

General Details

Category:	Innovation
Centre/State/District:	State
Name of the Head of the Organization:	Nitika Khandelwal
Designation:	Director
Name of the State:	Uttarakhand
Name of the Organization:	UTTARAKHAND SPACE APPLICATION CENTRE (USAC)
Mobile number:	7351559995
Email:	nitika.khandelwal@ias.nic.in
Office Address:*	Uttarakhand Space Application Centre(USAC) - Uttarakhand Antariksh Bhawan- Upper Aamwala, Naalapaani, Dehradun, Uttarakhand - 248001
Office Phone:	<div>Please enter digits</div>
FAX number:	<div>Please enter digits</div>
Name of the Initiative/Project:*	Uttarakhand Government Assets Management System (UK-GAMS)
Launch date of Initiative/Project (Period of Implementation should be from 1st April, 2022 to 31st December, 2024). Note: Data will be verified by concerned Ministry or Department in Government of India:*	<div>01-12-2023</div>

• Note: Please fill a separate application for each project

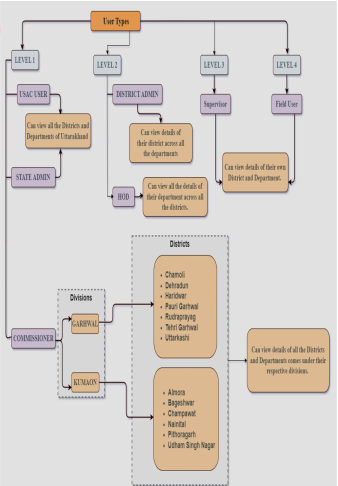
S.No.	Parameters	Yes/No	Report the innovation in not more than 50 words against selected/ticked parameter
1.*	Area of Governance impacted by the initiative/ innovation		

S.No.	Parameters	Yes/No	Report the innovation in not more than 50 words against selected/ticked parameter
1.1	Environment Conservation	<input type="radio"/> Yes <input checked="" type="radio"/> No	NA
1.2	Water Conservation	<input type="radio"/> Yes <input checked="" type="radio"/> No	NA
1.3	Energy	<input type="radio"/> Yes <input checked="" type="radio"/> No	NA
1.4	Education	<input type="radio"/> Yes <input checked="" type="radio"/> No	NA
1.5	Health	<input type="radio"/> Yes <input checked="" type="radio"/> No	NA
1.6	Women and Child	<input type="radio"/> Yes <input checked="" type="radio"/> No	NA
1.7	Sustainable Farming	<input type="radio"/> Yes <input checked="" type="radio"/> No	NA
1.8	Promoting livelihoods	<input type="radio"/> Yes <input checked="" type="radio"/> No	NA
1.9	Boosting economy	<input checked="" type="radio"/> Yes <input type="radio"/> No	<p>By protecting government lands from unauthorized encroachments, UK-GAMS ensures better resource allocation for public infrastructure projects and fosters investor confidence. With over 66,000 assets mapped, it streamlines land utilization, and promotes sustainable development ultimately boosting the states economic growth.</p>
1.10	Improving Governance / Good Governance	<input checked="" type="radio"/> Yes <input type="radio"/> No	<p>UK-GAMS leverages high-resolution satellite data, AI/ML, and mobile technology to monitor assets periodically, fostering transparency and accountability. Over 6,000 departmental users collaborate seamlessly on one platform, accelerating decision-making. This integrated approach significantly enhances efficiency, reduces manual errors, and promotes data-driven governance.</p>

S.No.	Parameters	Yes/No	Report the innovation in not more than 50 words against selected/ticked parameter
1.11	Others, Please specify	<input checked="" type="radio"/> Yes <input type="radio"/> No	By providing a centralized system for asset mapping and real-time change detection, UK-GAMS supports sustainable land management. It preserves public property for equitable use and aids strategic urban planning. This holistic approach ensures balanced development while safeguarding valuable natural and government resources.

