



## **EXPRESSION OF INTEREST (EOI) FOR DEVELOPMENT & IMPLEMENTATION OF AI/ML-DRIVEN SOLUTION FOR MONITORING HOSPITAL SERVICES**

**For Development & Implementation of AI/ML-Driven solution for Monitoring Sanitation, Security, and other Pest & Rodent control services in DME and DSH Institutes in the state of Andhra Pradesh**

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# 1. Introduction

## 1.1 Overview of the Expression of Interest (EOI)

The Andhra Pradesh Medical Services & Infrastructure Development Corporation (APMSIDC), representing the Department of Health, Medical and Family Welfare (DoHM&FW) of the Government of Andhra Pradesh (GoAP), invites Expressions of Interest (EOI) from reputable and experienced agencies. The objective is to design, development, and implementation of a cutting-edge solution utilizing Artificial Intelligence (AI) and Machine Learning (ML) technologies. This solution will focus on monitoring and managing various operational aspects within the state all DME Institute and DSH Hospitals.

The primary responsibility of the proposed vendor will be to implement a system that integrates AI and ML technologies to monitor key operational areas across medical colleges and DSH Hospitals in Andhra Pradesh. The system will cover critical areas such as sanitation/House Keeping, security, pest and rodent control, linen maintenance. Through the use of AI and ML algorithms, the system will process images and videos captured within healthcare facilities to assess and rate cleanliness levels in real-time. This approach will allow for immediate feedback and data-driven insights, facilitating prompt interventions and continuous improvement in the healthcare environment. streamline the monitoring and evaluation of hygiene practices, ensuring these institutions maintain optimal sanitary conditions and provide marking based on the criteria of marking specify for sanitation/Housekeeping ,Security services and pest & rodent control service performing at DME and DSH institute in the Govt of AP, that contribute to the well-being of staff, students, and patients.

The GoAP seeks to collaborate with agencies that have demonstrated expertise in deploying AI/ML-driven solutions, particularly in the areas of image and video analysis. The ideal partner should possess the necessary technical know-how and experience to develop and implement a solution that can enhance operational efficiency and improve service delivery standards across medical colleges. The capacity to analyse visual data and translate it into actionable insights will be a critical component of the system's functionality, ensuring a high level of accuracy and responsiveness in maintaining hygienic, secure, and well-managed healthcare environments.

The GoAP is fully committed to improving the standards of healthcare services within the state. A key aspect of this commitment is ensuring the maintenance of hygienic, safe, and well-organized healthcare facilities. By embracing technological advancements, the government aims to create a transformative system that not only monitors the conditions of healthcare facilities but also leverages AI and ML to intelligently assess and enhance the overall cleanliness and maintenance of medical colleges and hospitals. This initiative represents a significant step forward in realizing a digitally empowered healthcare ecosystem that prioritizes efficiency, quality, and transparency.

The proposed AI/ML-driven solution aligns with the broader vision of the GoAP to promote transparency, accountability, and excellence in public service delivery. Through the use of technology, the GoAP aims to raise the bar for healthcare management, ensuring that medical colleges and hospitals are not only well-maintained but also able to operate with greater efficiency. This initiative is integral to the government's overarching goal of transforming public healthcare services in the state and fostering an ecosystem that supports continuous improvement and innovation in healthcare delivery.

**Details of Tender Process:**

<b>1.</b>	<b>Downloading of documents</b>	<b>from 07-02-2025</b> <b>Website - <a href="http://msidc.ap.nic.in">http://msidc.ap.nic.in</a></b>
<b>2.</b>	<b>Due date for Receipt of EOI</b>	<b>24-02-2025 up to 03.00 PM</b>
<b>3.</b>	<b>Time and date of opening of technical Bids</b>	<b>24-02-2025 @ 5.00 PM</b>
<b>4</b>	<b>Date of Presentation at APMSIDC</b>	<b>Will be intimated latter.</b>

## 1.2 Purpose and Objectives of the Bidder

The primary purpose of bidder to design, development, implementation, and operationalization of an advanced AI/ML-based system designed to automatically analyse images and videos. This system will assess and rate the cleanliness and hygiene standards in medical colleges and hospitals including required manpower for running the system. The aim is to streamline the monitoring and evaluation of hygiene practices, ensuring these institutions maintain optimal sanitary conditions that contribute to the well-being of staff, students, and patients.

The key objectives of the bidder are as follows:

- Create and deploy an AI/ML solution that is capable of accurately evaluating cleanliness and hygiene levels by analysing photographic and video data. The system should be designed to deliver precise, consistent assessments that are aligned with industry standards.
- Develop and implement a robust monitoring framework that leverages AI/ML for real-time analysis and reporting. This system will continuously assess hygiene conditions, providing insights into areas of concern and maintaining a real-time overview of sanitation practices.
- Ensure the AI/ML solution is sophisticated enough to differentiate between various levels of cleanliness, identifying specific areas that require attention. This will enable targeted interventions and improve overall hygiene management in medical colleges and hospitals.

- Focus on training the AI/ML model to achieve high accuracy, reliability, and consistency in its assessments. This will include incorporating continuous learning capabilities, allowing the model to improve over time and adapt to changing conditions and requirements.
- Design an intuitive dashboard and mobile app that integrates seamlessly with the AI/ML system, enabling stakeholders to easily access data and insights. This dashboard will provide a clear and actionable overview of cleanliness and hygiene standards, facilitating effective decision-making.
- Establish a system for monitoring the performance of service providers responsible for sanitation/House Keeping, security, and Pest & Rodent control services. This will be based on defined Key Performance Indicators (KPIs) to ensure service delivery meets required standards and expectations.
- Ensure the AI/ML system delivers real-time data and analytics that can be used to inform decision-making. This will enhance the ability of stakeholders to address emerging issues promptly and make data-driven improvements.
- Guarantee that the AI/ML system complies with all relevant statutory and regulatory requirements governing hygiene standards in medical institutions. This includes ensuring that the system meets health and safety standards at all levels of operation.
- Drive ongoing improvements in service delivery and hygiene standards by leveraging the insights provided by the AI/ML system. By analysing trends and identifying areas for enhancement, the bidder will contribute to the continuous refinement of operational processes and the overall quality of services provided.

