid if required by DFO, CHANDAKA WILDLIFE DIVISION.

Thanking you,

Yours sincerely,

(Signature of the Primary partner) Printed Name Designation

Seal

Date:

Place:

Business Address:

BIDDER'S FINANCIAL TURNOVER

The financial turnover of the company has to be provided as per the following table:

S No.	FY- 2020-21	FY 2021-22	FY 2022-23	Average Turnover (Last 3 years)

- i. Copy of audited financial statements or declaration from the appointed statutory auditor/ CA to be provided as proof of the financial turnover.
- ii. Positive net worth of the last Three (3) financial years as on 29.02.2024. Copy of self-certified statutory auditor certificate to be submitted along with the bid.

CREDENTIAL SUMMARY

S No.	Project Name	Client Name	Client Type	Project Value (in INR)	Project Components	Documentary evidence provided (Yes or No)	Project Status (Completed or Ongoing or Withheld)
1							
2							
3							
4							

- Client type – Indicate whether the client is Government or Public Sector Undertaking or Private
- Project Components – Indicate the major project components like setting up of Network Operations Center, Wide Area Network, city/public Wi-Fi, application development for security surveillance, command and control center, Maintenance, Hardware procurement and deployment, Domain controller setup and maintenance, Facility management services, provisioning manpower, IT support and maintenance
- Documentary evidence provided – Indicate the documentary evidence provided with the detailed project credential like work order or purchase order or completion certificate or letter of appointment
- Project Status–Completed (date of project completion) or Ongoing (project start date)

DETAILED PROPOSED SOLUTION

Structure of Proposed Solution

Bidders are required to provide a detailed approach & methodology to execute the entire project. Bidders are advised to comply with the below provided headers/Approach components while detailing out their solution.

S No.	Item
1.	Understanding of requirement and Implementation approach
	Understanding of requirements
	Work Plan & its adequacy
2.	Robustness and quality
	End to end integrated solution proposed
	Hardware deployment and integration approach encompassing all solutions
	Timelines and modalities for implementation in a time bound manner
	Project implementation approach or strategy and operations and maintenance plan including comprehensiveness off all back strategy and planning during roll out
	Any other area relevant to the scope of work and other requirements of the project
3.	Assessment of Man power deployment, Training and Hand holding plan
	Deployment strategy of Man power
	Contingency management
	Mobilization of existing resources and additional resources as required
	Training and hand holding strategy

PROJECT PLAN

Within seven calendar days of Effective Date of the Signing of the contract, MSI shall submit to the designated authority for its approval a detailed Project Plan with details of the project showing the sequence, procedure and method in which it proposes to carry out the works. The Plan so submitted by MSI shall confirm to the requirements and timelines specified in the Contract. The designated authority and MSI shall discuss and agree upon the work procedures to be followed for effective execution of the works, which MSI intends to deploy and shall be clearly specified. The Project Plan shall include but not limited to project organization, communication structure, proposed staffing, roles and responsibilities, processes and tool sets to be used for

quality assurance, security and confidentiality practices in accordance with industry best practices, project plan and delivery schedule in accordance with the Contract. Approval by the designated authority's Representative of the Project Plan shall not relieve MSI of any of his duties or responsibilities under the Contract.

If MSI's work plans necessitate a disruption/ shutdown in designated authority's operation, the plan shall be mutually discussed and developed so as to keep such disruption/shutdown to the barest unavoidable minimum. Anytime and cost arising due to failure of MSI to develop/adhere such a work plan shall be to his account.

A Detailed Project Plan covering break-up of each phase into the key activities, along with the start and end dates must be provided as per format given below.

Activity-wise Timelines						
Sl. No.	Item of Activity	Month wise Program				
		1	2	3	4	5
1	Project Plan					
1.1	Activity 1					
1.2	Sub-Activity 1					
.....					

Note: The above activity chart is just for the purpose of illustration. Bidders are requested to provide detailed activity & phase wise timelines for executing the project with details of deliverables & milestones as per their bid.

