

# ISES- Integrated Socio-Economic Survey of Students

The Government of Andhra Pradesh has desired to deliver the citizen-centric services from a centralized location through all citizen service centres such as e-Seva, AP Online, CSCs across the state under a new initiative called "MeeSeva". A web based application-ISES has been designed and developed by NIC Hyderabad for preparation of the digitally signed database of student records so as to enable electronic delivery of various certificates across the counter.



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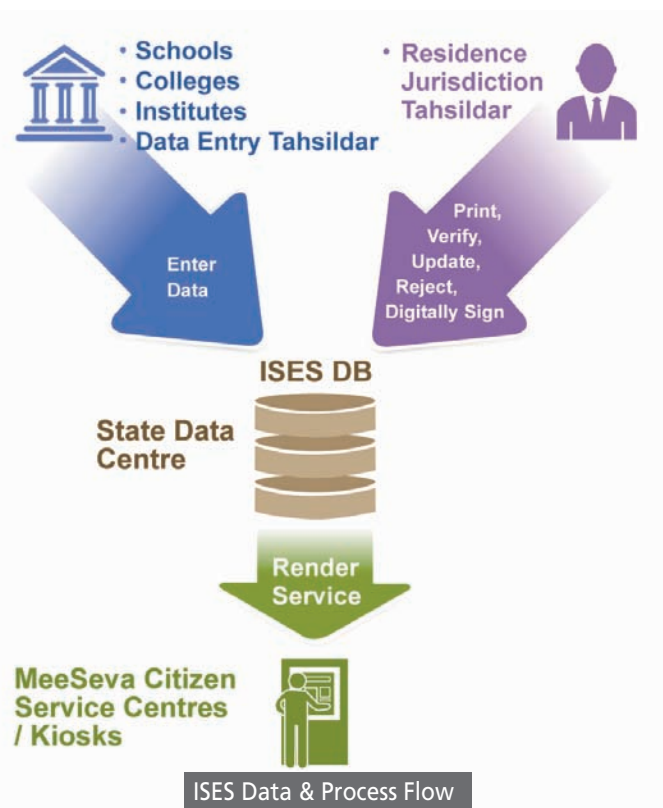
*Edited by R. Gayatri*

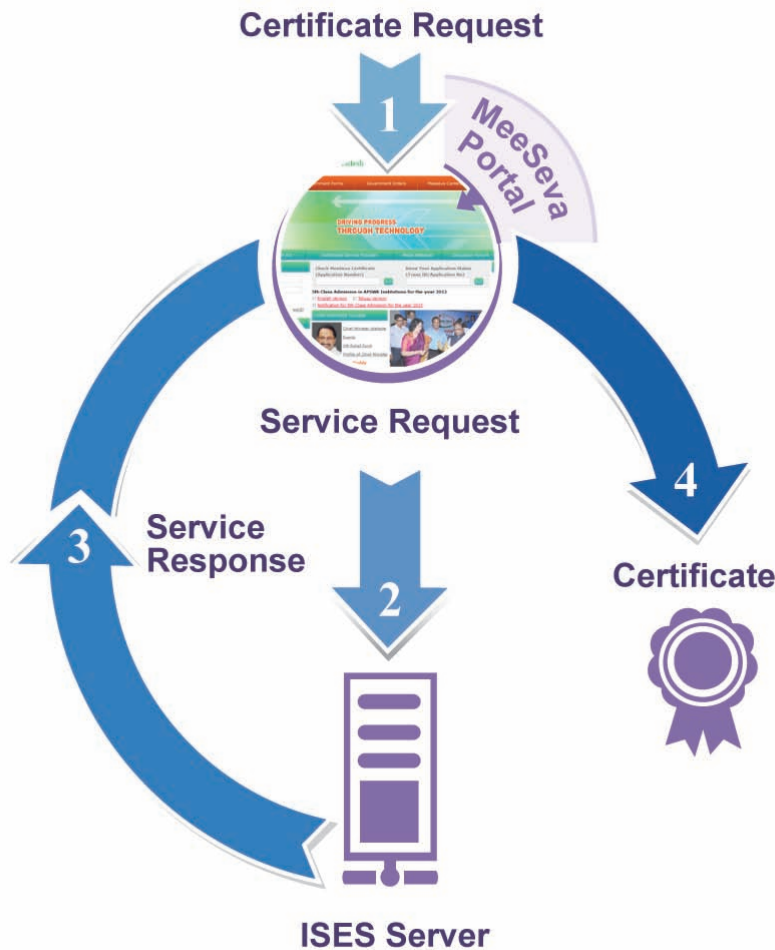
Mee Seva is an easier, faster, online, web based, transparent and secured citizen-centric service facility to provide convenient access to the citizens without any need for them to go to multiple Government offices for getting their work done. Efforts have been invested to offer various services through a seamless and integrated architecture and a friendly interface to the citizens availing services from various departments.