### 1.3 Scope of Work

The bidder will be responsible for the overall development, implementation, and management of a cutting-edge AI/ML-driven monitoring system tailored for sanitation/House Keeping, security, and Pest & Rodent control services across a selection of 41 Centres under Director of Medical Education teaching/specialty hospitals, and 242 centre under Director of secondary Health including district hospitals (DHs), Area Hospital, CHC, PHC within the state of Andhra Pradesh. List attached in Annexure -1 The scope of work for the bidder includes, but is not limited to, the following key components:

- **AI/ML Solution Development:** Design and develop a sophisticated AI/ML solution focused on image and video analysis to assess the cleanliness, hygiene, security, security, and pest & Rodent control service parameters within healthcare facilities. This will encompass the creation of custom algorithms, model training, and rigorous validation procedures to ensure the accuracy and effectiveness of the solution.

- **Technology Platform Implementation:** Deploy the AI/ML solution on a robust, scalable, and secure technology platform, ensuring that the system can handle the requirements of multiple healthcare facilities while maintaining performance and reliability.
- **Campus Maintenance System Integration:** Develop and integrate a comprehensive digital system for campus maintenance, which will leverage the capabilities of AI/ML to optimize maintenance workflows, track cleanliness, and monitor service delivery efficiency.
- **Monitoring Framework Development:** Create and implement a detailed monitoring framework that effectively utilizes the AI/ML outputs. This framework will guide the assessment of sanitation /House Keeping, security, and other allied services, ensuring the system's data is used to continuously improve service delivery.
- **Real-Time Monitoring and Analysis:** Utilize advanced AI/ML models for real-time monitoring, including photo and video analysis, to evaluate the cleanliness, hygiene, and security conditions within the facilities. This will enable the bidder to swiftly address issues as they arise.
- **Regular Inspections and Audits:** Conduct frequent inspections and audits of service delivery across the healthcare facilities, utilizing the AI/ML system as the primary tool for evaluation. These audits will assess adherence to quality standards and identify areas requiring corrective actions.
- **Service Provider Performance Verification:** Employ AI/ML-based assessments to verify the performance of service providers against pre-established Key Performance Indicators (KPIs). This data-driven approach will ensure that service providers meet the required standards consistently.
- **Reporting and Compliance:** Generate periodic reports that provide detailed insights into service performance, compliance, and areas for improvement. These reports will be derived from AI/ML-based analysis and will include actionable recommendations.
- **Identification and Addressing of Service Gaps:** Leverage AI/ML-driven insights to identify any gaps in service delivery or areas needing improvement. The bidder will then develop and implement corrective measures to enhance service quality and efficiency.
- **Stakeholder Management:** Manage relationships with all relevant stakeholders, ensuring effective communication, alignment, and collaboration throughout the project. The bidder will maintain transparent communication channels to keep stakeholders informed of progress and any emerging challenges.
- **Training and Capacity Building:** Provide comprehensive training and capacity-building sessions for service providers and stakeholders on the use of the AI/ML system. This will empower them to effectively utilize the technology and enhance service delivery across the healthcare facilities.

## 1.4 Rationale for the Project

The DoHM&FW, GoAP acknowledges the pivotal role of technology in revolutionizing healthcare delivery systems. Recognizing the transformative potential of advanced technologies such as AI and ML, this initiative aims to elevate the standards of cleanliness, hygiene, and safety within medical colleges across the state. Traditional monitoring mechanisms, which are predominantly manual, subjective, and labour-intensive, often fall short in delivering the level of precision and consistency required in modern healthcare environments.

In contrast, an AI/ML-driven monitoring framework provides an objective, automated, and continuous assessment system. This approach enhances operational efficiency, ensures greater accuracy in observations, and fosters a culture of accountability within healthcare institutions. Given the substantial investments being made in the healthcare sector, it is imperative to establish a robust mechanism that not only tracks these investments but also ensures their effective utilization for the intended outcomes.

The bidder with a dedicated focus on AI/ML applications will play a critical role in realizing this vision. By embedding technology into monitoring processes, will drive accountability, transparency, and optimized resource utilization, thereby maximizing the impact of the government's investment in healthcare infrastructure. This initiative underscores the government's commitment to leveraging cutting-edge technologies to improve public health outcomes and set new benchmarks in medical education and Health department service delivery.

## 2. Eligibility Criteria

### 2.1 General Eligibility Conditions

- **Legal Registration:** The bidding entity must be legally established and registered in India in accordance with applicable laws. This includes entities such as companies, Limited Liability Partnerships (LLPs), or partnership firms or Individual Firm.
- **Operational Experience:** The bidder must demonstrate a proven track record of operating continuously for *at least five (5) years within a similar domain or the Information Technology (IT) sector, showcasing relevant expertise and experience.*
- **Clean Track Record:** The bidder must maintain a clean professional record, with no history of being blacklisted or debarred by any government agency or public sector organization in India at any point in time.
- **Statutory Compliance:** The bidder is required to hold valid statutory registrations, including a Permanent Account Number (PAN) and Goods and Services Tax (GST) registration, in accordance with prevailing regulatory requirements.
- **Conflict of Interest:** The bidder must ensure there are no conflicts of interest as outlined in the EOI document, adhering fully to the terms and conditions specified therein.
- **Turnover:** The bidder should have average annual turnover of 50 Cr. in the last three years i.e. 2021-22, 2022-23 and 2023-24.
- (The Turnover criteria is exempted for the startup as per GoI Guidelines)

### 2.2 Technical Eligibility Criteria

- **Demonstrated Experience in AI/ML Solutions:** The bidder must exhibit proven expertise in developing and implementing AI and ML solutions, with a particular focus on image and video analysis applications tailored for monitoring and evaluation purposes.
- **Successful Project Implementation:** The bidder must have a track record of successfully completing at least two projects involving AI/ML-driven image and video analysis, preferably in contexts such as cleanliness monitoring, surveillance, or other similar applications.
- **Expertise in Real-World Applications:** The bidder must demonstrate robust capabilities in developing and deploying AI/ML models for practical, real-world applications.
- **Experience in Managing Large-Scale Projects:** The bidder should have substantial experience managing large-scale projects that involve coordination with multiple stakeholders.
- **Qualified and Experienced Team:** The bidder must possess a well-qualified and experienced team with specialized expertise in AI/ML technologies, software development, and project management.
- **Additional Preferential Qualifications:** Preference will be given to bidders who can demonstrate experience in:



- Working within the healthcare sector.
- Integrating data from medical equipment and associated services.
- Developing solutions for government or public sector organizations.

