

Quote per unit in INR (including Support & Maintenance for three years)

Sr. No	Items (Per Unit)	Rate Offerd By The M/S. Versatile Process Controls Pvt. Ltd., Pune (Gyan Varsha) per unit	Quote rate per unit price (by bidder) in words and figure	Number of units Both in words and figure
	1. Hardware: LED Multimedia screen, Computing device, facial attendance device, evaluation hardware, solar micro power grid, mounting mechanism	400000.00		182
	2. Software: Student Data Management, eLearning digital content, evaluation software, attendance software, video conferencing, Notification, cloud infrastructure, Training and Capacity Of Teachers			
	3. Internet connectivity And other services			
	4. Warranty and Support for 3 years.			
	Total			

Swiss Challenge Proposal
For
Selection of System Integrator
For
Implementation, Training and Support of
Educational Ecosystem (Gyaan Varsha)
In Zilla Parishad Schools, Nagpur

Swiss Challenge Tender

Reference No

Date of Issue

Due Date

Name & Address of the : Education Department (Primary), Zilla Parishad, Nagpur
Swiss Challenge Tenderer
(Bidder

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Section – I

1. Invitation to RFP under Swiss Challenge method

1.1. Swiss Challenge Notice

Proposals using 2 bid System (Technical and Commercial) are invited for Selection of System Integrator for Implementation, Training and Support of Educational Ecosystem Program For 182 Schools In Zilla Parishad, Nagpur Maharashtra Under Swiss Challenge Method.

- I. Zilla Parishad, Nagpur invites Technical and Commercial bids from bidders for providing the mentioned services in scope of work. The bidders, who intend to participate in this bid, are required to follow the below mentioned stages:
 1. Pre-Bid Conference.
 2. Purchase of Swiss Challenge Bid Document.
 3. Technical & Commercial Swiss Challenge bid submission.
 4. Submission of Sample before the last date of submission of the bids (Bidder will not get any payment for the sample submitted).
 5. Opening, Scrutiny, Verification of Pre-Qualification and Technical bids of bidders as per the Direction of Govt. of Maharashtra.
 6. Presentation by the qualified bidders.
 7. Opening of Commercial Bids of bidders.
 8. Final Evaluation of Bid proposal by High Power Committee Govt. of Maharashtra, constituted under the provisions of Government Resolution (Industry, Energy & Labour Department) dated 01/12/2016 Chapter 2 Para 2.9.1.
- II. Interested companies may download the Swiss Challenge document from the website <https://mahatenders.gov.in>.
- III. The bids must be submitted only through online mode on <https://mahatenders.gov.in>.
- IV. Consortium bids are not allowed neither sub-contracting for bidding the Swiss Challenge tender is not allowed.
- V. All concerned departments of Govt. of Maharashtra and Zilla Parishad, Nagpur reserve all the rights to reject any or all the proposals in whole or part without assigning any reasons at any point of time.
- VI. The Swiss Challenge document is not transferable.
- VII. The project contract period is of 3 years. The decision to extend the contract can be taken by Zilla Parishad, Nagpur as per the approval, guidelines and terms & Condition of the concerned department of Govt. of Maharashtra and the selected bidder jointly at the end of contract period. The terms and conditions will be mutually agreed at the time of extension.
- VIII. Swiss Challenge bid (tender) validity is 180 days.

The bidder must make an online payment of the Swiss Challenge tender fee of INR 50000.00 (Fifty Thousand Only) The payment must be made through the payment gateway available at <https://mahatenders.gov.in> at least one day before the actual submission of bids. However, it is advised that the payment is done at least three days before the actual date of submission of bids to avoid any bank transfer delays. The Swiss Challenge tender fee shall be non - refundable.

The bidder must make an online payment of INR. 750000.00 (INR. Seven lacs Fifty Thousand Only) as Earnest Money Deposit (Online) one day before the actual submission of the bids. However, it is advised that the payment is done at least three days before the actual date of submission of bids to avoid any bank transfer delays.

1.2. Important Dates

Event	Target Date
Tender Fee	INR.50,000/- to be paid online on mahatenders.gov.in.
Download of Swiss Challenge tender documents	06 /03/2019 11.00 Am
Bid validity period	180 days from the date of opening of commercial bids
Online EMD	INR. 750000.00 (INR.seven lacs fifty thousand only)
Last date to send in requests for clarifications	19/03/2019
Date, time and place of Pre - Bid Meeting	Zilla Parishad Nagpur, Date - 25/04/2019 Time - 12.00 pm, Venue – Khedkar Sabhagraha, Zilla Parishad, Nagpur
Last date for submission of bids	29/04/2019 upto 15.00
Opening of pre-qualification and Technical bids	06/05/2019 At 1.00 pm Education Department(Pri), Zilla Parishad, Nagapur.
Scrutiny, verification and evaluation of pre-qualification bid	To be declare and communicated latter
Presentation by short-listed bidders	To be declare and communicated latter
Declaration of short-list of bidders for commercial bid	To be declare and communicated latter
Opening of commercial bids	To be declare and communicated latter
Address for communication	Education Office (Pri.)Zilla Parishad, Nagpur
Contact Person and Contact	Education Office (Pri.) Zilla Parishad, Nagpur

Details for Queries	Mdmnagpur15@gmail.com , ssanagpur1@yahoo.co.in
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Important instruction:

- 1) Tender opening schedule is subject to change with prior notice to the Tenderers/Bidders.
- 2) Right to accept/reject any or all the Swiss Challenge tenders or cancels the entire tender process without giving any reasons is reserved with Chief Executive Officer, Zilla Parishad, Nagpur and all the concerned department of Govt. of Maharashtra.
- 3) The final decision about the outcome of the Swiss Challenge tender process will be taken as per Government resolution (Industry, Energy & Labour Department) dated 01/12/2016 chapter no. 2 para 2.9.1 and chapter no. 3 para 3.2.7 after the approval of the High Power committee as constituted under the provisions of the mentioned Govt. Resolution.
- 4) All prevailing/new Government resolutions and instruction issued by the Information Technology Department, School Education & Sports Department, Rural Development Department, Industry, Energy and Labour Department, Law and Judiciary Department, Finance and Accounts Departments as well as other statutory authority constituted by the Govt. of Maharashtra will be applicable and binding to this tender process.
- 5) The directions issued by all competent Courts of law will be applicable and binding to the entire bidder and Stake Holders at all stages of the tender process.
- 6) The final agreement will be made with the successful bidder after and as per the approval of the High Power Committee, as per Government Resolution (Industry, Energy & Labour Department) dated 01/12/2016 Chapter 2 Para 2.9.1 and other relevant Govt. Resolution of all / any department of Govt. of Maharashtra.
- 7) No compensation of any kind given to any bidder or participant to the bidding process by Zilla Parishad Nagpur against any claim of fees, loss, damages etc. for participating in this tender.

Section – II

2. Instructions to Bidders

2.1. Definitions

1. “Applicable Law” means the laws and any other instruments having force of law in India as they may be issued force and in force from time to time.
2. “Bid Proposals” means proposals submitted by bidders in response to the Swiss Challenge tender notice issued by Zilla Parishad, Nagpur on submission of Swiss Challenge proposal by M/S. Versatile process controls pvt.ltd., Pune (Gyan Varsha Project).
3. “Committee” means committee form as per the direction of Govt. of Maharashtra or competent committee of the Zilla Parishad, Nagpur.
4. “Contract Price” means the price payable to the firm/company/agency under the contract for the complete and proper performance of its contractual obligations.
5. “Contract” means the contract signed by the parties along with the entire documentation specified in the Swiss challenge tender documents as per the approval, guidelines and terms & conditions specified by all the concern dept. of the Government of Maharashtra.
6. “Day” means Calendar day.
7. “Effective date” means the date on which the contract comes into force and effect.
8. “Government” or “GoM” means State Government of Maharashtra.
9. “Personnel / Resources / Manpower” means professional and support staff provided by the agency and assigned to perform services to execute an assignment and any part thereof.
10. “Services” means the work to be performed by the agency pursuant to the selection by Zilla Parishad, Nagpur and to the contract to be signed by the parties in pursuance of any specific assignment awarded to them by Zilla Prishad, Nagpur.
11. “The Swiss Challenge Bid” means tender document.
12. “UI” means User Interface & “UX” means User experience.
13. System Integrator or “SI” is the Participated Bidder.
14. “Vendor / Selected Agency / Agency / Service Provider” means the bidder selected post the Swiss Challenge evaluation process to perform the obligations mentioned in the scope of work.
15. “Swiss Challenge bidding method” means the bidding method as prescribe in Government Resolution (Industry, Energy & Labour Department) dated 01/12/2016 chapter no. 3 Para no. 3.2.7 and chapter no. 2 Para no. 2.9.1 constituted by the Govt. of Maharashtra
16. “Swiss Challenge Evaluation Committee” – means the committee appointed or constituted to evaluate the Technical & Commercial Bids as Per The approval and direction of the concerned department of Govt. of Maharashtra.
17. “High Power Committee” – means the committee constituted as per the provisions of Government Resolution (Industry, Energy & Labour Department) dated 01/12/2016 chapter no. 2 Para no. 2.9.1.

2.2 Project Brief

Introduction & Background

There are 1555 schools of Zilla Parishad in Nagpur district. As per the KRA issued by the Hon. Chief Minister it is aimed to make each School digital. Accordingly digital revolution is going on since last 2 years in Nagpur district. Various workshops were conducted for forming digital schools. People awareness was made through the medium of workshops. Because of involvement of teachers and public support, 298 schools in the district now become projector digital.

So also 398 schools having less strength of students are made digital through LED. If the District Mining Foundation creates digital school, 50% schools in the district will become digital schools. Moreover it will be convenient to achieve goal of formation of digital schools.

As per order no. ZMP/Pra.S./012018/09 dated 17.01.2018 issued by the Collector and Member Secretary, District Mining Foundation, Nagpur under Prime Minister Mineral Regional Welfare Scheme, 10.00 crore fund is approved for creating digital smart classroom, digital class room etc. in 182 Zilla Parishad Schools.

As per letter no. SHNV-2017/ (2016-17)/ MD6, School Education and Sports Department Mantralaya, Mumbai, dated 29.01.2018 of the Principal Secretary, of Maharashtra Government, the Hon. Chief Minister has granted approval, in the meeting convened on 21.06.2017 at "Sahyadri AtithiGruh", Malbar Hill, Mumbai, for making the useful digital technology available for the schools, as developed by Versatile process controls pvt.ltd, Pune as per the concerned district remarks, considering the utility of technology for schools. "As per point no 3 (2) of minutes of aforesaid meeting the fund shall be made available under CSR or other sources to implement the digital school project in 182 schools in Nagpur District. As per the aforesaid project there are directions to make available the following items."

- 55 inches LED screen/ white boarding screen.
- E-contents.
- Internet connectivity.
- Educational assessment Of Students.
- Attendance through facial recognition by web camera.
- Facility of video-conference.
- Facility about making parents aware of student's attendance and Educational Progress through mobile.
- Installation of Solar Energy Set where electricity is not available.
- To make the changes in E- content as per changes approved by Vidya Pradhikaran, Pune if changes or revision required in E-content due to change in syllabus or for other reason within next 3 years.

So also as per point no. 1 in letter outward number 537 issued by State Project Director, M.P.S.P. Mumbai dated 02.02.2018 the education Maharashtra program is started with effect from 22..06.2015. Accordingly about 63,000 schools in the state have become digital.

As per point no. 2 the target to make 100% schools progressive and digital under Progressive Education Maharashtra Program is set up.

1.60 lacs teachers in the State have declared themselves as techno-savvy. Through Maharashtra Vidya Pradhikaran, Pune enough E- Content is available on 100% concepts through MITRA App for teachers.

A meeting was convened under the Chairmanship of Hon'ble Chief Minister in 21.06.2017 at "Sahyadri AtithiGruh", Malbar Hill, Mumbai for taking Review of School Education Department. In the aforesaid meeting it was informed that under Gyan Varsha Digital Lab, 10 schools were selected in the state and in those schools on the roadmap principle POC (Proof Of Concept) Digital Lab is formed. In the aforesaid Digital Lab, facilities of 55 inches LED Multimedia/ White Boarding Screen, E- Content, Internet Connectivity, Educational Assessment of Students, Attendance through Facial Recognition by web camera, Facility of Video-Conference, facility about making parents aware about students' attendance and Educational progress through mobile, Installation of solar energy set where electricity is not available, are made available. The Concerned Chief Executive Officer of Zilla Parishad had submitted the report to the government that the technology under Gyan Varsha Digital Lab program is useful for bringing and retaining children in the school and for teaching and requested to make available the aforesaid technology to the schools. The Hon'ble Chief Minister after considering the utility had approved to implement aforesaid technology step-wise in all schools is approved in meeting dated 21.06.2017.

For implementation of the Fast Progressive Education Maharashtra Program it is necessary to create 100% digital classes in 100% schools. Considering the utility of Gyan Varsha Digital Lab the approved fund can be made available from sources at different level including social - participation, sanctioned amount for unique project from District Planning Development Committee, 14th Finance Commission at Village Panchayat Level, Pesa, CSR (Corporate Social Responsibility) and E- Governance on following all rules of government and rules about purchase and the prescribed procedure, is noted.

The Proposal 07.09.2018 for purchasing material by Swiss Challenge Method is received in this office from M/S Versatile Process Control Pvt. Ltd., Pune (Gyan Varsha Prakalpa).

In the meeting dated 17.09.2018 of District Mining Foundation, Regulation Council, Nagpur, sanction is granted to purchase material as per Swiss Challenge method.

As per Government Resolution 01.12.2016 issued by Industry Energy And Labour Department As per para 3.2.7 of Chapter Number 3 of the Government Resolution dated 01.12.2016 issued by Industry Energy and Labour Department, purchase department has to purchase by Swiss Challenge Procedure/Method. However before giving such consent purchase department has to take permission/approval from High Power Committee headed by Upper Chief Secretary/Principal Secretary/ Secretary is noted. Accordingly a proposal for purchasing material for aforesaid project by Swiss Challenge Procedure/Method is submitted to Secretary, Rural Development Department Mantralaya, Mumbai vide letter dated 18/09/2018. Accordingly Account and Desk Officer, Maharashtra State Rural Development Department, Mantralaya, Mumbai vide letter dated 03.12.2018 had approved to start the procedure to purchase education material by Swiss Challenge Procedure/Method for digital classes in proposed scheme. Subject to final Approval of the High power Committee constituted under chapter no. 3 para no. 3.2.7 of the Government Resolution dated 01.12.2016 issued by Industry Energy And Labour Department.

2.3 Swiss Challenge method

उद्योग उर्जा व कामगार विभाग यांचे शासन निर्णय दिनांक ०१.१२.२०१६ मधील प्रकरण क्र.३, परिच्छेद क्र. ३.२.७ नुसार सदर खरेदी पध्दतीमध्ये खाजगी पुरवठादाराकडून खरेदी दाराला तो पुरवठा करणा-या मालाचा / वस्तुंचा दर्जा व किंमतीबाबतचा प्रस्ताव पाठवतो. खरेदीदार असा पुरवठादार ईतर पुरवठादारांकडे पाठवून त्यावर त्याच दर्जाचा माल कमी किंमतीत पुरवला जाईल किंवा असे याबाबत विचारणा करतो. जर त्यानी कळविलेली किंमत कमि असेल तर त्याच कमी किंमतीने मुळ खाजगी पुरवठादार माल पुरवण्यास तयार असेल, तर त्यास देकार कळवितो. जर मुळ खाजगी पुरवठादार अशा कमी किंमतीतील माल द्यावयास तयार नसेल तर ज्यांनी कमी किंमत कळविली असेल अशा पुरवठादाराकडून माल खरेदी करण्यासाठी देकार कळवितो. अशा पध्दतीने खरेदी विभागास खरेदी कता येईल. परंतु असा देकार कळविण्यापुर्वी खरेदीदारी विभागाने संबंधीत विभागाच्या अप्पर मुख्य प्रधान सचिव/सचिव यांच्या अध्यक्षतेखालील उच्चाधिकार समितीची (परिच्छेद २.९.१) मान्यता घेणे आवश्यक आहे.

स्विस चॅलेंज ही खरेदी प्रक्रिया अती महत्त्वाच्या प्रकल्पांना लागणा-या परंतु खुल्या बाजारपेठेत कमी प्रमाणात उत्पादीत किंवा उपलब्ध आहे अशा वस्तुंच्या खरेदी साठी वापरण्यात यावी.

