UTTAR PRADESH DEVELOPMENT SYSTEMS CORPORATION LTD.

Uttar Pradesh Development Systems Corporation Ltd.

Technical Response Proposal for

SELECTION OF AGENCIES FOR EMPANELMENT TO CONDUCT ONLINE EXAMINATIONS FOR DIFFERENT DEPARTMENTS OF UTTAR PRADESH

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UNDERSTANDING OF THE REQUIREMENT

RFP OBJECTIVES

UPDESCO is a State Nodal Agency for providing services related to IT and ITeS. Its domain ranges from procurement and supply of Computer Hardware, Software, Training, Consultancy and Human Resources. UPDESCO is looking out for a robust system for conducting online examinations across different departments of the Government.

SCOPE COVERAGE

UPDESCO is looking for an end to end Examination Solution/ Platform where multiple exams can be conducted simultaneously by different departments. The entire examination lifecycle should be carried out with highest level of integrity, security and meticulously perform in a professional way.

IN SCOPE

The scope of work for the bidder as per the RFP are:

- Examination Solution/ Platform
- Pre- Examination Phase
- Examination Phase
- Post Examination Phase

OUT OF SCOPE

While preparing the proposal, our endeavour has been to tailor the solution to best suit the requirements expressed in the RFP. However, to propose an optimal and commercially viable solution, certain aspects which may incur additional costs and are not explicitly asked for in the RFP, are considered out-of-scope. Albeit set aside in the current proposal, any or all of these solution aspects, not limited to, may be taken into scope any-time during the period of engagement on mutually agreeable terms.

- Transfer of Technology/Delivery/Hand-over of any source-code/IP currently owned by UST or its parent/subsidiaries
- Integration, operation or maintenance of any existing/third-party systems other than those explicitly stated in the RFP
- Provisioning of Helpdesk/Toll-free number
- Supply of platform/solution for use other than as stated in the RFP
- Police Deployment in the examination centres

ASSUMPTIONS

The solution has been prepared considering the various pointers and indications specified in the RFP. However, some aspects where information was found to be inadequate in the RFP, certain assumptions have been made in-tune with industry standard-practices or prior experiences of UST. The actuals, as and when available, shall be factored in to feasibly optimize the solution.

- Application will be hosted at a MeiTy empanelled Tier III/Tier IV CSP to obtain optimal functionality
- The monitoring and control room facility shall be hosted at bidder's premise; any other centralised visibility requirements shall be based on a web based UI viewable on computer hardware owned by user.

SOLUTION CAPABILITIES

UST Global has created a niche for itself in the Digital examination space, and has enabled our clients to successfully complete their assessment processes within the defined timeframe, achieving 100% accuracy, while lowering their administrative costs.

ABOUT THE PRODUCT

UST Global presents *L'Exam*– the most advanced and intuitive Digital Examination System and it enables the conduct of large scale assessments digitally.

L'Exam has been built to meet today's demands of being a robust, modular and highly secure system that enables the administrator to minutely track activity of the examinee.

- The Registration Management module in an exhaustive section that enrols the examinee with all the requisite details
- The Question Bank management, a key component of the solution, is structured to allow SMEs to set question papers in a highly secure and encrypted environment. The digital audit trail provides a first of its kind transparency and integrity to the process
- The Exam Delivery management module allows the administrator to Schedule an assessment, publish it on the portal and then create an end-to-end workflow driven rule book that seamlessly pulls data from the Registration Module and the Question bank module to map the right candidate to the right assessment.

The Assessment module is at the heart of the solution. This module allows the administrator to configure assessment events, assessment papers, monitor the assessment and import or export data seamlessly. For the candidates, it is a very intuitive module enabling them to take the tests, save, submit and then instantly view the results.

PRODUCT HIGHLIGHTS

L'Exam has the following product highlights and this gives an idea about the extensibility, scalability and customizability to meet any requirement:

Our solution is designed for all individuals, organizations and educational institutions. It can be used for an entrance exam and similarly it can be used for recruitment process. All modules are intelligently designed to meet all the specified and future requirements of the customer. With utmost care and absolute accuracy from the process of candidate enrolment to result generation are taken care. Import/export of data in formats like MS Excel, MS Word, csv and pdf are easily available for exchange of data. SMS and email support system can be used to establish a communication channel with the candidate.

PLATFORM MODULES: MODULAR STRUCTURE & CUSTOMIZABILITY

L'Exam adopts a modular architecture to make it flexible enough and extensible for any organization to configure only the needed modules. All these modules can be hosted separately to provide the required services.

These components are highly modular and can be configured and customized as per customer requirements

Registration Management

The following features are part of the registration module:

- Complete registration cycle: applicant registration, eligibility validation, fee payment, verification, and hall ticket generation.
- Electronic security and control of confidential data.
- 128-bit password encryption by MD5 algorithm.
- Encryption at transaction level rendering virtually unreadable Database.
- All the transaction related data are encrypted and stored.
- Face detection to filter compliant profile images.
- Fully automated Rules Engine where administrator himself can configure eligibility criteria of exam.
- Role based access to data.
- Limited hardwiring of product features. Even last-minute changes could be handled well

Question Bank Management

The following features are part of the question bank management module

- Question Authoring
  - Create subject wise and category wise questions in one go
  - Handles variety of question types including Multiple choice, Descriptive, Matching, Ranking and Image
  - Intuitive user interface with simple and standard naming convention used
- Question Paper Creation
  - Create question paper for different skill sets
  - Collaborative question paper editing and question paper preparation
  - Question paper review
- Secure Role based access remotely or locally
- Create multiple 'Core' and 'Bank' questions
- Create questions based on difficulty level
- Administrator features

Exam Delivery management

The diagram depicts the default Exam Delivery Management workflow. The assessment delivery management workflow shall be configured as per the requirement of customer. During our initial Analysis phase, UST helps create an optimized pathway that is unique to the customer landscape. During this stage, UST business analysts works with the customer team in defining any compliance or regulatory steps that need to be taken that is unique to the specific customer.