### 2.3 Financial Eligibility Criteria

- **Financial Stability:** The bidder is required to exhibit strong financial health, affirming their capacity to successfully execute the project. This includes evidence of adequate financial resources and stability.
- **Submission of Financial Documents:** The bidder must furnish audited financial statements for the most recent three financial years as proof of their financial standing and compliance with the specified criteria.

### 2.4 Compliance with Applicable Laws and Regulations

The bidder must comply with all applicable laws and regulations in India, including but not limited to labour laws, environmental regulations, and data privacy laws.

## 3. Key Deliverables and Responsibilities

### 3.1 Specific Responsibilities of the Bidder

- Develop a detailed project plan for the development, implementation, and operationalization of the AI/ML-driven monitoring system.
- Design, develop, train, and validate AI/ML models for accurate image and video analysis to assess cleanliness, hygiene, and potentially other service parameters.
- Deploy the AI/ML solution on a secure, scalable, and reliable technology platform.
- Establish a robust monitoring framework that leverages the AI/ML outputs for real-time monitoring and reporting.
- Implement technology-driven monitoring solutions, integrating the developed AI/ML-based photo and video analysis capabilities.
- Conduct regular inspections and audits to ensure service quality and compliance, utilizing the AI/ML system as a primary assessment tool.
- Develop and implement KPIs for service providers, incorporating AI/ML-based metrics.
- Generate periodic reports on service performance, compliance, and areas for improvement, with insights derived from the AI/ML analysis.
- Provide training and capacity building to service providers and stakeholders on the effective use of the AI/ML system.
- Manage stakeholder relationships and ensure effective communication.
- Develop and maintain a comprehensive database of service-related information, including the data used for training and validating the AI/ML models.
- Ensure compliance with all applicable laws and regulations.

### 3.2 Reporting and Monitoring Mechanisms

The Bidder will be required to submit regular reports to the official designated by APMSIDC as per the agreed-upon reporting schedule. The reporting mechanism will include:

- Monthly progress reports detailing activities undertaken (including AI/ML model development progress), progress achieved, challenges faced, and mitigation measures.
- Quarterly performance reports summarizing service performance against KPIs, compliance status, and areas for improvement, with a focus on insights derived from the AI/ML analysis.
- Ad-hoc reports as required by APMSIDC.
- Regular meetings with APMSIDC to review progress and address any issues.
- Bidder Should have office preferably in the AP, if not then office must be opened before concluding the contract agreement.

### 3.3 Performance Evaluation Criteria

The performance of the will be evaluated based on the following criteria:

- Timely completion of deliverables as per the agreed-upon timelines.
- Accuracy, reliability, and effectiveness of the developed AI/ML models in assessing cleanliness and other parameters.
- Effectiveness of the overall monitoring framework and technology implementation.
- Improvement in service quality and compliance based on monitoring data, particularly the AI/ML-driven assessments.
- Stakeholder satisfaction and feedback.
- Compliance with reporting requirements and contractual obligations.
- Adherence to budget and cost-effectiveness.

## 4. Terms and Conditions of Engagement

### 4.1 Duration of the Engagement

The initial duration of the engagement will be for a period of **two (02) years**, with the possibility of extension based on satisfactory performance and mutual agreement.

### 4.2 Legal Framework for the Engagement

The engagement will be governed by a formal contract between APMSIDC and the selected bidder. The contract will be in accordance with Indian laws, and any disputes will be subject to the jurisdiction of courts in Andhra Pradesh.

### 4.3 Roles and Responsibilities of the Selected Bidder

The selected bidder will be responsible for:

- Developing, implementing, and operationalizing the AI/ML-driven monitoring system as per the agreed-upon scope of work.
- Recruiting and managing qualified personnel for the bidder, with a strong emphasis on AI/ML expertise.
- Ensuring the timely and effective delivery of all services outlined in the contract.

- Maintaining confidentiality of all project-related information, especially the data used for AI/ML model training.
- Complying with all applicable laws and regulations.
- Cooperating fully with APMSIDC and other stakeholders.
- Managing project risks and implementing mitigation measures.

#### 4.4 Compliance with GFR and Government Regulations

The selected bidder must comply with the General Financial Rules (GFR) and all other relevant government regulations applicable to public procurement in India. The bidder will also be responsible for obtaining any necessary approvals or clearances required for the project.