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2.*	Is the innovation part of implementation of any Scheme of the District/State/ Central Government	<input checked="" type="radio"/> Yes <input type="radio"/> No	UK-GAMS is a state-level innovation mandated by a government order to monitor and protect government land in Uttarakhand. It uses advanced geospatial technologies (satellite imagery) to detect changes, ensuring compliance with official directives and safeguarding public assets.	<p>Supporting document</p> <p>Relevant photograph:</p> <div> <p>Genesis and Aim of the Project</p> <p>विषय-राज्य के विभिन्न विभागों की भूमि/परिसम्पत्तियों के अतिक्रमण को तत्काल रोके जाने एवं हटाये जाने के सम्बन्ध में। (उ० शा० आदेश, मई 2023)</p> <p>Key points of the GO:</p> <ul style="list-style-type: none"> ❖ To prepare the assets inventory - Concerned Department ❖ GIS fencing of all the assets & to provide the unique number-Department, USAC/ITDA ❖ Monitoring of assets using satellite/drone data & modern technology- USAC/ITDA ❖ To initiate appropriate action- Concerned Department <p>To monitor the Government Land and protect against encroachment in the state of Uttarakhand</p> </div> <p>Download</p> <p>Web Link:</p> <p>https://ukgams.uk.gov.in/</p>
3.*	Whether the initiative is a new-innovation being implemented?	<input checked="" type="radio"/> Yes <input type="radio"/> No	UK-GAMS is a new, end-to-end solution leveraging AI/ML-driven change detection on VHR satellite data for periodic asset monitoring. It is the	<p>Supporting document</p> <p>Relevant photograph:</p> <p>Web Link:</p>


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			first state-level platform integrating field data, mobile apps, and satellite imagery, enabling proactive governance and swift action in detecting changes on the government land.	
4.*	Whether the initiative is a replication of an initiative already implemented with suitable update and innovation? Please mention the original initiative/project which is being replicated.	<input type="radio"/> Yes <input checked="" type="radio"/> No	NA	<p>Supporting document</p> <p>Relevant photograph:</p> <p>Web Link:</p> <input type="text"/>
5.*	Is the initiative/ project won any award(s) instituted by National / International organization?	<input type="radio"/> Yes <input checked="" type="radio"/> No	NA	<p>Supporting document</p> <p>Relevant photograph:</p> <p>Web Link:</p> <input type="text"/>
6.*	Please explain the uniqueness of the initiative/project?		It seamlessly integrates periodic satellite imagery, AI/ML-based change detection, and mobile field validation into a unified platform. This powerful combination enables accurate and swift identification of unauthorized land-	Supporting document

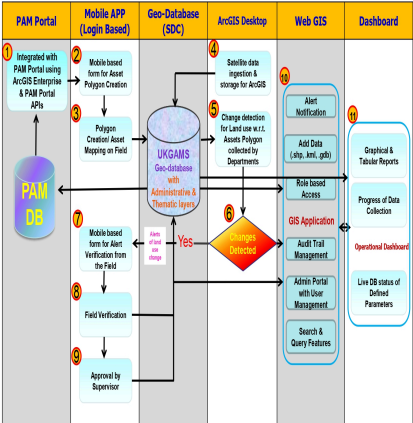
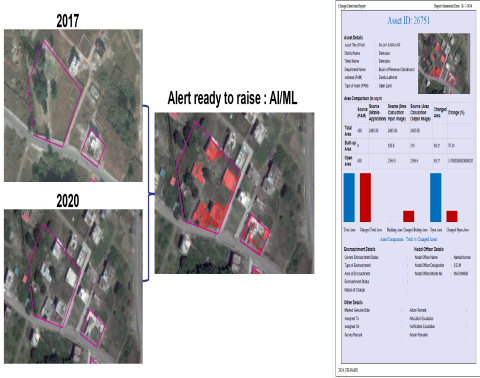
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S.No.	Parameters	Yes/No	Report in not more than 50 words against each parameters	<p>Relevant photograph:</p> <p>USAC envisage: To develop an integrated solution using Web GIS and Mobile application</p> <p>Uttarakhand Government Assets Management System (UK-GAMS)</p> <p>Key objectives:</p> <ul style="list-style-type: none">❖ Creation and validation of asset boundaries on VHR satellite imageries using mobile application.❖ Identifying changes within Govt. asset boundaries using AI/ML tool on seasonal VHR satellite imageries.❖ Development of interactive DSS for government assets and land use changes through Web GIS & Dashboard.❖ Raising alerts when there is a change and notifying users for validation using mobile application.❖ Geo-tagging of changes (pictures & videos) by the concerned department officials.❖ To make the information/data available to all stakeholders based on their roles and jurisdiction. <p>Download</p> <p>Web Link:</p> <div></div>
7.*	Who are the stakeholders/ beneficiaries and how the engagement was ensured in the scheme in which innovation is made?		<p>Stakeholders include 60+ State Government Departments, 7 Directorates, and 25 Boards managing over 66,000 assets. Engagement is ensured via role-based mobile/web portals for data entry, validation. Field officers, supervisors, and administrators collaborate seamlessly, ensuring transparent, inclusive decision-making.</p>	<p>Supporting document</p> <p>Relevant photograph:</p> <p>Role Based Users in Mobile Application</p>  <p>Download</p> <p>Web Link:</p> <div></div>