स्विस चॅलेंज ही खरेदी प्रक्रिया अति महत्त्वाच्या प्रकल्पांना लागणा-या परंतु, खुल्या बाजारात कमी प्रमाणात उत्पादित किंवा उपलब्ध आहेत अशा वस्तुंच्या खरेदीसाठी वापरण्यात यावी. सदर खरेदी प्रक्रिया बाजारात सहजतेने उपलब्ध असलेल्या वस्तु/ उत्पादनांच्या खरेदीसाठी आणि एकल स्रोत उत्पादनासाठी वापरण्यात येऊ नये. संबंधित खाजगी पुरवठादाराने सदर वस्तु बाबतचा सविस्तर प्रस्ताव / व्यवहार्यता अभ्यास अहवाल खरेदीदार विभागाकडे सादर करावा. खरेदीदार विभागाने सदर अहवालाची तांत्रिक/वाणिज्यिक तपासणी करावी तदनंतर सरचा प्रस्ताव शासकिय गरजांची / अटींची प्रथमदर्शनी पूर्तता करीत असल्यास तो विचारात घ्यावा.

(Free translation in English)

As per Para 3.2.7 of Chapter 3 of Government resolution issued by Industry, Energy and Labour Department dated 01.12.2016 in aforesaid purchase procedure private supplier submits proposal to the purchaser about the standard/ quality of the goods /items to be supplied and the cost. The purchaser sends it to other suppliers seeking information whether goods of same standard could be supplied in fewer prices. If the informed price is less and if the original private supplier is ready to supply in that less price, acceptance is communicated to him. If original private supplier is not ready to supply goods in such fewer prices then acceptance for purchase is communicated to them who had quoted less purchase price. Purchases can be made by the purchase department by such procedure. However it is necessary to take approval from the High Power Committee headed by Upper Chief/Principal Secretary/Secretary of the concerned Department.

Swiss challenge Purchase procedure/method is utilized for purchase of goods required for very important project but are less produce or less produce available in open market.

2.4 Swiss Challenge proposal submitted by M/s. Versatile process controls pvt Ltd, Pune, (Gyaan Varsha)

2.4.1 Swiss Challenge proposal for selection of system integrator for implementation, training and support of educational ecosystem (Gyaan Varsha) program in Zilla Parishad, Nagpur, Maharashtra.

In light of the background and Swiss Challenge method mentioned above in 2.2 and 2.3. A Swiss challenge proposal is received from M/s Versatile process controls pvt Ltd, Pune for selection of system integrator for implementation, training and support of educational ecosystem (Gyaan Varsha) program, 182 school in Zilla Parishad, Nagpur (as per 4.1) for implementation of the project.



To,
Educational Officer,
Zilla Parishad,
Nagpur, Maharashtra.

Subject: Proposal (Swiss Challenge) – a learning ecosystem.

Respected Sir,

India, recently, is taking major strides in the field of science, technology and development. Multiple initiatives by The Government of India, like the Smart City Initiative, make in India initiative and The Digital India Program has inspired many to contribute towards India's active accelerated growth in the field of technology.

Like the many inspired citizens, we, at Versatile Process Controls, are really inspired by the government's Digital India Program and India's efforts towards achieving the UN Sustainable Development Goal-4 (Quality Education).

We hope to use our years of experience in the field of education, technology and automation to provide millions of Indian children, the makers of India's future, with seamless access to the incessant knowledge present in the world through formal education system. Our vision is to aid the

government's efforts in digitalization of schools to enhance a child development by creating a robust ecosystem for the academic institutions.

With this in mind, we are enclosing the following proposal for integrated educational ecosystem that we have designed names, "Gyaan Varsha".

Regards,

SD/-

For Versatile Process controls PVT LTD.

- **Current scenario:**

On studying the current scenario of the primary education system, from our point of view following are the areas, where improvement is expected,

- A majority of children developing sense of -phobia of one or two subjects.
- Number of students opting for private schooling.
- Administrative burden on teachers.
- Data collection and remedial action for it.
- A majority of the students learn science and geography through textbooks instead of active observation and experimentation in labs, natural settings, field trips or the use of equipment.
- Grammar is a grave area of concern as students often develop an incorrect or insufficient understanding of fundamental concepts that lead to further problems in learning of the Language.
- Some major areas of Mathematics such as algebra, spatial thinking, geometrical constructions, applications of math concept etc. do not have enough scope in the curriculum.
- Introduction of Real-life application / activity base / theatre base learning will make the concepts easier to understand and bring interest in students of joyful learning.
- Skill development of teachers in area of mindfulness, emotional intelligence, voice modulation, different types of teaching techniques, book reading, and evaluation mechanism will help to bring positive and effective change education.

- **Efforts by the government:**

We were really impressed by the efforts our government is undertaking to enhance the education quality of rural education by attempting digitization of school.

Following are some of the many efforts that we observed:

- Digitalization such as projector, e learning, screens.
- 'Tech savvy' teachers are creating Common forum.
- Skill development of teacher program
- Computer Lab
- Improving school infrastructure
- Introducing teacher – parents meetings program

- **Observation:**

Efforts have been taken through the “Sarva Shiksha Abhiyan” Initiative to achieve the attendance and test evaluation result statistics from schools through field visits and manual uploading of the numbers on the MHRD web site. However, on further investigation, we noticed that, the process of data collection is very laborious and is subject to many delays. Also, the manual input process is very susceptible to human errors leading to a doubt in the authenticity of the information.

In general, there is very less accountability or traceability of data obtained. This problem leads to a need of a new coherent ecosystem which will provide a platform where for all the individual implemented technologies.

To achieve accountability and traceability of data, there is need to have an **end to end learning solution** which can be implemented practically in any rural or urban conditions.

According to us, such a solution should have the following minimum parameters:

- Solution should be non-monopolistic.
- Solution must be designed on an open platform and should accommodate all the older systems/solutions.
- Solution should communicate to common platform to create educational web.
- Solution should be secure, and no manual interference is possible to manipulate data.
- Solution should report all information like attendance and evaluations online.
- Solution should be able to add educational contents as and when required easily.
- Solution should be interactive to make learning more-friendly.
- Solution should have feedback arrangement to report non-manipulated results.

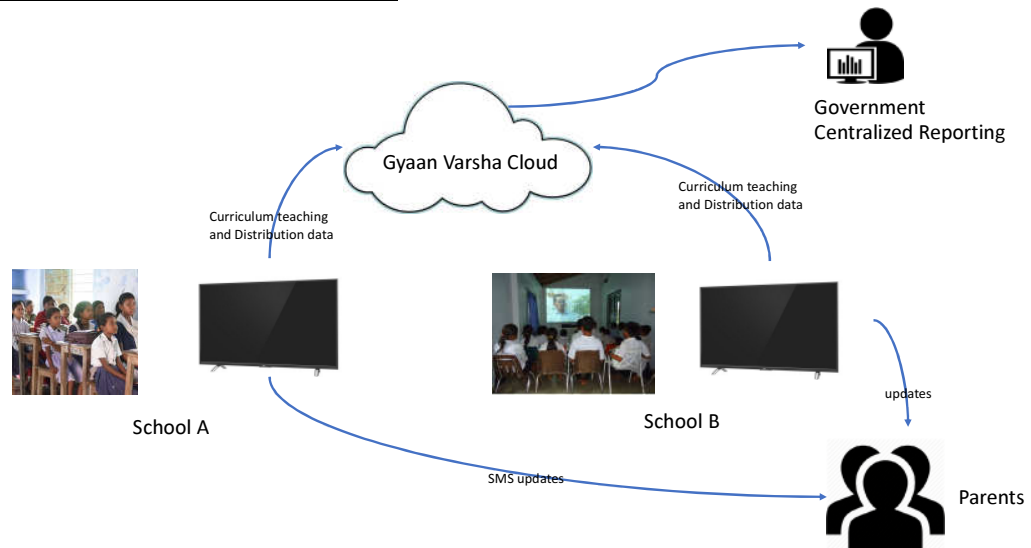
- **“Gyaan Varsha”:**

Our Mission is to “Built a future ready Edutech platform to enhance child development while creating a robust ecosystem for the academia”

In the light of this mission, we have developed an end to end Learning solution called “Gyaan-Varsha” – a learning ecosystem.

Our Thought process,

Technical Architecture :



- Functional Specifications

- Function 1: Students Data Management

The agency is responsible for installing the appropriate student data (Name, roll nos., Saral ID, standard etc) into the display console/Central Controller unit and the attendance unit. The agency will train teachers on how to enrol students in the Central Controller unit and the attendance unit. The teachers will be able to reconcile the list of students. This mean the functions of Adding, Modifying and Removing Students attached to the school. Also, the facility of bulk uploading of students in a school will be possible.

The Teacher/Principal of the school, will have the facility of promoting students to the next Standard/Grade when the academic year concludes. This facility will be available for a single student as well as for the complete class.

- Function 2: eLearning Digital Content

The solution will provide customized content in forms of digitized content of the existing syllabus known as E-learning as prescribed by the SSC board. In addition, the solution will provide a variety of interactive and engaging study material that increases retention in the minds of the students, while making the delivery process easier for the faculty. A key aspect is that content will be available in 'Marathi' and 'Semi-English', the mediums of the recipients again with a view to make the delivery of concepts as palatable and permanent as possible. Content will be designed from the perspective of experiential learning as opposed to simple knowledge transfer by speech and writing. Typically, the content would be Audio Visual centric. The E-learning software will have all subjects including languages Marathi, Hindi, English of standards 1st to 10th. It will have a well organised index. It will have play/pause, forward and rewind tabs along with lesson progress report with questionnaires. All the revisions to curriculum within the warranty period of 3 years will be included without any additional cost.

- Function 3: Whiteboard

The digital whiteboard software which will be used as an alternative to regular black board will consist of all tools and teaching aids like ability to add infinite pages, save a workbook, different pen styles, colours, shapes, faculty tools, inbuilt image libraries etc.

- Function 4: Student/Faculty Attendance

Improvements can be done in the current paper based attendance system so that valuable information can be stored, archived and retrieved easily. The current system becomes susceptible to falsifying attendance records. The solution will plug this gap by employing latest in biometric technology of face recognition. This will give a unique identity to each student and will enable traceability. The attendance functionality will be linked to the other functionalities as mentioned in previous and following sections. The attendance unit will be connected to the display unit via a communication cable and the attendance data will be transferred to the central controller. The agency will provide training on how to conduct and register the daily student attendance. Also, the agency will train the teachers on how new students and their faces need to be registered in the attendance unit.

- Function 5: Digital Evaluations

The current evaluation system is paper based and hence error prone, susceptible to misuse, damage and very challenging to archive and retrieve, let alone use for analysis. The solution will make evaluation completely paperless and online. Moreover, the evaluation will be layered for slice and dice according to student, chapter, topic or suitable metrics. The system will contain preloaded tests, ability for configuring additional tests and spot creation of evaluation tests by the teacher. The test will be conducted in manual or auto mode. In auto mode, the countdown timer will be in seconds.

The application will have effective evaluation modules to know the understanding of every student against each topic.

The evaluation system will be robust and will not have options to manipulate the results.

The application will allow flexibility to choose options/questions on a subject from start to end of the page.

The system will consist of an evaluation kit, questions related to curriculum for all standards, all subjects and topics and a proper evaluation software interface that will track and report the real-time evaluation for all students

All the students in one class will be able to take the examination simultaneously i.e. like the current pen and paper based examination.

Instantly after completion of the test, a pie chart depicting the answer options percentage, correctness, actual answer and the answer each student gave will be shown. At the end, a mark sheet of all students will be shown.

Evaluation modules for each topic and student specific information on understanding level. No possibility of manual intervention and tampering. Real time reporting and backup to web application will be available.

- **Function 6: Analytics, Online Dashboard and Reporting**

The data captured by the content, evaluation and attendance functions will have to be harnessed for actionable progress steps. The data captured through the units in local school will be stored locally and pushed to cloud as and when the internet connectivity is available for creation of online dashboard. This functionality will complete the feedback loop to the administration officials. This is achieved through a dashboard report for the key metrics available to administration officials. All the metrics in the online dashboard needs facility to aggregate data at the block/beat/taluk level for reporting and quick decisioning.

E.g.:

- Students list with all the details from each school.
- Evaluation: No of students that have scored below 35%, 35-59%,60-75%, 75% and above.
- Attendance: No of students present: % Male, % Female, by class, etc.
- Periodic (weekly, monthly, quarterly) reports on evaluation and attendance will be generated from the consolidated data and sent to the administrative officials. The format for these reports will be shared with the selected agency.
- The visual representations will be in the easy to read form of pie charts, bar charts, histograms etc. Each student's progress can be monitored and gaps in development filled in so that he/she may achieve his full potential.

- **Function 7: Mobility**

The data and processed reports will also be available on the move for quick decision making. This can be achieved through a web app that links to the system and runs the same analytics on a mobile platform. Access for the data would be controlled based on geographical jurisdiction. Reporting will be made easy by Analytical Dashboards

- **Function 8: Governance and Security**

Due to the sensitive nature of the data, the solution will provide checks and balances in for of tight access control. This may be in the form of geographical limitations of data access in the web portal. The web portals and mobile application will be protected by state of the art firewalls to prevent corruption by adware, Malware and viruses. Moreover, data security and authenticity will be maintained by the solution provider always through regular audits and processes.

- **Function 9: Backup Hybrid Solar Micro Grid**

In some areas, penetration of electricity has not happened or power is intermittently available. Therefore, the solution will also have a supporting captive micro-grid based on solar power to ensure that the system runs for 4 hours if the electricity is not available.

- **Function 10: Auxiliary Functions**

Besides these primary functionalities, system will also serve as an internet access device, a video conferencing facility. It will also be used as a communication channel and a direct uplink to spread important circulars, notifications, and announcements from administrative officials to students and school faculty. It will allow accessing only the education related content and websites over the internet. All other websites will be blocked/banned.

- Function 11: Un-Interrupted Operations

The schools under consideration of this project are in remote areas where facilities like Internet connectivity may not be available or if available, could be of lower speed. Hence we need that the essential daily functional requirements such as eLearning, Whiteboard, Attendance, Evaluation etc will be installed locally (offline) on the unit with zero dependency on the internet for normal day to day functioning. This requirement is extremely necessary since the schools cannot afford loss of teaching time due to any downtime/slow speed by the internet provider.

- Function 12: Remote Monitoring

The agency will have Central Remote Monitoring and Network Operations Centre for monitoring the health of digital units. This application will have health status monitoring for hardware as well as software components of the unit. The Central Monitoring system will measure key parameters including but not limited to,

- Operating System and its usage statistics on processor, memory consumption within last 24 hrs
- Free Disk Space available and Illegal/Unauthorized program installed Alert
- Operation System Updates, Antivirus virus definitions update alerts
- Ability to perform preventive maintenance and install the updates remotely
- Application and Database key parameters tracking such as data and log files
- Area-wise drill down for the schools plotted on the map

- Function 13: Helpdesk Operations

1.The selected agency will provide one facilitator behind 50 nos installation for training, troubleshooting & feedback mechanism to achieve the maximum output for the contract period.

2.The selected agency will provide helpdesk services till the warranty period of three years. The details of levels are mentioned below.

Level 1: Provide a dedicated helpdesk number that the school authorities can call for any operational problem or assistance related to the unit. This helpdesk will have technical and operational experts who can help resolve the issue over phone.

Level 2: If the issue could not be resolved by telephonic assistance, the agency will send technically qualified and capable person to the installation site within stipulated time to resolve the problem.

Agency will ensure that all spares will be available off the self during period of three years for replacement if required. The spare parts will be replaced free of cost if the fault occurred is due to manufacturing defect otherwise on chargeable basis and ensure the unit will be kept operational all the time.

3.The agency will have to maintain a register of the support and maintenance requests received from each of the schools and provide area wise consolidated reports.

- Function 13: Capacity And Skill development of teachers

The role of a teacher is vital in developing human capital. It's not just enough for the teachers to transmit academic knowledge to students but it is also important that teachers possess crucial soft skills. These soft skills are essential to engage the students meaningfully and improve their comprehension, shape their self-esteem, nurture students' abilities and help them in their overall development. Some of the challenge's teachers' face today can be classified into areas like effective communication and teaching styles, managing emotions and stress, flexibility in thinking and decision making, creativity, self and health management. The agency will run soft skill development program for teachers yearly twice at each school.