The certificates/documents issued under Mee Seva project are digitally signed by the authorized signatories in consonance with the Information Technology (Amendment) Act, 2008 and Andhra Pradesh Information Technology Rules (Electronic Service Delivery) 2011. These certificates/documents are printed on secured stationary which has various

security features to minimize circulation of fake certificates. Every transaction in Mee Seva is monitored and tracked through a web based system. This enables strict adherence to the citizen charter and limits the time pertaining to these services. The facility has been provided to deliver the certificates/documents through post, based on the person's choice. The person also receives SMS alert once the request is approved/rejected.

Services delivered through Mee Seva are broadly classified into Category "A" and Category "B". Category "A" services can be delivered across the counter by the Mee Seva operator. Availability of digitally signed data is the prerequisite for these services. Category "B" services require back-end operations from concerned office of the issuing authority.





ISES Service Life Cycle Diagram

**INTEGRATED SOCIO-ECONOMIC SURVEY OF STUDENTS**

As part of the MeeSeva, the Government took a decision to conduct a survey of all students studying in SSC (Class X) and above and create a digitally signed database of their Income, Residence and Integrated (Caste-Nativity-Date of Birth) Certificates.

A web based application- ISES, for this purpose, was designed and developed by National Informatics Centre, Hyderabad, to aid the department in the preparation of the digitally signed database of student records so as to enable electronic delivery of the above mentioned certificates across the counter (Category A services).

**TECHNOLOGY**

Web-based, two-tier technology with Microsoft ASP.Net in C# with backend on Microsoft SQL Server 2008 R2 and SQL Server Reporting Services is used for the genesis of ISES application.

**OTHER INNOVATIVE TECHNOLOGIES RELATED TO THIS APPLICATION**

1. Use of state-of-the-art technology, Service Oriented Architecture (SOA) for integrating the ISES Database to MeeSeva Portal for service delivery
2. Use of Digital Signatures following the ESD (Electronic Service Delivery) rules, authorizing Tahsildars to digitally sign the students' data

3. Conception of NIC-AP-DIGISIGNER, a Digital Signature Component devised by NIC, Hyderabad with the support from Microsoft Inc. The component is applied for signing student data and verification of signed data during service delivery.

4. Use of SSRS for printing a variety of District, Mandal, Village, Municipality and Ward-wise Reports

5. SMS alerts to the students soon after digitally signing of the respective student data

6. Use of AJAX technology for an efficient and enhanced user interface

**SALIENT FEATURES OF THE SOFTWARE APPLICATION PACKAGE**

1. Devise of a Java-script callable COM/ActiveX wrapper for Digitally signing data records
2. Unique ID provision for every student across the state
3. Upload facility to store Income, Caste, Address Verification Reports
4. Facility to export/print reports in various formats, viz., PDF, MS-Word, MS-Excel, XML
5. Digitally signing student records either in bulk or individually
6. Workflow escalation for digitally signing Special Castes Certificates
7. Revoke signatures with reason capture
8. Audit trail on revocation of signatures
9. Return/Reject procedure for wrongly dealt records
10. Provision of abstract, detailed reports for every administrative level (State, District, Division, Tehsil)

**CURRENT STATUS**

ISES application has become operational since 1st January, 2012. Till date, 1.5 lakh Income Certificates, 1.5 lakh Integrated Certificates, and 0.30 lakh Residence Certificates have been issued to the students across the counter from various MeeSeva centres/kiosks.

**For Further Information:**

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