

AWARDS SCHEME FOR EXEMPLARY IMPLEMENTATION OF e-GOVERNANCE INITIATIVES

NAME OF CATEGORY- INCREMENTAL INNOVATIONS IN EXISTING PROJECT

1. Year of National Award for e-Governance given to the Project

2007-08

" Integrated workflow system for Paperless Admissions to AICTE approved Courses in Haryana"

<http://tehadmissions.gov.in> & <http://onlinetesthry.nic.in>

2. Coverage – Geographical and Demographic :-

(i) Comprehensiveness of reach of delivery centers,

620 educational institutions including Universities, Engineering, Management, MCA, Pharmacy and Polytechnic Govt/Aided/Pvt colleges in the state are well connected and approachable by all students as and when required.

(ii) Number of delivery centers

All 620 Participating institutions are acting delivery centres including the HSTES (Haryana State of Technical Education Society) Panchkula office at "TAKNIKI SHIKSHA SADAN Haryana", a state level body.

(iii) Geographical

(a) National level – Number of State covered

All states (no boundaries)

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

All 21 districts

(c) District level- Number of Blocks covered

All 119 blocks, 6067

Please give specific details:-

The system is web based therefore services regarding registration, choices submission and downloading of admit/allotment letter can be availed from any internet point.

(iv) Demographic spread (percentage of population covered)

100% population of Haryana State is covered and around 15-20 % from other states as per the ratio of reservation in seats is given.

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

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- a) State used to conduct its own state level entrance exam for admission to engineering & management courses, an additional burden on the students as well as on management.
- b) Tremendous administration efforts were involved in handling lacs of application for sorting, checking and dispatch of admit cards and processing of results within time frame,
- c) Lot of postage delays and losses of documents and consequently rushing to the Boards office at State HQ for needful.
- d) Students did not have liberty to appear in the exams on a date of their own choice, which is possible now..
- e) Score of obtained marks just after completion of OLET (Online Entrance Test)
- f) Physical Security of question papers remained a issue along with fear of their leakage. also human interference/errors in evaluations and preparation of merits cannot be ruled out.
- g) Walk-in counseling at one place for entire state resulted in heavy rush at a single point, inconvenience to students , specially to the girl students in staying late and travel back to their homes during nights.
- h) Candidates did not get enough time for fair selection of their choices of disciplines, courses and institutions on paper based charts for allotments of seats.,
- i) One of the most significant bottleneck of manual counseling is that the seat vacated by a candidate is immediately made available to the candidate who is next in the queue i.e. of lower rank, however, the same seat might have opted by the candidate who was first in queue and of better rank. The computerized system has overcome this problem by making available such seats to all candidates in the queue by iterative method of seat allotment.
- j) Data analysis, processing and dissemination was a big issue in the manual system.
- k) Fees deposition has been made easier through banks, earlier it was in the form of cash/DD payment..

- 4. Scope of Services Covered**(Number, extent and list of services made ICT enabled – extent to which a service is e-enabled may be one of the four criteria's (a) Service is requested through electronic means including mobile devices – Front-end is electronic, (b) Workflow/approval process is electronic, (c) Database is electronic/digitized, (d) Service delivery is electronic

Services have been made ICT enabled as the 'front end' is electronic and web based as well as students and admission database is digitized and

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regularly updated also it is workflow based system through a website for participating institutions for updation of admission status of each reporting student online. Following main services are rendered.

- i. Deposition of token fee/entrance fee/counseling fee by the candidates in the CBS branches of PNB and Axis Bank across the country
- ii. Online Registration by candidates from any internet point for Entrance tests
- iii. Filling of Choices of Examination Centre, Date & Shift by the candidates for appearing in the entrance test.
- iv. Allotment of entrance test centre on the basis of choices filled by candidates
- v. Online Downloading of admit card for appearing in the test .
- vi. Publishing of inter-se-merit on the project website <http://onlinetesthry.nic.in>
- vii. Online Choice filling while registering for counseling from any internet point
- viii. Change, delete, add choices with respect to courses and institutions
- ix. Seat allotment and publishing of result for candidates and institutions as well as for Haryana State counseling Society.
- x. Downloading of seat allotment letter online from any internet point
- xi. Online verification of documents in support of seat allotment by the concerned institute
- xii. Online admission of reporting candidates as per their allotment by the Participating institutions.
- xiii. Various reports with respect to the participating candidates about allotment, withdrawal admission, category wise allotments, seat vacancy position etc were also made available online
- xiv. SMS / e-mail alerts

