

BEACH SURVEILLANCE SYSTEM

Request For Proposal (RFP)

**Selection of Agency for Implementation and operations of
beach surveillance for Department of Tourism, Government of
Goa on Public Private Partnership (PPP) Basis.**



GOA ELECTRONICS LIMITED

A Subsidiary of EDC Ltd. (A Government of Goa Undertaking)

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1. ACRONYMS AND ABBREVIATION

RFP	REQUEST FOR PROPOSAL
EOI	EXPRESSION OF INTEREST
PPP	PUBLIC PRIVATE PARTNERSHIP
CCTV	CLOSED CIRCUIT TELEVISION
VMS	VIDEO MANAGEMENT SOFTWARE
BOOT	BUILD OWN OPERATE TRANSFER
FY	FINANCIAL YEAR
PSU	PUBLIC SECTOR UNDERTAKING
SOW	SCOPE OF WORK
RFP	REQUEST FOR PROPOSAL
WAN	WIDE AREA NETWORK
LOI	LETTER OF INTEREST
BOM	BILL OF MATERIAL
GBBN	GOA BROADBAND NETWORK
GoG	GOVERNMENT OF GOA
GOI	GOVERNMENT OF INDIA
GEL	GOA ELECTRONICS LIMITED
LAN	LOCAL AREA NETWORK
MoU	MEMORANDUM OF UNDERSTANDING
MSA	MASTER SERVICE AGREEMENT
DD	DEMAND DRAFT
NVR	NETWORK VIDEO RECORDER
PAS	PUBLIC ADDRESSING SYSTEM
VMS	VIDEO MANAGEMENT SOFTWARE
VMD	VARIABLE MESSAGE DISPLAY
H1	HIGHEST QUOTE
L1	LOWEST QUOTE



2. RFP NOTICE

Tenders for the implementation and operations of beach surveillance are hereby invited from the Vendors by Goa Electronics Limited on behalf of Department of Tourism, Government of Goa through the e-tendering process using the website www.etender.goa.gov.in. The tender documents can be downloaded from GEL Website: www.goaelectronics.co.in or www.etender.goa.gov.in.

The RFP document complete in all respect should be uploaded on www.etender.goa.gov.in on or before 12 March 2015 which will be opened on the same day in the presence of the Vendors or their representatives who may like to be present at that time. The sale of tender document will commence on the next date of publication of this tender notice and will close on the date specified on the tender document.

The Vendors are required to get registered with www.tenderwizard.com/GOA. The Vendor must have valid digital signature to submit the RFP. The interested vendors fulfilling the terms & conditions should quote their premium amount along with earnest money deposit(EMD)as mentioned in the RFP document.

All the Vendors should also give a brief resume about their firm/company. Their turnover and firms/ offices to which they are supplying quoted items, should also be mentioned.

Goa Electronics Limited (GEL) reserves the right to reject all or any of the RFP without assigning any reason thereof. The RFP which is conditional/ incomplete/ belated/ without without earnest money, processing fees, RFP fees; will not be entertained.

**Chief Executive Officer
Goa Electronics Limited**



3. RFP DOCUMENT

- | | |
|--|--|
| 1. No. GEL/BSS/RFP-05 | Date: 18/02/2015 |
| 2. Name and Address of the party | |
| 3. RFP Document for | Implementation and operations of beach surveillance |
| 4. Earnest money Deposit | 1000000/- |
| 5. Cost of RFP document | 20000/-
(DD In favour of GOA ELECTRONICS LIMITED, payable at Panaji) |
| 6. Cost of RFP processing fee | 4000/-
(DD In favour of INFOTECH CORPORATION OF GOA LTD, payable at Panaji) |
| 7. Last date of sale of RFP | 12/03/2015 upto 3.00 pm |
| 8. Last date for submission of RFP. | 12/03/2015 upto 3.30 pm |
| 9. To be opened on | 12/03/2015 upto 4.00 pm |
| 10. Last date for submission of written Queries for clarifications | 27/02/2015 |
| 11. Contact Person for queries | Miss. Prachi Naik (Software Developer)
Goa Electronics Limited
Mobile No: 8411004909 |
| 12. Addressee and Address at which RFP to be submitted | Chief Executive Officer
Goa Electronics Limited,
Mezzanine floor, Block 'B',
EDC House, Dr.Dada Vaidya Road,
Panaji, Goa- 403001 |

Note:

All the Pre Bid Queries would be accepted in written form (and a copy through mail also) only at below address:

TO

The Chief Executive Officer,
Goa Electronics Limited,
Mezzanine floor, Block 'B',
EDC House, Dr. Dada Vaidya Road,
Panaji, Goa-403001

Mail: revati@goelectronics.co.in & prachi@goelectronics.co.in



4. PROJECT BACKGROUND

4.1 Introduction and Background

The Goa Tourism Department maintains and regulates beaches in Goa. In order to ensure all the activities happening in the corresponding beaches are tracked, ensuring a safer place for public and tourists, Department of Tourism, Goa is desirous of implementing the Project, Beach Surveillance System” at 3 Beaches in Goa.

Goa Electronics Limited, in collaboration with Department of Tourism, Goa aims to develop and maintain Beach Surveillance Cameras through private sector participation to establish Surveillance Cameras in the State of Goa.

4.2 Objective

To install and develop a beach surveillance system with IP Based Cameras with Variable Message Displays and Public Addressing System and its accessories for Security Surveillance System at 3 Beaches in Goa to ensure security of tourist on the beaches.

4.3 Description

In view of increasing tourists in Goa and similarly their visits on various Beaches in Goa, the Department of Tourism intends to upgrade the security of beaches through the CCTV surveillance systems. Various places on the Beaches will be covered by IP based – CCTV surveillance system with facility of monitoring the video at the level of Control room, Department and Police station. The camera poles such placed will be placed with Boards to display advertisements.

4.4 Places where the project has to be implemented:

1. Baga Beach
2. Candolim Beach
3. Calangute Beach



5. SCOPE OF WORK:

To completely put the beaches under Surveillance enabling Monitoring and Recording of activities by Installing PTZ speed dome camera, fixed box Cameras and control Room. Conveying important messages by text or video to the tourists over Variable Message Displays from the control room. To be able to address the tourists over public addressing system from the control room.

1. Installation:

- a. The Vendor shall erect, install and maintain the entire Video Surveillance System including Cameras as per solution architecture and the minimum specification of the RFP and shall maintain at his own cost during the Time period. The vendor shall ensure that erection and commissioning of the entire project is completed within a period of 3 months from the date of issue of order.
- b. Each of the beach will have the following components:
 - PTZ Dome Camera, Fixed Box Camera, IR Illuminator, wiper, IP66 certified and vandal resistant.
 - Ruggedized Speaker and amplifier to receive communication from control room.
 - Uninterrupted Power Supply to the required components.
 - Weather proof box to house active components like switches and UPS and other components.
 - Camera Pole and Gantry to house the camera.
 - Variable message displays and public addressing system.

2. Maintenance:

- a. The Vendor shall maintain a minimum of two completely dedicated service vehicles with all necessary tools and spares round the clock which should include a vehicle mounted Aerial platform / lift to safely service the equipment installed at heights. The Vendor should rectify the camera failure / camera failure complaints within 24 hours on receipt of complaint and adopt online Automatic Complaint Response system for this, and same has to be updated after attending to the complaints. This will be monitored on time stamp basis by Goa Electronics Limited.
- b. The Vendor shall maintain the complete system during the contract period and make replacement of any damage caused by it to the properties of the land owners or other Government / private agencies during the exercise of its responsibilities under this scheme.
- c. The vendor will ensure that the cables are tagged securely to the Poles and gantries to avoid inconvenience to public / road users.
- d. Network associated Infrastructure for the system is to be provided by the Vendor.



3. Maintain Back Up of 30 days:

All Cameras must record video simultaneously and a backup up to 30 days has to be maintained.

4. Control Room:

- a. The Vendor shall provide control room at each police station under whose jurisdiction the beach is registered and at the identified office of The Department of Tourism.
- b. Control Room must contain the following:
 - Video wall for viewing the beach to detect any crime related incidents.
 - Multi core high performance video analytics servers.
 - Scalable online storage server will be installed to store all the information including live videos and data from the beach.
 - Backup system comprising of tape library and backup server.
 - High performance video servers.
 - Network components including core switch.
 - UPS to provide uninterrupted redundant power supply to servers and active components.
 - Public Addressing system for broadcasting announcements from Control and Command Center to the beaches.