Features of Exam Delivery Management

- Automation of exam location and exam center based on the candidate preference
- QR code will be printed on every hall ticket, which would contain the necessary data (including photograph) that was captured during the user registration
- No hard coding and dependency of test centres. Changes can be effected even at the last minute
- Supervisors and shift details can be configured based on hierarchy
- Define center-wise seat details and create seat matrix

Assessment management

Assessment module has the following features:

- Highly configurable yet simple to use module which can be customized to suit organizational hierarchy
- Ability to create users and assign roles
- Select from our predefined and easily identifiable roles
- Informative and user-friendly test engine with save-as-you-go functionality
- Edit questions after publishing assessment
- Configure, schedule and monitor examinations real time
- IpV4 based logins
- Detect spoofing and cheating by test takers with inbuilt monitorable security features

Report management

Report management is a highly configured module with the following features:

- Create and save ad-hoc reports in a few steps
- Pull data from any organizational database to create report categories
- Analyse with charts, bars, lines the performance of various assessment
- Filter report data by defining rules. Rule semantics in laymen terms
- Download and/or Email reports in MS Excel or PDF file from within the software

LDesk - The Support System

UST Proposes to use the L'Desk support system as the helpdesk and ticketing platform as part of the solution. The following are the features of the platform:

- Ticket 360 - Create Ticket, My Tickets, Open Ticket, Closed Tickets, and Overdue Tickets
- Ticket Filters - Define rules to route incoming tickets to the right stakeholder, and trigger actions.
- Ticket locking Pad - Ticket locking mechanism to allow agents to lock tickets during response and avoid conflicting or dual responses.
- Ticket assignment and Transfer - Transfer tickets between groups to make sure it's being handled by the correct team.
- Ticket auto-responder - Configurable automatic reply sent out when a new ticket is opened or a message is received.
- Custom Fields - Customize the data collected from users when submitting a ticket to help get straight to the issue.
- SLA - SLA Plans to track tickets and due dates
- Audit Logs - Activity logs to see events or actions that have been taken, when they took place, and by whom.

- Dashboard Reports – Ticket 360 view and statistics on tickets count and status per individual or group
- Recommendation engine - Auto Triaging of tickets and responses based on user emails
- Video/ Audio/ Chat support channels

APPLICATION ARCHITECTURE

SECURITY: All access to the server are authenticated and authorized using Spring / oAuth security. The system doesn't store user's plain text password in the database. It uses one-way hashing algorithm to store and match the encrypted password.

SCALABILITY: Fully scalable application, no restriction on number of users attending the exam.

STRUCTURE: Organizing applications into layers demarking clear separation of the GUI, the business logic and data access code.

SOA (SERVICE-ORIENTED ARCHITECTURE): Exposing major business logic through a set of Web Services allows loose coupling between business applications and reduced code duplication and maintenance.

OPEN SOURCE: Relying on Open Source technologies allows lower TCO (Total Cost of Ownership) and lower overhead of procuring and maintaining licenses.

STANDARDS-BASED: The application will be based on established industry standards. The standards-compliance will apply to application design and development, platform/infrastructure and other parts of the application.

The following diagram depicts a high level, Tiered Architecture diagram of L'Exam:

PRODUCT SECURITY

We understand that each assessment comes with its own set of security features that need to be enabled. L'Exam gives customers the flexibility to do just this, using:

- Secure Authoring and Question Paper Generation
  - Randomized question paper/bank
  - 256 Bit encrypted question paper/bank
  - Physical isolation & access control
- Transmission of Question Paper
  - PKI encryption and decryption at source and destination to avoid unauthorized access
  - Transfer using SSL VPN at 256-bit encryption

- Time bound release of password for the question paper

DEPLOYMENT ARCHITECTURE

The applications architecture is adaptable and can be hosted on cloud or on-premise based on customer requirement. UST Global has partnered with Tier 3/ 4 DC with 99.999% uptime to host L'Exam.

The users are routed to the load balancing software based on the availability and health of the server, users are directed to the Application Server. It monitors server health to determine that application servers are not only reachable, but alive. If the Load Balancer detects issues, it automatically removes downed servers from the server pool and rebalances traffic among the remaining servers

ABOUT THE PROCESS

UST has over the period developed 'The Industry Standard' processes and frameworks to conduct online assessment tests. The frameworks are agile, pluggable and highly customizable based on customer requirements and the social requirements.

The core functions include:

- Application Services
- Infrastructure services
- Training and manpower support
- Helpdesk services

- To appear in Exam, candidates will register themselves on the web portal.
- The solution is configurable to permit spot registration by making sure that all registrations are closed before the examination
- Exam centres at cities shall be decided in consultation with the customer
- Exam centres will have complete infrastructure including hardware and software

CONDUCT OF THE EXAMINATION AS PER THE SCHEDULE

PROCESS DESIGN

Candidate Validation	Registration/ Verification	Proctoring	Roster
• Photo ID • Admit Card • Validation	• Biometric • Image capture	• Invigilation • Admin • Recording	• Attendance • Reports

Step 1: At the appointed date and time, the candidate arrives at the Test Center along with Admit Card. Candidate Identification & authentication will be done by test center staff

Step 2: In case of spot registration, along with it the center staff at the registration desk will then capture candidate biometric details

Step 3: After candidates' registration, details will be generated along with candidate name, roll number, lab number, and terminal

Step 4: Once the authenticity of the candidate is established by this process the candidate will be asked to enter the testing room at the prescribed time keeping all the belongings outside

Step 5: Candidate will input his ID and Password at the Examination Login Screen at designated time

Step 6: Candidates will go through the Instructions and will start their examination at the designated time

Step 7: When the stipulated time is over examination will automatically be submitted or alternatively candidate can also finish their exam anytime by pressing the FINISH button. To avoid accidental finish of exam the FINISH button will be available only after scrolling all the questions and a two-layered confirmation will be sought before accepting the FINISH command

BIOMETRIC REGISTRATION

- Each examination centres shall setup registration counters
- Registration counter will have Webcam & Biometric Device
- Number of Registration counters will be arranged accordingly at each center
- Registration will be done using registration servers each registration server will have a backup registration server
- At the appointed date and time, the candidate arrives at the Exam Center with admit card for Identification & authentication and gets validated
- Candidate's photograph and biometric impression will be captured using the webcam and Biometric device respectively and stored at registration server and shall be provided to the customer for future use.

EXAM PROCESS FLOW

POST EXAM ACTIVITIES - DATA BACKUP AND RESULT GENERATION

UST process frameworks ensure utmost security while handling database and candidate responses.