MAN POWER PLAN

Till Go-Live (Implementation)

Man power distribution							
S. No.	Name	Role	Month wise time to be spent by each personnel (in days) Total				
			Month1	Month2	Month3	Month4	Month5

After Go-Live (Free warranty period of 12 months)

Man power distribution								
S. No.	Name	Role	Month wise time to be spent by each personnel (in days) Total					
			Month 1	Month 2	Month 3	Month 12

Note : Including a support team (should be present in the field 24x7) for assessing the functioning of the surveillance system, for a period of one year after go-live, till the field team gather knowledge and skill on the Operations.

After 12 months free warranty period (Operation & Maintenance)

Year wise Man power distribution				
S. No.	Man power/Role	Years		
		Year1	Year2	Year3

TECHNOLOGY / LEADERSHIP TEAM

Summary of Resource persons proposed

S No.	Name of the Resource person	Proposed Role	Highest degree	Basic Qualification (E.g. B.Sc. or B.E. or MCA or Diploma)	Certifications (ex. PMI or ITIL or TOGAF or CCNP etc.)	Total Experience (in years)
1.						
2.						
...						

Team Leader

S. No	Name of Team leader	Experience of executing AI based Surveillance Project (No. of Projects)	Work orders/POs with completion certificate/ Letter from the project owner (Yes/No) (If Yes Enclose the certificate)

Team Members

S. No	No. of Team Members	Over all AI experience including AI based Design experience and AI based project Implementation experience (in years)*	Remarks

Supporting Team Members

S. No	Total No. of Supporting Team Members	Over all AI experience (in years)*	Design experience (in years)*	AI project Implementation experience (in years)*

*** Supporting Documents should be attached**

Note: For each key technical team personnel (including supporting team), the Curriculum vitae should be separately submitted as follows

CURRICULUM VITAE (CV)

Curriculum Vitae (CV) of Team Leader / Team Members / Supporting Team Members

1.	Name :				
2.	Photo of the person (Across the photo, technical person need to sign)				
3.	Proposed position or role	<i>(only one candidate shall be nominated for each position)</i>			
4.	Proposed Responsibilities in the Project				
5.	Date of Birth		Nationality		
6.	Education	Qualification	Name of School or College or University	Degree Obtained	Year of Passing
7.	Years of Experience				
8.	Areas of Expertise and no. of years of experience in this area	<i>(as required for the Profile)</i>			
9.	Number of years with the current company				
10.	Certifications and Training attended				
11.	Employment Record	Employer	Position	From	To
12.	[Starting with present position and last 2 firms, list in reverse order, giving for each employment: dates of employment, name of employing organization, positions held.]				
13.	Number of complete life cycle implementations carried out				
14.	Past assignment details (For each assignment provide details regarding name of organizations worked for, designation responsibilities, tenure)				
15.	Prior experience in AI and its implementation Project name Client Key project features in brief Location of the project Designation Role				

	Responsibilities and activities Duration of the project (Please provide only relevant projects)	
16.	Prior experience in designing AI solution Project name Client Key project features in brief Location of the project Designation Role Responsibilities and activities Duration of the project (Please provide only relevant projects)	
17.	Proficient in languages (Against each language listed indicate if speak/read/write)	
18.	Signature of the Technical person	

Relevant Work Undertaken that best illustrates the experience as required for the Role

Project 1	
Name of assignment	
Year	
Location	
Employer	
Main project features	
Position held	
Activities performed	
Project 2	
Name of assignment	
Year	
Location	
Employer	
Main project features	
Position held	
Activities performed	

COMPLIANCE TO REQUIREMENT (TECHNICAL / FUNCTIONAL SPECIFICATIONS)

The bidder should provide compliance to the requirement specifications (both technical and functional). The same should be reproduced here, and compliance against each requirement line item should be marked.

MANUFACTURERS'/ PRODUCERS' AUTHORIZATION FORM

(This form has to be provided by the OEMs of the hardware and software solutions proposed. This letter should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to bind the manufacturer.)