5. Setting Up of Public Addressing System[PAS]:

1. The public addressing system will be integrated with surveillance system and installed such that the Tourism Official/police official at control room will comfortably announce to any of the 3 Beaches by watching the live video stream from Surveillance system installed at the beaches.
2. The public addressing system at the Goa beaches will consist of SIP (Session Initiation Protocol) client which will receive the signals from the control room and send these signals to the amplifiers and then to the speakers connected to the amplifiers.
3. The signals include both announcements and the control information.

6. Installing Variable Message Displays:

Variable message display boards will be placed on the beach. The operator from the control room will be able to input the text/graphics to be displayed to the public.



6. TERMS AND CONDITIONS:

6.1 General Terms and Conditions

1	The Vendors are required to get registered with www.tenderwizard.com/GOA . The Vendor must have valid digital signature to submit the RFP.
2	RFP documents should be downloaded from website www.goaelectronics.co.in or http://www.etender.goa.gov.in as per the dates mentioned in the RFP.
3	The Vendor should use the electronic mode of tendering using the website www.etender.goa.gov.in to submit his RFP.
4	Late submission will not be entertained and will not be permitted by the e-Tendering System.
5	Last minute submission should be avoided. As such GEL will not be responsible for any failures in submission of RFP.
6	Incomplete or conditional RFP will be summarily rejected.
7	The Vendor shall bear all costs associated with the preparation and submission of its Proposal and GEL will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the proposal process.
8	RFP shall be uploaded separately through the e-Tendering System as per the prescribed formats only. Failure to comply with these requirements may result in the RFP being rejected.
9	The RFP fees shall not be refunded even if it is not submitted.
10	The RFP to be strictly uploaded to the e-tendering website mentioned. Additionally, a hard copy of the RFP along with the Two DD's needs to be submitted to the address of the CEO - Goa Electronics Limited, as mentioned in the RFP. The hardcopy of the technical document shall be placed in one envelope and the commercial bid along with the DD's shall be placed in another envelope superscripted as " DD's towards Tender No. _____ for Implementation and Operations of Beach Surveillance " and the due date of opening of the RFP" mentioned to be deposited at the O/o Goa Electronics Limited, Panaji on or before the RFP submission date.
11	At any time prior to the deadline for submission of Proposal, GEL may amend the RFP documents by issuing suitable corrigendum. Any corrigendum issued in this regard shall be uploaded on websites www.goaelectronics.co.in or www.etender.goa.gov.in and will be communicated through email to those companies who have already purchased the RFP
12	Performance Bank Guarantee(PBG): The successful bidder shall submit performance bank guarantee equal to 10% of the total cost of project. This amount will be adjusted from the Earnest Money Deposit. GEL shall be at liberty to enforce such bank guarantee in case the vendor fails to provide the warranty of supplied devices and the services as per the scope mentioned in RFP.
13	The EMD of successful bidder will be adjusted to performance bank guarantee till the complete supply is made and all the services are provided as per the scope mentioned in RFP and will be refunded without any interest. The EMD of unsuccessful vendors will be returned after completion of tender process.



14	If the successful bidder fails to execute the project as per the schedule and Terms & Conditions of the agreement executed, a penalty at the rate of maximum 10% of total contract value shall be levied on the vendor, which shall be recovered from the performance bank guarantee and the contract may be terminated at the risk and cost of the contractor. However, the decision regarding the quantum of penalty shall vest with GEL.
15	The Vendors are expected to examine all instructions, forms, terms and other information in the RFP. Failure to furnish all information required as mentioned in the RFP or submission of a proposal not substantially responsive to the RFP in every respect will be at the Vendor's risk and may result in rejection of the proposal and forfeiture of the bid.
16	If the RFP opening day happens to be holiday, the same will be accepted and opened on the next working day.
17	The person signing the RFP form (or any other document forming part of the contract) on behalf of another, shall be deemed to warranty that he has the authority to sign such documents and if, on inquiry it appears that the person so signing had no authority to do so, GEL, may without prejudice to other civil and criminal remedies against the contract, hold the signatory liable for all costs and damages forfeiture of the earnest money.
18	GEL reserves the right to reject all or any RFP without assigning any reason. GEL also reserves the right to cancel the RFP process at any time prior to signing the contract and GEL will have no liability for above mentioned actions.
19	The proposal submitted by the Vendor shall comprise the following documents: <ol style="list-style-type: none">1) All documents as per the Technical Bid Format at section 7 of this RFP (For Agencies who did not participate in EOI.2) The Commercial Bid.3) All Annexure should be submitted in complete form.4) All sections in the RFP should be adequately flagged and numbered.
20	In the event of the Vendor engaging in any corrupt or fraudulent practices during the RFP process, by the judgment of GEL, will be rejected. For the purpose of this clause: "Corrupt Practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a GEL official in the selection process. It also includes bringing undue influence through any quarter or interfering directly or indirectly in the selection process to affect its outcome. "Fraudulent Practice" means a misrepresentation of facts in order to influence selection process to the detriment of GEL.