5. Overview of the original project which has been horizontally transferred/ replicated

The Department of Technical Education, Haryana, is responsible for producing quality technical manpower in the field of Engineering and Technology, Architecture, Management, Pharmacy, Hotel Management and Diploma level courses through AICTE approved Govt. / Govt. Aided / Private Institutions and University departments by making admissions to various institutes in the state as under;

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#	Type of institution	No of institutes	Annual intake
1	Engineering Colleges/ University Deptts.	61	28070
2	MBA Colleges/ University Deptts.	47	3142
3	MCA Colleges/ University Deptts.	32	1805
4	Pharmacy Colleges/ University Deptts.	27	2900
5	BHMCT College	3	180
6	Polytechnics	76	31250
	Total	246	67347

Table 1 – Technical Institutions and sanctioned Intake in the year 2007-08

To ensure quality Teaching-Learning process , streamlining of admissions is one of the important component. Therefore to address the generic problems of manual system faced by the students, their parents and state administration following major **objectives are set;**

- ✓ Bring 100% transparency,
- ✓ Minimization of travel burdens on students and parents
- ✓ To make admissions highly cost effective
- ✓ To minimize the human interference in evaluations & seat allotments
- ✓ To made available Haryana admission gateway to the students of rest country
- ✓ To establish an efficient, responsive and dynamic system of admission
- ✓ Green system (Less paper system, by including paperless entrance & Admission

In view of above, it was decided to give up the manual counseling system and to design & develop modern web based **On-line Off-campus multi counseling system**. NIC Haryana, was entrusted to accomplish the task of software development, testing & implementation web based On-line off-campus counseling and the same was implemented successfully in the year 2006-07.. During **2006-07 more than 61000 seats** were allotted. On success of online counseling system in the year 2006, the State Govt also decided to conduct online paperless entrance test (OLET) w.e.f 2007 for 5 courses to made complete paperless admissions in the 5 courses of MCA, B.Pharmacy, B.Tech (Lateral Entry), Pharmacy (Lateral Entry) & Hotel management whereas more than 12000 students registered for 5 courses. **Hence the project “PAPERLESS ADMISSIONS” IS BASICALLY INTEGRATION OF TWO PROJECTS: 1) Online Entrance Test (OLET) and 2) Online off campus counseling.** In the year 2014-15 i.e. 9th time in series, more than **95871 admissions have been through this system successfully**

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Key words:

1. Online Registration from any internet point for Entrance tests
2. Filling of Choices of Examination Centre, Date & shift for appearing in the entrance test.
3. Online downloading of admit card
4. Publishing of inter-se-merit on the website
5. Online Choice filling while registering for admission from any internet point
6. Change, delete, add choices with respect to courses and institutions
7. Seat allotment and downloading of admission letter
8. Reporting in the allotted institutions
9. Online updation of admission status by the Participating institutions.

Processes re-engineering & capacity building

- Abolishing of State level B.E./Tech. Entrance Exam to minimize burdens
- AIEEE/Jee(main) and C-MATs data of AIMA for respective admissions
- Fee payment gateway through CBS banks
- Inclusion of OLET (paper less entrance)
- Creation of digital question banks in place of paper exams
- Online registration, choices & application submission (No paper application)
- Online downloading of Admit cards/Seat allotment letters
- Online admission updation by institutions who reports for admission
- Verification of documents of students by the reported institute online
- No postal communications between students & HSTES
- Creation of HSTES,
- Constitution of BOG,
- Creation of Technical core committee for Software
- Approval of PEC of NIC on project proposal
- Signing of MOU/SLAs
- Strengthening of existing ICT infrastructure and manpower at Directorate and PIs
- Operational trainings to all PIs & further to students
- Creation of digital MCQs banks course wise
- Publicity & documentary films for self learning of students.

Technology used

MS visual studio 5.0 .NET Framework 2.0 and Java as development tool, **MS SQL (for counseling) & PG SQL (for entrance test)** as database at back-end, 3-tier web based application accessible from any Internet point for candidates and controlled secured access using range based IP for PIs and SCBH.

Implementation & operational strategies adopted

- a) **Conceptualizing the Idea:** To improve upon the above situations the Department of Technical Education, Govt. of Haryana took a bold step for Re-Engineering of the processes to make the system citizen centric and easily transferable with the help of NIC and **decided to implement the ICT driven web based solution for conducting "Paperless admissions"**.