## 5. Technical Proposal Guidelines

### 5.1 Format and Content of the Technical Proposal

The technical proposal should be meticulously structured to present a comprehensive and professional response. It must be organized into several distinct sections, each addressing a specific requirement as outlined in the EOI. The structure should include the following sections:

- **Cover Letter:** The cover letter should serve as a succinct introduction to the bidding entity. It must include a brief overview of the organization's background and capabilities, showcasing relevant experience and expertise. Additionally, the cover letter should contain a formal statement of intent, affirming the entity's commitment to participating in the EOI process and its willingness to engage in the proposed project.
- **Executive Summary:** The executive summary should provide a concise yet informative overview of the proposed approach, with a strong emphasis on the AI/ML solution. It must highlight the core functionalities of the solution and its potential impact. The summary should be focused on showcasing the value proposition of the AI/ML solution, demonstrating how it will address the key challenges outlined in the EOI and deliver measurable benefits.
- **Company Profile:** This section should offer a detailed description of the bidding entity, providing key information that underscores the organization's qualifications. This includes the legal status, registration details, and the years of operation. Additionally, the organizational structure should be clearly outlined to demonstrate how the company is equipped to manage and execute large-scale projects. The company profile should also provide an overview of the entity's operational capabilities, resources, and track record in executing similar projects.
- **Relevant Experience:** A critical section of the technical proposal, the relevant experience section should demonstrate the bidding entity's expertise in the development and implementation of AI/ML solutions, particularly in the domain of image and video analysis. This includes:
  - A clear description of past projects, specifically focusing on cleanliness monitoring, surveillance, or any other applications that align with the proposed solution.
  - Information regarding the project timeline and the outcomes achieved, such as improvements in efficiency, accuracy, or other measurable impacts.
  - References from past clients that validate the entity's performance and capabilities in delivering similar AI/ML-based solutions.
  - A breakdown of the specific AI/ML techniques and models used in past projects, such as Convolutional Neural Networks (CNNs) or other relevant methodologies.

- **Technical Approach and Methodology:** This section should provide a comprehensive description of the proposed approach for developing and implementing the AI/ML-driven monitoring system. It should include the following key elements:
  - A detailed explanation of the process for AI/ML model development, covering each stage, including data collection, preprocessing, algorithm selection, model training, validation, and testing. This section should outline the strategies used to ensure high-quality model development and performance.
  - A specification of the AI/ML techniques that will be utilized in the proposed solution. This could include advanced techniques such as Convolutional Neural Networks (CNNs) for image recognition or Recurrent Neural Networks (RNNs) for sequential data analysis.
  - A description of the technology platforms, tools, and infrastructure that will be employed to deploy the AI/ML solution. This includes both software and hardware considerations, ensuring the proposed system is scalable, secure, and reliable.
  - A detailed plan outlining how the AI/ML solution will be integrated with existing systems and infrastructure, particularly the Command and Control Center. This should cover technical requirements, timelines, and any necessary customizations.
  - A comprehensive plan for ensuring the AI/ML system's ongoing performance and reliability. This should include testing, validation procedures, and metrics for monitoring system efficiency and accuracy over time.
- **Team Composition and Expertise:** The proposal should provide profiles of key personnel proposed for the Project. This includes detailing their qualifications, roles, and experience in relevant fields such as AI/ML, software development, project management, sanitation/House Keeping, and security. Emphasis should be placed on the team's expertise in developing and deploying AI/ML models for real-world applications, demonstrating their capacity to effectively manage and deliver the proposed solution.
- **Project Plan:** The project plan should present a detailed and realistic timeline that outlines key activities, milestones, and resource allocation for the entire project. Special attention should be given to the milestones associated with AI/ML model development and system deployment. The timeline should be structured in such a way that it is easy to track progress and ensure timely completion of the project, with appropriate resources allocated at each stage.
- **Compliance Matrix:** A compliance matrix should be included as a table that clearly demonstrates how the bidding entity meets all the eligibility criteria and other specific requirements outlined in the EOI. The matrix should provide a quick reference for evaluators to assess whether the entity is fully compliant with the necessary technical, operational, and regulatory requirements.

## 5.2 Required Documentation for the Technical Proposal

To ensure a complete and thorough evaluation of the technical proposal, the following documentation must be submitted by the bidder:

- **Certificate of Incorporation/Registration:** The bidder must provide a copy of the Certificate of Incorporation or Registration, which serves as official proof of the organization's legal standing and existence. This document is essential for validating the bidder's formal registration and ensuring compliance with relevant business regulations.
- **PAN and GST Registration Certificates:** A copy of the PAN (Permanent Account Number) and GST (Goods and Services Tax) registration certificates must be included. These certificates are necessary to confirm the bidder's tax compliance and eligibility to engage in commercial transactions in accordance with Indian tax laws.
- **Audited Financial Statements for the Last Three Financial Years:** The bidder must submit the audited financial statements for the last three financial years. These documents provide an overview of the financial health of the bidder's organization, demonstrating its stability and capacity to execute the proposed project effectively.
- **Experience Certificates or Client Testimonials:** The bidder is required to provide experience certificates or client testimonials that specifically highlight their expertise in AI/ML projects. This documentation should focus on projects involving image and video analysis, showcasing the bidder's proficiency and successful track record in handling such specialized work.
- **CVs of Key Personnel:** A detailed curriculum vitae (CV) for each key personnel involved in the project must be submitted, with a clear emphasis on their AI/ML expertise. The CVs should demonstrate the technical qualifications, relevant experience, and skill sets of the personnel, ensuring their capability to contribute effectively to the success of the project.
- **Additional Supporting Documents:** The bidder may also include any other relevant documents that support their claims, particularly those that emphasize their capabilities in AI/ML technologies. These documents may include case studies, technical papers, or certifications that further validate the bidder's qualifications and suitability for the project.

## 5.3 Evaluation Criteria for Technical Proposal

The evaluation of technical proposals will be conducted based on several critical criteria. Each criterion is assigned a specific weightage to ensure that all aspects of the proposal are adequately assessed. The following table outlines the key evaluation criteria and their respective weightage:

Criteria	Weightage
Relevant Experience in AI/ML Solution Development (Image/Video Analysis)	40%