21	<p>CONSORTIUM CRITERIA</p> <p>The following are the requirements for a Consortium:</p> <ul style="list-style-type: none">• The number of members in a consortium shall not be more than three (3) .However, the prime member shall individually qualify the Pre-qualification criteria and be solely responsible for all implementation of the entire scope of the project;• The RFP should contain details of all the members of the consortium including their legal status and specify their roles and responsibilities in the project;• In case of a consortium, applicant consortia shall have a valid Memorandum of Understanding (MoU)/ agreement among all the members signed by the Chief Executives/ Authorised Signatories of the companies dated prior to the submission. The MoU/ agreement shall clearly specify the stake of each member and outline the roles and responsibilities of each member. The MoU/ agreement shall be exclusively for this project and shall be responsible in case of failure by any member. <p>All Consortium partner(s) should be registered in India and must have company registration certificate, registration under Labour Laws Contract Act, valid sales tax registration certificate and valid service tax registration certificate</p> <p>Consortium partners participating along with one prime member should not be a consortium partner to any other prime member or should not participate as a prime member against this RFP. If found so, all RFP of these Vendors will be liable to be rejected.</p> <p>The consortium shall be evaluated based on the lead Vendor's strength as defined in this document. Once short listed in pre-qualification, change of consortium shall not be allowed. MSA will be signed with lead member only, in case of consortium</p>
22	<p>Period of Project</p> <p>The selected Vendor will make available all the CCTV devices in working condition along with the required software after installation/commissioning and testing at the respective locations. The period of allotment is initially for (10) Ten years on BOOT (Built – Own – Operate - Transfer) basis from the date of the agreement which will be extended based upon the performance.</p>
23	<p>The make / brand of the quoted CCTV devices must be mentioned</p>
24	<p>Any dispute, arising out of this RFP will be under the jurisdiction of Goa Court.</p>
25	<p>The Vendor is fully responsible for handling of the equipments and making sure that all equipments are kept safely. If any equipments get damaged that will be rectified by the Vendor at his own cost.</p>
26	<p>GEL would in no way be responsible for any issues, litigations, or legal implications arising if at all due to use of any pirated software by the Vendor. The complete onus and responsibility of any such consequences would be on the Vendor.</p>
27	<p>All permissions/NOC needed to erect the poles/LAN cables and setup the infrastructure has to be taken by the Vendor. The Department of Tourism would help the vendor in getting such NOC if any but the responsibility would be with the vendor.</p>
28	<p>The Government may consider using the poles and network infrastructure to set up a WiFi Internet System on the beaches. The vendor in such case will allow the government /or its selected agency to use the pole and share the network infrastructure for the same at no cost to the government.</p>



29	All permissions/NOC needed to erect the poles/LAN cables and setup the infrastructure has to be taken by the Vendor. The Department of Tourism would help the vendor in getting such NOC if any but the responsibility would be with the vendor.
30	The Department of Tourism, the relevant Government Authorities and their representatives shall at all reasonable times and upon reasonable notice have access to the Project Site, the Project / Project Facilities and the Works and all related designs, documents, reports, recorded technology and workmanship to review progress of the construction, operation and maintenance of the Project / Project Facilities.
31	Vendor shall take insurance that may be necessary to protect the Vendor and its employees and its assets, including all Force Majeure Events that are insurable.
32	Any Conditions / Technical Specifications may be modified as per need and requirement and will be incorporated in the final agreement.
33	The information contained within this RFP is both proprietary and confidential to the Department of Tourism. Vendor shall not duplicate or distribute this RFP document to any individual or company, unless said individual or company is directly involved in the completion of Agencies response.
34	All permissions/NOC needed to erect the poles/LAN cables and setup the infrastructure has to be taken by the Vendor. The Department of Tourism would help the Vendor in getting such NOC if any but the responsibility would be with the Vendor.
35	Vendor can go in for a standalone dedication fiber network or is at liberty to tie up with local network service provider and suitable expenses should be included. No expense of any sort will be reimbursed by the Department of Tourism.
36	Laying the cables should ensure video footage from all surveillance cameras installed at each beach location to the control room and at local police station.
37	Vendor should ensure that the poles erected must be structurally stable to withstand all the environmental conditions.