- For CBT, immediately after Exam conclusion, complete data including candidate responses, log reports and CCTV feed will be transferred to central server in encrypted form under secured passwords

- Candidate responses will be stored safely in encrypted manner and hash value of the response of each candidate is stored in safe repository
- UST will submit candidate biometric details and CCTV feeds to the customer as well with due written receipts
- After getting written approval and instructions from the customer, UST will publish applicant list on web site for interview or as applicable
- Besides, UST will generate result of each candidate in PDF format (in mutually agreed format) send it to candidates registered email address
- A provision for addressing grievances related to errors in results will be available
- UST shall provide to the customer and/or relevant stakeholders a soft and hard copy of the data as and when required
- As required, alert messages shall be sent to candidate on result publication via SMS. Pull SMS facility shall also be provided to candidate to obtain result on mobile

PAYMENT GATEWAY INTEGRATION

CORE FEATURES:

- Supports multiple channels: Website, Mobile (Native App and WAP), Tablet, Kiosks and IVR
- Card Vaulting for express checkout experience
    - Customer to select 'remember me' option during card transaction
    - During subsequent transaction, customer to select saved card to complete transaction
    - Customer can vault multiple cards and select any of the saved card for transaction
- Shopping cart integration that allows fund settlement to different accounts based on scheme code
    - Merchant can create schemes codes to different product, service, business, location etc. and map different accounts for each scheme
    - During the transaction, merchant to send the scheme information as part of payload data and amount will be settled to bank account that is mapped to corresponding scheme

EASE OF INTEGRATION:

- API based integration for website and mobile WAP
- Mobile APK for Android and iOS
    - OTP auto-read for android
    - Card details capture using card scanning
- Single integration supports Transaction, dual validation, refund, offline verification and Server-to-Server Call
- Supports all types of payment page mechanism: Payment Gateway service provider hosted, merchant hosted and transparent re-direction
- Inline integration for 'Card Vaulting' or setting up 'Standing Instruction on Cards'
- Technology and platform specific integration kits for seamless integration

PERFORMANCE ENHANCEMENT FEATURES:

With multiple transaction routing logics and methods, Payment Gateway service provider delivers better success rate

DYNAMIC ROUTING: Payment Gateway service provider's payment gateway platform will do the dynamic switching among configured gateways to route the transaction through better performing gateway to provide better success rate

RETRY USING ALTERNATE GATEWAY: Alternative card gateway is used to complete the transaction if the transaction is failed due to acquirer gateway related issues

RETRY USING ALTERNATE PAYMENT MODE: Re-try option enables customer to change payment mode or bank without losing the shopping cart in case the transaction fails

CARD SCHEME BASED ROUTING: Payment Gateway service provider uses intelligent routing logic to process cards of specific scheme (Visa, MasterCard, Maestro or RuPay) on a particular gateway to provide better success rates

BIN BASED ROUTING: Payment Gateway service provider's routing logic identifies the issuing bank and facilitate On-Us transaction (issuing bank and acquiring bank are same) to provide better success rates

OFFLINE VERIFICATION FOR CARDS AND NET-BANKING: With offline verification feature, merchant can poll the latest status of the pending transactions; Offline verification feature is useful for merchants who work in instant gratification model (tickets, recharge etc.)

BANK PERFORMANCE ALERT MECHANISM: With Bank Alert mechanism, customer can either differ from using non-performing bank or selected different payment mode/bank to complete the transaction. This feature indirectly increases success rate

SECURITY AND FRAUD MONITORING FEATURES:

- Certifications: PCI DSS Level 3; Information security management system (ISO / ICE 27001:2005)
- Secured 128-bit SSL encryption using VeriSign certificate.
- Secured transmission of parameters using tokens to ensure higher security
- Dual verification for real-time verification of transactions data
- Verified by Visa and MasterCard Secure Code security feature for card transactions
- Velocity checks and transaction limit checks
- IP tracking and transaction time stamping
- Proactive screening of fraudulent or high-risk merchants and BINs

CAPACITY AND CONTINUITY MANAGEMENT:

- PG availability: 99.96% (Past 3 years record of 99.99%)
- Load balancing to manage high traffic

- Business Continuity Plan (BCP) to ensure continued services
- Additional capacity planned to handle the increase in payment traffic
- 24x7 Application and data monitoring team

MERCHANT ADMIN MODULE:

- Admin module is designed for merchants to run their day-to-day operations.
- Refund Management: To mark full or partial refunds
- Reports: To view and download payment life cycle related reports
- Analytics Dashboard: Payment Gateway performance analysis

TECHNICAL AND OPERATION SUPPORT:

- Dedicated client activation team to support in PG integration
- Merchant support team to resolve any queries related payment gateway
- Separate charge back team to help merchant in resolving charge back cases
- 24x7 PG monitoring team that monitors PG performance and high-risk transactions

PROPOSED SOLUTION TO UPDESCO

UST Global with its vast experience in conducting Online Examinations across multiple states for numerous Government Departments and other customers, understand the requirement of UPDESCO to conduct Computer Based Tests.

PROPOSAL FOR ONLINE EXAMINATION

Broad Scope of Activities as defined in the RFP for CBT are:

- Examination Solution/ Platform
- Pre- Examination Phase
- Examination Phase
- Post Examination Phase

THE UST PROPOSITION FOR UPDESCO

EXAMINATION SOLUTION/PLATFORM

Project Components	Sub Components	Solution Mapping	Compliance
Examination Solution/Platform	Online Application and Registration module	L'Exam Registration Module	Yes

	Online Admit Card Generation Module	L'Exam Delivery Management Module	Yes
	Examination Creation/Examination Calendar Module	L'Exam Assessment Module	Yes
	Call Center/FAQ/Query Handling Module	L'Desk Module	Yes
	Examination Centres Management and Control Module	L'Exam Delivery Management	Yes
	Controller of Examination Module	L'Exam Assessment Module	Yes
	Administrative Modules at different level like (HO, ZO, RO etc.)	L'Exam Assessment Module	Yes
	Question Bank Module	L'Exam Question Bank Module	Yes
	Online Application Registrations Module	L'Exam Registration Module	Yes
	Eligibility Checking Module	L'Exam Registration Module	Yes
	Online Payments Module	L'Exam Registration Module	Yes
	Honorarium/Payment Module a) Honorarium payment management for experts b) Other payment related to registration fee etc.	L'Exam Registration Module	Yes
	Bank Reconciliation Module	L'Exam Registration Module	Yes

	Examination Centre Allocation & Scheduling Module	L'Exam Delivery Management Module	Yes
	Online Attendance Module	L'Exam Assessment Module	Yes
	Mock Exam Module	L'Exam Assessment Module	Yes
	Evaluation Module	L'Exam Assessment Module	Yes
	Result Generation and Verification Module	L'Exam Assessment Module	Yes
	Certificate Generation and Verification Module: Certificate generation for internal authorization and authentication purposes.	L'Exam Assessment Module	Yes
	MIS and Report Generation Module	L'Exam Reports Module	Yes
	Resource Management	Process/Operations	Yes

PRE-EXAMINATION PHASE

Project Components	Sub Components	Solution Mapping	Compliance
Pre-Examination Phase	Security of Question Paper content for the entire exam life cycle.	L'Exam Question Bank Module	Yes
	Entire process is digitalized and encrypted right from creation through exam conduct.	L'Exam Question Bank Module	Yes
	Design a separate website for receiving the online application.	Online Portal	Yes

