

# AWARDS SCHEME FOR EXEMPLARY IMPLEMENTATION OF e-GOVERNANCE INITIATIVES

## NAME OF CATEGORY- 'INNOVATIVE USE OF GIS TECHNOLOGY IN e-GOVERNANCE'

### 1. Coverage – Geographical and Demographic :-

(i) Comprehensiveness of reach of delivery centres,

**Covers whole of India in term of spatial data and all non-spatial data except where State/UT Waqf Boards or Waqf Properties are not in existence such as Nagaland, Sikkim, Arunachal Pradesh, Mizoram.**

(ii) Number of delivery centres

**Single Point of Delivery through a Website <http://wamsi.nic.in/>**

(iii) Geographical

(a) National level – Number of State covered

AS STATED  
ABOVE

(b) State/UT level- Number of District covered

ALL

(c) District level- Number of Blocks covered

ALL

Please give specific details:-

**Historical Satellite Imageries along with Vector Map with commonly required layers like Roads, Railways, Prominent Buildings and Milestones, are used as a Service in the Web Application.**

(iv) Demographic spread (percentage of population covered)

**NOT APPLICABLE**

2. Situation Before the Initiative (Bottlenecks, Challenges, constraints etc with specific details as to what triggered the Organization to conceptualize this project):

**Encroachment on Waqf Properties is common phenomenon. Ownership rights rest with Almighty God that is why every vested interested party thinks that it is their right to encroach and use as they desires.**

3. **Scope of Services** (Relevance of application for e-governance, extent to which service is delivered through GIS)

**Waqf Properties are vulnerable to encroachments which is a major problem in protection of Waqf Properties. Here GIS Technology is helping to identify any encroachments over the period of time using Historical Satellite Imageries.**

(i) Coverage, (ii) Scope of Services, (iii) Demonstrate Innovation in use of GIS Technology for e-Gov, (iv) Interoperability & security, (v) Scalability, (vi)

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Sustainability & adaptability, (vii) Accountability, (viii) New Models of service delivery, (ix) Efficiency enhancement, (x) User Convenience

## 4. Strategy Adopted

(i) The details of base line study done,

**One time Field Collection of GPS Coordinates of the vertices of Immovable Waqf Properties.**

(ii) Problems identified,

**By way of plotting Waqf Properties Layouts using GPS Coordinates of their vertices on Satellite Imageries.**

(iii) Roll out/implementation model,

**Seamlessly Integrated into Web Application**

(iv) Communication and dissemination strategy and approach used.:

**Internet**

## 5. Technology Platform used-

(i) Description,

**Open Source Java Technologies with PostgreSQL RDBMS.**

(ii) Interoperability

**Standards used for Geo-locations, Internationalization and KML Files**

(iii) Security concerns

**Web Application is cleared safe by CERT-In Empanelled Auditor and hosted on National Data Centre on VM Servers, which is highly secured environment.**

(iv) Any issue with the technology used

**No Issue**

(v) Service level Agreements(SLAs) (Give details about presence of SLA, whether documented, whether referred etc. #)

**NOT APPLICABLE**

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6. **Demonstrate Innovation in use of GIS Technology for e-Gov** (Give details of technology used - Architecture, Platform, Open Source tools, Front-end development, Remote Sensing & Mobile Technology integration, SMS & email)

**Open Google Maps/Earth APIs are used for Satellite Images as a Service within Web Application.**

7. **Interoperability & security** (Give details about ability to leverage sharing amongst stakeholders in accordance with map policy, Token services, SSL)

**Since Open Google Maps/Earth Services are used, So, no Map Policy is violated.**

8. **Scalability** (Give details with respect to technology (Platform, Hardware & software) & data (high and low Geographical and Demographic scale)

**A Waqf Property as small as a one Room House is to be identified on Satellite Imageries. Since no other Open Map Services are available on such a Scale than Open Google Maps/Earth, therefore, this was used as a Service through its APIs.**

9. **Sustainability & adaptability** (Give details w.r.t architecture/ technology, updation of spatial data, training, human resource, research, local language )

**Since updation of Satellite Imageries with proper projections w.r.t. GPS Coordinates Reference of the Earth, is being done by Google, we are not worried about the con-currency of Image Data for the time being. If the Services of Open Google Maps/Earth are stopped or restricted on cost-basis then we have to see other Service Providers for such Services or request the government of India to open such services on such scale for public consumptions with out any cost involved.**