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8.*	What are the stakeholder requirements and service delivery gaps that initiated the development of this innovation?		Departments lacked a centralized platform to record asset geocoordinates, track and visualize land-use changes. Manual methods were time-consuming, error-prone, and lacked transparency. UK-GAMS fills these gaps with automated s, AI/ML-driven change detection, and integrated decision support for all stakeholders.	<p>Supporting document</p> <p>Relevant photograph:</p> <p>Issues: Government Assets Management</p> <hr/> <p>❖ Government land assets inventory : Unavailable</p> <p>❖ Asset's Geo-coordinates : Not known</p> <p>❖ GIS based Geo-fencing : Not done</p> <p>❖ Platform to visualize and analyze the data: Unavailable</p> <p>❖ Satellite based monitoring mechanism : Unavailable</p> <p>Download</p> <p>Web Link:</p> <input type="text"/>
9.*	What are the existing processes that needs improvement or modification?		Traditional manual inspections, paper-based records, and reliance on Khasra/Khatoni maps hindered timely unauthorized changes detection. There was no uniform mechanism for multi-department coordination or real-time data sharing. These processes needed digitization, AI-based s, and a centralized platform for swift, accurate decision-making.	<p>Supporting document</p> <p>Relevant photograph:</p> <p>Web Link:</p> <input type="text"/>

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10.*	<p>What were the perceptible improvements in the processes / systems and institution building? A comparison of the earlier status and status after implementation of innovation may be given.</p>		<p>Before: Asset inventory was incomplete, encroachments went undetected, and departments worked in silos. After: Over 66,000 assets are mapped, AI/ML-based s enable real-time monitoring, and multi-department collaboration is streamlined. This fosters transparent decision-making, quick resolution of issues, and robust institutional coordination.</p>	<p>Supporting document</p> <p>Relevant photograph:</p> <p>Web Link:</p> <div></div>

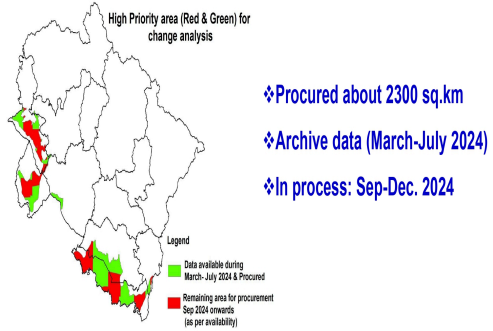
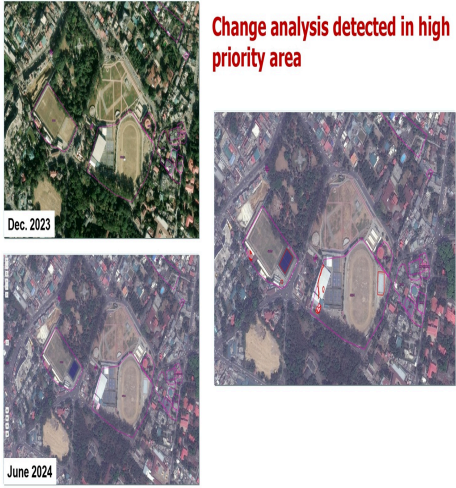
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S.No.	Parameters	Yes/No	Report in not more than 50 words against each parameters	
11.*	What were the steps undertaken to create awareness about the innovation among beneficiaries?		<p>Comprehensive multi-tier training sessions, departmental workshops, and user manuals were deployed to over 6,000 stakeholders. Official circulars, social media, and WhatsApp groups helped amplify awareness, while on-site demonstrations showcased periodic changes detection, ensuring strong engagement and rapid adoption across the state.</p>	<p>Supporting document</p> <p>Relevant photograph:</p> <p>User Manual/Guidelines for asset boundary creation</p>  <p>Download</p> <p>Web Link:</p> <div></div>
12.*	What steps have been undertaken for digital capacity building of the stakeholders and beneficiaries, to enable them to take full benefit of the innovation in the Scheme?		<p>Extensive capacity-building programs were conducted across all departments, featuring demonstrations, in-app tutorials, and train-the-trainer modules. Dedicated helpdesks and WhatsApp support groups ensured field users and supervisors mastered the mobile/web interface, enabling effective utilization of UK-GAMS. Regular analytics-based</p>	<p>Supporting document</p> <p>Relevant photograph:</p> <p>Assets boundary creation and area for monitoring</p>  <p>Download</p> <p>Web Link:</p> <div></div>