	Design the application for candidates to register themselves for the Computer Based Examination.	L'Exam Registration Module	Yes
	Integrate online payment gateway with advised vendors. The bidder has to inform candidate about rejection of the application.	L'Exam Registration Module	Yes
	Provisions for admit card download.	L'Exam Delivery Management Module	Yes
	The candidate should be able to download and take a printout of the successfully filled applications.	L'Exam Registration Module	Yes
	Draw the examination plan and design the examination processes as follows:	Process/Operations	Yes
	Complete Security management processes 1. Physical Security (The objective of physical security is to safeguard personnel, information, equipment, IT infrastructure, CCTV, facilities and any other assets at the examination center and other strategic places.) The client department shall seek support from district administration for sufficient security arrangement. 2. Information Security 3. Cyber Security 4. Server Security 5. Network Security	Process/Operations	Yes
	Mapping of candidates details with Exam Centres	L'Exam Delivery Management Module	Yes
	Validation and verification of identity	Process/Operations	Yes
	Attendance and biometric (photograph and thumb impression) handling	L'Exam Assessment Module	Yes
	Machine/seat allocation and handling of security parameters	L'Exam Assessment Module	Yes

	Bulk/individualized SMS	L'Desk Module	Yes
	Bulk/individualized emails	L'Desk Module	Yes
	Customer care number for responding to queries	L'Desk Module	Yes
	Any other processes related to conduct of Examination.	Process/Operations	Yes
	Prepare and provide Standard Operating Procedure (SOP) for all processes for safe and secure conduct of examination along with rules for contingency and exception handling/ emergency procedures.	Process/Operations	Yes
	Provide specifications for Hardware and Software required at all stages of the examination at Exam Centres including devices and systems to be used for authentication and audit trail mechanisms required for Exam.	Process/Operations	Yes
	Provide consulting, training and manpower support to handle the entire Examination.	Process/Operations	Yes
	The required Hardware, Software, networking including Internet (leased line) shall be installed by the Bidder on lease/rent basis, whose cost would be covered under the commercial bid.	Process/Operations	Yes
	Inform the applicants whose application are rejected via email or other medium	L'Desk Module	Yes
	Provide 7 days' time to rejected applications to upload any missing information/ document.	L'Desk Module	Yes
	Set minimum passing marks through application management for candidates of all categories.	L'Exam Assessment Module	Yes
	Identify required Exam Centresas per the client department requirement in cities of Uttar	Process/Operations	Yes

	Pradesh which shall be finalised by the department.		
	Ensure that 20% of the systems are available as backup per shift i.e. if 100 systems are going to be used, the center shall have 120 systems available per shift.	Process/Operations	Yes
	Ensure that all Exam Centres have the prescribed Hardware, Software, Internet and LAN connectivity for conducting Examination.	Process/Operations	Yes
	Ensure that UPS facilities and Generator facility are available at each Exam Centre for un-interrupted power.	Process/Operations	Yes
	Carry periodic audit at Exam Canters for Hardware, Operating System, Processor Speed, RAM, Network and internet connectivity, Key Boards etc. Software - Screen resolution, bandwidth for internet and LAN connectivity, Browser. Working condition of UPS and Generator.	Process/Operations	Yes
	Ensure basic amenities to be provided separately for all genders.	Process/Operations	Yes
	Provide a facility to candidates for static mock link for mock test within one month of signing the contract.	L'Exam Assessment Module	Yes
	The same facility should also be available online to be run through web server. The mock test should be a replica of the examination and should be prepared in consultation with the concerned department	L'Exam Assessment Module	Yes

	Provide help to candidates through a call center (telephone/email) on need basis depending upon the requirement of the examination.	L'Desk Module	Yes
	Host and manage the examination process through intranet based solution at Exam Centres.	L'Exam Assessment Module	Yes
	Ensure proper authentication of the candidates at the center.	Process/Operations	Yes
	Ensure complete registration process of the candidates (digital photo, signature, finger print etc.). The biometrics taken at this stage shall be used later on for authentication purposes.	L'Exam Assessment Module	Yes
	Ensure all the arrangements and adequacy of displays and provide required instructions/ information to the candidates appearing for exam at Exam Centres.	Process/Operations	Yes
	All pre-examination phase processes shall be carried out by the Bidder in consultation with the client departments.	Process/Operations	Yes
	All the necessary components and dependency of source code of computer based examination system in place so that any change required in any of the components of the software can be undertaken by their in-house technical team. Required skills should be made available to make necessary configuration changes.	Process/Operations	Yes
	Arrange first aid box at all examination centres.	Process/Operations	Yes

EXAMINATION PHASE

Project Components	Sub Components	Solution Mapping	Compliance
Examination Phase	The Bidder shall provide adequately trained manpower during examination. Exam Centre Administartor-01 IT Manager-01 Invigilators-01 per 30 systems with a minimum of 2 in a room Support Staff-Minimum 2 per 100 students (Suitability need to be justified with centres) and locations Security Guards-Minimum 1 per 100 students (Suitability need to be justified with centres) Peons-Minimum 2 per 100 students	Process/Operations	Yes
	The Examination shall be computer based with the questions being provided onscreen on a random basis with multiple choice answers, without any manual intervention.	L'Exam Assessment Module	Yes
	Sufficient time of 15-20 minutes shall be allotted before the exam for providing orientation to the candidates on the structure of the exam, time limits and guidelines for answering the question papers.	L'Exam Assessment Module	Yes
	Computer based exam software should support standard features such as automatic calculation of test score, negative marking, time left, flag questions for review, navigation to unanswered questions and prompt for submission.	L'Exam Assessment Module	Yes
	Required number of servers for a center must be provided by the Bidder for assured performance.	Process/Operations	Yes

	Additional equivalent and suitable servers for backup and mirror services will need to be provided by the Bidder.	Process/Operations	Yes
	The Bidder shall complete registration and authentication process of the candidates before start of examination (digital photo, bio-metric finger print etc.) and after that allow candidates to appear for test at Examination Centres.	L'Exam Assessment Module	Yes
	The bidder shall provide progress reports as when required to the department from every center during the examination period.	L'Exam Assessment Module	Yes
	The Bidder shall maintain audit trails of all activities of the candidate (click by click) during the course of the examination.	L'Exam Assessment Module	Yes
	The Bidder shall obtain candidate's feedback through online Feed Back Form, after the examination is over.	L'Exam Assessment Module	Yes
	The Bidder shall inform all candidates about the required stationery material to the candidates as per requirement of the examination and make necessary arrangements, if required	Process/Operations	Yes
	The Bidder shall have a contingency plan for Student management/Shifting in case of any emergency.	Process/Operations	Yes
	The Bidder shall monitor and supervise Exam Centre activities on monitoring control room equipped with all the necessary equipment to be installed by the Bidder.	Process/Operations	Yes