Date: dd/mm/yyyy

To,

Subject: Manufacturer's Authorization Form Ref: TENDER No.<<01/202324>>dated<<28.02.2024>>

Dear Sir,

We (Name of the OEM) who are established and reputable manufacturers of (List of Goods) having factories or product development centre at the locations or as per list attached, do hereby authorize. (Name and address of the Bidder) to bid, negotiate and conclude the contract with you against TENDER No. Dated for the above goods manufactured or developed by us.

We hereby extend, our warranty for the hardware goods supplied by the bidder and or maintenance or support services for software products against this invitation for bid by (Name of the Bidder) as per requirements and for the duration of contract as specified in this TENDER.

We also confirm that our offered product will not be end of life for minimum of 36 months from the date of bidding and the support for such offered product/s will be available for minimum of 5 years from the due date of bidding.

Thanking you,

Yours faithfully,

(Signature)

For and on behalf of: (Name of the OEM)

Authorized Signatory

Name:

Designation:

Place:

Date:

ANTI-COLLISION CERTIFICATE

[Certificate should be provided by Primary partner and on letter head]

We hereby certify and confirm that in the preparation and submission of our Bid for Request for Proposal Design, Supply, Installation and Commissioning of AI Based System for Reduction of Human-Elephant Conflict their Protection and Monitoring in Bhubaneswar WL Range of Chandaka Wildlife Division, we have not acted in concert or in collision with any other Bidder or other person(s) and also not done any act, deed or thing, which is or could be regarded as anti-competitive. We further confirm that we have not offered nor will offer any illegal gratification in cash or kind to any person or organization in connection with the instant bid.

(Signature of the Primary partner)

Printed Name

Designation Seal

Date:

Place:

Business Address:

Annexure 4 – Formats for Submission of the Financial Bid

Total Price Summary

S. No	Details of Specifications	Unit	Quantity proposed	Unit Cost (in Rs)	Amount (in Rs)
A	Field Equipments				
1	The list of field equipments to be added based on the proposal of the bidder				
2					
3					
...					
B	In Building Command & Control Related Equipment				
1	The list of field equipments to be added based on the proposal of the bidder				
2					
3					
...					
C	Operation and Maintenance				
N1	Support team to assist the CHANDAKA WILDLIFE DIVISION 24x7 for assessing the functioning of the Surveillance system for a period of one year after go-live/project implementation				
N2	Operation and Maintenance cost for 3 years after free warranty period of 12 months				

Annexure 5 (a) – Bank Guarantee for Security Deposit

Ref:

Date

Bank Guarantee No.

Whereas, <<name of the supplier and address>> (hereinafter called “the System Integrator”) has undertaken, in pursuance of contract no. <Insert Contract No.> dated. <Date> to provide Implementation services for<<name of the assignment>> to Chandaka Wildlife Division (hereinafter called “the DFO, CHANDAKA WILDLIFE DIVISION”)

And whereas it has been stipulated by in the said contract that the bidder shall furnish you with a bank guarantee by a recognized bank for the sum specified therein as security for compliance with its obligations in accordance with the contract;

And whereas we, <Name of Bank> a banking company incorporated and having its head/registered office at<Address of Registered Office> and having one of its offices at <Address of Local Office> 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 Rs.<Insert Value> (Rupees <Insert Value in Words> only) 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 Rs. <Insert Value> (Rupees <Insert Value in Words> only) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the bidder 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 System Integrator 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 <<Insert Date>>) Notwithstanding anything contained herein:

- i. Our liability under this bank guarantee shall not exceed Rs. <Insert Value> (Rupees <Insert Value in Words> only).
- ii. This bank guarantee shall be valid up to <Insert Expiry Date>)
- iii. It is condition of our liability for payment of the guaranteed amount or any part thereof arising under this bank guarantee that we receive a valid written claim or demand for payment under this bank guarantee on or before <Insert Expiry Date>) failing which our liability under the guarantee will automatically cease.

Date

Place

Signature

Witness

Printed name

(Bank's common seal)

Annexure 5 (b) – Bank Guarantee for Earnest Money Deposit

To,

Whereas <<Name of the bidder>> (hereinafter called 'the System Integrator') has submitted the bid for Submission of TENDER<<TENDER Number>> dated <<Date>> for <<Name of the assignment>> (hereinafter called "the Bid") to <<DFO, CHANDAKA WILDLIFE DIVISION>> .