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			feedback sessions further strengthened digital proficiency.	<input type="text"/>
13.*	How has the innovation made the public delivery system more responsive, transparent and efficient? Relative or comparative time, etc.		<p>Before UK-GAMS, unauthorized changes in Government Land were identified late, causing delays and resource losses. Now, AI/ML-driven real-time s, geotagged field validations, and web dashboards expedite decisions and boost transparency. Departments can rapidly respond to unauthorized changes, reducing resolution times from months to weeks and enhancing accountability across governance layers.</p>	<p>Supporting document</p> <p>Relevant photograph:</p> <div> <p>Brief Progress of the Project</p> <p>1. Mobile Application Development</p> <ul style="list-style-type: none"> ❖ Developed mobile application (user role based) for creating, approving, monitoring, change alert assign and validation of assets (>6000 users). ❖ A total of 66,949 (107) Govt. asset points collected and 52,077 assets polygon have been created using mobile Application. ❖ Provided Manual/Guidelines for asset boundary creation <p>2. Web Application Development</p> <ul style="list-style-type: none"> ❖ Developed GIS enabled web portal having facilities to visualize, change, query on assets, various analyzing tools, change analysis and alert management facilities. ❖ Developed user Management, activity logger and report generation modules ❖ Published base map and administrative boundaries. ❖ Detection of Changes using AI/ML tool is being developed. <p>3. Dashboard for Decision Support</p> <ul style="list-style-type: none"> ❖ Developed dashboard to visualize the progress, status, assets created and change detected facility at State, District and Department level. </div>  <p>Download</p> <p>Web Link:</p> <input type="text"/>
14.*	Whether the innovation leveraged technology for making the public delivery system responsive, transparent and efficient, and if so, how?	<input checked="" type="radio"/> Yes <input type="radio"/> No	<p>UK-GAMS combines high-resolution satellite imagery, AI/ML-driven change detection, and mobile apps to identify changes in land use pattern swiftly. Automated and real-time dashboards promote transparency and collaboration, while</p>	Supporting document

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S.No.	Parameters	Yes/No	<p>Report in not more than 50 words against each parameters</p>	<p>Relevant photograph:</p> <p>Approach/Architecture of work</p>  <p>Download</p> <p>Web Link:</p> <div></div>
15.*	Has the innovation resulted in a seamless, faceless, end to end service delivery mechanism?	<input checked="" type="radio"/> Yes <input type="radio"/> No	<p>UK-GAMS fully digitizes asset registration, boundary creation, AI-based change detection, and field validation. Role-based access and automated approvals replace face-to-face interactions, cutting bureaucratic red tape. The paperless workflow ensures faster decision-making, real-time monitoring, and a transparent, user-friendly platform for all stakeholders.</p>	<p>Supporting document</p> <p>Relevant photograph:</p> <p>Extraction of settlements and change detection</p>  <p>Enabling the AI/ML based model to extract the changes in entire settlement area</p> <p>Download</p> <p>Web Link:</p> <div></div>

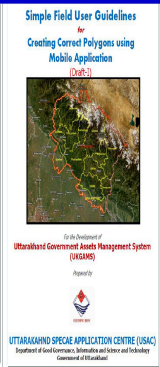
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16.*	Approximately how many people benefitted from the initiative?		Over 60 departments, 7 directorates, and 25 boards benefit directly, covering 66,000+ assets statewide. Indirectly, millions of Uttarakhand citizens gain from better infrastructure planning, and safeguarded public lands. By preventing unauthorized changes in the government land, UK-GAMS ensures efficient governance and equitable resource utilization for the broader population.																																																																																											
17.*	Please mention whether there was any community involvement in the implementation of innovation? If so, describe how the innovation encouraged the involvement of community?	<div><div><input type="radio"/>Yes</div><div><input checked="" type="radio"/>No</div></div>	NA	<p>Supporting document</p> <p>Relevant photograph:</p> <div><p>Role Based Users in Mobile Application</p></div> <p>Download</p>																																																																																										