	The data should be real time data generated from each Exam Centre during the examination.	L'Exam Assessment Module	Yes
	At the end of the exam, transfer/export of candidate response and audit trails shall be done by the Bidder on secured channel from local server to Central server of the Bidder within 4 Hour from each exam center.	L'Exam Assessment Module	Yes
	Other data such as attendance sheet, finger print, photograph, seating plan etc. (if any) should be sent to client department within 7 days of conclusion of each exam.	Process/Operations	Yes
	There should not be any Remote Access tool in the Computers used during the examination process	L'Exam Assessment Module	Yes

POST EXAMINATION PHASE

Project Components	Sub Components	Solution Mapping	Compliance
Examination Phase	The Bidder shall calculate marks obtained by each candidate as per requirement of client department	L'Exam Assessment Module	Yes
	The candidate's responses, biometric, photograph, audit trails should be uploaded automatically from the local server to Bidder's data center in a secured manner. There should not be any traces of any data pertaining to candidate whatsoever post uploads left on the exam server.	L'Exam Assessment Module	Yes

	The Bidder should be able to hand over the raw responses/data to client department immediately (same day for morning shift & following morning for evening shift) after the candidate's response upload from local exam server. The software should have capability to take the answer key post examination.	L'Exam Assessment Module	Yes
	The Bidder shall provide an online facility to candidates to raise objections against the questions in the exam for a fixed time window. Post the objection time window, the Bidder will provide data of all the objections raised by candidates to client department. After resolving the objections, client department will provide the final answer keys for the question paper to the Bidder, which the Bidder will use to generate final scores.	Online Portal	Yes
	Mismatch settlement in case asked by the end client department. A signed copy of the same shall be shared by the bidder with the end client department.	Process/Operations	Yes
	In case of examination being conducted across multiple shifts for the same subject, the Bidder shall provide normalized scores based on rules agreed with client department.	L'Exam Assessment Module	Yes
	In addition to providing scores Bidder shall provide Merit list computed as per rules provided by client department.	L'Exam Assessment Module	Yes

	The Bidder shall provide documented inputs and support for handling O Candidates queries o RTI queries o Court Cases	Process/Operations	Yes
	The Bidder will have to carry/ demonstrate complete System Test Run (STR) with test data to client department before implementation the software.	Process/Operations	Yes
	The Bidder should also be able to demonstrate click by click audit trail for any type of enquiry.	L'Exam Assessment Module	Yes
	The Bidder should also be able to demonstrate Application server logs to capture all errors, warnings and exceptions that are generated in applications along with the time at which they occurred.	L'Exam Assessment Module	Yes
	The above requirements shall be in the form of support only. Bidder shall not be responsible for interactions with any third-party.	L'Exam Assessment Module	Yes
	Test Data Archiving: The Bidder shall archive the result and other examination data for future references after specified time, as per requirement of client department	L'Exam Assessment Module	Yes
	MIS generation/ customized reports: The Bidder shall provide adequate information to the Recruitment Wing as per the requirement of client department.	L'Exam Assessment Module	Yes

EXECUTION APPROACH & METHODOLOGY

UST Global, while formulating the project execution approach, has applied its vast knowledge and experience in transforming global businesses and implementing similar technologies across the world. The significant presence of UST Global in Indian Public Sector Business has been the key enabler in formulating an effective methodology for implementation of the solution.

The Implementation Plan describes how the information system will be deployed, installed and configured into an operational system. The plan contains an overview of the system, a brief description of the major tasks involved in the implementation, the overall resources needed to support the implementation effort (such as hardware, software. facilities, materials, and personnel), and any site-specific implementation requirements. The detailed plan will be developed during the Design Phase. Given below is an overview of the project implementation plan.

An overview of project implementation plan

PROJECT MANAGEMENT PLAN

The figure below represents our standard Project Management Lifecycle which enable us to execute against the client Project Management Requirements.

WORK PLAN

UPDESCO OE			DURATION (days)
START DATE	END DATE	DESCRIPTION	
5/1/18	5/8/18	Project Kick Off	7
5/8/18	5/28/18	Requirement Gathering	20
5/18/18	7/7/18	Development/Customization/Testing	50
6/21/18	7/21/18	UAT	30
7/21/18	7/31/18	Go-Live	10
7/31/18		CBT Examination	

TIMELINES – GNATT CHART:

Project Timelines
INDICATIVE DATES
4/30/18
5/20/18
6/9/18
6/29/18
7/19/18
8/8/18
MILESTONES
Project Kick Off
Requirement Gathering
Development/Customization/Testing
UAT
Go-Live
CBT Examination
START DATE
DURATION (days)

QUALITY ASSURANCE PLAN

At UST Global, we have a strong commitment to quality — a commitment that leads to business results for our clients. Our quality system is part of our Quality Management System (QMS) and represents a common language across UST, and our passion for operational excellence plays a key role in ensuring consistent service delivery.

APPROACH TO QUALITY

A few of the measures adopted by UST Global for this purpose are listed below.

- Institutionalization of mature software engineering processes leads to predictable and repeatable performance in projects
- A formal defect prevention process that minimizes the possibility of common defects from being injected into the software
- Dedicated Corporate Quality Office group that oversees delivery across all Business Units and has the specific charter of monitoring and streamlining operations for efficiency while maintaining effectiveness
- Automated tools and processes for time tracking and Project Management facilitate metrics-based management and cost control

All projects in UST Global are governed, audited and assured for quality and process compliance through our SQA and PMO groups, which are a part of the Corporate Quality Office. This team ensures consistent, predictable, high quality delivery execution resulting in increased business value to our clients.

MULTI-LEVEL REVIEW

We employ our standard multi-level review mechanisms as outlined in *Figure below* for quality assurance.

Quality Assurance Multiple Level Review Mechanism:

CENTER OF EXCELLENCE

The Center of Excellence (COE) is a key tenet to our approach and is the enabler to maintaining strong centralized control, managing issues, risks and facilitating distributed project execution. The COE also act as the quality control body to confirm that documents, code, designs, and other requirements meet the Client's expectations and standards.

Processes are defined for quality check and various levels of reviews and audits are conducted to ensure that the processes are followed judiciously. Each project will have a Formal Project Review, Internal Quality Audit, Support Process Review and Software Quality Assurance Review, as per the Delivery Review and Audit Process.

Configuration Management Audit and Defect Prevention Audit of projects are planned as per the Configuration Management Process of the organization. We use the same process with defect prevention and causal analysis activities.