Criteria	Weightage
<p><i>This criterion evaluates the extent to which the proposer demonstrates relevant experience in the development of AI/ML solutions, specifically for image and video analysis applications. Proposals will be assessed on the quality and depth of prior work, including successfully completed projects, relevant case studies, and demonstrated expertise in solving challenges similar to the proposed project.</i></p>	
<p><b>Technical Approach and Methodology (including AI/ML specifics)</b></p> <p><i>Proposals will be evaluated based on the clarity, feasibility, and innovation of the technical approach and methodology outlined for the project. Special attention will be given to the application of AI/ML technologies, algorithms, frameworks, and tools to address the problem at hand. The robustness of the proposed solution, including scalability and adaptability to different environments, will also be considered.</i></p>	<p><b>30%</b></p>
<p><b>Team Composition and Expertise (including AI/ML expertise)</b></p> <p><i>The composition of the team, including their qualifications and experience in AI/ML, will be assessed in this category. Proposals should highlight the specific expertise of key team members, their relevant technical skills, and their ability to execute the proposed solution. The overall competence of the team, including any partnerships with specialized experts or institutions, will play a crucial role in this evaluation.</i></p>	<p><b>20%</b></p>
<p><b>Technical Presentation and Demonstration of Proposed Solutions</b></p> <p><i>This criterion focuses on the quality of the technical presentation and the effectiveness of the demonstration of the proposed solution. Evaluators will consider how well the proposer communicates their approach, the clarity of the explanation, and the ability to showcase the solution's potential impact. The demonstration should highlight the solution's functionality, relevance, and suitability for the intended use case.</i></p>	<p><b>10%</b></p>

## 5.4 Technical Presentation and Demonstration Requirements

Shortlisted bidders may be required to participate in a formal technical presentation and demonstration of their proposed solutions. This session is a critical step in evaluating the technical capabilities and suitability of the proposed solutions for the project. Bidders must provide a comprehensive overview of their approach, detailing the composition and size of the team, the manpower requirements, and the specific technical expertise of the team members.

The technical presentation must clearly demonstrate the technologies and platforms that bidders plan to implement as part of the proposed project. It should outline the functionalities of these solutions, showcasing how they align with the project's goals. In addition, bidders are expected to provide detailed insights into their methodologies and the underlying technological architecture. This



will serve as an opportunity to explain how their solutions will meet the project's objectives, particularly in terms of technical performance, scalability, and operational feasibility.

The presentation should also include a demonstration of the functionality of the proposed solutions, giving bidders the opportunity to engage in interactive Q&A sessions. This exchange will facilitate an in-depth discussion, allowing bidders to clarify any aspects of their approach and providing evaluators with a deeper understanding of how the solutions will operate in real-world conditions. The Q&A will also enable bidders to address any concerns raised by the evaluators and strengthen their case for the proposed solution.

Bidders are encouraged to emphasize their expertise in advanced technologies, particularly in the areas of AI and ML. A key focus of the demonstration should be on how these technologies will be applied for image and video analysis, with an emphasis on assessing cleanliness effectively. Demonstrating the practical application of AI and ML in these contexts will be crucial in showcasing the innovation and efficiency of the proposed solutions.

Beyond the technical aspects, it is essential for bidders to highlight the practical implementation of their solutions. The presentation should include detailed plans for the deployment of the proposed technologies, illustrating their scalability and adaptability to the unique requirements of the project. Bidders should address how their solutions can efficiently meet the project goals, ensuring alignment with the anticipated outcomes and demonstrating the potential for long-term success.

The exact date, time, and location for the technical presentations and demonstrations will be communicated to shortlisted bidders in advance. This ensures that bidders have adequate time to prepare and deliver well-structured, comprehensive presentations. The goal is to enable bidders to clearly showcase the capabilities of their proposed solutions, providing evaluators with the necessary information to make informed decisions based on the bidders' technical proficiency and ability to meet the project's requirements.

## 6. Evaluation and Selection Process

The evaluation and selection process for this project will be conducted in a structured and transparent manner to ensure that the most qualified bidders are selected based on their technical and financial capabilities. This process will be carried out in two distinct stages: technical evaluation followed by financial evaluation. Bidders will be evaluated on the basis of their expertise in AI/ML-based image and video analysis, which is a key criterion for the success of this project.

### 6.1 Evaluation Criteria for Short listing Bidders

Bidders will initially be shortlisted based on the strength and quality of their technical proposals. Only those who meet the minimum technical standards will be considered for the next stage, where their financial proposals will be evaluated. A strong emphasis will be placed on the bidder's demonstrated experience and capabilities in the application of AI/ML technologies, particularly in image and video analysis, as this expertise is crucial for the project's objectives.

### 6.2 Process for Technical Evaluation.

The evaluation process will unfold in two phases:

- **Technical Evaluation:** The first phase involves the review of technical proposals. Bidders' proposals will be assessed according to the specific criteria outlined in Section 5.3. To proceed to the next phase, bidders must score above a minimum threshold of 70%. This threshold has been set higher to emphasize the critical role that AI/ML expertise will play in the successful implementation of the project.

### 6.3 Conflict of Interest Declaration

All bidders must declare any potential conflicts of interest that may arise during the course of the project. Failure to disclose such conflicts could result in disqualification from the bidding process. This is to ensure transparency and maintain the integrity of the evaluation process.

### 6.4 Clarification Process

Bidders may seek clarifications regarding the EOI document by submitting written queries to the designated contact person. It is important that bidders review the EOI thoroughly and reach out for clarifications at the earliest to avoid delays in the submission process. Bidders must submit their proposals in both electronic and physical formats. All submitted documents should be complete, accurately filled out, and well-organized to facilitate an efficient evaluation process. It is

recommended that bidders carefully review their submissions to ensure completeness and clarity before submission.

**Submission Address:** All proposals should be submitted to the following address:

**The Managing Director**

Andhra Pradesh Medical Services & Infrastructure Development Corporation (APMSIDC)

Department of Health, Medical and Family Welfare (DoHM&FW)

Government of Andhra Pradesh (GoAP)

2nd Floor, Survey No.09, It Park, Phycare Building

Mangalagiri, Guntur – 522503

Website: <https://apmsidc.ap.nic.in/>

Email: apmsidcsanitation@gmail.com

Mobile Phone: 8130333755 / 8978680707

For Any clarification bidder may contact in the number given.

Please ensure that all required documents are submitted to the address specified above, following the outlined submission format, to ensure that the proposal is accepted and processed in a timely manner.