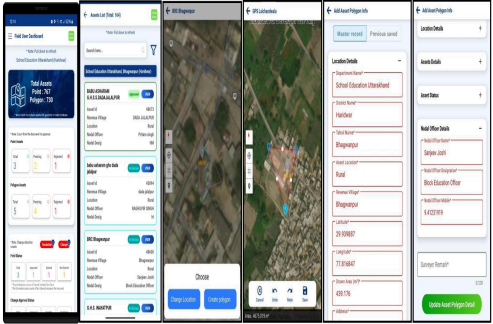
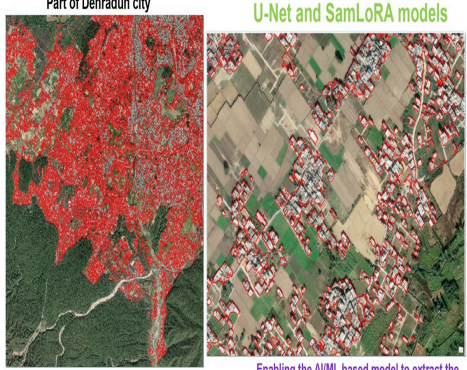
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18.*	Whether the innovation is sustainable over a long period of time and if so describe the systemic steps taken for its sustainability?	<div><input checked="" type="radio"/>Yes</div> <div><input type="radio"/>No</div>	<p>UK-GAMS is institutionalized via government orders, with budget provisions for satellite data, server upkeep, and AI/ML model upgrades. Continuous training, role-based portals, and departmental ownership anchor it in daily operations. The solutions scalable architecture, along with strong policy backing, ensures it remains a robust, enduring tool for land monitoring.</p>	<p>Supporting document</p> <p>Relevant photograph:</p> <p>Sanctioned budget for development of UKGAMS</p> <table><tr><th>S. No.</th><th>Particulars</th><th>Description</th><th>Budget (in Cr.)</th><th>Expenditure (in Cr.)</th></tr><tr><td>1</td><td>Software required</td><td>Indo ArcGIS Desktop Advanced 10.8.2 Indo ArcGIS Desktop Extension Image Analyst Indo ArcGIS Enterprise Advanced 11.1 Indo ArcGIS Enterprise extension Image Server</td><td></td><td>01.94 (software)</td></tr><tr><td>2</td><td>Development of Change Detection platform and mobile application</td><td>Web Application Development & Mobile Application Development a) SRS Finalization, b) Beta Go Live c) Go-Live</td><td>06.00</td><td>0.63 (15% Seed money) 01.47 (35% Beta Go live)</td></tr><tr><td>3</td><td>Resource persons for Maintenance</td><td>Resource persons for Maintenance for two (02) years</td><td></td><td></td></tr><tr><td>4</td><td>Satellite Data (very High resolution)</td><td>Satellite data for high value area (50cm or better) of the state Satellite data of low value area of the state Quarterly satellite data acquisition for change analysis of Area of Interest (2024)</td><td>03.00 01.25 (2024)</td><td>02.60 (base imagery) 00.45 (high priority)</td></tr><tr><td colspan="3">Total</td><td>10.25</td><td>07.09</td></tr></table> <p>Download</p> <p>Web Link:</p> <div></div>	S. No.	Particulars	Description	Budget (in Cr.)	Expenditure (in Cr.)	1	Software required	Indo ArcGIS Desktop Advanced 10.8.2 Indo ArcGIS Desktop Extension Image Analyst Indo ArcGIS Enterprise Advanced 11.1 Indo ArcGIS Enterprise extension Image Server		01.94 (software)	2	Development of Change Detection platform and mobile application	Web Application Development & Mobile Application Development a) SRS Finalization, b) Beta Go Live c) Go-Live	06.00	0.63 (15% Seed money) 01.47 (35% Beta Go live)	3	Resource persons for Maintenance	Resource persons for Maintenance for two (02) years			4	Satellite Data (very High resolution)	Satellite data for high value area (50cm or better) of the state Satellite data of low value area of the state Quarterly satellite data acquisition for change analysis of Area of Interest (2024)	03.00 01.25 (2024)	02.60 (base imagery) 00.45 (high priority)	Total			10.25	07.09
S. No.	Particulars	Description	Budget (in Cr.)	Expenditure (in Cr.)																														
1	Software required	Indo ArcGIS Desktop Advanced 10.8.2 Indo ArcGIS Desktop Extension Image Analyst Indo ArcGIS Enterprise Advanced 11.1 Indo ArcGIS Enterprise extension Image Server		01.94 (software)																														
2	Development of Change Detection platform and mobile application	Web Application Development & Mobile Application Development a) SRS Finalization, b) Beta Go Live c) Go-Live	06.00	0.63 (15% Seed money) 01.47 (35% Beta Go live)																														
3	Resource persons for Maintenance	Resource persons for Maintenance for two (02) years																																
4	Satellite Data (very High resolution)	Satellite data for high value area (50cm or better) of the state Satellite data of low value area of the state Quarterly satellite data acquisition for change analysis of Area of Interest (2024)	03.00 01.25 (2024)	02.60 (base imagery) 00.45 (high priority)																														
Total			10.25	07.09																														
19.*	Whether the innovation implemented is able to sustain in emergent situations, disasters like cyclone, earthquake, flood etc.? Whether any such situation was actually faced and if so, how it worked?	<div><input type="radio"/>Yes</div> <div><input checked="" type="radio"/>No</div>	NA	<p>Supporting document</p>																														