RISK MANAGEMENT

UST has a comprehensive risk management process that, when combined with the processes for requirements management, project planning, monitoring and control serves as an effective mechanism for identification and mitigation of risk.

During the engagement, UST managers establish and maintain a risk issues log/risk register; each element of risk is identified, and tracked. A mitigation plan is established and followed through completion. Risk areas are reviewed and given specific priority levels.

UST will make the results of the risk assessment available to the customer throughout the contract term. The risk mitigation plans will be discussed as needed in the weekly and monthly project review meetings, and dependencies on client or third-party resources will be assigned, and status tracked to completion.

Standard Risk Management Process:

RISK MITIGATION PROCESS

Activity	Outcome
Risk Identification	• Knowledge management database updated • SOWs • Project Plans
Risk Analysis	• Impact on Cost and Quality • Assessing Probability

Activity	Outcome
	• Assigning Priority
Risk Response Planning	• Avoidance • Transference • Mitigation • Acceptance
Risk Monitoring and Control	• Identify residual risks even after implementing the mitigation plan • Identify secondary risks arising from the response implementation

DETAILS OF NODES IN UP

City	Center	Center Address	Nodes
Allahabad	A.M. Oxford Public School	GTB Nagar, Kareli, Allahabad, Uttar Pradesh 211016	200
	Unique Computer Institute	20 D, Liddle Rd, Darbhanga Colony, George Town, Allahabad, Uttar Pradesh 211002	175
	I-Test Exam Hub	5E-12, Chak Daundi, Arail Chauraha, Naini, Allahabad, Uttar Pradesh 211008	330
	Narayan Charitable And Educational Society	III-T Chauraha, Jhalwa, Saha Urf Pipalgaon, Uttar Pradesh 211012	250
	Sai Institute Of It Management	1st Floor Rehan Complex,(Infront of TCI) Mahewa, Dandi, Naini, Allahabad, Uttar Pradesh 211008	300

	S P Convent Inter College , Chak Mundera	Ram Chandra Mission Ashram, Ram Chandra Mission Road, Mundera, Allahabad, Uttar Pradesh 211011	200
	Shri Ganesh College Of It Management	56/15 A Shri Ganga Complex,Lucknow Road, Near Vineeta Hospital,Phapham au, Allahabad, Uttar Pradesh 211013	297
	Srishti Infotech	1/1C Lucknow Road, (Beside Vineeta Hospital), Phaphamau, Allahabad, Uttar Pradesh 211013	253
	Prayagam educational & welfare society	Sector A-50 Behind LIC Office, 211013, Shantipuram, Phaphamau, Allahabad, Uttar Pradesh 211013	150
	Madhu Vachaspati Inter College	Raja Ram Arya Marg, Sulem Sarai, Allahabad, Uttar Pradesh 2436650	240
	S P Computer Institute	Sahara Public Girls Inter College,Karamat ki Chauki, Kareli, Allahabad, Uttar Pradesh 211011	150
Gorakhpur	Buddha Institute Of Technology	CL-1, Sector 7, GIDA, Gorakhpur, Uttar Pradesh 273209	180

	Swastik Online	Prakash Complex, Nausarh Chowk, Gorakhpur, Uttar Pradesh 273016	798
Agra	SMT Bhudevi P.G. College	Nikhil Paradise Colony, Near Sachdeva Million School, Bodla-, Bichpuri Rd, Shastripuram, Agra, Uttar Pradesh 282007	360
	RCS Memorial Degree College	Jaipur Highway, Sahara Sarai, Nanpur, Agra, Uttar Pradesh 283105	120
	SKN IT	S-1 & 2,2nd Floor, Block No-41/4A, Friends Tower Sanjay Place, Agra, Uttar Pradesh 282002	168
Varanasi	OCBT IT Services	Maharshi Dayanand Marg, Narharpura, Ausangan, Varanasi, Uttar Pradesh 221001	150
	Blitz Institute Of Creative Arts (Bica)	2nd Floor, Shakumbhari Complex, Durgakund Rd, Anandbagh, Bhelupur, Varanasi, Uttar Pradesh 221001	500
	Gautam Infotech	C 26/35-35, Near Gautam Hotel, Ramkatora, Rampuri Colony, Jaitpura, Varanasi, Uttar Pradesh 221001	150

	Alpran Software Pvt.Ltd	B38/1K, Arjun Complex, 3rd Floor, Rathyatra - Mahmoorganj Road, Mahmoorganj, Varanasi, Uttar Pradesh 221010	200
Kanpur	Axis Institute Of Technology & Management	Hathipur, Rooma, NH-2, Milestone 478, Kanpur, Uttar Pradesh 208001	350
	GAPI	134/1, Rathore Building, Koyla Nagar,,Kanpur, Uttar Pradesh 208011	250
	Shubh Computer	87/152-153, C-7 Acharya Nagar,Kanpur, Uttar Pradesh 208003	180
Lucknow	ETL Labs Pvt Ltd	CP/6, 3rd Floor, Vikrant Khand, Gomti Nagar, Lucknow, Uttar Pradesh 226010	165
	ICDL Institute For Career Development	551/K /135, SBI Road, Chandar Nagar, Alambagh, Lucknow, Uttar Pradesh 226005	165
	Masters Consultancy Services	140 Durgapuri,Vigyan Khand, Bharwara Crossing Gomti Nagar, Lucknow, Uttar Pradesh 226010	176
	Star Animation Institute	15, Ashok Marg, Civil Lines, Lucknow, Uttar Pradesh 226001	110

	S V Computer Academy	1.5 Km Stone, Chhattamel Chauraha, Raitha Road, Lucknow, Uttar Pradesh 226201	220
	Tech Testing Solutions	Amar Shaheed Path, behind Jaguar Landover Showroom, Transport Nagar, Lucknow, Uttar Pradesh 226012	432
	Thirumala Education Academy	Near diamond resort, raibareilly Road, Mohanlalganj, Uttar Pradesh 227305	254
Bijnor	Veer Kunwar Institute of Technology	Nagina Road Bijnor-246 701 (U.P.)	100
	MD College of Higher Education for Girls	Opp. Bairaj Colony South Ring Road Near Chamunda Mandir Bijnor, Uttar Pradesh 246701	100
	Vivek Group of Colleges	Moradabad Road, Bijnor, Uttar Pradesh 246701	100
	RV Institute Of Technology	9th K. Stone Bijnor-Moradabad Road, Bijnor, SH 76, Uttar Pradesh 246728	200
Rampur	Apex Group Of Institutions, Kaushalganj, Rampur, Rudrapur	National Highway 87, Tehsil Bilaspur, Distt. Rampur, Kaushalganj, 244923	100

