Expression of Interest (EoI) Document for evaluating various types of Video Analytics.

Gujarat Informatics Limited (GIL) on behalf of Home Department, Government of Gujarat invites EoI for evaluating technology platforms for various type of video analytics / Artificial Intelligence based video analytics to increase efficiency of Command and Control Center/Forensic Department.

Surveillance systems that include video analytics analyze video footage in real-time and detect abnormal activities that could pose a threat to residents in the cities of Gujarat. Essentially, video analytics technology helps security software "learn" what is normal so it can identify unusual, and potentially harmful, behavior that a human alone may miss.

This document is an Expression of Interest (EOI) for bidders to express their interest for providing video analytics. The interested bidders would be required to make presentations of their solution with detail including hardware required, server requirement, software license requirement, modules and detailed list of equipments/items with specification & makes required before the technical committee. The use cases for video analytics are also required to be presented. The Technical committee would evaluate the vendors on behalf of the presentation and other technical documents.

Interested agencies can download EoI and further amendments if any freely available on **https://gil.gujarat.gov.in/** and submit the same physically (in sealed cover) at GIL on or before due date & time of the EoI.

Last date & Time for submission of EoI at Gujarat informatics Limited (GIL)	13.11.2019 up to 1500 hours
Date & Time for Presentation cum Demonstration	14.11.2019 to 16.11.2019
Venue of Presentation cum Demonstration	**Gujarat Informatics Limited** Block No. 2, 2nd Floor, Karmayogi Bhavan, Sector -10, Gandhinagar-382010 (Gujarat)

Contact Person

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Background details of existing VISWAS Project:

Home Department, Government of Gujarat has implemented the VISWAS Project. Further the said video analytics shall be integrated with existing setup available under VISWAS Project. Background for the said project is as below:
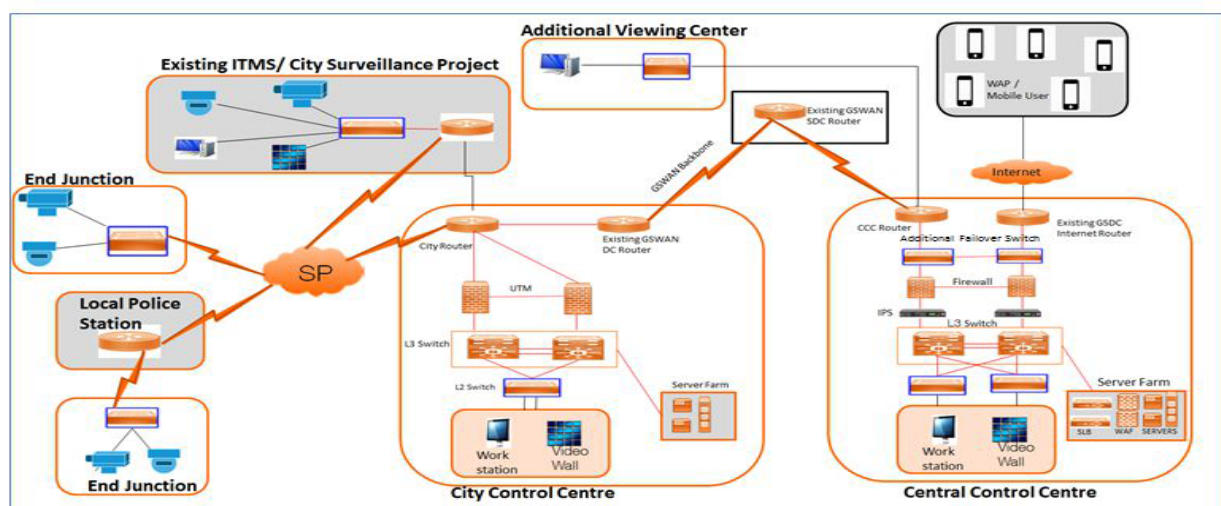
"VISWAS Project" is a flagship program of Home Department, Government of Gujarat under which State Wide Surveillance and Intelligent Traffic Management System Project shall be implemented across the State of Gujarat. The project aims to achieve following:

- ✓ Surveillance, Security, Law & Order Management
- ✓ Traffic Management & Control
- ✓ Safeguard public areas
- ✓ To minimize losses from natural hazards and human threats
- ✓ Provide lead and evidence for investigation
- ✓ Integration with Smart City projects

Under this project it has been installed hardware like CCTV Cameras, Video Walls, Storage, IT Infrastructure, Non-IT Infrastructure (Network Cabling, UPS etc.) & Software like Software/Applications like Video Management System, Video Analytics System and City Surveillance and Intelligent Traffic Monitoring System such as Red-Light Violation Detection (RLVD), Speed Detection, Automatic Number Plate Recognition (ANPR), Vehicle Tracking System, and e-Challan System at each city. Also, state of the art Command and Control Centres at Cities & State level are proposed to be set up under this project for monitoring the video feeds. The CCTV cameras installed at each city is monitored locally at the City Level Command & Control Centre as well as centrally at the State Command & Control Centre.

Initially, this project shall be implemented in 40 major cities of the State of Gujarat & subsequently, it will be extended to rest of the State in Phase 2.

Architecture of VISWAS Project

Objectives of EoI (Expression of Interest)

Home Department, Government of Gujarat (GOG) intends to evaluate technology platforms for Video Analytics to achieve following objectives:

1. To understand the available latest video analytics in the market which will be useful for crime detection, useful for post incident/investigation, useful for Forensic Lab for crime detection as well helps forensic to find out proper clue and helpful in investigation.

2. We require analytics software/tool for our existing software/video footage for post incident investigation/Low & order.

3. Brief idea for Video analytics development as well as single license, Multiple license, Enterprise license of video analytics system at various range offices, and cyber police station across the state of Gujarat.

4. Extraction, Analysis & Reporting comprehensive tools.

5. To evaluate compressed video feed/stored video feed /hazy video feed.

6. To evaluate missing frame in the compressed video feed

7. **Smart Video Technology for incident Investigations:**
   a. **Proactive:** Tactical Surveillance
   b. **Reactive:** Integrated Video Forensic Lab.

8. **Advance Video enhancement**

9. **Ability to process large number of videos:**

10. **Object Classification:** Detects and classifies an object as a Human, Vehicle, Animal etc. Reduces false detection from non-security related objects

Technical Proposal Submission:

- As a part of EoI, agency will have to submit a detailed technical proposal of offered solution which should include following :

  - ✓ Technical solution write-up

  - ✓ Components of the solution

  - ✓ Make & models of items along technical specifications

  - ✓ Technical Literature/brochures of offered solution along with Data Sheets.

  - ✓ Estimated cost of offered solution (with Warranty & Support terms).

  - ✓ Details of Previous installation of proposed solution (if any), Documentary Proof, Work Orders etc.

Methodology of Demonstration & Evaluation:

✓ Agency will have to give detailed presentation of offered solution.

✓ The Office shall provide / allot location for presentation cum demonstration of offered solution. Agency will have to demonstrate the offered solution by installing the required components within the time limit given in the EoI. The cost of the preparation of EoI as well as arranging presentation cum demonstration should be borne by the agency only on No Cost No Commitment basis.

✓ An expert committee will be formed by Home Department to study/evaluate the proposed models and to select the best and cost effective technology platform/products etc. from all proposed solution.

✓ This EoI does not commit GIL/Home Department to award a contract or to engage in negotiations.

✓ GIL/Home Department reserves the right to accept or reject any or all proposals without assigning any reasons whatsoever. GIL/Home Department decision in this matter will be final.

Details of Agency:

- Name of the applicant organization

- Name of the chief functionary

- Address

- Registered Office

- Contact details

  o Phone number

  o Email address

- Year of establishment

- About the organization

  o Key areas of operation