S.No.	Parameters	Yes/No	Report in not more than 50 words against each parameters	<p>Please upload any relevant supporting documents, images, screenshots, or web links to substantiate the information provided in the respective section.</p> <p>Note: Ensure the attachments are clear, concise, and directly related to the inputs.</p> <p>The photograph(s) must be uploaded in jpeg or png format with each size not exceeding 250 KB and should not be uploaded in collage format.</p>
				<p>Relevant photograph:</p> <p>VHR satellite data availability in high priority area</p>  <p>❖Procured about 2300 sq.km ❖Archive data (March-July 2024) ❖In process: Sep-Dec. 2024</p> <p>Download</p> <p>Web Link:</p> <div></div>
20.*	Whether after implementing the innovation, any best practices were identified, which can be replicated in other projects/ area? If so, describe the best practice and where else it can be implemented?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Core best practices include AI/ML-based change detection, integrated mobileweb workflows, and multi-department dashboards. These can be replicated in other states or for different applications such as forest management or urban planning where periodic, transparent monitoring of land or assets is essential for proactive governance and resource optimization.	<p>Supporting document</p> <p>Relevant photograph:</p>  <p>Change analysis detected in high priority area</p> <p>Download</p> <p>Web Link:</p> <div></div>

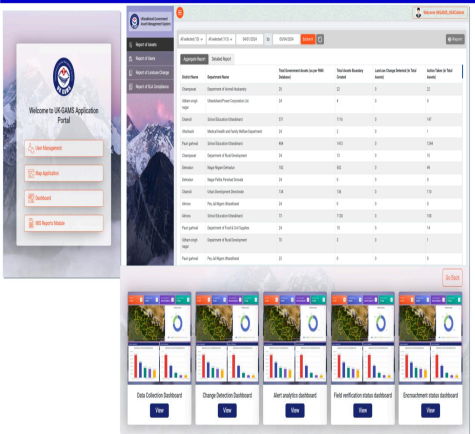
S.No.	Parameters	Yes/No	Report in not more than 50 words against each parameters	<p>Please upload any relevant supporting documents, images, screenshots, or web links to substantiate the information provided in the respective section.</p> <p>Note: Ensure the attachments are clear, concise, and directly related to the inputs.</p> <p>The photograph(s) must be uploaded in jpeg or png format with each size not exceeding 250 KB and should not be uploaded in collage format.</p>
21.*	What was the impact of the innovation particularly with regard to its demographic reach?		In a state with 1crore+ residents, UK-GAMS safeguards public land for diverse communities, from rural hamlets to major cities. By digitizing 66,000+ assets, it ensures equitable resource allocation, reduces disputes, and fosters inclusive governance. All socioeconomic groups benefit from transparent, AI-driven land monitoring and timely detection of unauthorized changes in governments land.	<p>Supporting document</p> <p>Relevant photograph:</p> <p>Web Link:</p> <div></div>
22.*	What was the impact of the innovation particularly with regard to its geographical reach?		UK-GAMS covers 53,000+ sq. km of Uttarakhand's varied terrain, spanning high-altitude regions to dense urban centers. Its satellite-based monitoring detects land-use changes even in remote districts, ensuring uniform oversight. By integrating 60+ departments, it delivers a cohesive, statewide approach	<p>Supporting document</p> <p>Relevant photograph:</p> <p>Assets boundary creation and area for monitoring</p> <p>Government Assets Distribution in Uttarakhand Total 66949 (February 2023)</p> <div></div> <p>Download</p>

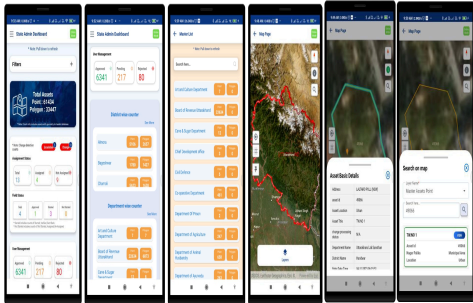
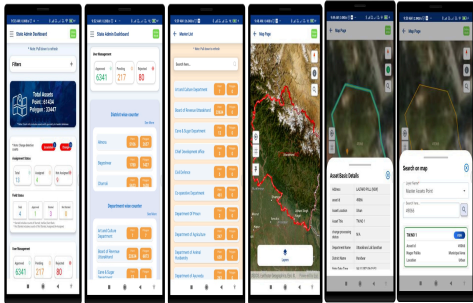
S.No.	Parameters	Yes/No	Report in not more than 50 words against each parameters	<p>Please upload any relevant supporting documents, images, screenshots, or web links to substantiate the information provided in the respective section. Note: Ensure the attachments are clear, concise, and directly related to the inputs. The photograph(s) must be uploaded in jpeg or png format with each size not exceeding 250 KB and should not be uploaded in collage format.</p>
			to asset protection and monitoring.	<p>Web Link:</p> <input type="text"/>
23.*	Whether any third party evaluation of innovation has been made? If so, what are the results?	<input checked="" type="radio"/> Yes <input type="radio"/> No	<p>The system is a state-of-the-art web and mobile-based application developed by the Uttarakhand Space Application Centre to monitor government land using advanced geospatial technology. By integrating Very High Resolution (VHR) satellite data with Artificial Intelligence (AI) and Machine Learning (ML) tools, UKGAMS has enabled efficient detection of changing land use pattern across the state.</p>	<p>Supporting document Download</p> <p>Relevant photograph:</p> <p>Web Link:</p> <input type="text"/>
24.*	Have any steps been taken by the implementing unit for dissemination of its best practices to the District/State/Central Government? In case of :			
	a. District – Replication by other districts	<input type="radio"/> Yes <input checked="" type="radio"/> No	NA	<p>Supporting document</p> <p>Relevant photograph:</p> <p>Web Link:</p> <input type="text"/>