Know all Men by these presents that we <<... >> having our office at <<Address>> (hereinafter called "the Bank") are bound unto the << DFO, CHANDAKA WILDLIFE DIVISION >> (hereinafter called "the DFO, CHANDAKA WILDLIFE DIVISION ") in the sum of Rs. <<Amount in figures>> (Rupees <<Amount in words>> only) for which payment well and truly to be made to the said ODISHA FOREST DEPARTMENT, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this <<Date>>.

The conditions of this obligation are:

- i. If the Bidder having its bid withdrawn during the period of bid validity specified by the Bidder on the Bid Form; or
- ii. If the Bidder, having been notified of the acceptance of its bid by the CHANDAKA WILDLIFE DIVISION during the period of validity of bid
 - a. Withdraws his participation from the bid during the period of validity of bid document; or
 - b. Fails or refuses to participate in the subsequent Tender process after having been short listed; We undertake to pay to the DFO, CHANDAKA WILDLIFE DIVISION up to the above amount upon receipt of its first written demand, without the DFO, CHANDAKA WILDLIFE DIVISION having to substantiate its demand, provided that in its demand the DFO, CHANDAKA WILDLIFE DIVISION will note that the amount claimed by it is due to it owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to <<insert date>> and including <<extra time over and above mandated in the TENDER>> from the last date of submission and any demand in respect thereof should reach the Bank not later than the above date.

NOT WITHSTANDING ANYTHING CONTAINED HEREIN:

- i. Our liability under this Bank Guarantee shall not exceed Rs. <<Amount in figures>> (Rupees<<Amount in words>> only)
- ii. This Bank Guarantee shall be valid up to <<insert date>>)
- iii. It is condition of our liability for payment of the guaranteed amount or any part thereof arising under this Bank Guarantee that we receive a valid written claim or demand for payment under this Bank Guarantee on or before <<insert date>>) failing which our liability under the guarantee will automatically cease.

(Authorized Signatory of the Bank)

Seal:

Date:

Annexure 6 – Non-Disclosure Agreement

WHEREAS, we the undersigned Bidder, , having our principal place of business or registered

office at, are desirous of bidding for TENDER No. <<>> dated <<DD-MM-2020>> “Request for

Proposal for Design, Supply, Installation and Commissioning of AI Based System for Reduction of Human-Elephant Conflict their Protection and Monitoring in Bhubaneswar WL Range of Chandaka Wildlife Division”

(hereinafter called the said 'TENDER')”, hereinafter referred to as ‘DFO, CHANDAKA WILDLIFE DIVISION ' and,

WHEREAS, the Bidder is aware and confirms that the DFO, CHANDAKA WILDLIFE DIVISION’s business or operations, information, application or software, hardware, business data, architecture schematics, designs, storage media and other information or documents made available by the DFO, CHANDAKA WILDLIFE DIVISION in the TENDER documents during the bidding process and thereafter, or otherwise (confidential information for short) is privileged and strictly confidential and or proprietary to the DFO, CHANDAKA WILDLIFE DIVISION,

NOW THEREFORE, in consideration of disclosure of confidential information, and in order to ensure the DFO, CHANDAKA WILDLIFE DIVISION’s grant to the Bidder of specific access to DFO, CHANDAKA WILDLIFE DIVISION’s confidential information, property, information systems, network, databases and other data, the Bidder agrees to all of the following conditions.

It is hereby agreed as under:

1. The confidential information to be disclosed by the CHANDAKA WILDLIFE DIVISION under this Agreement (“Confidential Information”) shall include without limitation, any and all information in written, representational, electronic, verbal or other form relating directly or indirectly to processes, methodologies, algorithms, risk matrices, thresholds, parameters, reports, deliverables, work products, specifications, architecture, project information, security or zoning strategies & policies, related computer programs, systems, trend analysis, risk plans, strategies and information communicated or obtained through meetings, documents, correspondence or inspection of tangible items, facilities or inspection at any site to which access is

permitted by the DFO, CHANDAKA WILDLIFE DIVISION.