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- b) **Institutionalization of the project:** Creation of HSCS (Haryana State Counseling Society) by the state government for project execution, management and monitoring under Chairmanship of Financial Commissioner & Principal Secretary to Govt of Haryana with all VC's of the Universities in the State as members along with other prominent and Director Technical Education as Member Secretary. Some other committees for standardization of the software and its implementation were constituted of relevant officers.
- c) **Technical & Software Support: NIC designed, developed, tested and implemented** the web based solution having access to all students – candidates from any internet point and any time as per the schedule could do for online registration, downloading and printing of admit cards and viewing of results.
- d) **ICT infrastructure and Services delivery:** The students especially of rural areas who did not have internet access at home or in nearby Cyber-Cafes were facilitated for utilization of existing ICT infrastructure of University Department/ Engineering/Polytechnic colleges across the state for online entrance test and submission of choices for counseling. Existing ICT Infrastructure was strengthened and utilized optimally. Each institution connected with at least 1 MBPS broad band / Leased Line Connectivity of BSNL. The **entrance test was conducted at 9 designated centres in the state for 9 days/4 shifts per day.**
- e) **Capacity Building & human resources training:** Existing Manpower of technical institutions were utilized for execution of the project and **service delivery** in the remote institutions, they were imparted operational training for handling of the systems and to further cope up with the visiting students for test/counseling and for resolving their project related queries/problems.
- f) **Backend Databases Creation** The Department of Technical Education Haryana got developed **question banks in the digital form.** Now it has become an asset with the Government. Through online registration, important databases of students, institutions and courses got created.
- g) **Secured & Controlled access to data:** Access to the data base system through **IP based secured network of NIC** for controlled, verifying, authentication and updation of admission status w.r.t. a candidate from their premises across the state on the central data server.
- h) **Payment gateways** through **CBS branches of PNB & AXIS** were utilized,.

Features

- Web based, User friendly,
- Privileged & Controlled access for different stake holders
- Accessible from any internet point
- Browser independent
- Near paperless, Score of OLET displayed on screen just after END Test.
- Activities are controlled by given schedule/key-dates
- Fresh registration allowed in subsequent counseling rounds
- SMS alert to candidates for important events/updates

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- DSC incorporation
- Iterative method of seat allotment**
- Verification of Documents & testimonials by the Institutions & updation admissions online using Students & Institutes password as joint key
- Modules for Physical Online On-Campus walk-in admissions
- DR sites available
- Highly available on 24x7 basis
- Rule based engine incorporated in the application dynamically

Ease in replicable, scalable & rollout

An excerpts from the message of Hon'ble CM Haryana on successful completion of the project during 2006-07 session: and after getting award in the year 2007-08.

" The Haryana is the first to introduce "on-line off-campus" counseling for all technical courses including post-graduate, under graduate and diploma education...the efforts put in by NIC & the Department of Technical Education Haryana and Haryana State Counseling Society for conducting transparent & hassle free admissions deserves appreciation..."



11-NCEG Gold ICON



CSI-Nhilent Award 2008



Skoch Award 2013



CSI-Nihilent Sustenance award received 2013



Participation & Appreciation certificate at ISCED Bangalore



Hon'ble CM Haryana appreciating award winning team

6. Innovations to the original project (Give details about the new processes / new activities, new steps , ICT interventions, functionalities introduced into the system,

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identification & removal of any bottlenecks / irrelevant steps, administrative process reforms, any use of new & emerging technology

- DSC (Digital Signature Certificate) based updation of admission data by Participating Institutes (PIs) and HSTES
- SMS alerts to participating candidates on vital activity /updates
- Online on campus (walk-in counseling) at single centralized location
- Online institution level (management. Quota admissions)
- Admission data update using joint password of student and PI.
- Provision for applying for fees withdrawal
- Student admission tracker in different counseling
- Generation of fees challan for CBS banking
- Capture & Display/Printing of candidate's original photos & Signatures for matching or verification
- OMR based application system replaced with online electronically submission of system and verification of documents by the reporting institute
- Stopped inviting hardcopies of applications from the students
- Stopped fees through Bank DD or in cash.
- Online verification of admitted students by concerned Board/University
- Scalable to 'n' number of institutions and disciplines

7. Comparative with Original Project(Provide a comparative analysis about how is this project similar / different in services provided, design, functionality, technology, platform etc from the original project).