**OFFICE OF THE DIRECTOR MEDICAL EDUCATION, AP,VIJAYAWADA**

<b>S.NO</b>	<b>District</b>	<b>Name of the Hospital</b>
1	Srikakulam	Kidney Institute Palasa
2	Srikakulam	GGH Srikakulam
3	Vizianagaram	GGH Vizianagaram
5	Vishakapatnam	KGH Vishakapatnam
6	Vishakapatnam	VGH, Visakhapatnam
7	Vishakapatnam	GHMC, Visakhapatnam
8	Vishakapatnam	RCD, Visakhapatnam
9	Vishakapatnam	REH, Visakhapatnam
10	Vishakapatnam	GHCCD, Visakhapatnam
11	Vishakapatnam	VIMS, Visakhapatnam
12	Vishakapatnam	Govt ENT Hospital
13	Kakinada	GGH Kakinada
14	East Godavari	GGH Rajahmundry
15	Eluru	GGH Eluru
16	NTR	GGH Vijayawada
17	Krishna	GGH Machilipatnam
18	Guntur	GGH Guntur
19	Guntur	GHCCD,Guntur
20	Prakasham	GGH Ongole
21	Nellore	GGH Nellore
22	Tirupati	SVRRGGH Tirupati
23	Tirupati	GMH, Tirupati
24	YSR Kadapa	GGH Kadapa
25	Kurnool	GGH Kurnool
26	Kurnool	REH, Kurnool
27	Nandyal	GGH Nandyal
28	Ananthapur	GGH Ananthapuram
30	ASR	GGH Paderu
31	Prakasham	GGH Markapuram
32	Annamayya	GGH Madanapalli
33	YSR Kadapa	GGH Pulivendala
34	Kurnool	GGH Adoni
36	YSR Kadapa	IMH Kadapa
37	YSR Kadapa	SSH Kadapa
38	YSR Kadapa	CCC KADAPA
39	Guntur	YV CCC
40	Kurnool	SCI
41	Guntur	GH Mangalagiri

## DSH, Hospitals

Sl.No	District	Facility type	Name of the Facility
1	Srikakulam	D.H.	TEKKALI
2	Srikakulam	A.H.	NARASANNAPETA
3	Srikakulam	C.H.C.	PATHAPATNAM (T)
4	Srikakulam	C.H.C.	PALASA
5	Srikakulam	C.H.C.	ITCHAPURAM
6	Srikakulam	C.H.C.	BARUVA
7	Srikakulam	C.H.C.	SOMPETA
8	Srikakulam	C.H.C.	KOTA BOMMALI
9	Srikakulam	C.H.C.	RANASTHALAM
10	Srikakulam	C.H.C.	Budithi
11	Srikakulam	C.H.C.	Ponduru
12	Srikakulam	C.H.C.	Amudalavalasa
13	Srikakulam	C.H.C.	Kotturu
14	Srikakulam	C.H.C.	Kaviti
15	Srikakulam	C.H.C.	Haripuram
	<b>Srikakulam</b>		<b>15 District Total</b>
1	Parvathipuram Manyam	D.H.	PARVATIPURAM (T)
2	Parvathipuram Manyam	A.H.	PALAKONDA
3	Parvathipuram Manyam	A.H.	Seethampeta
4	Parvathipuram Manyam	A.H.	Saluru
5	Parvathipuram Manyam	C.H.C.	Kurupam
6	Parvathipuram Manyam	C.H.C.	Bhadragiri
7	Parvathipuram Manyam	C.H.C.	Chinamerangi
	<b>Parvathipuram Manyam</b>		<b>7 District Total</b>
1	Vizianagaram	A.H.	RAJAM
2	Vizianagaram	A.H.	S.KOTA
3	Vizianagaram	A.H.	GAJAPATINAGARAM
4	Vizianagaram	C.H.C.	BADANGI
5	Vizianagaram	A.H.	Cheepurupalli
6	Vizianagaram	C.H.C.	Bobbili
7	Vizianagaram	C.H.C.	Nellimarla
8	Vizianagaram	C.H.C.	BHOGAPURAM
	<b>Vizianagaram</b>		<b>8 District Total</b>
1	Visakhapatnam	A.H.	AGANAMPUDI
2	Visakhapatnam	C.H.C.	Bheemunipatnam
3	Visakhapatnam	C.H.C.	Pendurthi
4	Visakhapatnam	C.H.C.	Gopalapatnam
	<b>Visakhapatnam</b>		<b>4 District Total</b>
1	Anakapalli	D.H.	ANAKAPALLI
2	Anakapalli	A.H.	NARSIPATNAM
3	Anakapalli	C.H.C.	KOTAPADU
4	Anakapalli	C.H.C.	KOTAURATLA
5	Anakapalli	C.H.C.	NAKKAPALLI
6	Anakapalli	C.H.C.	Yelamanchili
7	Anakapalli	C.H.C.	V.Madugula
8	Anakapalli	C.H.C.	Chodavaram
	<b>Anakapalli</b>		<b>8 District Total</b>