2. Confidential Information does not include information which:
 - i. the Bidder knew or had in its possession, prior to disclosure, without limitation on its confidentiality;
 - ii. information in the public domain as a matter of law;
 - iii. is obtained by the Bidder from a third party without any obligation of confidentiality;
 - iv. the Bidder is required to disclose by order of a competent court or regulatory DFO, CHANDAKA WILDLIFE DIVISION;
 - v. is released from confidentiality with the written consent of the DFO, CHANDAKA WILDLIFE DIVISION.

The Bidder shall have the burden of proving hereinabove are applicable to the information in the possession of the Bidder.

3. The Bidder agrees to hold in trust any Confidential Information received by the Bidder, as part of the Tendering process or otherwise, and the Bidder shall maintain strict confidentiality in respect of such Confidential Information, and in no event a degree of confidentiality less than the Bidder uses to protect its own confidential and proprietary information. The Bidder also agrees:
 - i. to maintain and use the Confidential Information only for the purposes of bidding for this TENDER and thereafter only as expressly permitted herein;
 - ii. to only make copies as specifically authorized by the prior written consent of the CHANDAKA WILDLIFE DIVISION and with the same confidential or proprietary notices as may be printed or displayed on the original;
 - iii. to restrict access and disclosure of Confidential Information to their employees, agents, consortium members and representatives strictly on a "need to know" basis, to maintain confidentiality of the Confidential Information disclosed to them in accordance with this clause; and
 - iv. to treat Confidential Information as confidential unless and until CHANDAKA WILDLIFE DIVISION expressly notifies the Bidder of release of its obligations in

relation to the said Confidential Information.

4. Notwithstanding the foregoing, the Bidder acknowledges that the nature of activities to be performed as part of the Tendering process or thereafter may require the Bidder's personnel to be present on premises of the CHANDAKA WILDLIFE DIVISION or may require the Bidder's personnel to have access to software, hardware, computer networks, databases, documents and storage media of the CHANDAKA WILDLIFE DIVISION while on or off premises of the CHANDAKA WILDLIFE DIVISION. It is understood that it would be impractical for the CHANDAKA WILDLIFE DIVISION to monitor all information made available to the Bidder's personnel under such circumstances and to provide notice to the Bidder of the confidentiality of all such information.

Therefore, the Bidder shall disclose or allow access to the Confidential Information only to those personnel of the Bidder who need to know it for the proper performance of their duties in relation to this project, and then only to the extent reasonably necessary. The Bidder will take appropriate steps to ensure that all personnel to whom access to the Confidential Information is given are aware of the Bidder's confidentiality obligation. Further, the Bidder shall procure that all personnel of the Bidder are bound by confidentiality obligation in relation to all proprietary and Confidential Information received by them which is no less onerous than the confidentiality obligation under this agreement.

5. The Bidder shall establish and maintain appropriate security measures to provide for the safe custody of the Confidential Information and to prevent unauthorized access to it.
6. The Bidder agrees that upon termination or expiry of this Agreement or at any time during its urgency, at the request of the DFO, CHANDAKA WILDLIFE DIVISION, the Bidder shall promptly deliver to the DFO, CHANDAKA WILDLIFE DIVISION the Confidential Information and copies thereof in its possession or under its direct or indirect control, and shall destroy all memoranda, notes and other writings prepared by the Bidder or its Affiliates or directors, officers, employees or advisors based on the Confidential Information and promptly certify such destruction.
7. Confidential Information shall at all times remain the sole and exclusive property of the DFO, CHANDAKA WILDLIFE DIVISION. Upon completion of the Tendering process and

or termination of the contract or at any time during its currency, at the request of the DFO, CHANDAKA WILDLIFE DIVISION, the Bidder shall promptly deliver to the DFO, CHANDAKA WILDLIFE DIVISION the Confidential Information and copies thereof in its possession or under its direct or indirect control, and shall destroy all memoranda, notes and other writings prepared by the Bidder or its Affiliates or directors, officers, employees or advisors based on the Confidential Information within a period of sixty days from the date of receipt of notice, or destroyed, if incapable of return. The destruction shall be witnessed and so recorded, in writing, by an authorized representative of the DFO, CHANDAKA WILDLIFE DIVISION. Without prejudice to the above the Bidder shall promptly certify to the DFO, CHANDAKA WILDLIFE DIVISION, due and complete destruction and return. Nothing contained herein shall in any manner impair rights of the DFO, CHANDAKA WILDLIFE DIVISION in respect of the Confidential Information.