Item description	Original project(2007-08)	Current project (2014-15)
Technology platform	MS Visual Studio 2005 .NET 1.0	MS Visual Studio 2010 .NET 2.0 & 3.5
	Web server IIS 5.0	IIS 7.0
	Cluster based servers	VM ware
	No load balancer	Hardware/software load balancer
	JDK version 6.0	JDK ver 8.1 (using PG Sql)
Functionality & Services	Basic functionality	Basic functionality
	No DSC	DSC based updation of admission data

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	No SMS alert	SMS alerts to candidates
	No On campus walk-in counseling module	Online on campus (walk-in counseling) at single centralized location
	No scanned photo & signature	Photo & signature are displayed/printed at per requirement
	OMR based application system	Replaced with complete online System
	Hardcopy of applications	Stopped hardcopies invitation
	Fear of leaking of the question papers	No fear of leakages due to electronic question bank
	Merit generation by 3rd party	Done in house
	Verification of admitted students by board/university using manually signed lists	Verification is now done online
	No provision for applying withdrawal of fees	Students can apply for fees withdrawal
	No sufficient time for choice submission	Sufficient time for submission, change, reorder etc
	No effective audit-trail logs were generated at application level	Audit trail logs are generated quite effectively and have been Used in detecting UMCs
Participating Institutions	246	620
Seats,	53347	226794
admissions	45678	95871

8. Strategy Adopted

(i) The details of base line study done,

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- SRS prepared by in-depth study
- Approval of SRS and requirements were given by the User department
- System design and approval of DTE
- Evaluation by PEC of NIC technically and financially
- Master information prepared for disciplines / branches/ courses
- Institution wise seat matrices structure were prepared
- Discipline /branch master were prepared
- Grouping and mapping of discipline courses wise, institution wise
- Mapping of qualifications with matching disciplines done
- Aggregate and PCM % eligibility criteria of certain institutions for admission
- Various kind of reservations like state policy, area specific seats, Panchayats land seats, KM, HGST, TFW, ESM, FF etc
- Seat allotment procedure primarily on the basis of rank, candidate category, institution eligibility of % and availability of seat in a category.
- Utilization of existing hardware available in technical institutions for execution of the project.
- NO suggestions for fresh investments in hardware

(ii) Problems identified,

- Lack of transparency
- Human interference in evaluations and seat allotments
- Travel burdens to attend manual counseling at central locations
- Depositing of fees through Bank DD /cash
- No centralized databases for analysis and dissemination of information
- Process re-engineering by demolishing of state level entrance test for admission to B.Tech & MBA courses
- Institutionalization of the project by establishment of HSTES and BOG
- Capacity Building by human resources training to the existing officials
- Payment gateways through banks
- Fast electronic retrieval and security of the database
- Dissemination & availability of the required data information at different level
- No sufficient time for making choices and updation in manual system
- Fear of leakage of manual question paper over the electronic databases
- No iterative seat allotment procedure in manual allotments system

(iii) Roll out/implementation model,

- AICTE common guidelines inbuilt in the code
- Rule based engine (variable part is dynamically updateable)
- No hard coding of state specific variables (generalized)
- Design document readily available
- User manual available online
- No hard-coding of local requirements
- Reports are dynamically updated

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

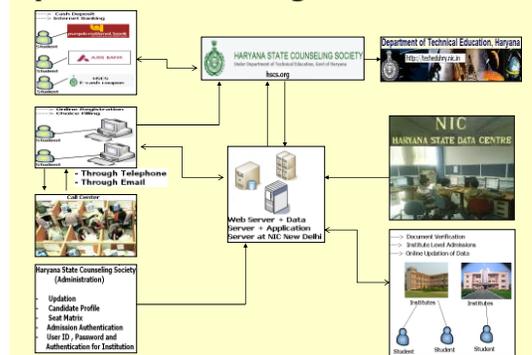
- Presentation seminars, workshops and conferences
- Recognition of entry for award by CSI-Nihilent, Skoch, 11-NCEG
- Writing of papers
- Articles in informatics and other e-governance magazines
- Screening of documentary films through state DPR
- Stalls and show casing in e-governance conferences
- Being first web based experience always remained in focus
- Departmental websites

9. Technology Platform used-

(i) Description,

- MS Visual Studio 2010, .NET 2.0 & 3.5
- IIS 7.0 web server
- VM ware architecture at Shastry Park Data centre New Delhi.
- Hardware/software load balancer JDK ver 8.1 (using PG Sql) for OLET

System Flow & Design



(ii) Interoperability

- By using Web Services
- By using the common key i.e. Unique registration No
- Now we are also planning for Aadhaar number as a common key between data bases

(iii) Security concerns

- Website & Databases are well secured as hosted at Data centre of repute of GoI, behind firewalls
- Network security has also taken care by registering the IP of accessing machine into the network fire wall
- Website/software application 3rd party security audited.
- DSC are used at user end for data updation
- Login/ passwords (MD-5 hissing techniques) have been used
- Physical security is also maintained
- Audit logs are generated to reconcile any security related issues, if any

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created.