S.No.	Parameters	Yes/No	Report in not more than 50 words against each parameters	<p>Please upload any relevant supporting documents, images, screenshots, or web links to substantiate the information provided in the respective section.</p> <p>Note: Ensure the attachments are clear, concise, and directly related to the inputs.</p> <p>The photograph(s) must be uploaded in jpeg or png format with each size not exceeding 250 KB and should not be uploaded in collage format.</p>
	b. State - Dissemination in any State or Central Government scheme	<div><div><input type="radio"/>Yes</div><div><input checked="" type="radio"/>No</div></div>	NA	<p>Supporting document</p> <p>Relevant photograph:</p> <p>Web Link:</p> <div></div>
	c. Centre - Dissemination in any Central Government scheme	<div><div><input type="radio"/>Yes</div><div><input checked="" type="radio"/>No</div></div>	NA	<p>Supporting document</p> <p>Relevant photograph:</p> <p>Web Link:</p> <div></div>
25.*	Whether any toolkit has been prepared for bringing about the replication of the innovation in other Districts/ States/Central Government departments? Explain its features.	<div><div><input checked="" type="radio"/>Yes</div><div><input type="radio"/>No</div></div>	<p>A comprehensive toolkit includes user manuals, field guidelines, and AI/ML model templates. It details mobile app usage, satellite data procurement, and stepwise workflows for asset mapping. This standardized approach eases adoption by other states, enabling smooth replication and ensuring sustained improvements in land governance.</p>	<p>Supporting document</p> <p>Relevant photograph:</p> <p>User Manual/Guidelines for asset boundary creation</p> <div><div></div><div></div><div></div></div> <p>Download</p> <p>Web Link:</p> <div></div>
26.*	What is the grievance redressal		Government Field officers can flag	<p>Supporting document</p>

				<p>Please upload any relevant supporting documents, images, screenshots, or web links to substantiate the information provided in the respective section.</p> <p>Note: Ensure the attachments are clear, concise, and directly related to the inputs.</p> <p>The photograph(s) must be uploaded in jpeg or png format with each size not exceeding 250 KB and should not be uploaded in collage format.</p>
S.No.	Parameters	Yes/No	Report in not more than 50 words against each parameters	<p>Relevant photograph:</p> <p>Field User Mobile Application overview</p>  <p>Filed user will also collect the field evidences on change detected assets</p> <p>Download</p> <p>Web Link:</p> <div></div>
27.*	Any Outstanding point which is not covered in the above points (Maximum 5)			
27.1	1		<p>Data Security and Privacy - All departmental and geospatial data are stored in a secure, encrypted environment, ensuring compliance with government protocols. Role-based access protects sensitive information. Regular security audits, firewalls, and backups mitigate risks, guaranteeing trust and reliability. Robust disaster recovery ensures minimal downtime</p>	<p>Supporting document</p> <p>Relevant photograph:</p> <p>Extraction of settlements on base imagery</p>  <p>Download</p> <p>Web Link:</p>