Sl.No	District	Facility type	Name of the Facility
1	Alluri Seetha Rama Raju	A.H.	ARAKU (T)
2	Alluri Seetha Rama Raju	A.H.	Chintapalli
3	Alluri Seetha Rama Raju	A.H.	R.CHODAVARAM (T)
4	Alluri Seetha Rama Raju	C.H.C.	Chintoor
5	Alluri Seetha Rama Raju	C.H.C.	Munchingput
6	Alluri Seetha Rama Raju	C.H.C.	Y.RAMAVARAM
7	Alluri Seetha Rama Raju	C.H.C.	Addateegala
8	Alluri Seetha Rama Raju	C.H.C.	Kunavaram
	<b>Alluri Seetha Rama Raju</b>		<b>8 District Total</b>
1	East Godavari	A.H.	ANAPARTHY
2	East Godavari	C.H.C.	KOVVUR
3	East Godavari	C.H.C.	Kadiyam
4	East Godavari	C.H.C.	Gopalapuram
5	East Godavari	C.H.C.	Nidadavolu
6	East Godavari	C.H.C.	Gokavaram
	<b>East Godavari</b>		<b>6 District Total</b>
1	Kakinada	A.H.	TUNI
2	Kakinada	C.H.C.	PEDDAPURAM
3	Kakinada	C.H.C.	PRATHIPADU
4	Kakinada	C.H.C.	Yeleswaram
5	Kakinada	C.H.C.	Pithapuram
6	Kakinada	C.H.C.	Samalkot
7	Kakinada	C.H.C.	Pedapudi
8	Kakinada	C.H.C.	Thallarevu
9	Kakinada	C.H.C.	Jaggampeta
10	Kakinada	C.H.C.	Rowthulapudi
	<b>Kakinada</b>		<b>10 District Total</b>
1	Konaseema	A.H.	AMALAPURAM
2	Konaseema	A.H.	RAMCHANDRAPURAM
3	Konaseema	C.H.C.	RAZOLE
4	Konaseema	C.H.C.	KOTHAPET
5	Konaseema	C.H.C.	P.Gannavaram
6	Konaseema	C.H.C.	Mandapeta
7	Konaseema	C.H.C.	Alamuru
8	Konaseema	C.H.C.	Kapileswarapuram
9	Konaseema	C.H.C.	Mummidivaram
10	Konaseema	C.H.C.	Allavaram
11	Konaseema	C.H.C.	T. Kothapalli
	<b>Konaseema</b>		<b>11 District Total</b>
1	West Godavari	D.H.	TANUKU
2	West Godavari	A.H.	TADEPALLIGUDEM
3	West Godavari	A.H.	NARSAPURAM
4	West Godavari	A.H.	PALAKOLE
5	West Godavari	A.H.	BHIMAVARAM
6	West Godavari	C.H.C.	Penugonda
7	West Godavari	C.H.C.	Achanta
8	West Godavari	C.H.C.	Akiveedu
	<b>West Godavari</b>		<b>8 District Total</b>
1	Eluru	A.H.	JANGAREDDYGUDEM

Sl.No	District	Facility type	Name of the Facility
2	Eluru	A.H.	CHINTALAPUDI
3	Eluru	A.H.	NUZIVEEDU
4	Eluru	C.H.C.	Kaikaluru
5	Eluru	C.H.C.	Denduluru
6	Eluru	C.H.C.	Polavaram
7	Eluru	C.H.C.	Buttaigudem
8	Eluru	C.H.C.	Bhimadole
	<b>Eluru</b>		<b>8 District Total</b>
1	Krishna	A.H.	GUDIVADA
2	Krishna	C.H.C.	AVANIGADDA
3	Krishna	C.H.C.	VUYUURU
4	Krishna	C.H.C.	Guduru
5	Krishna	C.H.C.	Challapalli
6	Krishna	C.H.C.	Gannavram
7	Krishna	C.H.C.	Kankipadu
8	Krishna	C.H.C.	Pamarru
	<b>Krishna</b>		<b>8 District Total</b>
1	NTR	A.H.	NANDIGAMA
2	NTR	C.H.C.	THIRUVURU
3	NTR	C.H.C.	MYLAVARAM
4	NTR	C.H.C.	Jaggaiahpeta
5	NTR	C.H.C.	Visannapeta
6	NTR	C.H.C.	Shaik Raja
7	NTR	CD	APVVP Head Office Gollapudi
	<b>NTR</b>		<b>7 District Total</b>
1	Guntur	D.H.	TENALI
2	Guntur	C.H.C.	Prathipadu
3	Guntur	C.H.C.	Kollipara
4	Guntur	C.H.C.	Ponnuru
5	Guntur	CD	AP Secretariat Velagapudi
	<b>Guntur</b>		<b>5 District Total</b>
1	Bapatla	A.H.	BAPATLA
2	Bapatla	A.H.	CHIRALA
3	Bapatla	C.H.C.	REPALLE
4	Bapatla	C.H.C.	Nizampatnam
5	Bapatla	C.H.C.	Nagaram
6	Bapatla	C.H.C.	P.V.Palem
7	Bapatla	C.H.C.	Vemuru
8	Bapatla	C.H.C.	Parchuru
9	Bapatla	C.H.C.	Addanki
10	Bapatla	C.H.C.	Marturu
	<b>Bapatla</b>		<b>10 District Total</b>
1	Palnadu	A.H.	NARASARAOPET
2	Palnadu	A.H.	SATTENAPALLI
3	Palnadu	A.H.	CHILAKALURIPET
4	Palnadu	C.H.C.	MACHERLA
5	Palnadu	C.H.C.	AMARAVATHI
6	Palnadu	C.H.C.	VIJAPURI SOUTH
7	Palnadu	C.H.C.	Pedakurapadu