- Essential Components :-

Particulars	Method of evaluating the bid		
	Sr. No	Criteria	
Educational Content	1	Content as per the state board syllabus (Topics and subtopics exactly mapped as per Textbook)	Essential
	2	E-learning video should play uninterruptedly for full lesson	Essential
	3	Play, pause, forward, reverse, volume control buttons	Essential
	4	Progress indicator of each lesson	Essential
	5	E-learning video must be able to play in annotation mode along with whiteboard software	Essential
Digital Evaluation	1	Multiple choice questions evaluation method	Essential
	2	Inbuilt questions and answers	Essential
	3	Each student must be able to answer separately by individual remotes.	Essential
	4	Interlinking with biometric attendance module (To avoid	Essential

		proxy test taking)	
	5	Question attempt acknowledgement	Essential
	6	Facility to amend the answer	Essential
	7	Facility to create new questions by teachers.	Essential
	8	Ability to add new questions by push data from web login	Essential
	9	Facility to incorporate external readily available MCQ question set	Essential
	10	Facility to conduct Evaluation test in manual mode or auto mode with settable count down timer.	Essential
	11	Immediate report generation after test completion	Essential
	12	Graphical Representation of Results and Analysis for each questions.	Essential
	13	Evaluation report search by type of evaluation, subject and class	Essential
	14	Evaluation report should be automatically pushed to cloud storage when internet connectivity is available	Essential
Attendance	1	Biometric attendance unit with face and fingerprint/ RFID recognition provided	Essential
	2	Automatic and offline logging of the attendance report on the device	Essential

	3	Attendance report search by, date and class	Essential
	4	Attendance report should be automatically pushed to cloud storage when internet connectivity is available	Essential
Cloud connectivity	1	Cloud connectivity provided for online data reporting	Essential
	2	Secure connection with the cloud server	Essential
	3	Storage of attendance and evaluation reports of all schools upto 1 year	Essential
Web Login	1	Web login	Essential
	2	Admin, superadmin, management, teacher logins	Essential
	3	Evaluation and attendance report viewing with geographical location wise grouping.	Essential
	4	Facility to Push MCQ test from cloud to individual/ group of schools.	Essential
	5	Sending Notifications and announcements to schools by management, admin and super admin logins	Essential
Video Conferencing	1	Cross platform video conferencing software provided (works on windows, mac os, linux, android, ios)	Essential
	2	ability to do video conferencing from this device to mobile/laptop/pc	Essential
Display	1	55" display with toughened glass 3mm	Essential

	2	10 point touch screen facility	Essential
	3	Inbuilt 2x10W speakers	Essential
PC	1	All in one unit	Essential
	2	4GB ram and 500GB hard disk expandable	Essential
	3	IOT or Equivalent operating system	Essential
	4	Tested for 50 deg C temp	Essential
Evaluation kit	1	RF based receiver and student remotes	Essential
	2	Unto 400 remotes can be connected to the receiver	Essential
Attendance device	1	Biometric attendance unit with face and fingerprint/RFID recognition provided	Essential
	2	Connectivity with the PC for attendance reporting	Essential
Webcam	1	720p resolution colour webcam	Essential
	2	Inbuilt mic	Essential
Solar backup	1	Solar panel of at least 235W	Essential
	2	Hybrid Inverter min 735VA rating	Essential
	3	Battery min 65 AH or min backup time 4 hrs (whichever is higher)	Essential
	4	MNRE certification required	Essential
Internet connectivity	1	internet connectivity with 1gb per day and prepaid for 1 year	Essential
Services	1	Remote infrastructure management software provided	Essential
	2	Onsite Teacher training &	Essential

		capacity development Module	
	3	Maintenance and support Module	Essential
	4	Helpdesk mobile app for teachers	Essential
Sample product	1	Completely working sample with all hardware and software features along with teacher training manual, user manual and all documents of company submitted for evaluation	Essential
Experience in similar kind of project executed at school level along with its study report & testimonial	1	All supporting documents provided	Essential
Bidder Exposure to the Education Domain	1	All supporting documents provided	Essential
Project Execution plan, Approach and Methodologies	1	All supporting documents provided	Essential
Current infrastructure, tools and machinery	1	All supporting documents provided	Essential

- Technical Specification

The system will be composed of the following key hardware and software systems to carry out the above stated functionalities

- Hardware Components
- LED multi touch screen

DESCRIPTION	SPECIFICATION
Display	55-inch screen size (diagonal)
	IR Touch Technology, a low-friction touch surface
	3mm Toughened glass
	1080p high-definition (FHD) resolution,
	Connectors USB 2.0, HDMI, VGA, Stereo 3.5mm out, AC power inlet
	Display Power Supply of 100V to 240V AC, 50Hz to 60Hz
	Quick set-up and maintenance guide, HDMI cable, Power cord, USB cable
Interactivity / Touch	Support simultaneous pen and finger touch interaction
	Support 10-touch enabled gestures windows 7 or above
	Offer IR interactive technology, finger or any other opaque object could touch without any special pen.
Audio components	2 x 10-watt speakers
Operating system support	Interactive flat panel support Windows

- Embedded high speed controller

DESCRIPTION	SPECIFICATION
Processor System	CPU: Intel Core i3 1.4GHz above
Memory	RAM: 4 GB DDR 3 (expandable up to 16 GB)
	ROM: 500GB HDD (EXPANDABLE UPTO 1 TB)
Display	Resolution (Chipset support): HDMI/eDP: up to 1920 x 1080
	Output: HDMI x 1, 1 X VGA
Connectivity	WI-FI support 802.11b/g/n
	LAN: 1 X 10/100/1000 Mbps
I/O Interface	HDMI: 1
	USB: 4 (USB 2.0), 1 USB 3.0
	Audio:1 x Line-out, 1 Mic IN
External USB Device	Mouse
	Keyboard
Power Requirements	Power Consumption: 20 W or less
	Input Voltage: 19W 5A
Operating System	Windows 7 or above

- Wireless Mouse and Keyboard

DESCRIPTION	SPECIFICATION
Device Type	Keyboard and mouse set
Wireless Receiver	USB wireless receiver
Input Device	Keyboard
Hot Keys Function	Mute, play/pause, backward, forward, volume -, volume +
Pointing Device	Mouse

- Student Evaluation Kit

DESCRIPTION	SPECIFICATION
General Specifications	RF technology
	Two-way communication
	Up to 100 meters transmission and reception distance
	Support 50 student gadgets
	Easy to install, easy to use
	USB port connection
About student gadget:	LED status lights for functioning of gadget
	Preferably powered by batteries (2xAAA) having battery life of > 1 to 2 years for ordinary use
	Transmission distance: > 100 meters
	Durable and not easily breakable
	50 gadgets can be used at once
	Easy to use and Light weight suitable for young students
About receiver:	RF technology
	Port: USB port
	Weight: light weight easy to connect
	Power required: no extra power required
	Low Operating Power consumption
	Receiving distance: 100 meters radial
	High processing speed and Support minimum 50 student gadgets

- Attendance Unit

DESCRIPTION	SPECIFICATION
Face capacity/RFID Tags	800
Transaction storage	1,00,000
Push Data	Yes
Communication	TCP/IP or USB Host
Power Supply	12V 3A
Temperature	0 °C- 45 °C
Humidity	20%-80%

- Web-Camera with build in Mic

DESCRIPTION	SPECIFICATION
Type	Colour
Digital Video Resolution	720 p
Features	720P full HD video calling. Inbuilt Mic
Focus	Fix focus/Automatic focus
Interface	Computer USB 2.0
Brand	Logitech or equivalent
Compatibility	PC
Connector Type	USB

- Mounting Arrangement for the unit

The unit will be wall mounted in the classroom at appropriate height to save space and for easy operation. The wall mounting will have built-in locking mechanism.

- Backup Hybrid Solar Micro Grid

DESCRIPTION	SPECIFICATION
SOLAR MODULE	0.25 KVa solar Module + 0.75 KVa Sign Wave + 4 Hr battery backup

Cable supply from Solar panel to UPS 2.5 mm² X 50 mtrs

Cable from UPS to Display and attendance unit 1.5 mm² X 30 mtrs

SCHOOL WILL ARRANGE 15 AMP. POWER SOCKET NEAR UPS WITH PROPER EARTHING AND ANY ADDITIONAL QUANTITY OF CABLE IF REQUIRED.

- Software Components

Specifications for the software components are mentioned below. All the application software, database, server, operating system etc. that require licensing, the procurement and renewal of all the licenses will be responsibility of the bidder.

- Technology for modules

DESCRIPTION	MINIMUM SPECIFICATION
Architecture	.NET MVC/Java/Node.js/React.js/Open source
Front End	HTML5 responsive UI/Open source
Database	Any database
Security	128 bit Encryption SSL
Web Server	IIS /Tomcat/JBoss/Apache/Open-Source

White Board Software

DESCRIPTION	SPECIFICATION
Operating System	Windows
Operating modes	Windows mode, Full Screen mode, Annotation modes
Page creation	Can create infinite no of pages
	can zoom any content on page
	can any type of background like colour/graphs
	writing space for one page is infinite, can scroll UP-down & Left –Right
	can browse to all created pages throw page preview
Resource Preview	All required diagrams are Available related to the subjects like Math, chemistry, Physics, English, History, Geography, Biology, etc.
	can import diagram, videos & Pictures from internet
Support Formats	JPG(JPEG) Images
	Microsoft office
	PDF & Flash
	video & Audio (MP4 Video & MP4 Audio)

- Video Conferencing Software

DESCRIPTION	MINIMUM SPECIFICATION
Software	Application base software
Features	1) Ideal for Video Conferencing for 10 participants at a time
	2) High frame rate connections of up to 60 FPS
	3) Simplified Client
	4) Auto adjustments possible depending upon connection and hardware
	5) Cross platform connections possible from PC to Mobile or Mobile to PC possible
	6) No special software configuration needed
	7) High security for connection

- Educational Content

DESCRIPTION	SPECIFICATION
Media	Software is an audio/video teaching software which consists of all subject wise lessons
Standards	From 1 st to 8 th standard
Boards	SSC boards are covered
Contents	It will be as per the state curriculum.

Question and Answers	Software will have built in questions on topic / chapters
Mediums	Semi English, Marathi, English
Features	User registration, administration, planning & tracking progress, question bank & lesson planning

- Infrastructure for hosting the online dashboard and reporting module

The solution will be a cloud based solution with a capability to perform tasks and store resulting data locally. The data will be stored on a local server and upon availability of data uplink, will synchronize the stored data to the cloud server, thus providing backup and redundancy. The cloud infrastructure will be provided by Bidder . The tentative specifications for cloud are mentioned below. These have been provided below for checking compatibility of the online dashboard module.

DESCRIPTION	MINIMUM SPECIFICATION
Cloud Server	<ul style="list-style-type: none"> • Database Server - Microsoft Windows 2012 with SQL server 2014 Standard • Web server – Windows • Load Balancers • Backup Secure Storage Server • VPN Connectivity • Virtual Private Cloud
Security	<ul style="list-style-type: none"> • SSL Bit Security protocol for all communication • Encrypted communication between local and cloud server • VPN and VPC for internal server communication • Encrypted passwords
Back up	<ul style="list-style-type: none"> • FTP Server • Secure FTP Transfer Protocol • 1 Hour differential back up

- Server specification : Minimum specification

Server Name	No. of Servers	Cores	RAM (GB)	Disk Space (GB)	OS Windows	FTP	Public IP	Software
Load Balancer	01	02	02	250	Server 2012			
App Server	02	04	08	500	Server 2012	Yes	Yes	-IIS Server 8.5 -.net Framework 4.5 -MVC 4
DB Server	01	04	08	1000	Server 2012	Yes	Yes	SQL Server 2014 Standard #

The Complete data will retain for at least one academic year.

Internet USB dongle : Internet connection for one year will be arranged by us, wherever data service is available from mobile service provider

- Logistics

1. We will arrange transportation of the entire hardware along with software with door delivery to the site.
2. The packaging of all the hardware will be properly done by us to avoid any damages to the hardware in transit to onsite locations
3. The logistics and installation cost of the complete solution will be borne by the us.

- Installation of Hardware and Software

1. The software's as per the functional requirements will be ready to use and tested on the field by us. The softwares will be installed and properly integrated with the hardware setup of touch screen display, attendance unit, webcam, internet, evaluation kit etc. so as to ensure proper functioning of the entire solution.
2. The installation team will be deployed by the System Integrator to the site location within 10 days after the delivery of the hardware. The installation team will carry all necessary tools, supplies and tackles to the site. Any hardware or installation material needed for installation will be provided by System Integrator. The attendance unit will be mounted at a place as suggested by the school. The power and communication cable of the attendance unit will be laid out properly and cables will be of proper length to ensure connectivity. The solar panel will be mounted on perfect location and the interconnecting cable between panel and battery will be

attached. The battery will be kept in a safe location. The inverter will be connected to the battery to ensure auto changeover when power cut occurs

3. The school will provide 230 V AC power point near the installation of unit with proper earthing.
4. The installation team will do all above activities and will check if the system is working properly before leaving the site.

- Training

Once the system is live, the trainer appointed by us will give detailed information about hardware and software to the School representative at the site and training will be given within 10 days of the system installation. The person will give a detailed training on how to operate the console from powering up to shut down as a part of standard training program. The training program will contain various modules viz; E-learning, Whiteboard, Assessment and Evaluation, Attendance and Video Conferencing. The training program will be of minimum of 2 days and the training agenda and contents will be approved from the department.

- Warranty

1. We will provide three years of warranty against any manufacturing defects.
2. Service/support (for three years) representative will be available at all times on call as a service SPOC to solve service requests. Suitable Service reps shall also be appointed by us.

- Commercial Proposal

Sr. No.	Description	Quantity	Amount
1	Gyaan Varsha Set <ul style="list-style-type: none"> • Students Data Management • eLearning Digital Content • Whiteboard • Student/Faculty Attendance • Digital Evaluations • Analytics, Online Dashboard and Reporting • Mobility • Governance and Security • Backup Hybrid Solar Micro Grid • Auxiliary Functions • Un-Interrupted Operations • Remote Monitoring • Helpdesk Operations • Capacity And Skill development of teachers 	1 Set	4,00,000
TOTAL OFFERED PRICE IN INR. 400,000 (Inclusive of GST)			

Note: The above cost also includes dispatch to the locations, onsite installations and trainings.

2.4.2 Scrutiny and Verification of The Swiss Challenge Proposal

The Swiss challenge proposal submitted by M/s. Versatile process controls PVT. LTD, Pune (Gyaan Varsha) was technically scrutinize and verified by as fallows -

- 1.Vishvesharaya National Institute of Technology, Nagpur (VNIT) – Hardware & software
- 2.Maharashtra Energy Development Agency, Nagpur (MEDA) – Solar Component (Set)
3. DICPED, Nagpur – Digital E –content.

Further the technical specifications prescribed by VNIT and MEDA have been incorporated in the technical pre-qualification criteria mention and 3.2 of the bidding documents.

2.5 Cost of Swiss Challenge Bid

1. The Swiss Challenge document can be downloaded from the e-tendering portal <https://mahatenders.gov.in>.
2. The Swiss Challenge tender fee INR. 50000.00 (Fifty Thousand Only) must be paid through an online payment gateway available at the e-tendering portal.
3. The Swiss Challenge tender fee must be deposited at least two days before the Pre-bid conference. However, it is advised that the payments may be made at least four days in advance so that delays due to bank transfers can be avoided.
4. The Swiss Challenge tender fee shall be non-refundable.

2.6 Earnest Money Deposit (EMD)

1. Earnest Money Deposit (EMD) of INR. 750000.00 (seven lacs fifty thousand Only) must be paid through an online payment gateway available at the e-tendering portal.
2. The EMD must be deposited at least two days before the last day of the bid submission. However, it is advised that the payments may be made at least in advance so that delays due to bank transfers can be avoided.
3. The successful bidder's EMD will be discharged by the Zilla Parishad, Nagpur only after the signing of contract and submission of Performance Bank Guarantee.
4. EMD's of unsuccessful bidders will be discharged / refunded within 1 month of signing the contract with the successful bidder.
5. The EMD amount shall be zero interest.
6. The EMD shall be forfeited in the following cases:
 - a. If a bidder withdraws its Swiss Challenge bid during the period of bid validity specified by bidder on the bid form.