- Public URL and Admin URL have kept different

(iv) Any issue with the technology used

No issue as such..planning to shift some activities on Mobile apps

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

It is Government organization developing for government. All activities are completed within stipulated duration and as per the admission calendar. Department is fully satisfied with the services provided by NIC. However, NIC works on the meet & exceed policy i.e if department missed something NIC take care of that in consultation with the department. Hence the project efforts are joint by NIC and DTE.

10. Adaptability and Scalability(Give details about Local language support, ability to leverage shared NeGP infrastructure, Standardization of technology used (hardware, software, application etc. #), envisage future enhancements/plans

- Since end user of this application are students of class 10th onward who are aspirant for engineering courses, therefore application is in English language
- Students are comfortable with English no language issue.
- Existing hardware-infrastructure of institutions are utilized by the students for registration and choices submission specially who belongs to rural areas.
- Future plan is to develop mobile based apps for certain activities.
- Application is scalable, as we have seen that in 2007-08 we started with 246 institutions and now it has been scaled to 620.
- 'n' number of disciplines can be added with-out problems
- 'n' number of counseling rounds can be done by using this application

11. Adaptability Analysis

(i) Measures to ensure adaptability and scalability

- User friendly interfaces
- Provision for change of user-Id passwords
- Provision of SMS alerts on registered mobile phone no.
- Fresh registrations are allowed in subsequent counseling rounds
- Candidate can appear in OLET on dates and shift of his/her own choice
- In emergencies candidate can appear in OLET from any designated centres
- No. of designated centers could be increased

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- Institution master , discipline master and related masters have been prepared to ensure scalability.
- Provision of allotment of 'any choice' in case no specific choice filled
- Errors in Candidate's details can get corrected at any stage
- Error handling has been done in application to avoid application crash
- in case a candidate allotted seat in a round he/she does not like it, no worries, he can participate in next round.

(ii) Measures to ensure replicability

- AICTE common guidelines inbuilt in the code
- Rule based engine (variable part is dynamically updateable)
- No hard coding of state specific variables (generalized)
- Design document readily available
- User manual available online
- No hard-coding of local requirements
- Reports are dynamically updated
- Haryana Model already replicable in Punjab, Uttrakhand, Gujrat, Odisha
- IPR of code are with NIC, therefore NIC could implement in any state

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

No restrictions as such.

(iv) Risk Analysis

Risk Description	Low	Medium	Critical	Mitigation Strategy
Availability of Servers 24x7 basis				Server clustering. DR site replication
User's acceptance of the New System				Training, Publicity & Helpdesk
Fees receipt data from banks to confirm admissions				Electronic interface & sensitizing banks for timely execution
Seat allotment on the basis of details submitted by students online.				Training & Help Desk to submit correct info
Online admission updation by PIs for resultant seats for subsequent allotments				Sensitizing P.I. & Monitoring
Password exploitation & change in data				Educative Publicity not to share Psswd
Transfer of Manpower				Backup manpower
Software Change requests				as per feasibility

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

(i) Volume of transactions processed, (Counseling -2014-15)