Sl.No	District	Facility type	Name of the Facility
8	Palnadu	C.H.C.	Gurazala
9	Palnadu	C.H.C.	Ipuru
10	Palnadu	C.H.C.	Vinukonda
	<b>Palnadu</b>		<b>10 District Total</b>
1	Prakasam	A.H.	GIDDALURU
2	Prakasam	A.H.	Yerragondapalem
3	Prakasam	M.CH.	ONGOLE
4	Prakasam	C.H.C.	KANIGIRI
5	Prakasam	C.H.C.	CUMBUM
6	Prakasam	C.H.C.	Chimakurthy
7	Prakasam	C.H.C.	Dornala
8	Prakasam	C.H.C.	Darsi
9	Prakasam	C.H.C.	Kondepi
10	Prakasam	C.H.C.	Pamur
11	Prakasam	C.H.C.	Podili
	<b>Prakasam</b>		<b>11 District Total</b>
1	Nellore	D.H.	ATMAKUR
2	Nellore	A.H.	KANDUKUR
3	Nellore	A.H.	KAVALI
4	Nellore	C.H.C.	Allur
5	Nellore	C.H.C.	Rapur
6	Nellore	C.H.C.	Udayagiri
7	Nellore	C.H.C.	Ulavapadu
8	Nellore	C.H.C.	Vinjamuru
9	Nellore	C.H.C.	Kovuru
10	Nellore	C.H.C.	Buchireddypalem
11	Nellore	C.H.C.	Indukurupeta
12	Nellore	C.H.C.	Venkatachalam
13	Nellore	C.H.C.	Podalakuru
	<b>Nellore</b>		<b>13 District Total</b>
1	Chittoor	D.H.	CHITTOOR
2	Chittoor	A.H.	KUPPAM
3	Chittoor	A.H.	PALAMANER
4	Chittoor	A.H.	NAGARI
5	Chittoor	A.H.	PUNGANUR
6	Chittoor	C.H.C.	Karvetinagar
7	Chittoor	C.H.C.	Penumuru
8	Chittoor	C.H.C.	SODUM
9	Chittoor	C.H.C.	V.Kota
10	Chittoor	C.H.C.	P.Kothakota
11	Chittoor	C.H.C.	Bangarupalem
	<b>Chittoor</b>		<b>11 District Total</b>
1	Tirupati	A.H.	GUDUR
2	Tirupati	A.H.	SRIKALAHASTI
3	Tirupati	C.H.C.	SATYAVEEDU
4	Tirupati	C.H.C.	CHADRAGIRI
5	Tirupati	C.H.C.	Kota
6	Tirupati	C.H.C.	Vakadu
7	Tirupati	C.H.C.	Naidupeta
8	Tirupati	C.H.C.	Sullurpeta



Sl.No	District	Facility type	Name of the Facility
9	Tirupati	C.H.C.	Venkatagiri
10	Tirupati	C.H.C.	PUTTUR
11	Tirupati	C.H.C.	CHINNAGOTTIGALU
12	Tirupati	C.H.C.	NARAVARIPALLI
	<b>Tirupati</b>	<b>12</b>	<b>District Total</b>
1	Kadapa	D.H.	PRODDUTUR
2	Kadapa	A.H.	JAMMALAMADUGU
3	Kadapa	C.H.C.	Badvel
4	Kadapa	C.H.C.	Porumamilla
5	Kadapa	C.H.C.	Vempalli
6	Kadapa	C.H.C.	Kamalapuram
7	Kadapa	C.H.C.	Chennur
8	Kadapa	C.H.C.	Sidhout
9	Kadapa	C.H.C.	Mydukur
	<b>Kadapa</b>	<b>9</b>	<b>District Total</b>
1	Annamayya	A.H.	PILER
2	Annamayya	A.H.	RAYACHOTI
3	Annamayya	A.H.	RAJAMPET
4	Annamayya	C.H.C.	MAHAL
5	Annamayya	C.H.C.	VAYALPADU
6	Annamayya	C.H.C.	KALIKIRI
7	Annamayya	C.H.C.	Thamaballapalli
8	Annamayya	C.H.C.	B.Kothakota
9	Annamayya	C.H.C.	LAKKIREDDYPALLY
10	Annamayya	C.H.C.	Rly. Kodur
	<b>Annamayya</b>	<b>10</b>	<b>District Total</b>
1	Anantapur	A.H.	GUNTAKAL
2	Anantapur	A.H.	TADIPATRI
3	Anantapur	A.H.	RAYADURG
4	Anantapur	C.D.H	ANANTAPUR
5	Anantapur	C.H.C.	GOOTY
6	Anantapur	C.H.C.	URAVAKONDA
7	Anantapur	C.H.C.	Kalyandurg
8	Anantapur	C.H.C.	SINGANNAMALA
9	Anantapur	C.H.C.	Pamidi
10	Anantapur	C.H.C.	Konakandla
11	Anantapur	C.H.C.	Kanekal
	<b>Anantapur</b>	<b>11</b>	<b>District Total</b>
1	Sri Satya Sai	D.H.	HINDUPUR
2	Sri Satya Sai	A.H.	KADIRI
3	Sri Satya Sai	A.H.	DHARMAVARAM
4	Sri Satya Sai	A.H.	MADAKASIRA
5	Sri Satya Sai	C.H.C.	PENUKONDA
6	Sri Satya Sai	C.H.C.	CHENNAKOTAPALLI
7	Sri Satya Sai	C.H.C.	Tanakal
8	Sri Satya Sai	C.H.C.	NALLAMANDA
9	Sri Satya Sai	C.H.C.	Kothacheruvu
10	Sri Satya Sai	C.H.C.	Gorantla
11	Sri Satya Sai	C.H.C.	Rolla
	<b>Sri Satya Sai</b>	<b>11</b>	<b>District Total</b>

Sl.No	District	Facility type	Name of the Facility
1	Kurnool	A.H.	YEMMIGANOOR
2	Kurnool	M.CH.	ADONI
3	Kurnool	C.H.C.	Alur
4	Kurnool	C.H.C.	Pathikonda
5	Kurnool	C.H.C.	Kodumur
6	Kurnool	C.H.C.	Orvakal
7	Kurnool	C.H.C.	Veldurthi
8	Kurnool	CD	CD. B.Camp Kurnool
	<b>Kurnool</b>		<b>8 District Total</b>
1	Nandyala	A.H.	BANAGANAPALLI
2	Nandyala	A.H.	Dhone
3	Nandyala	C.H.C.	Allagadda
4	Nandyala	C.H.C.	Panyam
5	Nandyala	C.H.C.	Owk
6	Nandyala	C.H.C.	Koilkuntla
7	Nandyala	C.H.C.	Atmakur
8	Nandyala	C.H.C.	Sunnipenta
9	Nandyala	C.H.C.	Nandikotkur
10	Nandyala	C.H.C.	Yallur
11	Nandyala	C.H.C.	Midthur
12	Nandyala	C.H.C.	Velugodu
13	Nandyala	C.H.C.	Bethamcherla
	<b>Nandyal</b>		<b>13 District Total</b>
	<b>Grand Total</b>		<b>242</b>