Kasganj	Smart Computer College	Kaliyan Pur, Uttar Pradesh 207123	100
	Uit-Computer-Education-Centre	Durga Colony,Street No-2 , Kasganj, Uttar Pradesh 207123	100
Pilibhit	Lal Bahadur Shastri Training Institute(Lbsti)	LBSTI, Kothi Ram Vimal, Infront Of Raja Kothi, Station Road,, Pilibhit, Uttar Pradesh 262001	100
Faizabad	K B Infosolution Pvt.Ltd	Near railway crossing , Panch Koshi Parikrama Marg,, Panckosi Orbiting Path, Faizabad, Uttar Pradesh 224001	110
	Institute for Advanced Computer Technology	21/03/44/03 Behind Choti Devkali Mandir., Sapt Sagar Colony, Tulsi Nagar, Ayodhya, Uttar Pradesh 224123	200
	M.K. Gramodyog Vikas Evam Prasikchan Samiti	7/2/145,A, Wazirganj japti,Near Japti Primary School, Ashwinipuram Colony, Faizabad, Uttar Pradesh 224001	140
Jhansi	Parnika Institute	08, Tilyani Bajariya,, Jhansi, Uttar Pradesh 284002	150
	Var Infosystems	B-7 Infront of JMK Hero, Shivpuri - Jhansi Rd, Sangam Vihar,	165

		Jhansi, Uttar Pradesh 284003	
Mathura	IITM Computer Institute	236 Shivpuri, Infront of New Bus stand, Mathura, Uttar Pradesh 281001	100
	Sanskriti University	28 K. M. Stone, NH 2, Mathura - Delhi Highway, Chhata District, Mathura, Uttar Pradesh 281401	280
Jaunpur	Jan kalyan Sewa Samiti	Indrashani Complex,Balua Ghat, Near Hotel River View, Jaunpur, Uttar Pradesh 222001	100
Ballia	AMS Institute Information of technology	7/266 Word No. 8, Bibipur Belthara Road, Ballia, Uttar Pradesh 221715	100
	Dr. Ganeshi Prasad Institute of Information Technology	Civil Lines , Near Doordarshan Kendra , Ballia, Uttar Pradesh 277001	100
Bareilly	Shri Jeet Ram Smarak Institute Of Engineering & Technology	Pilibhit Road, Rithora, Khata, Bareilly, Uttar Pradesh 243122	100
	Yatikas Computer	Shri Ram Murti Rd, Rampur Garden, Bareilly, Uttar Pradesh 243001	120
	Vintech Computer Education	35-S/6, Rampur Garden, Bareilly, Uttar Pradesh 243001	100

Shahjahanpur	Tirupati Engineers	Opposite Sitapur Eye hospital, Near Jali Kothi, Shahjahanpur, Uttar Pradesh 242001	100
	E-Pioneer Compuware Pvt Ltd	2nd Floor Chandra Bhawan, 280 Sadar Bazar, Shahjahanpur, Uttar Pradesh 242001	100
Hapur	Sanskar Education Group Formerly Shree Ganpati Institute Of Technology	NH-24, Ahead Masuri Canal, Opp. Jindal Nagar, Ghaziabad, Uttar Pradesh 201302	220
Mau	Pacific Institute of Technology	In-front of Union Bank, Ratanpura, Mau , Uttar Pradesh 221706	120
	Balaji Computer Centre	Near Sanskrit Pathshala, Harikeshpura, Mau, Uttar Pradesh 275101	100
Ghaziabad	K.S.Jain Institute of Engineering & Technology	5th K.M. Stone Hapur Road, Bhojpur, Modinagar, Ghaziabad, Uttar Pradesh 245304	100
	Bhagwati Institute Of Technology & Science	Masuri Canal, NH-24, Hapur Road, Ghaziabad, Uttar Pradesh 201302	350
Etawah	JLN Institute of Computer Science	176(68-A) New Colony, infront Bhumi Vikash Bank, Chaugurji, Etawah, Uttar Pradesh 206001	100
	Narayan Institute Of Computer Science	885, Vinod Nagar, Court Road, Near	100

		Bank of India Etawah, Uttar Pradesh 206001	
Ghazipur	ACSM Computer Center	Devi Dayal Marg Road, Lodipur, Katba, Ghazipur, Zamania, Uttar Pradesh 232329	100
	TERI PG college	Post Graduate College,Ravindrapuri Ghazipur, Uttar Pradesh 233001	100
Gautam Budh nagar	Greater Noida College of Technology(GNCT)	Plot No. 6-B, Knowledge Park II, Greater Noida, Uttar Pradesh 201306	250
	Greater Noida College of Technology(GNIT)	Plot No. 7, Knowledge Park II, Greater Noida, Uttar Pradesh 201306	650
Noida	Mangalmay Institute of Engineering and Technology	8 and 9, Knowledge Park II, Greater Noida, Uttar Pradesh 201310	250
Amroha	Indraprastha Institute & Techinical College	NH-24, 115 KM. on Delhi-Moradabad Road, J.P. Nagar District, Shahbazpur Kalan, Amroha, Uttar Pradesh 244236	120
Meerut	Bansal Institute of Engineering & Technology	NH – 58, Near Pawli Khas Railway Station, Modipuram, Meerut, Uttar Pradesh 250110	150

	CERT Institute Of Technology	NH-58, Delhi – Haridwar Highway Partapur, Bye pass Road, Meerut, Uttar Pradesh 250103	215
Gonda	Nandini Nagar Technical Campus	Nawabganj, Gonda, Uttar Pradesh 271303	100
Muzaffarnagar	Imagine Insttute of Fellowship and Learning	IIFL Institute, Opposite S.D Degree College, Near Petrol Pump , Bhopa Road, Muzaffarnagar, Uttar Pradesh 251001	100
	Vedagya Sewa Samiti	R/O VSS Institute, Link Road, Near American Institute,Muzaffarnagar, Uttar Pradesh 251001	100
Banda	Knowledge Institutes of Professional Studies	Shivala Complex,2nd Floor, Maheshwari Devi Road, Banda, Uttar Pradesh 210001	100
Kaushambi	Dr.Rizvi College Of Engineering & Management	Rizvi Educational Complex, Karari, Kaushambi, Uttar Pradesh 212206	180
Aligarh	Mangalayatan University	33rd KM Milestone, Aligarh-Mathura Highway, Beswan, Aligarh, Uttar Pradesh 202145	400
Sonebhadra	Datasoft Institute	Main Road, Shaktinagar, Sonebhadra,	100