6.2 ADVERTISEMNT BOARDS TERMS

Since the Return on the Investment for this project has to be from Advertisement, following conditions have to be considered.

- The Vendor shall be allowed to put up advertisement boards on the arms of the Speed Dome Camera pole, fixed box camera pole, public addressing poles and on the poles that will carry the network cabling.
- The total no of poles for carrying network cables should not exceed 200.(i.e Maximum of 200 additional poles will be allowed in total for all the 3 beaches.)
- The total no of permissible poles can be increased further if required after due approval from the government.
- The Vendor is at liberty to display either lit or non-lit advertisements. The electricity charges for lit display shall be borne by the Vendor.
- The Vendor shall not display or execute any picture / poster / words on the advertisement display that are repugnant to the general standards of morality. The Vendor expressly agrees that the decision of the Department of Tourism in this regard shall be conclusive and binding on the Vendor.
- The Vendor shall allow 20% of the total advertisement space for display of social message or other information as decided by Department of Tourism for a period of minimum seven days in a year.

Details of advertisement boards:

- Vendors can place advertisement boards of the following dimensions:
 - 1) 12*4 Feet**
 - 2) 6*4 Feet**
- Advertisement boards can be a double sided, displaying advertisement on both sides.
- In addition to advertisement boards even Variable Message Displays(VMD) can be used.(Minimum 1 VMD per Beach)



7. TECHNICAL BID FORMAT:

- a) The Vendor has to ensure that all documents as mentioned below at sr. no (1) to (7) mentioned in this section are submitted in response to the technical RFP format.
- b) The vendors who had participated in the Expression of interest (i.e. Tender No: GEL/BSS/E01-05) may not submit the documents mentioned in the below eligibility criteria.
- c) Vendor is expected to examine all instructions, forms, terms, and requirements in the RFP document. Failure to furnish all information required by the RFP document or submits an RFP not substantially responsive to the RFP document in every respect may result in the rejection of the RFP. All the proposals will have to be submitted in hard bound form with all pages numbered. It should also have an index giving page wise information of above documents. Incomplete proposal will be rejected.

1. All Documents as per Eligibility Criteria:

SR No	Minimum Eligibility Criteria	Supporting Document Required
i.	<p>Vendors should possess the following Eligibility Criteria:</p> <ol style="list-style-type: none"> 1) The Lead Bidder Should have provided maintenance support for at least one year for any one project in India with more than 50 Cameras Supplied, Installed and maintained as on date of release of RFP. Project must include installation, operation, Maintenance of complete system with networking and control room setup. (1 Mega Pixel or More). 2) The Lead Bidder should have installed/ ongoing installation for atleast 1 project with a minimum of 50 Cameras in Surveillance Project with complete Control Room Set Up for government departments/semi government departments/state or central PSU's. 	<p>Attach work order/Agreement copy with detailed scope of work and successful operation certificate as on date. Vendor is required to provide the details of key projects executed/under execution that best explains the Vendor's ability to implement the desired scope of work. Vendor need to provide documentary evidences in form of copy of work orders and completion certificates from the client to support its claim. Any project details without documentary evidence will not be considered for evaluation.</p>
ii.	<p>Lead Bidder must have atleast 2 years of experience in executing similar project.</p>	<p>Suitable proof for Supply Order before January 2013 should be produced.</p>



SR No	Minimum Eligibility Criteria	Supporting Document Required
iii.	The Lead Bidder should be registered as a company in India as per Company Act 1956 or a Proprietary/Partnership firm and should have been in operation for a period of at least 3 years.	Certificate of Incorporation to be submitted/PAN No. of the company/firm, TIN No. Attested copies showing the legal status, place of registration and prime place of business of the firm along with registration of Companies and PAN/TIN. Must provide Sales Tax Registration and Service Tax Registration Certificate.
iv.	The Lead Bidder and all of the consortium partners should not have any of their contracts terminated/blacklisted in the Last Three years by any State or Central Government/PSU/BFSI/Private Sector.	Affidavit Duly notarized to be submitted for the bidder and all the consortium partners
v.	The Lead Bidder should have an average turnover of Rs 1, 50, 00,000 in last three financial years (2011-12, 2012-13, and 2013-14).	Audited Financial statement for the last three financial years (FY (2011-12, 2012-13, 2013-14).
vi.	The Vendor should also give the acceptance of the Terms and Conditions as mentioned in the document.	Letter of acceptance has to be given.
vii.	The Vendor should have an office in Goa or undertake to setup office within a month.	Letter of Undertaking has to be given.