				<p>Please upload any relevant supporting documents, images, screenshots, or web links to substantiate the information provided in the respective section.</p> <p>Note: Ensure the attachments are clear, concise, and directly related to the inputs.</p> <p>The photograph(s) must be uploaded in jpeg or png format with each size not exceeding 250 KB and should not be uploaded in collage format.</p>
S.No.	Parameters	Yes/No	Report in not more than 50 words against each parameters	
			and continuity of services.	
27.2	2		Real-time Policy Formulation - By offering timely geospatial insights, UK-GAMS empowers policymakers to craft data-driven interventions. Real-time Land usage/changes patterns help refine urban development plans and resource allocation. This dynamic feedback loop fosters agile governance, ensuring targeted responses to emerging land-use challenges across the state.	<p>Supporting document</p> <p>Relevant photograph:</p> <p>UKGAMS: Assets Dashboard Developed as DSS</p>  <p>Download</p> <p>Web Link:</p>
27.3	3		Potential for National Scaling - UK-GAMSS modular architecture, AI/ML detection models, and integrated mobile workflows can be replicated across diverse terrains nationwide. Its proven efficacy in Uttarakhand demonstrates adaptability for other regions seeking robust, transparent	<p>Supporting document</p>

				<p>Please upload any relevant supporting documents, images, screenshots, or web links to substantiate the information provided in the respective section.</p> <p>Note: Ensure the attachments are clear, concise, and directly related to the inputs.</p> <p>The photograph(s) must be uploaded in jpeg or png format with each size not exceeding 250 KB and should not be uploaded in collage format.</p>
S.No.	Parameters	Yes/No	Report in not more than 50 words against each parameters	
			land governance. Such scaling strengthens inter-state collaboration, elevating national standards of asset management.	<p>Relevant photograph:</p> <p>Report generation</p>  <p>Download</p> <p>Web Link:</p> <div></div>

				<p>Please upload any relevant supporting documents, images, screenshots, or web links to substantiate the information provided in the respective section.</p> <p>Note: Ensure the attachments are clear, concise, and directly related to the inputs.</p> <p>The photograph(s) must be uploaded in jpeg or png format with each size not exceeding 250 KB and should not be uploaded in collage format.</p>
S.No.	Parameters	Yes/No	Report in not more than 50 words against each parameters	<p>Supporting document</p> <p>Relevant photograph:</p> <div> <p>Brief Progress of the Project</p> <p>1. Mobile Application Development</p> <ul style="list-style-type: none"> Developed mobile application (user role based) for creating, approving, monitoring, change alert assign and validation of assets (>6000 users). A total of 66,949 (107) Govt. asset points collected and 52,077 assets polygon have been created using mobile Application. Provided Manual/Guidelines for asset boundary creation <p>2. Web Application Development</p> <ul style="list-style-type: none"> Developed GIS enabled web portal having facilities to visualize, change, query on assets, various analyzing tools, change analysis and alert management facilities. Developed user Management, activity logger and report generation modules Published base map and administrative boundaries. Detection of Changes using AI/ML tool is being developed. <p>3. Dashboard for Decision Support</p> <ul style="list-style-type: none"> Developed dashboard to visualize the progress, status, assets created and change detected facility at State, District and Department level. </div> <p>Download</p> <p>Web Link:</p> <div></div>
27.4	4		<p>Implementation Milestone: The project successfully completed its first cycle of change detection across major cities, as explicitly mentioned in the resources. Departments accessed newly procured satellite data to identify Land use Changes and validating using mobile apps, and initiated corrective actions. This milestone demonstrates the systems operational readiness and its ability to scale.</p>	<p>Supporting document</p> <p>Relevant photograph:</p> <div> <p>State Admin Mobile Application overview</p>  </div> <p>Division, Department, District will be having similar mobile dashboard</p> <p>Download</p>
27.5	5		NA	<p>Supporting document</p> <p>Relevant photograph:</p> <div> <p>State Admin Mobile Application overview</p>  </div> <p>Division, Department, District will be having similar mobile dashboard</p> <p>Download</p>

S.No.	Parameters	Yes/No	Report in not more than 50 words against each parameters	<p>Please upload any relevant supporting documents, images, screenshots, or web links to substantiate the information provided in the respective section. Note: Ensure the attachments are clear, concise, and directly related to the inputs. The photograph(s) must be uploaded in jpeg or png format with each size not exceeding 250 KB and should not be uploaded in collage format.</p>
				<p>Web Link:</p> <input type="text"/>

28. Provide link of the video (Duration 3-5 minutes), if any, relating to the innovation done:

<https://drive.google.com/file/d/1kJgF9teUHfjZ1PKuM5LHaDjrepXSMzow/view?usp=sharing>

<https://drive.google.com/file/d/1fGTAL-dyDZMW82upuOo0aeR63aDOwmy9/view?usp=sharing>

<https://drive.google.com/file/d/1kfg4V83-2UX-cN-fdHvxC07zOGHVDwGA/view?usp=sharing>

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☒ I, hereby, certify that the information and particulars furnished above are true and correct to the best of my knowledge .The nomination form is submitted on behalf of the DC/DM.

Name:

Nitika Khandelwal

Designation:

Director

Place:

Dehradun

Date:

21/02/2025