10. **Adaptability Analysis**

(i) Measures to ensure adaptability and scalability

**Simple intuitive Interfaces**

(ii) Measures to ensure replicability

**Portable as the Source in JAVA Language**

(iii) Restrictions, if any, in replication and or scalability

**NONE**

(iv) Risk Analysis

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**NOT DONE**

11. **Accountability** (Give details in regard to roles, responsibility, facility for audit trails )

**COMPLETE AUDIT TRAIL MAINTAINED**

12. **New Models of service delivery** ( Give details about Public/ private/ NGO/ academic linkages/ citizens)

**ALL MODES**

13. **Citizen Centricity** (Give specific details on the following#)

(i) Impact on effort, time and cost incurred by user,

**NOTHING AS IT IS FREELY AVAILABLE ON INTERNET WITHOUT CREDENTIALS**

(ii) Feedback/grievance redressal mechanism,

**Feedback Form is available on the Website. Immediately responded by Help Desk**

(iii) Audit Trails,

**Internally, IP Address, Date and Time are logged in the database for each query on the basis of Session Management inside the Web Application.**

(iv) Interactive platform for service delivery,

**Permutation & Combination of Drop Downs and Selection are used for queries inside the Application to have smooth and wonderful experience of the System.**

(v) Stakeholder consultation

**Regular Consultation with State/UT Waqf Boards.**

14. **Efficiency Enhancement** (Give specific details about the following #)

(i) Volume of transactions processed,

**Web Application is being popularize through various means for awareness**

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among Public by the Ministry and its associated Offices.

(ii) Coping with transaction volume growth

**Virtual Machines are used in the National Data Centre where resources like additional Processors Assignment, RAM & Database Size increase, etc are done on the basis of demand dynamically.**

(iii) Time taken to process transactions,

**FRACTION OF SECONDS**

(iv) Accuracy of output,

**GPS COORDINATES PROJECTION ON GROUND**

(v) Number of delays in service delivery

**SOMETIMES DUE TO SERVER MAINTENANCE IN NIGHT TIME (NON-PEAK HOURS)**

15. **User convenience** (Give specific details about the followings #)

(i) Service delivery channels (Web, email, SMS etc.)

**Web**

(ii) Completeness of information provided to the users,

**Up-to-date**

(iii) Accessibility (Time Window),

**FAST**

(iv) Distance required to travel to Access Points

**WHERE INTERNET IS AVAILABLE**

(v) Facility for online/offline download and online submission of forms,

**AVAILABLE ON WEBSITE ITSELF**

(vi) status tracking

**INTERNAL ASSESSMENT**

16. **Result Achieved/ Value Delivered** to the beneficiary of the project-(share the results, matrices, key learning's, feedback and stakeholders statements that show a positive difference is being made etc):

(i) **To organization**

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## OBJECTIVE ACHIEVED

### (ii) To citizen

**100% objective achieved for detecting encroachments on Waqf Properties for Citizens on few mouse click on Internet alongwith other current vital information of the Waqf Property for Social Audits as Waqf Properties are meant to serve weaker Section of the Society.**

### (iii) Other stakeholders

## OBJECTIVE ACHIEVED

17. Extent to which the Objective of the Project is fulfilled-(benefit to the target audience i.e.G2G, G2C, G2B, G2E or any other, size and category of population/stakeholder benefited etc):

**100% objective achieved for detecting encroachments on Waqf Properties for Citizens on few mouse click on Internet alongwith other current vital information of the Waqf Property for Social Audits as Waqf Properties are meant to serve weaker Section of the Society.**

18. Comparative Analysis of earlier Vs new system with respect to the BPR, Change Management, Outcome/benefit, Change in legal system, rules and regulations

**No simple and handy system of detecting encroachment was available to the Public earlier. Now, they have Power in their own hands.**

19. Other distinctive features/ accomplishments of the project:

- 1. REAL TIME MONITORING BY ANY STAKEHOLDER**
- 2. SOCIAL AUDIT & REPORTING TO DECISION MAKERS**
- 3. PROTECTION OF WAQF PROPERTIES BY GENERAL PUBLIC**
- 4. ENHANCEMENT OF REVENUE FOR WELFARE SCHEMES**

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# This is just an indicative list of indicators. Applicant can add on more information based on suitability of the project nominated.