- b. In case of a successful bidder, if the bidder fails to sign the contract or is unable to furnish performance bank guarantee within a specified time limit.
 - c. The EMD will be forfeited of the bidders who submit forged/faulty documents.
7. No bidder agency shall be exempted from submitting the EMD except those bidders who have EMD exemption certificate.
 8. The bidders shall be liable to pay liquidated damages and penalty imposed by the inviting authority in the event of non-fulfillment of any of the terms or whole of the contract.

2.7 Submission of Sample

The bidders should submit a full working sample of the product on or before the last day (in office time) of tender submission, failing which the bidder will be liable for Rejection in technical evaluation Bid.

2.8 Pre-Qualification Criteria

The prospective bidders/manufacturers shall fulfil the following qualification criteria. In case of failure/Not Satisfactory in fulfilling the qualification criteria; the bidder will be rejected. The bidders/manufacturers shall Be Submit following Documents.

- a. Should have Company Registration Certificate / Incorporation Certificate.
- b. Should have GST registration certificate. And GST Clearance Certificate Till December 2018.
- c. Should have VAT clearance certificate up to 31st March 2017.
- d. Should have CA certificate for having positive net worth.
- e. Should have Vendor Authorisation Certificate from respective OEM.
- f. Should submit complete teacher training capacity development module .
- g. Should have experience in digital equipment supply to minimum 200 schools executed at Schools.
- h. Should have experience in capacity & skill development to minimum 200 number of teachers.
- i. Should submit hard copy of complete user manual.
- j. Should submit details implementation plan of projects.
- k. Should submit details of the 3 year support plan.
- l. Should have Average Annual Turnover of at least INR. 7.50 Crores during the last 4 financial years (2014-2015, 2015-16 & 2016-17 & 2017-18). This should be supported by audited Balance sheet and P&L Sheet for all 4 financial years & Certificate from the Company Secretary & Chartered Accountant Certifying the Turnover amount.
- m. Should have Company Establishment Of four Years In IT, ITES, Education, Atomisation Sector
- n. Should not have been blacklisted by Central Government or any State Government organization / department in India at any point of time. A self-declaration letter signed by the Authorized signatory of the bidder in the prescribed format mentioned in the Form 3, Annexure 2.
- o. Should submit details company infrastructure chart and Project team structure for execution of this tender.
- p. Should have authorization letter from the lawful owner of eLearning digital content (IP) for supply to Govt and Semi-Govt organizations.
- q. E – Learning Digital Content should be exactly Map (Topic, Subtopic) To Maharashtra State board curriculum.

- r. Should give warranty for hybrid solar micro greed Panel Ten Years and five years on solar set from OEM.
- s. Compliance of all stipulated specification of product and services as per section 3 chapter 3.1 and 3.2 and of the tender document and in the chapter of scope of work will be compulsory. In Technical Specification, product and services will be compulsory for bidder under Swiss challenge.

2.9 Sub-Contracting

Joint Venture are NOT allowed for bidding the tender.

2.10 Pre-Bid Conference / Swiss challenge Clarification

1. Zilla Parishad, Nagpur shall Conduct a Pre-Bid meeting along with M/s Versatile process controls Pvt.Ltd. Pune (Gyaan varsha) tentatively scheduled to occur on 10th working day after publishing of tender on web site (Dated 25/04/2019).
2. The purpose of the conference is to provide the prospective bidders with information regarding the business process of Zilla Parishad, Nagpur, the Swiss Challenge bidding method and the project requirements, and to provide each bidder with an opportunity to seek clarifications regarding any aspect of the Swiss Challenge and the project.
3. M/s Versatile process controls PVT Ltd, Pune will have to be present with their technical team and working sample of their product for live demonstration.
4. A maximum of two representatives with due authorization letter from each prospective bidder shall be allowed to participate in the Pre-Bid conference.
5. Bidders shall send their queries to Education Officer(Pri.), Zilla Parishad, Nagpur or on email id mdmnagpur15@gmail.com at least three days prior to pre-bid conference.
6. The response to the queries will be published on <https://www.mahatenders.gov.in>. No telephonic queries will be entertained; this response of Zilla Parishad, Nagpur shall become integral part of the bidding documents by Swiss Challenge method.
7. The format in which pre-bid queries must be sent to the department is provided in Form – 3 for Annexure 1

2.11 Amendment to the tender document by Swiss Challenge method

1. At any time prior to the deadline for submission of bids, Zilla Parishad, Nagpur may, for any reason, whether on its own initiative or in response to the clarification request by a prospective bidder, or directions from government department, modify the terms in the bidding documents.
2. All prospective bidders who have received the bidding documents will be notified of the amendment through the website www.mahatenders.gov.in

2.12 Validity of Proposal

Proposals shall remain valid for a period of 180 days after the date of opening of financial bid. A proposal valid for shorter peri

sod may be rejected as non-responsive. Zilla Parishad, Nagpur may solicit the bidders' consent to an extension of proposal validity (but without the modification in Proposals).

2.13 Product Support and Warranty Period

The agency engaged for the supply shall provide support and warranty against any manufacturing defects for a period of 3 years from the date of installation of the unit Free Of Cost. (Warranty for solar power set / grid will be as per the by Maharashtra Energy Development Agency, Nagpur prescribe in 3.2).

2.14 Right to Accept / Reject Proposal

C.E.O. Zilla Parishad, Nagpur and concerned department of Govt. of Maharashtra reserves the right to accept or reject any proposal, and to annul the proposal process and reject all proposals at any time prior to award of contract, without thereby incurring any liability to the affected bidder(s) or any obligation to inform the affected bidder(s) of the grounds for such decision.

2.15 Submission of bid Proposal in Response to the Swiss challenge

1. The bidders shall submit the bid through the online e-tendering portal <https://mahatenders.gov.in> on or before the last date of bid submission as mentioned in the data sheet.
2. The bid proposals shall have to be submitted in the following sections on the e-tendering portal:
 - a. Forms mentioned in the annexure 1 & 2 will be uploaded on annexure 1 and 2
 - b. Responses related to Pre-Qualification Criteria (Clause 2.8) in Annexure 2 Form 2 must be uploaded with respect to the Pre-Qualification criteria.
 - c. The commercial quotation must be uploaded in Annexure 2 form 7 named "Commercial Quotation for the Request for Proposal in response to the Swiss Challenge for selection of system integrator for implementation, training and support of educational ecosystem (Gyaan Varsha) Initiatives in Zilla Parishad, Nagpur. Rates quoted should be inclusive of all taxes Including GST and duties. department will not bear any extra charges now or near future.
 - d. Rate must be quoted per unit and number of units to be provided must be mentioned.

2.16 Opening and Evaluation of Bids

Swiss Challenge evaluation committee will evaluate the proposals submitted by the bidders. During evaluation of proposals, the evaluation committee as per the direction of government of Maharashtra shall may, at its discretion, ask the bidders for clarification on responses submitted against Pre-Qualification.

If there is a discrepancy between words and figures, the amount in words shall prevail.

The Technical bids of only those bidders will be opened who have submitted complete working samples as per the technical specifications mentioned in section 2.4 and 3.2 within the specified time window.

2.16.1 Verification of Pre-qualification criteria

The documents submitted as per section 2 shall be examined to determine whether the bidder meets the pre-qualification /eligibility criteria, completeness of the bid, whether the documents

have been properly signed by the authorized signatory and whether the bids are generally in order.

Department reserves the right to seek information/clarifications from the bidders. Any bids found to be non-responsive for any reason or not meeting the minimum levels of eligibility criteria specified in the various sections of this Tender Document shall be rejected and not included for further consideration.

Swiss Challenge Evaluation Committee may waive any minor infirmity or non-conformity or irregularity in a Bid which does not constitute a material deviation, provided such a waiver does not prejudice or affect the relative ranking of any Bidder.

2.16.2 Technical Evaluation

The Swiss Challenge evaluation committee will evaluate technical bid on the basis of scope of services mentioned in the SWISS CHALLENGE tender document. The committee may seek further clarification, if required, from the bidders for the purpose of technical evaluation. No documents will be accepted after tender Submission.

If a Technical Bid is determined as not substantially responsive, the department will reject it and in such a case Commercial Bid will not be opened.

The technical bid will be evaluated and weighed for the qualified bidders.

The Bidder Will Be Qualifies For Technical Evaluation who

- Meets the pre-qualification criteria
- Submits all the documents and details in prescribed format
- Submits fully working sample.
- who complies all technical specification of product and services prescribed in the tender documents

2.16.3 Presentation by Qualified bidders

The Swiss Challenge committee will invite each of qualified bidders to make a presentation at a date, time and location decided by department. The purpose of such presentations would be to allow the Bidders to present their proposed solutions to the committee and the key differentiating points in their Bids. The bidder must carry all original pre-qualification documents that were submitted along with the Bid for verification purpose during the presentation. The presentation should be done using the same documentation and supporting material that was submitted along with the Sample. If there is a mismatch in the documents and the presentation, then the bidder will be disqualified.

The presentation should cover on following aspects of the solution by the qualified bidders

- Understanding of Scope of Work
- Approach & Methodology
- Software solution
- Implementation Strategy (Phase wise roll out)
- Project Plan and Timelines
- Training Plan

- Support Process and Team Structure

2.16.4 Commercial Evaluation

The Commercial bid of only those bidders who passes the pre-qualification criteria and complete technical evaluation will be evaluated.

All documents related to the commercial Bid (bid submission letter, commercial bid etc) must be in the prescribed format. The formats are mentioned in the Annexure 2 form 7 of this document.

If any of the documents are in a different format, the commercial bid will be disqualified.

2.16.5. If it is observed That there are no satisfactory responses / proposal submitted in response to the tender notice in the specified Time limit, CEO, Zilla Parishad, Nagpur and or all concerned department in Govt. Of Maharashtra will have unchallenged power to extend the time limits for submission of the bid. or cancel the tender process in totality.

2.16.6 After the technical evaluation of the bids by Swiss challenge Evaluation Committee the comparative commercial bid will be submitted to High Power Committee through School Education And sports Department, Govt. of Maharashtra for finale decision about the selection of successful bidder.

2.17 Selection of the successful bidder

1. After the technical evaluation of the bids submitted by the participant, the commercial bid of the successful bidder will be evaluated & compare against the commercial offers submitted by M/s Versatile process Controls PvtLtd. Pune (Gyaan Varsha) as per the provisions of Government Resolution (Industry, Energy & Labour Department) dated 01/12/2016 Chapter no. 2 Para no. 2.9.1 & chapter no. 3 Para no. 3.2.7.
2. The decision about the selection of the successful bidder will be taken by the High Power Committee of Govt. of Maharashtra constituted as per Government Resolution (Industry, Energy & Labour Department) dated 01/12/2016 chapter no. 2 Para no. 2.9.1.
3. The High-Power Committee reserves all the rights to reject all bids without any cost.
4. After the approval of the High-Power Committee Govt. of Maharashtra, Zilla Parishad, Nagpur will follow the prescribed legal procedure to implement the direction issued by High Power Committee.

2.18 Right to make scope changes during the contract period

Every endeavour needs to be guided as a compelling and timeless vision to motivate people towards greater efficiency. Zilla Parishad, Nagpur aims for opportunities and possibilities that technology offers today as well as in the times to come. The primary focus of Zilla Parishad, Nagpur is to provide efficient e-Governance platform, wherein department, its allied offices and external agencies can integrate their services today and in future as well.

Though care is taken to create inclusive scope, there may be open pointers wherein the scope definition might require elaborations which can be identified only over a period.

The department shall be authorized to make any such changes in the scope that shall build further efficiencies in the applications or the department e-Governance ecosystem.

2.19 Performance Bank Guarantee

1. The successful Bidder must furnish a total 4% security deposit to guarantee his/her (Bidder) performance of the contract within 15 days after signing the contract.
2. The firm/company whose proposal is selected his/ her 1 % EMD amount shall be converted to security deposit of Contract value as Performance Security. The Bank Guarantee must be valid up to 90 days post the expiry of the contract period.
3. The proceeds of the performance security shall be payable to Zilla Parishad, Nagpur as compensation for any loss resulting from the Agency's failure to complete its obligations under the Contract.
4. The Performance Security shall be denominated in Indian Rupees and shall be in the form of a bank guarantee issued by a nationalized / scheduled bank.
5. The successful bidder shall have to furnish the Performance Security within 15 days of the signing of contract and in accordance with the conditions of the contract. The Proforma for submitting the PBG has been provided by Zilla Parishad, Nagpur .
6. The Performance Security will be discharged by Zilla Parishad, Nagpur and returned to the selected agency on completion of the agency's performance obligations under the contract.
7. In the event of any contract amendment, the selected agency shall, within 21 days of receipt of such amendment, furnish the amendment to the Performance Security, rendering the same valid for the duration of the Contract, as amended for further period.
8. No interest shall be payable on the PBG amount. Zilla Parishad, Nagpur may invoke the above bank guarantee for any kind of recoveries in case the recoveries from the selected agency exceed the amount payable to the selected agency.

2.20 Confidentiality

Information relating to the examination, clarification and comparison of the proposals shall not be disclosed to any bidders or any other persons not officially concerned with such process until the selection process is over. The undue use by any bidder of confidential information related to the process may result in rejection of its proposal. Except with the prior written consent of Zilla Parishad, Nagpur no party, shall, at any time communicate to any person or entity any confidential information acquired during the Contract.

2.21 Disqualification

Zilla Parishad, Nagpur through Swiss Challenge evaluation committee may at its sole discretion and at any time during the evaluation of Proposal, disqualify any bidder, if the bidder has:

1. Made misleading or false representations in the forms, statements and attachments submitted in proof of the eligibility requirements.
2. Exhibited a record of poor performance such as abandoning works, not completing the contractual obligations, inordinately delaying completion or financial failures, etc. in any project in the preceding three years.

3. Submitted a proposal that is not accompanied by required documentation is non-responsive.
4. Failed to provide clarifications related there to, when sought.
5. Declared ineligible by the Government of India, or any of the departments in the State Government, for corrupt and fraudulent practices or has been blacklisted.
6. The Bidder submits more than a single bid for this project.
7. If the bidder has any criminal cases pending any of the courts across the country.
8. Any effort on the part of a Bidder to influence the department's bid evaluation, bid comparison or contract award decisions.

Pre-Qualification Stage

9. The information provided by the Bidder is found to be incorrect / misleading at any stage / time during the Tendering Process.
10. Documents submitted appear to be forged.
11. Pre-qualification criteria and the supporting documents do not match.
12. Document submitted are not in the prescribed format.
13. Bids without signature of person (s) duly authorized on required pages of the bid.
14. Bids without power of authorization and any other document consisting of adequate proof of the ability of the signatory to bind the Bidder.

Technical Evaluation

15. Technical Bid containing commercial details.
16. Who fails in Technical Evaluation.
17. Bidders not quoting for the complete scope of Work as indicated in the Mandatory Tender documents, addendum (if any) and any subsequent information given to the Bidder.
18. Technical documents for bid and documents for presentation should match
19. The submitted sample is not functioning.
20. Features mentioned in the Scope of work under Mandatory Functional Specifications.

Commercial Evaluation

21. Commercial Bid is incomplete in any form.
22. Commercial Bids that in different format than the one in Tender's price bid format.
23. Commercial Bids do not include all the applicable taxes.

2.22 Fraud & Corruption

Zilla Parishad, Nagpur requires that System Integrator / Agency selected through this SWISS CHALLENGE must observe the highest standards of ethics during the performance and execution of such contract. In pursuance of this policy, Zilla Parishad, Nagpur:

1. Defines, for the purposes of this provision, the terms set forth as follows:
 - a. "Corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of Zilla Parishad, Nagpur or any personnel of Department in contract executions.
 - b. "Fraudulent practice" means a wrong presentation of facts, to influence a procurement process or the execution of a contract, to Zilla Parishad, Nagpur, and includes collusive practice among bidders (prior to or after Proposal submission) designed to establish Proposal prices at artificially high or non-competitive levels and to deprive Zilla Parishad, Nagpur of the benefits of free and open competition.

- c. "Unfair trade practices" means supply of services different from what is ordered on, or change in the Scope of Work which was given by the Zilla Parishad, Nagpur in Section 2.
 - d. "Coercive Practices" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the execution of contract.
- 2. Will reject a proposal for award, if it determines that the bidder recommended for award, has been determined by Zilla Parishad, Nagpur to having been engaged in corrupt, fraudulent or unfair trade practices.
- 3. Will declare a System Integrator ineligible, either indefinitely or for a stated period, for awarding the contract, if it any time determines that the System Integrator has engaged in corrupt, fraudulent and unfair trade practice in competing for, or in executing the contract.