		Uttar Pradesh 231222	
	Career Computer Institute	Ward No-7, Aryanagar, Opp. Radhika Lodge, Post Robertsganj, Sonebhadra, Uttar Pradesh 231216	100
Saharanpur	Digital Graphics Computer Education	1st Floor, Talwar Complex, Near Vijay Talkies, Chakrata Rd, Saharanpur, Uttar Pradesh 247001	100
	Advance College of Information Management	4/330, Chakrata Road,Pul Jogian, Above Canara Bank Saharanpur, Uttar Pradesh 247001	100
Mirzapur	Vindhya Computer Institute	HOUSE No.-1218, Kishun Prasad Marg, Near City Kotwali, Mirzapur, Uttar Pradesh 231001	100
Moradabad	ACTC Computer Center	Prakash Nagar Chowk, Linepar, Moradabad, Uttar Pradesh 244001	100
	ACTC Computer Center	A-102, C L Gupta Bagh, Samrat Ashok Nagar, Kashiram Road, Moradabad, Uttar Pradesh 244001	100
	New Century Computer Institute	MIG 14 Kanth, Ashiyana Rd 1, Moradabad, Uttar Pradesh 244001	100
Sambhal	Roshan Singh Chauhan Smarak Mahavidyalaya	Graam Tanda Kothi(asmoli), Post Khaspur, Via-	100

		Pakbara, Sambhal, Nagla Needer, Uttar Pradesh 244102	
Firozabad	S.R.K. College Of Computer Science & Education	Kotla Rd, Gandhi Nagar, Firozabad, Uttar Pradesh 283203	100
Mainpuri	Hardik Institute Of Management and Technology	74 Bagwan Near Fort, Mainpuri, Uttar Pradesh 205001	100
	Dr. Ram Manohar Lohia Inter College	Kishni, Mainpuri, Uttar Pradesh 205303	100
Lakhimpur Kheri	Mahendra Niketan (UPCISS Computer Institute)	Gangotri Nagar ,Lakhimpur Kheri, Uttar Pradesh 262701	100
	Ankisha Computers	Near Water Tank, Behjam Road, Lakhimpur Kheri, Uttar Pradesh 262701	100
Ambedkar Nagar	Trans Institute	Near Block Akbarpur-Tanda Road Gandhi Nagar, Ambedkar Nagar, Uttar Pradesh 224122	100
	VJV College of Technology	Ramnagar, Alapur, Ambedkar Nagar, Uttar Pradesh 224181	100
Budaun	Shine Academy	Near Pandit Ji Petrol Pump, New Adarsh Colony, Budaun,Uttar Pradesh 243601	100
	E-Gurukul College	Vijay Nagar, Near Shishu Mandir School, Budaun, Uttar Pradesh 243601	100

Baghpat	Maharaj Agrasen College of Higher Education	Delhi, Saharanpur road, Baghpat, Uttar Pradesh 250609	100
	Shri Ram College of Higher Education	Opposite River Park I, Delhi-Saharanpur Road, Baghpat, Uttar Pradesh 250609	100
	Indradev Institute of Education and Technology	Muradnagar Road, Baghpat, Uttar Pradesh 250609	100
Sitapur	SRM Multiservices Private Limited	78 Near Water Tank, Munshiganj Sitapur Up 261001	100
	Zama Computer Institute	Taxi Stand Khairabad, State Highway 30B, Khairabad, Sitapur, Uttar Pradesh 261131	100
Unnao	IOCS Computer Education	69, Hakim Tola, Hakim Tola, Sabji Mandi, Unnao, Uttar Pradesh 209801	100
	Kanpur Institute of Management Studies	10 Km. Milestone, Kanpur-Lucknow Highway,Singrausi , Unnao, Uttar Pradesh 209801	100
Chandauli	Sharda Private ITI	Sanghati, Sakaldiha,Chandauli,Uttar Pradesh 232120	100
	Sanjay Computer Trening Center	Vill- Balua Kaithi, Post- Gurera, Teh-Sakaldiha, Chandauli, Uttar Pradesh 232109	100
Basti	Computer Point Technical College	Ward No. 8 Babhnan Near	100

		Sabji Mandi, Basti, Uttar Pradesh 272161	
	Shiv Shakti Computer	Malviya Road, Basti,Uttar Pradesh 272001	100
Amethi	Infonet Computers	Amethi, Uttar Pradesh 227405	100
	Sai Computer Training Center	Front R.R.P.G. College, Sai Computer Antu Rode, Amethi, Uttar Pradesh 227405	100
Balrampur	Vikas Technical Institute & Management	Near Petrol Pump, Mathura-Bazar, Balrampur, Uttar Pradesh 271861	100
	Vikas Technical Institute & Management	Near Titu Takeej, Pahalwara, Balrampur, Uttar Pradesh 271201	100
	AISECT training center	Nai Basti Balrampur, Near Ambedker Chauraha, Balrampur, Uttar Pradesh 271201	100
Bahraich	Kisan Post Graduate College	Brahmnipura, Bahraich, Uttar Pradesh 271801	100
	Bahraich Institute of Technical Studies	APTECH Campus, 1ST Floor, OPP. Mahila Degree College, Civil Lines,Near Nanpura Kothi, Bahraich, Uttar Pradesh 271801	100
Shamli	Gurukul computer Education & Training Centre	C.B. Gupta Colony, Shamli, Uttar Pradesh 247776	100

Azamgarh	Comptech Computer Center	64-A, Vani Vilas Sector-B, Gokul nagar, Kolbajbahadur, Kolghat, Azamgarh, Uttar Pradesh 276001	100
	Shri Durgaji Inter College	NH-233, Azamghar Ambedkar Nagar Road, Sehda, Maharajpur, Azamgarh, Uttar Pradesh 276001	100
Lalitpur	JMK Education	Near Krishna Cinema, Station Road, Lalitpur, Uttar Pradesh 284403	100
	Jain College	Temple Old Sagar Rd, Civil Lines, Lalitpur, Uttar Pradesh 284403	100
Hardoi	BIT Computer	Near Bus Building, Cinema Road, Hardoi, Uttar Pradesh 241001	100
	Nature Social & Educational Welfare Society	Circular Rd, Hardoi, Uttar Pradesh 241001	100
	Unique Computers	Mohan Bhawan,Aloo Thok, Hardoi, Uttar Pradesh 241001	100
Jalaun	ACT Institute of Information Technology and Management	Village Gohan, P.O. Gohan, Distt. Jalaun-285129, Uttar Pradesh	100
Shravasti	Vikas Technical Institute & Management	Near Power House, Katra, Shravasti, Uttar Pradesh 271805	100

Auraiya	Future IT Guidance	Auraiya Phaphund Rd, Janak Dulariya, Auraiya, Uttar Pradesh 206122	100
	K K Computer Center	Bramha Nagar - Badanpur Road, Nishad Nagar, Auraiya, Uttar Pradesh 206122	100
			19043

**Tentative list.*