8. In the event that the Bidder hereto becomes legally compelled to disclose any Confidential Information, the Bidder shall give sufficient notice and render best effort assistance to the DFO, CHANDAKA WILDLIFE DIVISION to enable the DFO, CHANDAKA WILDLIFE DIVISION to prevent or minimize to the extent possible, such disclosure. Bidder shall not disclose to a third party any Confidential Information or the contents of this TENDER without the prior written consent of the DFO, CHANDAKA WILDLIFE DIVISION. The obligations of this Clause shall be satisfied by handling Confidential Information with the same degree of care, which the Bidder applies to its own similar Confidential Information but in no event less than reasonable care.

For and on behalf of:

(BIDDER)

Authorized Signatory Office Seal:

Name:

Place:

Designation:

Date:

Annexure 7 – Format for Power of Attorney to Authorize Signatory

POWER OF ATTORNEY

To be executed on non-judicial stamp paper of the appropriate value in accordance with relevant Stamp Act. The stamp paper to be in the name of the company who is issuing the power of attorney.] We, M/s. (name of the firm or company with address of the registered office) hereby constitute, appoint and authorize Mr. or Ms. (Name and residential address) who is presently employed with us and holding the position of, as our Attorney to do in our name and our behalf all or any of the acts, deeds or things necessary or incidental to our TENDER for the Project... (name of the Project), including signing and submission of the TENDER response, participating in the meetings, responding to queries, submission of information or documents and generally to represent us in all the dealings with Client or any other Government Agency or any person, in connection with the works until culmination of the process of bidding till the Project Agreement is entered into with (Client) and thereafter till the expiry of the Project Agreement.

We hereby agree to ratify all acts, deeds and things lawfully done by our said Attorney pursuant to this power of attorney and that all acts, deeds and things done by our aforesaid Attorney shall and shall always be deemed to have been done by us.

(Add in the case of a Consortium)

Our firm is a Member or Primary partner of the Consortium of.....,.....and

Dated

this

the.....day of 2020

(Signature and Name of authorized signatory)

(Signature and Name in block letters of all the remaining partners of the firm Signatory for the Company)

Seal of firm

Company

Witness 1:

Witness 2:

ABBREVIATIONS

1. AI – Artificial Intelligence
2. ODISHA FOREST DEPARTMENT – OFD
3. TENDER DOCUMENT – Request For Proposal
4. FY - Financial Year
5. DD - Demand Draft
6. FDR - Fixed Deposit Receipt
7. BG - Bank Guarantee
8. CA – Chartered Accountant
9. MEC - Minimum Eligibility Criteria
10. TES - Technical Evaluation System
11. TSC - Tender Scrutiny Committee
12. QCBS - Quality-cum-Cost-Based-System
13. EMD - Earnest Money Deposit
14. SD - Security Deposit
15. O&M – Operation and Maintenance
16. FDR - Fixed Deposit Receipt
17. OEM - Original Equipment Manufacturer
18. BOM – Bill of Material
19. BOQ – Bill of Quotations
20. SI – System Integrator
21. MSI – Master System Integrator
22. UOM – Unit of Measurement
23. SLA - Service Level Agreement
24. LOI - Letter Of Intent
25. LOA - Letter of Agreement
26. MAC - Media Access Control

- 27. ICC - Integrated Command Control Center
- 28. POC - Proof of Concept
- 29. LD - Liquidated Damage
- 30. CAMC - Comprehensive Annual Maintenance Contract
- 31. JRI - Joint Receipt Inspection
- 32. ATP - Available-to-promise
- 33. PERT - Program Evaluation Review Technique
- 34. NAS - Network Attached Storage