Section – IIScope of work

3.0. Swiss Challenge Scope of Work as submitted by M/s Versatile process Controls Private L.T.D. Pune (Gyaanvarsha)

The aim of the project is to utilise the potential offered by the digital thread of SMAC (Social media, Mobility, Analytics and Cloud technology) to transform the education experience in terms of design delivery, monitoring, serviceability to bring about the highest degree customer centricity, end customers being the ecosystem of teachers, school authorities and most importantly the students. To this end, the need is for an end to end digital solution with a robust lifecycle management framework tailored for each of the aforementioned aspects of design, delivery and others.

The solution should explicitly aim at achieving following aims of the following nature:

1. Improve the Effectiveness and efficiency of education in terms of delivery, retention and feedback
2. Impart digital literacy to all participants with ease
3. Create an ecosystem of plug and play nature to link with other socio technical ecosystems in the future.
4. Provide traceability and scope for high degree of customization and personalisation
5. Be sufficiently upgradable and scalable in enterprise architecture for ease of parallel deployment
6. Meet high service level requirements in terms of Mean Time Between Failure.
7. These are the requirements from a UI and UX perspective that will encompass the totality of possible use cases as may be encountered by stakeholder.(full form requires)

3.1 Functional Specifications

3.1.1 Function 1: Students Data Management

The agency is responsible for installing the appropriate student data (Name, roll nos., Saral ID, standard etc) into the display console/Central Controller unit and the attendance unit. The agency should train teachers on how to enrol students in the Central Controller unit and the attendance unit. The teachers should be able to reconcile the list of students. This mean the functions of Adding, Modifying and Removing Students attached to the school. Also, the facility of bulk uploading of students in a school is a mandatory requirement.

The Teacher/Principal of the school needs the facility of promoting students to the next Standard/Grade when the academic year concludes. This facility should be available for a single student as well as for the complete class.

3.1.2 Function 2: eLearning Digital Content

The solution must provide customized content in forms of digitized content of the existing syllabus known as E-learning as prescribed by the SSC board. In addition, the solution must provide a variety of interactive and engaging study material that increases retention in the minds of the students, while making the delivery process easier for the faculty. A key aspect is that content should be available in 'Marathi' and 'Semi-English', the mediums of the recipients again with a view to make the delivery of concepts as palatable and permanent as

possible. Content should be designed from the perspective of experiential learning as opposed to simple knowledge transfer by speech and writing. Typically, the content would be Audio Visual centric. The E-learning software should have all subjects including languages Marathi, Hindi, English of standards 1st to 10th. It should have a well organised index. It should have play/pause, forward and rewind tabs along with lesson progress report with questionnaires. All the revisions to curriculum within the warranty period of 3 years should be included without any additional cost.

3.1.3 Function 3: Whiteboard

The digital whiteboard software which will be used as an alternative to regular black board should consist of all tools and teaching aids like ability to add infinite pages, save a workbook, different pen styles, colours, shapes, faculty tools, inbuilt image libraries etc. Whiteboard and eLearning software should work simultaneously (Annotation mode) for a better teaching and learning process.

3.1.4 Function 4: Student/Faculty Attendance

Improvements can be done in the current paper based attendance system so that valuable information can be stored, archived and retrieved easily. The current system becomes susceptible to falsifying attendance records. The solution should plug this gap by employing latest in biometric technology of face recognition. This will give a unique identity to each student and will enable traceability. The attendance functionality should be linked to the other functionalities as mentioned in previous and following sections. The attendance unit should be connected to the display unit via a communication cable and the attendance data should be transferred to the central controller. The agency will have to provide training on how to conduct and register the daily student attendance. Also, the agency must train the teachers on how new students and their faces need to be registered in the attendance unit.

3.1.5 Function 5: Digital Evaluations

The current evaluation system is paper based and hence error prone, susceptible to misuse, damage and very challenging to archive and retrieve, let alone use for analysis. The solution should make evaluation completely paperless and online. Moreover, the evaluation should be layered for slice and dice according to student, chapter, topic or suitable metrics. The system should contain preloaded tests, ability for configuring additional tests and spot creation of evaluation tests by the teacher. The test should be conducted in manual or auto mode. In auto mode, the countdown timer should be in seconds.

The application should have effective evaluation modules to know the understanding of every student against each topic.

The evaluation system should be robust and should not have options to manipulate the results.

The application should allow flexibility to choose options/questions on a subject from start to end of the page.

The system should consist of an evaluation kit, questions related to curriculum for all standards, all subjects and topics and a proper evaluation software interface that will track and report the real-time evaluation for all students

All the students in one class should be able to take the examination simultaneously i.e. like the current pen and paper based examination.

Instantly after completion of the test, a pie chart depicting the answer options percentage, correctness, actual answer and the answer each student gave should be shown. At the end, a mark sheet of all students should be shown.

Evaluation module should be on each topic and student specific information on understanding level. No possibility of manual intervention and tampering. Real time reporting and backup to web application should be available.

3.1.6 Function 6: Analytics, Online Dashboard and Reporting

The data captured by the content, evaluation and attendance functions will have to be harnessed for actionable progress steps. The data captured through the units in local school should be stored locally and pushed to cloud as and when the internet connectivity is available for creation of online dashboard. This functionality should complete the feedback loop to the administration officials. This is achieved through a dashboard report for the key metrics available to administration officials. All the metrics in the online dashboard needs facility to aggregate data at the block/beat/taluk level for reporting and quick decisioning making.

E.g.:

- Students list with all the details from each school.
- Evaluation: No of students that have scored below 35%, 35-59%,60-75%, 75% and above.
- Attendance: No of students present: % Male, % Female, by class, etc.
- Periodic (weekly, monthly, and quarterly) reports on evaluation and attendance should be generated from the consolidated data and sent to the administrative officials. The format for these reports will be shared with the selected agency.
- The visual representations should be in the easy to read form of pie charts, bar charts, histograms etc. Each student's progress can be monitored and gaps in development filled in so that he/she may achieve his full potential.

3.1.7 Function 7: Mobility

The data and processed reports should also be available on the move for quick decision making. This can be achieved through a web app that links to the system and runs the same analytics on a mobile platform. Access for the data would be controlled based on geographical jurisdiction. Reporting will be made easy by Analytical Dashboards

3.1.8 Function 8: Governance and Security

Due to the sensitive nature of the data, the solution should provide checks and balances in for of tight access control. This may be in the form of geographical limitations of data access in the web portal. The web portals and mobile application should be protected by state of

the art firewalls to prevent corruption by adware, Malware and viruses. Moreover, data security and authenticity should be maintained by the solution provider always through regular audits and processes.

3.1.9 Function 9: Backup Hybrid Solar Micro Grid

In some areas, penetration of electricity has not happened or power is intermittently available. Therefore, the solution should also have a supporting captive micro-grid based on solar power to ensure that the system runs for 4 hours if the electricity is not available.

3.1.10 Function 10: Auxiliary Functions

Besides these primary functionalities, system should also serve as an internet access device, a video conferencing facility. It should also be used as a communication channel and a direct uplink to spread important circulars, notifications, and announcements from administrative officials to students and school faculty. It should allow accessing only the education related content and websites over the internet. All other websites should be blocked/banned.

3.1.11 Function 11: Un-Interrupted Operations

The schools under consideration of this project are in remote areas where facilities like Internet connectivity may not be available or if available, could be of lower speed. Hence we need that the essential daily functional requirements such as eLearning, Whiteboard, Attendance, Evaluation etc should be installed locally (offline) on the unit with zero dependency on the internet for normal day to day functioning. This requirement is extremely necessary since the schools cannot afford loss of teaching time due to any downtime/slow speed by the internet provider.

3.1.12 Function 12: Remote Monitoring

The agency should have Central Remote Monitoring and Network Operations Centre for monitoring the health of digital units. This application should have health status monitoring for hardware as well as software components of the unit. The Central Monitoring system should measure key parameters including but not limited to,

- Operating System and its usage statistics on processor, memory consumption within last 24 hrs
- Free Disk Space available and Illegal/Unauthorized program installed Alert
- Operation System Updates, Antivirus virus definitions update alerts
- Ability to perform preventive maintenance and install the updates remotely
- Application and Database key parameters tracking such as data and log files
- Area-wise drill down for the schools plotted on the map

3.1.13 Function 13: Helpdesk Operations

1.The selected agency should provide one facilitator behind 100 nos installation for training, troubleshooting& feedback mechanism to achieve the maximum output for the contract period.

2. The selected agency will provide helpdesk services till the warranty period of three years. The details of levels are mentioned below.

Level 1: Provide a dedicated helpdesk number that the school authorities can call for any operational problem or assistance related to the unit. This helpdesk should have technical and operational experts who can help resolve the issue over phone.

Level 2: If the issue could not be resolved by telephonic assistance, the agency will send technically qualified and capable person to the installation site within stipulated time to resolve the problem.

Agency will ensure that all spares will be available off the self during period of three years for replacement if required. The spare parts will be replaced free of cost.

3. The agency will have to maintain a register of the support and maintenance requests received from each of the schools and provide area wise consolidated reports.

3.1.14. Function 14: Capacity And Skill development of teachers

The role of a teacher is vital in developing human capital. It's not just enough for the teachers to transmit academic knowledge to students but it is also important that teachers possess crucial soft skills. These soft skills are essential to engage the students meaningfully and improve their comprehension, shape their self-esteem, nurture students' abilities and help them in their overall development. Some of the challenge's teachers' face today can be classified into areas like effective communication and teaching styles, managing emotions and stress, flexibility in thinking and decision making, creativity, self and health management. The agency will run soft skill development program for teachers yearly twice at each school.

3.1.15 Essential Components :-

Particulars	Method of evaluating the bid		
	Sr. No	Criteria	
Educational Content	1	Content as per the state board syllabus (Topics and subtopics exactly mapped as per Textbook)	Essential
	2	E-learning video should play uninterruptedly for full lesson	Essential
	3	Play, pause, forward, reverse, volume control buttons	Essential
	4	Progress indicator of each	Essential

		lesson	
	5	E-learning video must be able to play in annotation mode along with whiteboard software	Essential
Digital Evaluation	1	Multiple choice questions evaluation method	Essential
	2	Inbuilt questions and answers	Essential
	3	Each student must be able to answer separately by individual remotes.	Essential
	4	Interlinking with biometric attendance module (To avoid proxy test taking)	Essential
	5	Question attempt acknowledgement	Essential
	6	Facility to amend the answer	Essential
	7	Facility to create new questions by teachers.	Essential
	8	Ability to add new questions by push data from web login	Essential
	9	Facility to incorporate external readily available MCQ question set	Essential
	10	Facility to conduct Evaluation test in manual mode or auto mode with settable count down timer.	Essential
	11	Immediate report generation after test completion	Essential
	12	Graphical Representation of Results and Analysis for each questions.	Essential

	13	Evaluation report search by type of evaluation, subject and class	Essential
	14	Evaluation report should be automatically pushed to cloud storage when internet connectivity is available	Essential
Attendance	1	Biometric attendance unit with face and fingerprint/ RFID recognition provided	Essential
	2	Automatic and offline logging of the attendance report on the device	Essential
	3	Attendance report search by, date and class	Essential
	4	Attendance report should be automatically pushed to cloud storage when internet connectivity is available	Essential
Cloud connectivity	1	Cloud connectivity provided for online data reporting	Essential
	2	Secure connection with the cloud server	Essential
	3	Storage of attendance and evaluation reports of all schools upto 1 year	Essential
Web Login	1	Web login	Essential
	2	Admin, superadmin, management, teacher logins	Essential
	3	Evaluation and attendance report viewing with geographical location wise grouping.	Essential
	4	Facility to Push MCQ test from cloud to individual/ group of	Essential

		schools.	
	5	Sending Notifications and announcements to schools by management, admin and super admin logins	Essential
Video Conferencing	1	Cross platform video conferencing software provided (works on windows, mac os, linux, android, ios)	Essential
	2	ability to do video conferencing from this device to mobile/laptop/pc	Essential
Display	1	55" display with toughened glass 3mm	Essential
	2	10 point touch screen facility	Essential
	3	Inbuilt 2x10W speakers	Essential
PC	1	All in one unit	Essential
	2	4GB ram and 500GB hard disk expandable	Essential
	3	IOT or Equivalent operating system	Essential
	4	Tested for 50 deg C temp	Essential
Evaluation kit	1	RF based receiver and student remotes	Essential
	2	Upto 400 remotes can be connected to the receiver	Essential
Attendance device	1	Biometric attendance unit with face and fingerprint/RFID recognition provided	Essential
	2	Connectivity with the PC for attendance reporting	Essential
Webcam	1	720p resolution colour webcam	Essential

	2	Inbuilt mic	Essential
Solar backup	1	Solar panel of at least 235W	Essential
	2	Hybrid Inverter min 735VA rating	Essential
	3	Battery min 65 AH or min backup time 4 hrs (whichever is higher)	Essential
	4	MNRE certification required	Essential
Internet connectivity	1	internet connectivity with 1gb per day and prepaid for 1 year	Essential
Services	1	Remote infrastructure management software provided	Essential
	2	Onsite Teacher training & capacity development Module	Essential
	3	Maintenance and support Module	Essential
	4	Helpdesk mobile app for teachers	Essential
Sample product	1	Completely working sample with all hardware and software features along with teacher training manual, user manual and all documents of company submitted for evaluation	Essential
Experience in similar kind of project executed at school level along with its study report & testimonial	1	All supporting documents provided	Essential
Bidder Exposure to the Education Domain	1	All supporting documents provided	Essential

Project Execution plan, Approach and Methodologies	1	All supporting documents provided	Essential
Current infrastructure, tools and machinery	1	All supporting documents provided	Essential

3.2 Technical Specification Submitted ByM/s Versatile process Controls Private L.T.D. Pune (Gyaanvarsha). Modified, after scrutiny & verification by Visveswaraya National Institute Of Technology, Nagpur, Maharashtra Energy Development Agency Nagpur, DICPED, Nagpur.

The system should be composed of the following key hardware and software systems to carry out the above stated functionalities.

3.2.1 Hardware Components

3.2.1.1 LED multi touch screen

DESCRIPTION	MINIMUM SPECIFICATION
Display	At a minimum, be available with a 55-inch screen size (diagonal)
	Must have IR Touch Technology, a low-friction touch surface
	Must have 3 mm Toughened glass
	Must have 1080p high-definition (FHD) resolution,
	Must have at least Connectors USB 2.0, HDMI, VGA, Stereo 3.5mm out, AC power inlet
	Display Power Supply of 100V to 240V AC, 50Hz to 60Hz
	Includes Wall mount bracket
	Quick set-up and maintenance guide, HDMI cable, Power cord, USB cable
Interactivity / Touch	Support simultaneous pen and finger touch interaction
	Support 10-touch enabled gestures windows 7 or above
	Offer IR interactive technology, finger or any other opaque object could touch without any special pen.