8. SOLUTION ARCHITECTURE:

1. No of Camera's and its location:

Total no of Camera's are to be placed in such a way that the complete area of the beach can be clearly viewed. All the activities within the beach area are to be monitored. For this purpose requirement is as stated below:

Minimum no of Camera to be placed for every beach:

- 1) 15 fixed box camera.
- 2) 3 PTZ speed dome camera.

The Camera devices must be IP based and should have Infra Red illuminator to have a better quality of recording in the night hours. It must be IP66 certified and vandal resistant. Minimum specification of devices mentioned as per Section no 9 of the RFP.

2. Positioning of Camera's:

Camera's placements to be done in such a way that the complete area of the beach is covered, every event or activity happening on the beach must be recorded. Each camera should be mounted on a proper height so as to cover the activities on the entire area. Area of the coverage should be the shacks, shore area and the passage way to the beach.

3. Connectivity with Network Layout:

Network should be considered in such a way that the surveillance system will not cause inconvenience to the tourist as well as the local people of the respective beach area. The network connectivity should be considered in such a way that both wired and wireless system can be placed depending upon its requirement in various situations.

1. Wherever Signals have to travel for long distance and where the roads and localities have to be crossed wireless network has to be setup to maintain the beauty of beach.
2. Wherever surveillance points are closely located wired network has to be setup.

Vendor should note the following:

1. Wherever wired network is used the vendor should ensure that the wires should not cause any obstructions to the people on the beach.
2. Wherever wireless connectivity is used the reason for not recording/covering any feed should not be due to lost connectivity.



4. Hardware architecture and complete design of surveillance system:

1. A centralised control room should be setup at the Department of Tourism wherein the server will be placed. The server must have an uninterrupted power supply (backup power supply) in case of power shut downs.
2. A video wall has to be made in the control room for the purpose of monitoring. Vendor has to ensure that all the components placed in the control room should be in the working condition and maintained accordingly.
3. The main network switch present at the control room is then connected at the local network switch at the three beaches. The local police station will also be connected through this main network switch.
4. The vendor has to ensure that at each beach a Network video recorder (NVR) has to be placed which should be connected to the network switch. Cameras placed at the beaches should also be connected to the local router.
5. In case the connectivity to the main server is not available for a particular time the NVR on each beach should store the videos locally and then send the feed on the server in the control room and police station when connection is available.
6. At each beach a public addressing system (PAS) and a variable message display (VMD) along with the cameras have to be placed. The PAS should be able to do a two way communication (i.e. from beach to the control room and vice versa).The VMD's can be used to display any messages to the public.



5. Video Management Software(VMS)

The Video Surveillance System must be operated by a Video Management Software at the control room covering the following parameters at all the beaches:

- To Record events happening at the beaches.
- To be able to access any camera from the control room.
- To be able to address the public from the control room.
- To be able to convey messages from the control room over variable message displays.

Video management software should have the following features:

1. VMS should be able to view all the junctions and the entire beach area simultaneously from the control room.
2. VMS should have a feature of PTZ (Pan Tilt and Zoom) a particular speed dome camera from the control room whenever required and 3D positioning.
3. Addressing the public from the control room. Whenever messages have to be conveyed from the control room.
4. Two way audio communications should be possible.
5. One click emergency recording and instant playback must be possible.
6. Supports multi monitors, should have video monitor parameters like controlling brightness and contrast.
7. Should support playback controls like play, pause, stop, fast play, slow play, snapshot during play, multi channel play.
8. Supports video analysis like face detection, movement direction detection, intrusion detection, unattended object detection, missing object detection, tripwire detection and objects counting.