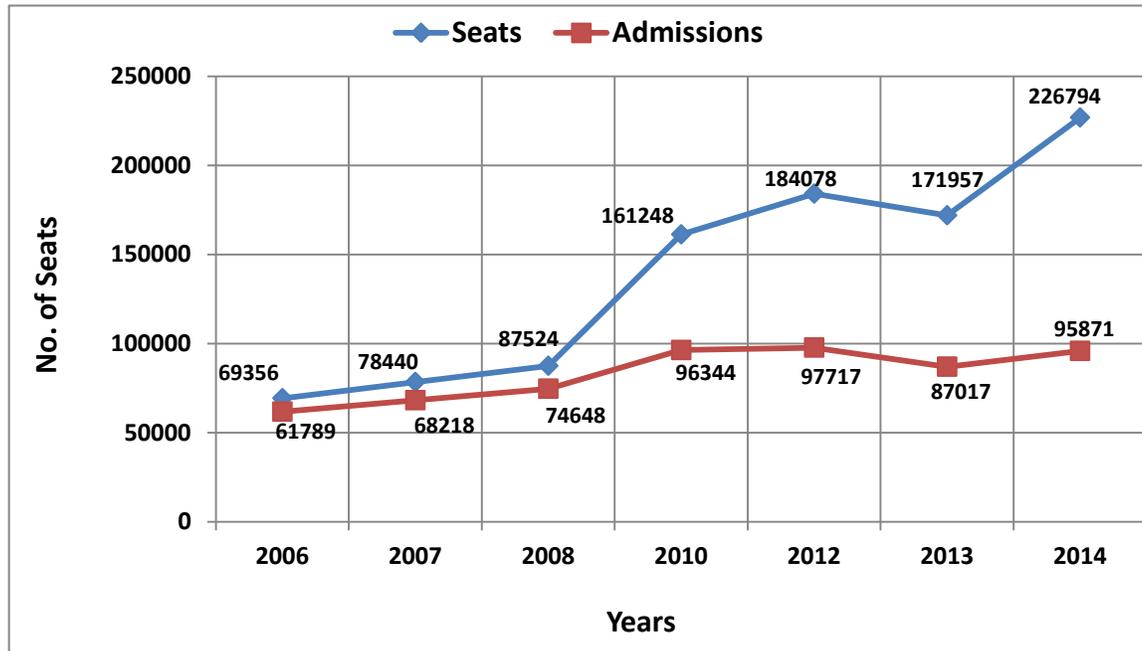
S r #	Name of Course	Total PIs	Online registrations			Total no of choice submitted by students online	Total No of Seats	Total Admissi ons Updated online
			AIC	Haryana Cate- gories	Total			
1	Diploma Engineering	213	2567	21434	24001	382081	69260	40318
2	Diploma Engg(LE)		485	4970	5455	73982	38732	12301
3	Diploma Pharmacy	22	93	1735	1828	6944	1285	1222
4	B.E/B.Tech	164	1940	14081	16021	330882	61986	26111
5	B.Tech (LE)		378	4536	4914	42053	39720	9425
6	B.Arch	18	126	333	459	2980	1040	859
7	MBA	153	4	53	57	354	11561	4879
8	MCA	50	83	940	1023	6871	3210	756
	Total	620	5676	48082	53758	846147	226794	95871

Volume of transactions processed, (OLET -2014-15)

Course Name	Online Registrations & submission of application	Admit cards published	Appeared
Diploma (Engg. and Hotel Mgt.)	33726	33726	22640
MCA	1488	1297	1107
Diploma (Engg. Lateral Entry)	11451	9449	6589
B.E./B.Tech. (Lateral Entry)	6267	5726	5301
Reserved Categories like KM, Mewat area, SDB etc)	3983		
Total	56915	50198	35637

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(ii) Coping with transaction volume growth



(iii) Time taken to process transactions,

No extra time taken ..system respond quickly without delays as per the counseling time schedule

(iv) Accuracy of output,

100% as per the available parameters.

(v) Number of delays in service delivery

No delays, all process completed in time bound manner with in counseling duration.

13. Accessibility (Give details about how following has been enhanced: user accessibility, transparency in system, single-window resolution, ease of navigation; impact on service response time, number of visits required for accomplishing the task before and after automation, Communication e-mail, SMS, web based tracking, etc.)

- Ensuring server availability on 24x7 basis
- Issuance of Login-ID & password to individuals
- Online availability of all seats and allotment results of all institutions
- Caparison along with 'what if analysis' on seat allotment can be done by any one.
- Question bank is digital, online computer based entrance done, marks

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obtained displayed just after end of test.

- Inter-se-merit, unique rank generation and breaking of ties done with full transparency
- Web based access (interface) is available for all services
- SMS alert sent for confirmation of activity specially updates in data
- Student admission tracker is available, anybody concerned can see details
- Vacancy positions are always published on website prior to allotments of subsequent round of counseling.

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

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

- Websites of counseling and OLET projects used for delivery of services and information most of the time
- SMS alerts are sent for confirmation of action
- Information dissemination through Advertisements
- Electronic notice board on departmental website
- PIs are informed through e-mails

(ii) Completeness of information provided to the users,

All complete bundled information is provided to the user through website

(iii) Accessibility (Time Window),

24x7 hours basis during the counseling period and OLET

(iv) Distance required to travel to Access Points

- All 620 technical institutions across the state are instructed by the Govt. to providing free of cost services to students regarding online registration, choices filling , downloading of admit/allotment letters etc
- Besides that Cyber cafes are also utilized by the students.
- services can be accessed from any internet point
- in view of above hardly any distance is travelled by urban users. However on the other hand rural area people may travel some distance upto the internet point.