Audio components	At least two 10-watt speakers
Operating system support	Interactive flat panel support Windows

3.2.1.2 Embedded high speed controller

DESCRIPTION	MINIMUM SPECIFICATION
Processor System	CPU: Minimum of Intel Core i3 or above 3 GHZ
Memory	RAM: Minimum 4 GB DDR 3 (expandable up to 16 GB)
	ROM: Minimum 500GB (EXPANDABLE UPTO 1 TB)
Display	Minimum Resolution (Chipset support): HDMI/eDP: up to 1920 x 1080
	Output: Minimum HDMI x 1, 1 X VGA
Connectivity	Minimum WIFI support 802.11b/g/n
	LAN: Minimum 1 X 10/100/1000 Mbps
I/O Interface	HDMI: 1
	USB: Minimum 4 (USB 2.0), 1 USB 3.0
	Audio: Minimum 1 x Line-out, 1 Mic IN
External USB Device	Mouse
	Keyboard
Power Requirements	Power Consumption: 20 W or less
	Input Voltage: 19 W 5A
Operating System	Windows 7 or above

3.2.1.3 Wireless Mouse and Keyboard

DESCRIPTION	MINIMUM SPECIFICATION
Device Type	Keyboard and mouse set - wireless
Wireless Receiver	USB wireless receiver
Input Device	Keyboard
Hot Keys Function	Mute, play/pause, backward, forward, volume -, volume +
Pointing Device	Mouse

3.2.1.4 Student Evaluation Kit – for 25 students at a time.

DESCRIPTION	MINIMUM SPECIFICATION
General Specifications	RF technology
	Two-way communication
	Up to 100 meters transmission and reception distance
	Support minimum 50 student gadgets
	Easy to install, easy to use
	USB port connection
About student gadget:	LED status lights for functioning of gadget

	Preferably powered by batteries (2 X AAA) having battery life of > 1 to 2 years for ordinary use
	Transmission distance: > 100 meters
	Durable and not easily breakable
	Minimum 50 gadgets can be used at once
	Easy to use and Light weight suitable for young students
About receiver:	RF technology
	Port: USB port
	Weight: light weight easy to connect
	Power required: no extra power required
	Low Operating Power consumption
	Receiving distance: 100 meters radial
	High processing speed and Support minimum 50 student gadgets

3.2.1.5 Attendance Unit

DESCRIPTION	MINIMUM SPECIFICATION
Face capacity	800(1:N), 3000(1:1)
Fingerprints templates	1000
ID Card Storage	1000
Transaction storage	1,00,000
Push Data	Yes
Communication	TCP/IP, RS232/485, USB Host
Display	4.3-Inch with keypad
Standard Functions	Automatic Status Switch,
	Self-Service Query, Work Code, SMS,
	T9 Input, 9 Digit User ID
	Photo ID Access Control Interfaces for: 3rd Party
Wiegand Signal	Output
Power Supply	12V 3A
Temperature	0 °C- 45 °C
Humidity	20%-80%
Dimensions	193.6 x 165.2 x 86mm (Lx W x T)
Package Weight	1.6 kg

3.2.1.6 Web-Camera with build in Mic

DESCRIPTION	MINIMUM SPECIFICATION
Type	Colour
Digital Video Resolution	720 p
Features	720 P full HD video Calling, inbuilt mic
Focus	Fix Focus /automatic Focus
Interface	Computer USB 2.0
Brand	Logitech or equivalent

Compatibility	PC
Connector Type	USB

3.2.1.7 Mounting Arrangement for the unit

The unit should be wall mounted in the classroom at appropriate height to save space and for easy operation. The wall mounting should have built-in locking mechanism.

3.2.1.8 Backup Hybrid Solar Micro Grid

DESCRIPTION	MINIMUM SPECIFICATION
SOLAR MODELS	0.25 Kva Solar Module + 0.75 Kva Sign Wave Inverter + 4 Hr Battery Backup
Warranty	Hybrid Solar micro greed Panel Ten Years and Five Years on Solar set from OEM.

1. Installation of solar module should be done as per New And Renewable energy ministry of India guidelines
2. Installation of solar module should be done as per New And Renewable energy ministry a guidelines mention in IEC And Rfid Tag Provision Is mandatory.
3. Should give warranty for hybrid solar micro greed panel ten years and five years on solar set from OEM.

Cable supply from Solar panel to UPS 2.5 mm² X 50 mtrs

Cable from UPS to Display and attendance unit 1.5 mm² X 30 mtrs

3.2.2 Software Components

Specifications for the software components are mentioned below. All the application software, database, server, operating system etc. that require licensing, the procurement and renewal of all the licenses will be responsibility of the bidder.

3.2.2.1 Technology for modules

DESCRIPTION	MINIMUM SPECIFICATION
Architecture	.NET MVC/Java/Node.js/React.js/Open source
Front End	HTML5 responsive UI/Open source
Database	Any database
Security	128 bit Encryption SSL
Web Server	IIS /Tomcat/JBoss/Apache/Open-Source

3.2.2.2 White Board Software

DESCRIPTION	MINIMUM SPECIFICATION
Operating System	Windows
Operating modes	Windows mode, Full Screen mode, Annotation modes
Page creation	Can create infinite no of pages
	can zoom any content on page
	can any type of background like colour/graphs
	writing space for one page is infinite, can scroll UP-down & Left –Right
	can browse to all created pages throw page preview
Resource Preview	All required diagrams are Available related to the subjects like Math, chemistry, Physics, English, History, Geography, Biology, etc.
	can import diagram, videos & Pictures from internet
Support Formats	JPG (JPEG) Images
	Microsoft office
	PDF & Flash
	video & Audio (MP4 Video, MP4 Audio)

3.2.2.1 Video Conferencing Software

DESCRIPTION	MINIMUM SPECIFICATION
Software	Any Suitable software
Features	1) Ideal for Video Conferencing
	2) High frame rate connections of up to 60 FPS
	3) Simplified Client
	4) Auto adjustments possible depending upon connection and hardware
	5) Cross platform connections possible from PC to Mobile or Mobile to PC possible
	6) No special software configuration needed
	7) High security for connection

3.2.2.2 Educational Content

DESCRIPTION	MINIMUM SPECIFICATION
Media	Software is an audio/video teaching software which consists of all subject wise lessons
Standards	From 1 st to 8 th standard

Boards	SSC boards are covered
Contents	It should be as per the state curriculum.
Question and Answers	Software should have built in questions on topic / chapters
Mediums	Semi English, Marathi& English
Features	User Registration, administration, Planning and tracking Progress, Question Bank And Lesson planning,

3.2.2.3 Infrastructure for hosting the online dashboard and reporting module

The solution should be a cloud based solution with a capability to perform tasks and store resulting data locally. The data will be stored on a local server and upon availability of data uplink, will synchronize the stored data to the cloud server, thus providing backup and redundancy. The cloud infrastructure will be provided by Bidder . The tentative specifications for cloud are mentioned below. These have been provided below for checking compatibility of the online dashboard module. Internet facility required for data uplink will be arranged by bidder/ Nagpur Zilla Parishad.

DESCRIPTION	MINIMUM SPECIFICATION
Cloud Server	<ul style="list-style-type: none"> • Database Server - Microsoft Windows 2012 with SQL server 2014 Standard • Web server – Windows • Load Balancers • Backup Secure Storage Server • VPN Connectivity • Virtual Private Cloud
Security	<ul style="list-style-type: none"> • SSL Bit Security protocol for all communication • Encrypted communication between local and cloud server • VPN and VPC for internal server communication • Encrypted passwords
Back up	<ul style="list-style-type: none"> • FTP Server • Secure FTP Transfer Protocol • 1 Hour differential back up

Server specification: Minimum specification

Server Name	No. of Servers	Cores	RAM (GB)	Disk Space (GB)	OS Windows	FTP	Public IP	Software
Load Balancer	01	02	02	250	Server 2012			
App Server	02	04	08	500	Server 2012	Yes	Yes	-IIS Server 8.5 -.net Framework 4.5 -MVC 4
DB Server	01	04	08	1000	Server 2012	Yes	Yes	SQL Server 2014 Standard #

The bidder should insure that he has the required data base backup if any database corruption of deletion occurred from data base server.

The Complete data should be retain for at least one academic year.

3.2.2.4. Internet USB dongle : Internet connection for Three year should be arranged by bidder

3.3 Logistics

1.The System Integrator is responsible for transporting the entire hardware along with software with door delivery to the site.

2.The packaging of all the hardware should be properly done by the System Integrator to avoid any damages to the hardware in transit to onsite locations. If any damages occur, system Integrator should replace the damaged hardware free of cost.

3.The logistics and installation cost of the complete solution should be borne by the System Integrator.

3.4 Installation of Hardware and Software

1.The software's as per the functional requirements should be ready to use and tested on the field with the System Integrator. The software's should be installed and properly integrated with the hardware setup of touch screen display, attendance unit, webcam, internet, evaluation kit etc. so as to ensure proper functioning of the entire solution.

2.The installation team should be deployed by the System Integrator to the site location within 10 days after the delivery of the hardware. The installation team should carry all necessary tools, supplies and tackles to the site. Any hardware or installation material needed for installation should

be provided by System Integrator. The attendance unit should be mounted at a place as suggested by the school. The power and communication cable of the attendance unit should be laid out properly and cables should be of proper length to ensure connectivity. The solar panel should be mounted on perfect location and the interconnecting cable between panel and battery should be attached. The battery should be kept in a safe location. The inverter should be connected to the battery to ensure auto changeover when power cut occurs.

3.The school will provide 230 V AC power point near the installation of unit.

4.The installation team should do all above activities and should check if the system is working properly before leaving the site.

3.5 Training

Once the system is live, the trainer appointed by the System Integrator should give detailed information about hardware and software to the School representative at the site and training should be given within 30 days of the system installation. The person should give a detailed training on how to operate the console from powering up to shut down as a part of standard training program. The training program should contain various modules viz; E-learning, Whiteboard, Assessment and Evaluation, Attendance and Video Conferencing. The training program should be of minimum of 3 days and the training agenda and contents should be approved from the department. If those teachers are not satisfied then training will be conducted again.

3.6 Warranty

1.The System Integrator shall provide three years of warranty against any manufacturing defects.

2.Service/support (for three years) representative should be available at all times on call as a service SPOC to solve service requests. Suitable Service representative shall also be appointed by the System Integrator.(Warranty for Hybrid Solar micro greed Panel Ten Years and Five Years on Solar set from OEM.)

3.7 Project Timelines

3.7.1 Deployment Timelines

** Where "T" is the date of receipt of school-wise delivery schedule and pre-requisite Data required by the agency.*

Sr. No.	Milestone Task	Start Time	Completion Time
1	Procurement, deployment and commissioning of all the hardware, networking, connectivity & all software per classroom.	T + 30 days	T + 90 days

2	Training of the staff at all the labs across zones.	T+ 30 days	T + 90 days
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* variable as per the order volume.

3.7.2. Training& Handholding Resources

The System integrator shall have to train the officials/ users as nominated by the Department. Training plan, schedule, manual etc. shall be finalised once the vendor is on-board.

3.7.3. In case inconformity between technical specifications of product and services submitted in 3.1 (Gyaan Varsha) and 3.2 specification prescribed by Vishvesharaya National Institute of Technology, Nagpur, Maharashtra Energy Development Agency, Nagpur and DICPED, Nagpur the latter shall prevail. (3.2)

Section IV

4.1 list of schools Selected for the Implementation, of under Zilla Parishad, Nagpur Project.

Sr. No.	Name Of Block	Name Of The School	Affected	No. of Student Enrollment
1	Nagpur (Rural)	Z.P.UPS. Pethkaldongari	1	94
2	Nagpur (Rural)	Z.P.UPS. Ruhikhairi	1	209
3	Nagpur (Rural)	Z.P.UPS. Walani	1	90
4	Nagpur (Rural)	Z.P.UPS. Mahurzari	1	123
5	Nagpur (Rural)	Z.P. UPS Godhani Railway	1	94
6	Nagpur (Rural)	Z.P.UPS. Khapari Railway	1	143
7	Nagpur (Rural)	Z.P.UPS. SonegaonNipani	1	134
8	Nagpur (Rural)	Z.P.UPS. Wadi No. -1	1	98
9	Nagpur (Rural)	Z.P.UPS. Wadi No. -2	1	154
10	Kamptee	Z.P.UPS. Khari	1	82
11	Kamptee	Z.P.UPS. Borgaon	1	114
12	Kamptee	Z.P.UPS. Awandhi	1	65
13	Kamptee	Z.P.UPS. Kadholi	1	71
14	Kamptee	Z.P.UPS. Sonegaon Raja	1	88
15	Kamptee	Z.P.UPS. Neri	1	64
16	Kamptee	Z.P.UPS. Ranala	1	62
17	Kamptee	Z.P.UPS. Nanha	1	87
18	Katol	Z.P.UPS. Zilpa	1	143
19	Katol	Z.P.UPS. Gondimohagaon	1	109
20	Katol	Z.P.UPS. Isapur (Khurd)	1	78
21	Narkhed	Z.P.UPS. Sawargaon (Muli)	1	223
22	Narkhed	Z.P.UPS. KhapariKene	1	150
23	Saoner	Z.P.PS. Kothulna	1	80
24	Saoner	Z.P.PS. Patansawangi No.1	1	128
25	Saoner	Z.P.PS. Patansawangi No.2	1	115
26	Saoner	Z.P.PS. Wakodi	1	90
27	Saoner	Z.P.UPS. Waki	1	80
28	Saoner	Z.P.UPS. Hetibadegaon	1	63
29	Saoner	Z.P.UPS. Walni No. 1	1	99
30	Saoner	Z.P.UPS. Pipla (Da. B.)	1	154

31	Saoner	Z.P.UPS. Patansawangi Mine	1	131
32	Saoner	Z.P.UPS. Chankapur	1	359
33	Saoner	Z.P.UPS. Sillewada No. 1	1	163
34	Saoner	Z.P.UPS. Sillewada Marathi	1	128
35	Saoner	Z.P.UPS. Waghoda Mine	1	114
36	Saoner	Z.P.UPS. Dhalgaon	1	129
37	Saoner	Z.P.UPS. Kochhi	1	88
38	Saoner	Z.P.UPS. Bhendala	1	111
39	Saoner	Z.P.PS. Takali (B.)	1	78
40	Kalmeshwar	Z.P.UPS. Tondakhari	1	92
41	Kalmeshwar	Z.P.UPS. Borgaon (Bu)	1	67
42	Kalmeshwar	Z.P.PS. Dhapewada No.1	1	74
43	Kalmeshwar	Z.P.PS. Dhapewada No.2	1	81
44	Kalmeshwar	Z.P.PS. Mandavi	1	103
45	Kalmeshwar	Z.P.PS. .Kalambi	1	78
46	Kalmeshwar	Z.P.UPS. Selu	1	98
47	Kalmeshwar	Z.P.PS. Kohali	1	69
48	Kalmeshwar	Z.P.UPS. Ubali	1	194
49	Kalmeshwar	Z.P.UPS. Ashtikala	1	95
50	Kalmeshwar	Z.P.UPS. Linga	1	151
51	Kalmeshwar	Z.P.PS. Tishti (Bu.)	1	91
52	Ramtek	Z.P.UPS. Kandri	1	69
53	Ramtek	Z.P.PS. Kandri Mine	1	91
54	Ramtek	Z.P.PS. Hetitola	1	64
55	Ramtek	Z.P.UPS. Pawani	1	113
56	Ramtek	Z.P.UPS. Manegaon Kala	1	89
57	Ramtek	Z.P.PS. Ambazari	1	71
58	Ramtek	Z.P.UPS. Patharai	1	76
59	Ramtek	Z.P.UPS. Lodha	1	85
60	Ramtek	Z.P.UPS. ManegaonTek	1	81
61	Ramtek	Z.P.PS. Hiwarabajar	1	101
62	Ramtek	Z.P.UPS. Bhondewada	1	92
63	Ramtek	Z.P.PS. Shivni (Bhondki)	1	76
64	Ramtek	Z.P.PS. Bhandarbodi	1	77
65	Ramtek	Z.P.PS. Mahadula	1	71
66	Ramtek	Z.P.UPS. Mandri	1	81

67	Ramtek	Z.P.UPS. Panchala (Bu.)	1	187
68	Ramtek	Z.P.UPS. Bori	1	92
69	Ramtek	Z.P.UPS. Chokhala	1	72
70	Ramtek	Z.P.UPS. Aajni	1	212
71	Ramtek	Z.P.UPS. Chichala	1	156
72	Ramtek	Z.P.UPS. Sawara	1	115
73	Ramtek	Z.P.UPS. Ghoti	1	77
74	Mouda	Z.P.UPS. Mathani	1	103
75	Mouda	Z.P.PS. Ghotmundhari	1	101
76	Mouda	Z.P.UPS. Ajangaon	1	111
77	Mouda	Z.P.UPS. Dudhala	1	65
78	Mouda	Z.P.UPS. Nerla	1	115
79	Mouda	Z.P.PS. Dhani	1	64
80	Mouda	Z.P.UPS. Nandagaon	1	63
81	Mouda	Z.P.PS. Bhandewadi	1	66
82	Parshiwani	Z.P.UPS. Dorli	1	105
83	Parshiwani	Z.P.PS. Bhagemari	1	70
84	Parshiwani	Z.P.PS. Gadegaon	1	60
85	Parshiwani	Z.P.UPS. Koyalakhadan No.2	1	202
86	Parshiwani	Z.P.PS. Borisingori	1	94
87	Parshiwani	Z.P.PS. Nilaj	1	114
88	Parshiwani	Z.P.PS. Khandala	1	73
89	Umred	Z.P.PS. Aaptur	1	90
90	Umred	Z.P.UPS. Champa	1	95
91	Umred	Z.P.UPS. Surgaon	1	106
92	Umred	Z.P.PS. Uti	1	70
93	Umred	Z.P.PS. Makardhokda No. 1	1	108
94	Umred	Z.P.PS. Makardhokda No.2	1	136
95	Umred	Z.P.PS. Pachgaon No.1	1	157
96	Umred	Z.P.UPS. Wadadh	1	80
97	Umred	Z.P.UPS. Shedeshwar	1	114
98	Umred	Z.P.UPS. Gangapur	1	142
99	Umred	Z.P.UPS. Hewti	1	141
100	Umred	Z.P.UPS. Uadasa	1	277
101	Umred	Z.P.UPS. Welsakhara	1	76
102	Umred	Z.P.UPS. Borgaon Kala	1	88