9. MINIMUM TECHNICAL SPECIFICATION:

Sr No	Technical Parameter
1	<p>PTZ Dome Camera:</p> <ul style="list-style-type: none"> ➤ 3 Megapixel ➤ 20x optical Zoom ➤ IR Illuminator ➤ H.264 (High Profile Supported & MJPEG dual-stream encoding) ➤ Min. 15fps@3Mp, 25/30fps@1080p resolution ➤ Wide Dynamic Range ➤ IR Cut Filter(ICR) -Day & Night ➤ DNR (2D&3D) ➤ Auto iris and Auto focus ➤ Auto White Balance ➤ Auto Gain Control ➤ Back Light Compensation ➤ AWB, AGC,BLC, Support Wipe ➤ Vandal Proof ➤ Ruggedized ➤ IP66 Certified ➤ Panning Range & speed-0 to 360 degrees/sec endless ➤ Tilting Range & speed- 10 to 90 degrees/sec ,auto flip 180 degrees ➤ Compatible on smart phones: iPhone, iPad, Android, Windows Phone
2	<p>Fixed Box Camera:</p> <ul style="list-style-type: none"> ➤ 3 Megapixel ➤ IR Illuminator ➤ 1/3" 3 Megapixel progressive scan CMOS, ➤ Support H.264/MJPEG dual codec, Smart triple streams supported ➤ Min 25/30fps@3MP(2048x1536) ➤ Auto White Balance ➤ Auto Gain Control ➤ Back Light Compensation ➤ Ultra WDR (Wide Dynamic Range) up to 120dB, ➤ Ultra 3D DNR, ➤ Ultra Defog ➤ ROI(Region of Interest) ➤ EIS (Electronic Image Stabilization) ➤ Smart detection: Face detection, Tripwire detection, Intrusion detection, Scene change detection, Missing/Abandoned, Audio detection. ➤ Auto back focus ➤ Compatible on smart phones: iPhone, iPad, Android, Windows Phone
3	<p>IR- Water-proof Housing</p> <ul style="list-style-type: none"> ➤ 50m-100m IR ➤ IP 66 ➤ Water-proof coating film



4	<p>Network Video Recorder(NVR):</p> <ul style="list-style-type: none"> ➤ Min 8 channel with 1080P real time live view ➤ H.264/MJPEG dual codec decoding ➤ Min 200Mbps incoming bandwidth ➤ Min 5Mp resolution preview & playback ➤ HDMI/VGA simultaneous video output ➤ 8 channel synchronous real time playback ➤ Support Multi-brand network cameras ➤ 3D intelligent positioning. ➤ Support min 2 SATA HDDs up to 8TB ➤ 2 USB(1 USB3.0), Support IPC UPnP, 4PoE ports ➤ Multiple network monitoring: Web viewer, Central Management Station
5	<p>NVR at Control Room to Monitor various Beaches :</p> <ul style="list-style-type: none"> ➤ 64 channel IP cameras input with 1080p real time live view, ➤ Min 32 channel HD real time transmission ➤ Min 32 channel@1080p, 64 channel@720P, 64 channel@D1 real time recording ➤ Min 6-screen output: 6 HDMI sync output/1 VGA+5 HDMI sync output (Default: 2 HDMI) ➤ Support 16 hot-swap SATA HDDs to better its scalability and flexibility ➤ Support RAID 0/1/5 ➤ Support Multi-brand network cameras
6	<p>16 HDDs Network Storage:</p> <ul style="list-style-type: none"> ➤ IPSAN / NAS integration solutions ➤ High-performance ➤ scalability, easy for data storage and file sharing ➤ Fault-tolerant data protection mechanisms for the video surveillance system ➤ Support single disk, support various data protection modes such as RAID0, RAID1, RAID5, Support HDDs hot-swappable feature ➤ Redundant fans and redundant power supply, keep 7x24-hour uninterrupted running ➤ Support common industry network protocol such as SAMBA, NFS, ISCSI, CIFS, FTP, HTTP etc ➤ Support Windows, Linux, Unix and other operating systems ➤ Adopts WEB configuration, it takes max 10 minutes to complete setup, Distribution architecture design concept suitable for all kinds of network surveillance project.
7	<p>HD Network Control Keyboard:</p> <ul style="list-style-type: none"> ➤ Keyboard connected to NVR to Control PTZ functions of Speed Dome Camera. ➤ Three Dimensional Joystick Control of PTZ Functions, Preset Position, Auto Scan, Auto Pan, Auto Tour & Pattern Control, Auxiliary Functions, On-Screen Menu & User Operation Procedure Tips, Connect to Smart PSS via USB
8	<p>52" Monitors to be placed at police station and control room.</p>
9	<p>4 TB Surveillance Hard disk</p>
10	<p>64GB SD Cards</p>
11	<p>Video wall 3X3 with 46" LED Display, Controller, Mounts, Cables etc</p>



10. COMMERCIAL BID

1. The vendor has to pay a percentage of the Income generated through advertisements towards Premium to GEL.
2. The minimum percentage of premium amount payable is 15% of the Income generated through advertisements by the vendor. Hence, the vendor has to offer / bid above 15%.
3. The vendor who undertakes to pay the highest premium percentage will be considered as the successful vendor.
4. The commercial bid in e-tender shall be made in Annexure-1 with percentage of premium payable both in words and figures. Incomplete / modification in the premium bid and conditional bids shall be deemed as non-compliant and shall be rejected.
5. The technically qualified vendors list will be announced in the e-portal and commercial bid of only technically qualified vendors will be opened.
6. Cost towards repairs of any damages to the equipment during transportation or installation by the Vendor will have to be borne by the Vendor.
7. It shall be the responsibility of the Vendor to bear the cost to insure the Installations and to prevent the possible theft of the equipment used, shed furniture and cables. No compensation whatsoever shall be paid by Department of Tourism towards installation / maintenance / replacement of any or all of the equipment.
8. The cost of electricity, Advertisement Taxes and any other necessary State Government Taxes shall be borne by Vendor.
9. The vendor shall pay Advertisement Tax as per schedule of rates approved by department and as per the rules, regulations, terms and conditions of the Government modified from time to time after the execution of the agreement.
10. The percentage of premium amount of the Income generated through advertisements payable by the vendor must be paid every 30 day. The vendor is at liberty to decide what advertisements can be displayed without failing to consider advertisement terms and condition mentioned in section 6.2.
11. The vendor must submit a statement signed by the chartered accountant on 30th of every month in order to verify and reconcile the revenue share claim

11. AWARDING CRITERIA

- A total of 3 beaches are proposed under this RFP. The selection will be on the basis of the highest percentage of total income offered by the vendor to GEL.
- The Vendor who undertakes to pay the highest % of Income will be considered as the H1. (H1 is the vendor who will bid the highest).



Financial Tender Bid Form

Annexure 1

Name of the vendor:

Address:

Sr No.	Tender Premium offer/Quote of the vendor in %	
	In Figures	In Words

Note:

- 1) The tender offer format should be submitted in above format only. If any deviation in the tender offer, such vendors will be summarily rejected.
- 2) The tender offer/Bid shall be quoted in % basis only and should be invariably more than minimum percentage of Premium amount which is 15%.

Signature of the vendor with official seal

Date:

Place:



Authorization Letter Format

Annexure 2

(To be presented by the authorized person at the time of Technical / Commercial Bid Opening in their Official letterhead)

Ref No:

Date: -----

To,

The Chief Executive Officer,
Goa Electronics Limited,
Mezzanine floor, Block 'B',
EDC House, Dr. Dada Vaidya Road,
Panaji, Goa-403001

Dear Madam,

SUB: Authorization Letter for attending the Bid Opening

This has reference to your above for the tender so specified

Mr. /Miss. /Mrs. _____ is hereby authorized to attend the bid opening of the above tender on behalf of me/ our organization.

The specimen signature is attested

Specimen Signature of Representative

Signature of Authorizing

Name & Designation of Authorizing Authority



Covering Letter Format

Annexure 3

To,
The Chief Executive Officer,
Goa Electronics Limited,
Mezzanine floor, Block 'B',
EDC House, Dr. Dada Vaidya Road,
Panaji, Goa-403001

Dear Madam,

Tender Ref:

Dated: _____

Having examined the tender document including all Annexure the receipt of which is hereby duly acknowledged, we, the undersigned, offer to participate in the tender in conformity with the said tender in accordance with the schedule of rates indicated in the commercial offer and made part of this offer.

If our offer is accepted, we undertake to work as specified in the offer document within entering into agreement within two weeks from the date of issue or order.

If our offer is accepted, we undertake to abide by all the rules and regulations as prescribed and changed from time to time during the tender period.

I/ We also undertake that we will not resort to illegality in the work and any illegality found we are liable for any action of the Department. We also undertake that we will be paying the premium as quoted from time to time.

Default in payment if any out tender may be terminated.

We also undertake that we will abide that we will not cause any degradation in the environment.

We are aware that it is the discretionary of the Department of Tourism and Goa Electronics Limited for accepting or rejecting the tender. We accept all the Instructions, Terms and Conditions in the tender.

Dated -----

Signature _____

Name of the company with seal/ individual