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

Online submission facility of forms through website is available.
All required documents can also be downloaded from the website

(vi) status tracking

- Successful tracking of any transaction can be done

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- SQL server level logs are maintained and stored
- Application level audit trail log are also maintained successfully

15. Sustainability (Give details about sustainability w.r.t. technology (technology used, user privacy, security of information shared – Digital Encryption etc. #), Organization (hiring trained staff, training etc. #), financial (Scope for revenue generation etc. #))

- MS visual studio 2005 & 2008 quite sustainable technology platform
- .NET 2.0 framework C# is the development tool
- IIS version 7.0 is the Web server
- JDK and PG SQL ...for OLET is also good & sustaining
- User Privacy is maintained by separating the public URL
- Intra website is used for data updation by PIs and HSTES
- Websites are 3rd party security audited by CERT-IN empanelled agencies
- Encrypted data fly to and from client and server
- Trainings are constant phenomena
- Fees are charged from the students
- Infrastructure of institutions are used hence no investment is done by HSTES (Haryana State technical Education Society)
- Application is certified by STQC in quality
- Not only self sustaining but also provide scholar ships to poor and meritorious students admitted in various colleges /universities.

16. Ease of transaction (Give details about method deployed to educate user on how to avail service, security of data shared by user(if applicable), completeness of information provided, Linkages for financial processes (if applicable), etc. #)

- Online help desk centres at respective institutions
- 24x7 basis help desk /call centre at HSTES, state level
- Documentary films of entire process displayed on cable TV
- Online user manuals are available
- Web pages are self explanatory and navigational
- Training camps in institutions
- Entire process work flow is published on website and local news papers
- Counseling website have linkages of other related websites

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- Fee deposited through CBS branches of PNB & Axis

17. Appropriateness of context and degree of localization (Give details about degree of localization i.e. local language interface, database support etc. relevance of content, etc. #)

Objective of this application is admissions to AICTE approved courses, all participants are 10th class onward therefore keeping in view their curriculum and study material in English..Local interface is in English and no problem is faced at all. All printing & databases support are available locally

18. Cost effectiveness (Give details about impact on cost incurred w.r.t. overhead cost, direct and indirect cost, man days/man hour required to do a job etc.#)

- Solution development/customization/hosting by NIC on Govt server taking nominal charges for support services from the user Deptt
- User Deptt saves on printing cost of Brochure, OMR Sheets, question paper and handling expenses of examinations
- A huge saving on account not procuring any Hardware and bandwidth. Existing Infra structure of NIC and technical institutions is used
- Saving towards Postal expenditures to be incur for dispatching of Admit cards, allotment letters to lacs of students
- Student and parents save towards travel cost, arrangement of logistics and getting prepared Bank DD and other postal charges.
- Saving towards mobilization of vehicles

19. Number of users and services (Give details about frequency of services used in last 01 year, number of visitors, number of unique visitors, number of users etc. #)

- Admissions process occurs once a year and takes around 4-5 months in completion all services are utilized by students and participating institutions
- As mentioned in above tables this year more than 1.5 lacs students and 620 PIs has been the definite users of the website
- During the admissions more than 19.5 lacs transactions have committed
- Major services are
- Online registration,
- choices submission,

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- fee deposition status,
- downloading printing of admit card and seat allotment letters
- Admission updation and verification of documents by PIs
- Apply for fees withdrawal

20. Benefits Accrued / Impact assessment(Give a comparative Analysis of pre- & Post- implementation in terms of (a) Service Access points, (b) service charges paid by user, (c) travel cost, (d) indirect cost incurred by user, (e) comprehensiveness of service/information provided, (f) distance required to travel, (g) mode of service delivery, (h) citizen charter (time to deliver the service), (i) Green e-Governance (power & paper consumption, disposal of e-Waste etc.), (j) revenue collection, (k) Capacity Building (No. of persons trained) etc.)

S#	Item description	Pre-implementation	Post implementation
(a)	Service Access points	One centralized location for counseling and 19 Govt Polytechnics as helpdesk centres	Any internet point is access point including 620 technical institutions
(b)	Service charges paid by user	Rs. 200 - 500/- as prospectus charges	Rs. 500/- as counseling fees.
(c)	Travel cost,	Traveling to centralized admission location (one in the state)	House to the nearest internet access point
(d)	Indirect cost incurred by user	Bank DD preparation, Postal charges, prospectus cost etc	No charges
(e)	Comprehensiveness of service/ information provided	On request basis after visiting the institution	Through website
(f)	Distance required to travel	To the designated institutions or up to the board of technical education at Chandigarh	No need to travel
(g)	Mode of service delivery	Manual/by post	Through website by login into the account
(h)	citizen charter	Only during office hours	All time available
(i)	Green e-Governance	lot of paper consumption	Minimized paper consumption by decision of online application & OLET etc. Auto power off

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			machines, e-waste are managed by respective institution.
(j)	Revenue collection	Rs. 200 - 500/- as prospectus charges and other funds	Only Rs. 500/- per head for counseling/OLET fee
k)	Capacity Building	Manual system was handled y regular officials	All 620 PIs staff trained in operations as well 10-15 officials of HSTES are trained