103	Umred	Z.P.UPS. Uadasa	1	135
104	Kuhi	Z.P.UPS. Silli	1	145
105	Kuhi	Z.P.UPS. Tarna	1	247
106	Kuhi	Z.P.UPS. Kuchadi	1	91
107	Kuhi	Z.P.UPS. Musalgaon	1	45
108	Bhiwapur	Z.P.UPS. Koshtipura	1	77
109	Bhiwapur	Z.P.PS. Bhiwapur	1	98
110	Nagpur (Rural)	Z.P. PS. Devligujar	1	106
111	Nagpur (Rural)	Z.P. UPS. Borkhedi Railway	1	176
112	Nagpur (Rural)	Z.P. PS. Dhawalapeth	1	153
113	Nagpur (Rural)	Z.P. UPS. Kalkhuhi	1	133
114	Nagpur (Rural)	Z.P. UPS. SonegaonBori	1	112
115	Katol	Z.P. UPS. Yenva	1	115
116	Katol	Z.P. PS. Pardsinga	1	206
117	Katol	Z.P. UPS. Wadhona Lo.	1	79
118	Katol	Z.P. UPS. Sonkhamb	1	94
119	Katol	Z.P. UPS. Kondhasawali	1	125
120	Katol	Z.P. PS. Ridhora	1	111
121	Katol	Z.P. PS. Masod	1	92
122	Katol	Z.P. UPS. Dharatwada	1	100
123	Katol	Z.P. UPS. WaghodaKhutamba	1	84
124	Katol	Z.P. UPS. Khangaon	1	107
125	Narkhed	Z.P. UPS. Manikwada	1	73
126	Narkhed	Z.P. UPS. Mohagaon	1	156
127	Narkhed	Z.P. UPS. Dindargaon	1	73
128	Narkhed	Z.P. UPS. MohagaonDalwali	1	116
129	Narkhed	Z.P. UPS. Belona Boys	1	80
130	Narkhed	Z.P. UPS. Belona Girls	1	104

131	Narkhed	Z.P. UPS. Khairgaon Boys	1	73
132	Narkhed	Z.P. UPS. Khairgaon Girls	1	143
133	Narkhed	Z.P. UPS. Tinkheda	1	73
134	Narkhed	Z.P. UPS. Mahadi	1	72
135	Narkhed	Z.P. PS. Kharasoli	1	103
136	Narkhed	Z.P. UPS. Mahendri	1	102
137	Narkhed	Z.P. UPS. Pethmukthapur	1	77
138	Narkhed	Z.P. UPS. Mayawadi	1	92
139	Narkhed	Z.P. UPS. Jamgaon Bu.	1	70
140	Narkhed	Z.P. UPS. Khapa	1	100
141	Narkhed	Z.P. UPS. Ramthi	1	118
142	Narkhed	Z.P. PS. Liharisawangi	1	128
143	Narkhed	Z.P. UPS. Madana	1	63
144	Narkhed	Z.P. PS. Bhishnur	1	140
145	Narkhed	Z.P. UPS. Dawasa	1	102
146	Narkhed	Z.P. PS. Mendhala	1	87
147	Narkhed	Z.P. UPS. Ambala	1	120
148	Ramtek	Z.P. UPS. Belda	1	64
149	Ramtek	Z.P. PS. Karwahi	1	78
150	Ramtek	Z.P. UPS. Tangala	1	78
151	Ramtek	Z.P. UPS. Umari	1	131
152	Ramtek	Z.P. UPS. Zinjariya	1	102
153	Parshiwani	Z.P. PS. Pipri	1	109
154	Umred	Z.P. PS. Sirsi	1	157
155	Kuhi	Z.P. UPS. Karhandala	1	99
156	Kuhi	Z.P. UPS. Welgaon	1	92

157	Kuhi	Z.P. PS. Chikana	1	103
158	Kuhi	Z.P. PS. Rengatur	1	69
159	Kuhi	Z.P. UPS. Ambadi	1	98
160	Kuhi	Z.P. PS. Kuhi	1	104
161	Kuhi	Z.P. UPS. Kujba	1	119
162	Kuhi	Z.P. UPS. Dewlikala	1	74
163	Kuhi	Z.P. UPS. Hardoli	1	62
164	Kuhi	Z.P. UPS. Parsodi Ra.	1	69
165	Kuhi	Z.P. UPS. Virkhandi	1	65
166	Kuhi	Z.P. UPS. Uryad La.	1	189
167	Kuhi	Z.P. UPS. Bhamewada	1	89
168	Kuhi	Z.P. PS. Gonha	1	111
169	Kuhi	Z.P. PS. Gothangaon	1	65
170	Kuhi	Z.P. UPS. Dongarmouda	1	62
171	Bhiwapur	Z.P. UPS. Besur	1	121
172	Bhiwapur	Z.P. PS. Pirawa	1	77
173	Bhiwapur	Z.P. PS. Nand No 1	1	92
174	Bhiwapur	Z.P. UPS. Adhyal	1	103
175	Bhiwapur	Z.P. UPS. Taka	1	65
176	Bhiwapur	Z.P. UPS. MandwaSo.	1	76
177	Bhiwapur	Z.P. UPS. Bhagwanpur	1	145
178	Bhiwapur	Z.P. UPS. DhamangaonGawali	1	86
179	Bhiwapur	Z.P. UPS. Mahalgaon	1	143
180	Bhiwapur	Z.P. UPS. Pahami	1	67
181	Bhiwapur	Z.P. UPS. Somnala	1	74
182	Bhiwapur	Z.P. UPS. Pullar	1	107
Total Affected And non affected Schools			182	

Section – V

5.1 Payment Terms

1. The selected agency shall have to provide a quote in the Commercial quote format given in Form 7, Annexure 2.
 - a) All the payment shall be done as per Agreement with Zilla Parishad, Nagpur with prior approval from High Power Committee, Govt. of Maharashtra.
 - b) No Advance Payment will be paid.
 - c) The terms and schedule of payment will be as per the approval received from the High Power Committee.
 - d) *----- % payment of the total contract value will be made against the delivery, Installation And Third Party Inspection report of the Material.
 - e) * ----% payment of the total contract value will be made on commissioning and training to the stake holders.
 - f) *-----% payment of the total contract value will be made on Receiving Satisfactory Report Of Solar Set From Maharashtra Energy Development Agency, Nagpur
 - g) *-----% payment of the total contract value will be made Against the Completion of first year.
 - h) *-----% payment of the total contract value will be made Against the Completion of Second year.
 - i) *-----% payment of the total contract value will be made Against the Completion of Third year.

* shall be determined by High Power Committee
2. The request for payment shall be made to the department in writing, accompanied by invoices describing, as appropriate, the goods delivered and services performed, and by the required documents submitted pursuant to general conditions of the contract and upon fulfilment of all the obligations stipulated in the Contract.
3. Due payments will be made promptly by the department, after verification of submission of an invoice or request for payment by the supplier/ selected bidder. Subject to compliance of contract terms and condition and availability of funds.
4. The payments will be made only after any adjustments to be done with regards to penalties due to any breach of SLAs.
5. The currency or currencies in which payments shall be made to the selected bidder under this Contract shall be Indian Rupees (INR) only.
6. All remittance charges will be borne by the selected bidder.
7. In case of disputed items, the disputed amount shall be withheld and will be paid only after settlement of the dispute.
8. Payment in case of those services which need testing shall be made only when such tests have been carried out, test results received conforming to the prescribed specification.

9. Any penalties/ liquidated damages, as applicable, for delay and non-performance, as mentioned in this bidding document, will be deducted from the subsequent payments to be paid to successful bidder
10. Taxes, if any and as applicable, will be deducted / paid as per the prevalent rules and regulations.
11. Delay Charges : GR dated 1 Dec 2016 Industries, Power & Labour chapter 6, schedule 4(A) in case order is 2 lacs & above penalty will be at the rate ½% per week subject to maximum 5% of total order value.

Section – VI

6.1 Service Level Agreements and Confidentiality

SLA is the contract between Zilla Parishad, Nagpur and the successful bidder as per directions from high power committee, government of Maharashtra . The purpose of this Service Level Requirements/Agreement (hereinafter referred to as SLR/SLA) is to clearly define the levels of service which shall be provided by the successful bidder to the Department for the duration of this contract period of the Project. It entails the terms of the successful bidder responsibility in ensuring the timely delivery of the deliverables and the correctness of the same based on the agreed Performance.

All the support requests should be attended to within a period of 7 working days.

6.2 Confidentiality

- 1) Successful bidder will come into possession of confidential public records. Bidder shall maintain the highest level of secrecy, confidentiality and privacy with regard thereto. Bidder would be required to sign a Non-Disclosure Agreement with Department.
- 2) Additionally, the Successful bidder shall keep confidential all the details and information with regard to the Project, including systems, facilities, operations, management and maintenance of the systems, during implementation or after completion of the project.
- 3) The Successful bidder shall ensure that all its employees execute individual non-disclosure agreements, which have been duly approved by Department with respect to this Project.

Section – VII

7 Stakeholder Roles &Responsibilities

7.1 Vendor Roles and Responsibilities

- Provide technical assistance to the department for effective implementation of the project.
- SI role shall be supply of hardware and Software
- Bidder to provide Project management support to department throughout the span of the project.
- Help build capacity for at least one technically qualified staff/senior teacher from each school by providing necessary training.

Section – VIII

8 General Terms & Condition

8.1 Application

These general conditions shall apply to the extent that provisions in another parts Contract do not supersede them. For interpretation of any clause in the SWISS CHALLENGE or Contract Agreement, the interpretation of the department shall be final and binding on the selected agency.

8.2 Relationship between parties

Nothing mentioned herein shall be constructed as relationship of master and servant or of principal and agent as between the department and agency. The Agency subject to this contract for selection has complete charge of personnel and sub-contractor, if any, performing the services under the Project executed by the department from time to time. The Agency shall be fully responsible for the services performed by them or on their behalf hereunder. The department will allocate work/assignment to the Agency.

8.3 Standards of Performance

The Agency shall give the services and carry out their obligations under the Contract with due diligence, efficiency and economy in accordance with generally accepted professional standards and practices. The Agency shall always act in respect of any matter relating to this contract as faithful advisor to the department. The Agency shall abide by all the provisions/Acts/Rules etc. of information Technology prevalent in the country. The Agency shall conform to the standards laid down in SWISS CHALLENGE in totality.

8.4 Delivery and Documents

As per the time schedule agreed between parties for specific projects given to the Agency from time to time, the Agency shall submit all the deliverables on due date as per the delivery schedule. No party shall, without the other party's prior written consent, disclose contract, drawings, specifications, plan, pattern, samples or other documents to any person other than an entity employed by the affected party for the performance of the contract. In case of the termination of the contact, all the documents prepared by the Agency under this contract shall become property of the department. The Agency may retain a copy of such documents, but shall not use anywhere, without taking permission, in writing, from the department and the department reserves right to grant or deny any such request.

8.5 Selected Agency Personnel

The Agency shall employ and provide such qualified and experienced personnel as may be required to perform the services under the specified project as assigned by the department. This is a specialized domain of 'ICT and it is desirable from the Agency to deploy the personnel, who have

adequate knowledge and experience in the domain related with this project. It is desirable that the Agency shall hire the services of domain specialists, if required, to work on the Project effectively.

8.6 Applicable Law

Applicable Law means the laws and any other instruments having the force of law in India as they may be issued and in force from time to time. The contract shall be interpreted in accordance with the laws of the Union of India and that of State of Maharashtra.

8.7 Use of Contract Documents and Information

1. The agency shall not, without the department's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the in connection therewith, to any person other than a person employed by the agency in performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only that far as may be necessary for purposes of such performance.
2. The agency shall not, without the department's prior written consent, make use of any document or information except for purposes of performing the Contract.
3. Any document, other than the Contract itself, shall remain the property of the department and shall be returned (in all copies) to the department on completion of the agency's performance under the Contract if so required by the department.
4. The agency shall permit the department to inspect the agency's installation at sites relating to the performance of the agency and to have them audited by auditors appointed by the department, if so required by the department.

8.8 Governing Language

The Contract shall be written in English Language. English version of the Contract shall govern its interpretation. All correspondence and other documents pertaining to the contract, which are exchanged between the parties, shall be written in the English Language.

8.9 Intellectual Property Rights

1. All the deliverables including the Technical documents submitted by the Agency/Bidder under the contract will be the property of the Zilla Parishad, Nagpur.
2. The agency shall indemnify the department against all third-party claims of infringement of copyright, patent, trademark or industrial design rights arising from use of the Goods or any part thereof in India.
3. All the Deliverable and Application Software developed by the agency for the department, the copyright/IPR of that software/deliverable will be with the agency.

4. While passing on the rights (license) of using any software/software tool/hardware, the agency shall ensure that such rights are only for the use by the department.
5. The software licenses supplied by the agency shall be genuine, valid for 3 academic years from the date of installation, for full use and should provide patches, fixes, security updates directly from the OEM at no additional cost to the department for the entire period of contract. All installations done on or before 30 Oct will be considered as full academic year.
6. In the event of any claim asserted by a third party of infringement of copyright, patent, trademark or industrial design rights arising from the use of the Goods or any part thereof in India the agency shall act expeditiously to extinguish such claim. If the agency fails to comply and the department is required to pay compensation to a third party resulting from such infringement, the agency shall be responsible for the compensation including all expenses, court costs and lawyer fees. The department will give notice to the agency of such claim, if it is made, without delay

8.10 Warranty

1. If any module of developed hardware and software gives continuous trouble and runtime or logical errors, during the warranty period, the agency shall rectify the problems without any additional cost to the department.
2. The agency hereby represents and warrants that the Hardware and Software as delivered does not and will not infringe any Intellectual Property Rights held by any third party and that it has all necessary rights, or at its sole expense shall have secured in writing all transfers of rights and other consents necessary to make the assignments, licenses and other transfers of Intellectual Property Rights and the warranties set forth in the Contract, and for the department to own or exercise all Intellectual Property Rights as provided in the Contract. Without limitation, the agency shall secure all necessary written agreements, consents and transfers of rights from its employees and other persons or entities whose services are used for development of the Software

8.11 Assignments

The Agency can assign the project to any other agency, in whole or in part, to perform its obligation under the Contract, without the department's prior written consent.

8.12 Change Orders

The department may, at any time, by written order given to the Agency make changes within the scope of the contract in any one or more of the following:

1. The place of delivery; and/or the Services to be provided by the agency
2. One time Training of personnel of department in terms of hours/subjects will be without any additional cost
3. If any such change causes an increase or decrease in the cost of, or the time required for, the agency's performance of any provisions under the Contract, then Zilla Parishad, Nagpur will not bear any price/ cost escalation.

8.13 Suspension

The department may, by in written notice to Agency, suspend applicable due payments to the Agency hereunder if the Agency fails to perform any of its obligations under this contract including the carrying out of the services, provided that such notice of suspension. The department:

1. Shall specify the nature of failure
2. Shall request the Agency for remedy of such failure within a period not exceeding thirty (30) days after receipt by the Agency of such notice of failure

8.14 Termination

Under this Contract, the department may, by written notice terminate the Agency in the following ways:

1. Termination by Default for failing to perform obligations under the Contract of if the quality is not up to the specification or in the event of non-adherence to time schedule.
2. Termination for Convenience: The department by written notice sent to the agency, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the department's convenience, the extent to which performance of the agency under the Contract is terminated, and the date upon which such termination becomes effective.
3. The units that are complete and ready for deployment within 30 days after the agency's receipt of notice of termination shall be accepted by the department at the Contract terms and prices. For the remaining services, the department may elect:
 - a. To have any portion completed and delivered at the Contract terms and prices; and/or
 - b. To cancel the remainder and pay to the agency an agreed amount for partially completed units.
4. Termination for Insolvency: the department may at any time terminate the Contract by giving written notice to the agency, if the agency becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the agency, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the department.
5. In all the three cases termination shall be executed by giving written notice to the Agency. Upon termination of the contract, payment shall be made to the Agency for:
 - a. Services satisfactorily performed and reimbursable expenditures prior to the effective date of termination
 - b. Any expenditure actually and reasonably incurred prior to the effective date of termination

No consequential damages shall be payable to the Agency in the event of such termination.