21. **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):

❑ To organization

- Admissions process for the year 2014-15 completed (9th time in series) and 95871 admission done online.
- Online Accountability of fees deposited with different banks & financial sustainability
- Almost paper less admissions process. No administrative worries to the department.
- Readily available of data/information in desired format at different levels
- More than 30% increment in admissions over last 8 years
- Enhancement of efficiency
- Burden of conductance of state level entrance test is over.
- Fear of leakages of question papers is over
- Effective planning and finalizing of Requirements & scope in consultation with the Stakeholders.
- Interests of stakeholders should meet.
- Adhere to the time schedule

(i) To citizen

- 100% transparency and satisfactory services
- Processed data/information are available online for 'what if' analysis.
- Online registration, OLET, submission of choices, downloading of admit card & seat allotment letters from any internet point,
- Ease of registration & choices submission on 24x7 hours basis
- Enough time for submission of choices, re-ordering, editing etc
- Minimized travel burden to take services.
- Un-biased OLET (no human interference)
- Display of marks obtained just after end of OLET
- Cost effective, time saving, and great level satisfaction

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(ii) Other stakeholders

- NIC, Bank, Pls, parents, Cyber Cafes, are all stakeholder
- Effective & Educative publicity of the system
- Pilot run should be done prior to rollout
- Interfaces/access must be user friendly
- Un-scheduled down-time of servers/website must be avoided
- Risks of manpower and other resources should be mitigated.
- Change Requests must be controlled and their severity /impact on the system must be quantified prior to incorporation & must be shared with the owner
- DR sites for database backups should be tested for data retrieval
- Peak load testing should be done
- Help Desk/Call centre must run round the clock
- 3rd party security audit certification must be done

22. 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):

G2G benefits

- Enhancement of efficiency
- Less paper processing more admissions
- Cost effectiveness
- No fear of leakages of digital question banks
- No litigations because of 100% transparent system
- College/University wise online data is available for interoperability
- DBT, Scholarships schemes are facilitated by sharing of online data

G2C benefits

- Transparent system with required level of satisfaction
- Services made available online and Hassle free
- No human interference in processing of results or valuations or in provision of services
- Cost effectiveness and service can be obtained at door step i.e. from any internet point
- get acquainted with e-systems

G2B benefits

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- Banks as a stake holder are receiving fees and processing in time
- Fees withdrawal can be applied transparently.
- DBT or EBT using the online student data Postmatric scholarships
- Linkage of various Institutions counseling website for their publicity

G2E benefits

- Less paper work
- Less processing of data and compilation of reports
- Less burden
- Online tracking of transactions using audit trail log

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

Item of comparison	Earlier system	New System
Major BPR	State Technical board as executing agency	HSTES exclusive society formed
	No BOG of Society	BOG constituted
	Conductance of own state level entrances for Engg and management exam	State level entrances stopped, start using AIEEE & AIMA, MAT , NATA data
	Paper based entrance	Computer based OLET started
	Fees was deposited through DD/Cash in institution	Through CBS branches of banks
Change Management	No planned change management	Changes are reviewed and committed only after feasibility
	There was no time limit	Most of the changes are approved by BOG and to be done prior to 3rd party security audit
	No alternative , in case trained manpower quits during the project	Backup has been arranged
	No DSC usage	DSC are used

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Rules and regulations	As per AICTE guidelines & State reservation policy	As per AICTE guideline & State reservation policy
	Some business logic were hard coded	Rule based engine, all rules now updated dynamically
Change in legal system	As per requirement Audit trail log may be seen	As per requirement Audit trail log may be seen
Outcome/benefit	Transparent, Less admissions due to personal appearances, Question paper based entrance	100% transparency & 30 % increment in admissions, computer OLET based

24. Other distinctive features/ accomplishments of the project:

- Web based, User friendly,
- Privileged & Controlled access for different stake holders
- Accessible from any internet point
- Browser independent
- Near paperless, Score of OLET displayed on screen just after END Test.
- Activities are controlled by given schedule/key-dates
- Fresh registration allowed in subsequent counseling rounds
- SMS alert to candidates for important events/updates
- DSC incorporation
- Iterative method of seat allotment**
- Verification of Documents & testimonials by the Institutions & updation admissions online using Students & Institutes password as joint key
- Modules for Physical Online On-Campus walk-in admissions
- DR sites available
- Highly available on 24x7 basis
- Rule based engine incorporated in the application dynamically
- Ease in replicable, scalable & rollout

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

IMPORTANT: Documentary proof of having received National Award for e-Governance earlier to be attached with main application form.