8.15 Exit Management

1. Exit Management Purpose

This Schedule sets out the provisions, which will apply on expiry or termination of the contract. The Parties shall ensure that their respective associated entities carry out their respective obligations set out in this Exit Management Schedule.

8.16 Taxes and Duties

The Agency shall fully familiarize themselves about the applicable Goods and Services (GST) Taxes on amount payable by the department under the contract. The Agency, sub-contractor and personnel shall pay such domestic tax, duties, fees and other impositions (wherever applicable) levied under the applicable law.

8.17 Legal Jurisdiction

All legal disputes between the parties shall be subject to the jurisdiction of the courts situated in Nagpur bench of Bombay High Court State of Maharashtra only.

8.18 Binding Clause

All decisions taken by the department regarding the processing of this tender and award of contract shall be final and binding on all parties concerned.

8.19 Notice

Any notice, request or consent required or permitted to be given or made pursuant to this contract shall be in writing. Any such notice request or consent shall be deemed to have been given or made when delivered in person to an authorized representative of the party to whom the communication is addressed, or when sent to such party at the address mentioned in the project specific Contract Agreement.

Annexure 1: General Forms

Form 1. Covering Letter

(To be submitted on the Letterhead of the Bidder)

To
C E O,
Zilla Parishad,
Nagpur.

Subject: Swiss Challenge Proposal For Selection of System Integrator for Implementation, Training and Support of Educational Ecosystem (Gyaan Varsha) Program in Zilla Parishad, Nagpur, Maharashtra.

Dear Sir/Madam,

Having examined the Tender, we, the undersigned, offer to propose for providing our bid for Swiss Challenge Proposal For Selection of System Integrator for Implementation, Training and Support of Educational Ecosystem (Gyaan Varsha) Program in Zilla Parishad, Nagpur, Maharashtra.

1. We have read the provisions and confirm that these are acceptable to us. We further declare that additional conditions, variations, deviations, if any, found in our Bid shall not be given effect to.
2. We declare that we have made a payment of the tender fee of INR. 50000.00 (Fifty Thousand Only) and the Earnest Money Deposit of INR. 750000.00 (Seven Lacs Fifty Thousand Only) through the online payment gateway at <https://mahatenders.gov.in>.
3. We hereby declare that all the information and statements made in this proposal are true and accept that any misinterpretation contained in it may lead to our disqualification
4. We understand you are not bound to accept any proposal you receive.
5. Our correspondence details with regards to this Tender are:

Sr.	Information	Details
1	Name of Bidder	
2	Address of Bidder	
3	Name, Designation and Address of the contact person to whom all references shall be made regarding this Tender	
4	Telephone no. of contact person:	
5	Mobile no. of contact person:	
6	E-mail address of contact person:	

6. We hereby declare that our Bid response is made in good faith and the information contained is true and correct to the best of our knowledge and belief.

Sincerely,

[BIDDER'S NAME]

Name Title

Signature

Date

Form 2. Undertaking for no conflict of interest

(To be submitted on the letter head of the bidder)

To
C E O,
Zilla Parishad,
Nagpur.

Sir,

Subject: Undertaking for No Conflict of Interest

We, the undersigned bidders, do hereby confirm that we are not involved in any conflict of interest situation with one or more parties in this bidding process, including but not limited to:

- i) receive or have received any direct or indirect subsidy from any of them; or
- ii) have common controlling shareholders; or
- iii) have the same legal representative for purposes of this Bid; or
- iv) have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the Bid of another Bidder, or
- v) influence the decisions of Zilla Parishad, Nagpur regarding this bidding process; or
- vi) Bidder participates in more than one bid in this bidding process. Participation in more than one Bid will result in the disqualification of all Bids in which it is involved. However, this does not limit the inclusion of the same product (commercially available hardware, software or network product manufactured or produced by the firm), as well as purely incidental services such as installation, configuration, routine training and ongoing maintenance/support, in more than one bid; or
- vii) Bidder participated as a consultant in the preparation of the design or technical specifications of the goods and services that are the subject of the bid.
- viii) Bidder gets associated as Consultant / Advisor / Third party independent evaluating agency with any of the agencies taking part in the bid process.

Thanking you,

Yours faithfully

(Signature of the Authorized signatory of the Bidder)

Name:

Designation:

Seal:

Date:

Place:

Business Address:

Form 3. Pre-bid Query format

Clarification Requested by:

Name	
Designation	
Company	
Address	
Contact Number	
e-mail id	
Date	

Clarification Requested

Sr. No.	SWISS CHALLENGE Document Reference(s) Section & Page Nos.	Content of SWISS CHALLENGE requiring clarification(s)	Points of clarification

Note: Bidders are requested to provide the queries in Spread sheet format (.xlsx)

Thanking you,

Yours faithfully

(Signature of the Authorized signatory of the Bidder)

Name:

Designation:

Seal:

Date:

Business Address:

Annexure 2: Bid Submission Forms

Form 1. Pre-Qualification Bid Submission Letter

To
C E O,
Zilla Parishad,
Nagpur.

Sir,

Subject : Selection Swiss Challenge Proposal For Selection of System Integrator for Implementation, Training and Support of Educational Ecosystem (Gyaan Varsha) Program in Zilla Parishad, Nagpur, Maharashtra.

We, the undersigned bidder, having read and examined in detail all the bidding documents in respect to Pre-Qualification Bid for Swiss Challenge Proposal For Selection of System Integrator for Implementation, Training and Support of Educational Ecosystem (Gyaan Varsha) Program in Zilla Parishad, Nagpur, Maharashtra.

do hereby propose to provide our services as specified in the SWISS CHALLENGE.

1. Pre-Qualification Response

We hereby confirm that our bid complies with the pre-qualification criteria as per Clause 2.8, section II of the SWISS CHALLENGE, details of which have been given in the formats provided in the section below.

2. Deviations

We hereby declare that all terms and conditions mentioned in SWISS CHALLENGE including the corrigendum are acceptable to us without any deviation and all the services shall be performed strictly in accordance with the bid documents.

3. We hereby declare that our bid is made in good faith, without collusion or fraud and the information contained in the bid is true and correct to the best of our knowledge and belief.

4. We understand that our bid is binding on us and that you are not bound to accept a Bid you receive.

5. It is hereby confirmed that I/We are entitled to act on behalf of our company and empowered to sign this document as well as such other documents, which may be required in this connection.

Thanking you,
Yours faithfully

(Signature of the Authorized signatory of the Bidder)

Name:

Designation:

Seal:

Date:

Place:

Business Address:

Form 2. Pre-Qualification Checklist

Sr. No	Description	Document required	Compliance Y/N	Page Number
1	A valid company registered in India	Company Registration Certificate / Incorporation Certificate.		
2	GST registration certificate.	GST registration certificate& GST Clearance Till December 2018		
3	VAT clearance	VAT clearance certificate up to 31st March 2017.		
4	Positive net worth	CA certificate for having positive net worth.		
5	Profession tax registration	Professional tax registration certificate.		
6	Training module	Complete teacher training module (training agenda, plan, and material).		
8	User Manual	A hard copy of User Manual.		
9	Support structure and plan	Detailed 3-year Support plan and team structure		
10	Average Annual Turnover of at least INR.750000.00 (Seven Crore Fifty Lacs)during the last 4 financial years (2014-15, 2015-16 & 2016-17, 2017-18).	Audited Balance sheet and P&L sheet for all 4financial years & Certificate from the Company Secretary and Chartered Accountant Certifying the Turnover amount		
11	Should not have been blacklisted by Central Government or any State Government organization / department in India at any point of time.	A Self declaration letter signed by the authorized signatory of the bidder in the prescribed format mentioned in the Form 3 in Annexure		
12	Organization strength and infrastructure	Company infrastructure chart and project team structure for execution of this tender.		
13	Experience in digitalization of school project executed at Govt.	Project details, study report & testimonials		
14	Authorization letter from the lawful owner of eLearning digital content (IP) for supply to Govt. organizations.	Authorization letter format as indicated in Form XX. The same can be used for		
15	experience in digital equipment supply to Minimum 200 Schools executed at School.	Order Copies		

16	experience in Capacity & Skill Development to Minimum 200 Number of Teachers.	HR report & Self Declaration		
17	Solar Panel For Ten Years And Five Years On Solar set Return Warranty From OEM.	OEM authorized		

Form 3. Undertaking for not being blacklisted

(To be submitted on the letter head of the bidder)

We confirm that our **Company Name** as on date of submission of the Swiss Challenge Proposal For Selection of System Integrator for Implementation, Training and Support of Educational Ecosystem (Gyaan Varsha) Program in Zilla Parishad, Nagpur, Maharashtra.

, Maharashtra has not been blacklisted by the Central Government / any State Government / PSU entity in India for corrupt, fraudulent or any other unethical business practices.

Sincerely,

(Signature of the Authorised signatory of the Bidder)

Name:

Designation:

Seal:

Date:

Place:

Business Address:

Form 4. Bidder's Details

S. No	Details Required	Response
1	Name of the Company/ Bidder	
2	Year of establishment of the Company/Bidder	
3	Head Office Address	
4	Telephone No. (with STD Code)	
5	Fax No. (with STD Code)	
6	E-mail Address	
7	Name of the key representative for this project	

Form 5. Project Experience Format

S. No	Information Sought	Information
1	Client's name	
2	Assignment/Job name	
3	Name and Contact Details of the Client	
4	Description of Project	
5	Scope of Services as provided by your firm under the contract	
6	Technologies Used	
7	Outcomes of the Project	
8	Current Status (Completed / Phase Completion)	
9	Duration of Assignment/Job (months)	
10	Approx. value of the contract (in Rupees)	
11	Approx. value of the Assignment/job provided by your firm under the contract (in Rupees)	
12	Start date (month/year)	
13	Completion date (month/year)	
14	Copy of Work Order or Client Certificate or Certificate from Company Secretary	
15	Copy of Completion Certificate	
16	Any other Supporting Document	
17	Mention criteria under which this project is being cited (Refer point No. 2 of the note below)	
Signature of Bidder: Date: Place:		

Note :

1. Using the above format, please provide information on each project separately for which the bidder was legally contracted either individually as a corporate entity or as one of the major companies within an association, for carrying out services similar to the ones requested under this Swiss Challenge.

Form 6. Financial Bid Submission Letter

(To be submitted on Letter Head)

To
C E O,
Zilla Parishad,
Nagpur.

Sir,

Subject:- Swiss Challenge Proposal For Selection of System Integrator for Implementation, Training and Support of Educational Ecosystem (Gyaan Varsha) Program in Zilla Parishad, Nagpur, Maharashtra.

We, the undersigned Bidders, having read and examined in detail all the bidding documents in respect to Selection of Swiss Challenge Proposal For Selection of System Integrator for Implementation Training and Support of Educational Ecosystem (Gyaan Varsha) Program in Zilla Parishad, Nagpur, Maharashtra.

, do hereby propose to provide our services as specified in the SWISS CHALLENGE.

1. Price and Validity

1.1 All the prices mentioned in our bid are in accordance with the terms as specified in the bidding documents. All the prices and other terms and conditions of this bid are valid for a period of 180 days from the last date of submission of bids.

1.2 We do hereby confirm that our bid prices include all applicable direct or indirect taxes (Central or State or Local), rates, duties, charges and levies (Central or State or Local), except Service tax.

2. We declare that if any applicable direct or indirect taxes (Central or State or Local), rates, duties, charges and levies (Central or State or Local), except Service tax is altered under the law, we shall pay the same.

3. Deviations

We hereby declare that all terms and conditions mentioned in SWISS CHALLENGE and Corrigendum are acceptable to us without any deviation and all the services shall be performed strictly in accordance with the bid documents.

4. Bid Price

We declare that our bid prices are for the entire scope of the work as specified in the Requirements specified in the bid documents.

6. Contract Performance Guarantee

We hereby declare that in case the contract is awarded to us, we shall submit the contract performance guarantee bond in the form prescribed at Annexure 3 of the Swiss Challeng.

7. We hereby declare that our bid is made in good faith, without collusion or fraud and the information contained in the bid is true and correct to the best of our knowledge and belief.

8. We understand that our bid is binding on us and that you are not bound to accept a Bid you receive.

Thanking you,

Yours faithfully

(Signature of the authorised representative of the Bidder)

Name:

Designation:

Seal:

Date:

Place:

Business Address:

Form 7. Commercial Bid Format

To,

C E O,

Zilla Parishad,

Nagpur.

Subject: Swiss Challenge Proposal For Selection of System Integrator for Implementation, Training and Support of Educational Ecosystem (Gyaan Varsha) Program in Zilla Parishad, Nagpur, Maharashtra.

Having examined the Bid Document, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to provide service for selection of system integrator for implementation, training and support of educational ecosystem program for 182 Zilla Parishad, Nagpur, Maharashtra. To meet such requirements and to provide services as set out in the Bid document following is our quotation summarizing our commercial proposal. The bidder should submit the commercial quote in the below given formats:

Quote per unit in INR (including Support & Maintenance for three years)

Sr. No	Items (Per Unit)	Rate Offerd By The M/S. Versatile Process Controls Pvt. Ltd., Pune (Gyan Varsha) per unit	Quote rate per unit price (by bidder) in words and figure	Number of units Both in words and figure
	1. Hardware: LED Multimedia screen, Computing device, facial attendance device, evaluation hardware, solar micro power grid, mounting mechanism	400000.00		182
	2. Software: Student Data Management, eLearning digital content, evaluation software, attendance software, video conferencing, Notification, cloud infrastructure, Training and Capacity Of Teachers			
	3. Internet connectivity And other services			
	4. Warranty and Support for 3 years.			
	Total			

We undertake that the aforesaid prices are inclusive of all taxes and duties as applicable.

We undertake, if our proposals is accepted, We agree for unconditional acceptance of all the terms and conditions in the Bid document and also agree to abide by this Bid response for a period of 180 days from the date fixed for Bid opening and it shall remain binding upon us, until within this period a formal contract is prepared and executed, this Bid response, together with your written acceptance thereof in your notification of award, shall constitute a binding contract between us.

We confirm that the information contained in this proposal or any part thereof, including its exhibits, schedules, and other documents and instruments delivered or to be delivered to the Department is true, accurate, and complete. This proposal includes all information necessary to ensure that the statements therein do not in whole or in part mislead Department as to any material fact.

We agree that you are not bound to accept the lowest or any Bid response you may receive. We also agree that you reserve the right in absolute sense to reject all or any of the products/service specified in the Bid response without assigning any reason whatsoever.

It is hereby confirmed that I/We are entitled to act on behalf of our corporation/company/firm/organization and empowered to sign this document as well as such other documents, which may be required in this connection.

(Signature)

(In the capacity of)

Duly authorized to sign the Bid Response for and on behalf of:

(Name & Address)

Seal/ Stamp of bidder

Date:

Place:

Name & Designation with Seal:

Form 8. Bidder's authorization letter

To
C E O,
Zilla Parishad,
Nagpur.

Subject: Authorization certificate

<Bidder's Representative Name> ,<Designation> is hereby authorized to sign relevant documents on behalf of the company/firm in dealing with SWISS CHALLENGE for selection of system integrator for implementation, training and support of educational ecosystem in Zilla Parishadschools, Nagpur issued by you. He/ She is also authorized to attend meetings, submit bid as may be required by you in the course of processing the above said Bid.

(Signature of the authorised representative of the Bidder)

Name:

Designation:

Seal:

Date:

Place:

Business Address:

Form 9. Certificate of Conformity

To
C E O,
Zilla Parishad,
Nagpur.

This is to certify that, the specifications of Application and Services which I have mentioned in the Technical bid, and which I shall supply if I am awarded with the work, are in conformity with the specifications and requirements mentioned in the Swiss Challenge document for Selection of system integrator for Implementation, Training and Support of Educational Ecosystem in Zilla Parishad Schools, Nagpur.

I also certify that the price I have quoted is inclusive of all the cost factors involved in the execution of the project, to meet the desired Standards set out in the SWISS CHALLENGE Document.

(Signature of the authorised representative of the Bidder)

Name:

Designation:

Seal:

Date:

Place:

Business Address: