

Request for Proposal for providing Digital Education in Schools

OFFICE OF THE DISTRICT MAGISTRATE –CUM- DEPUTY COMMISIONER

EAST SINGHBHUM, JAMSHEDPUR

SECTION-1

REQUEST FOR PROPOSALS

Request for proposals are invited from reputed firms/companies/agencies for the purpose of setting-up of computer labs, smart class and providing digital education in 21 schools in East Singhbhum.

BID No. 01

Important Dates

Date of publishing of RFP	:	
Last date for Purchase of RFP document	:	
Last date & time for submission of Bids	:	
Opening of Technical Part	:	
Opening of Financial Part	:	To be notified later

Brief Scope of Work

OFFICE OF THE DISTRICT MAGISTRATE –CUM- DEPUTY COMMISSIONER, EAST SINGHBHUM, JAMSHEDPUR would like to provide Computer Education and Computer Aided Education in the government schools in order to ensure the benefits of digital era reaches to its students. It is expected that it will enable the enhanced learning outcomes and better results in schools.

In this regard, OFFICE OF THE DISTRICT MAGISTRATE –CUM- DEPUTY COMMISSIONER is looking for a partner who is ready to work with us as per terms & conditions defined in such tenders. The brief scope of work involves:

- A. The Projects are to be implemented on a turnkey basis in Schools. The successful bidder's responsibilities include supply, installation of Hardware and requisite software, Supply and Deployment and Management of Manpower, Training, and other allied accessories (i.e. web cam, multipurpose printers, Solar UPS, etc.), site preparation (i.e. furniture and fixtures, electrical fittings, power back up facilities, LAN, Networking etc.), etc.
- B. The successful bidder will be maintaining and up keeping the supplied infrastructure at each location during the project period of 3 years. The bidder has to supply, install and maintain hardware and furniture mentioned in the respective tender document in each of the locations.
- C. The bidder will provide an online tool for monitoring of Hardware equipment's and manpower services. The tool will generate monitoring reports as per the formats required by the customer department. The system should generate the monitoring and report as per formats provided by the department.
- D. The online tool should be able to capture various data like Hardware performance, manpower attendance etc as well as curriculum mapped multimedia content in regional languages.
- E. The bidder will be responsible for training of teachers (minimum 5) per school. 5 days within 3 Months of establishment, 2 days follow-up after 6 Months of initial training in first year and 5 days per year in 2 subsequent years.
- F. Bill of Material is detailed in Section 3.
- G. 2 Nos. Classroom will be engaged for this purpose. One room for computer lab and other for Smart Class facility.

2. Pre-Qualification Criteria

The bidder/Lead bidder in case of consortium should meet the following pre-qualification criteria:

S#	Eligibility Criterion	Documentary Proof
1	The bidder must be a registered company in India, registered under the Companies Act 1956 and should be in existence since last 5 years or more.	Certificate of Incorporation
2.	The Bidder should have at least one year of experience in implementation and delivery of IT Projects in Education or Computer Education Projects in Education.	The Applicant shall provide certificate of experience/Work orders with supporting documents Note- If the Bidder has executed any similar projects in consortium then in that case the Bidder should be a lead bidder while Demonstrating experience.
3.	The bidder should have minimum annual turnover of Rs. 10 Crs during FY 2016-17 Note : The turnover refers to standalone of the company and not the group turnover of its subsidiaries / group companies etc.	Copy of the audited balance sheets of the company for 2016-17 or a CA certificate mentioning turnover from IT operations.
4.	The bidder should have executed a single project involving setting-up of computer labs/Smart class, Providing teacher training in at least 50 schools.	Work Orders and Completion Certificate/ Acceptance Certificate from client is mandatory to submit. Note- If the Bidder has executed any similar projects in consortium then in that case the Bidder should be a lead bidder while Demonstrating experience.
5.	The bidder should not have defaulted/black listed by any Govt. dept/PSU of India and there should not be any pending litigation against bidder with Central /Ctate government department	Self-declaration on the bidder's Letter Head is required
6.	The bidder should have valid ISO 9001:2008 certificate	Copy of the valid certificate from authorized agency.
7.	The bidder should have valid documentary proof of GST registration in Jharkhand and PAN registration number.	Self-Certified Copy of PAN /GST registration

8.	The bidder should have executed at least 3 different projects wherein they would have supplied IT hardware in schools.	Work order/agreement copy
9.	The bidder should be a profitable company in and should have a positive net worth during each of last 3 Financial years	Audited balance sheets or CA certificate
13.	Power of attorney for signing the offer and for further clarifications/negotiations	Copy of the Power of Attorney signed by board of the company
14.	Compliance statement	Clause by clause compliance statement of RFO document
16.	EMD of Rs. 4,20,000/- in form of a Bank Guarantee in _____ favour of _____ to be submitted along with the proposal.	
17.	Receipt of Tender Purchase Fee	Receipt/Purchased Tender Document to be enclosed with the Technical proposal
18.	The bidder must provide Manufacturer Authorization forms (MAFs) from all OEM in the name of the bidder authorizing them to quote in this tender on their behalf. They should also provide technical compliance and brochures from OEMs.	MAFs, technical Compliances and product brochures

The bidder should submit (self-attested) documentary proof in support of each of the above conditions. The incomplete offers will be summarily rejected without any further correspondence.

Bidders who will qualify basis the above criteria may be called for a technical presentation in order to evaluate the technical understanding and capability of the bidders. Tendering authority have all the rights to reject or select the bidders for further evaluation on the basis of Technical Presentation and demonstration of capabilities by the bidder.

The price offers of only those parties who qualify in the first stage and make a satisfactory presentation shall be opened at time and date to be notified separately.

Tendering authority reserves the right to accept or reject any or all the offers without assigning any reason.

The offers are to be submitted to: _____,

END OF SECTION-1

SECTION - 2
TERMS AND CONDITIONS

1) Price Basis

- a. Prices shall be quoted in Indian rupees, and shall be inclusive of all applicable taxes. The taxes will be shown separately. TDS deduction shall be made as per the prevailing Govt. Laws/ notification
- b. Bidders are requested to quote the price for complete BOM, as per section-3.

2) Validity Period of RFP

Price quoted shall remain valid for a period of 3 months after the scheduled date of RFP submission.

3) Insurance

The equipment supplied vide this RFP shall be fully insured against loss or damage incidental to manufacturer or acquisition during transportation, storage, delivery and installation and handover to the tendering authority

4) Payment Terms

Payments terms will be as below:

1. 50% of the hardware payment will be made after installation and commissioning of hardware in schools.
2. 25% payment will be made after successful completion of operation of 3 Months and 5 days initial training of Teachers.
3. 25% payment will be made after completion of Tender Period of 3 years.

5) Delivery Schedule

All the labs should be set-up and teachers to be deployed within 60 days from the date of purchase order/signing of the agreement.

6) Performance bank Guarantee

Within 10 days of the receipt of work order, bidder shall submit Performance Bank Guarantee to TENDERING AUTHORITY for an amount equal to 5% of the total cost of the order. The Performance Bank Guarantee shall be valid for the period equal to the warranty period of the equipment plus three (03) months with one month of claim period

7) Penalty

In case of delay in project implementation, the penalty would be applied by the tendering authority.

8) Warranty

The period of warranty on all supplied equipment's shall be 3 years.

9) Site Visit

- a. The bidder, at the bidder's own responsibility, cost and risk, is encouraged to visit and examine the site of works and its surroundings and obtain all information that may be necessary for preparing the bid and entering into a contract for execution of the works. The costs of visiting the site shall be at the bidder's own expense.
- b. It shall be deemed that the bidder has visited the site/area and got fully acquainted with the working conditions and other prevalent conditions and fluctuations thereto whether he actually visits the site/area or not and has taken all the factors into account while quoting his rates.

10) Submission of bids

The bids have to be submitted in physical form at OFFICE OF THE DISTRICT DEVELOPMNET COMMISIONER, DISTRICT COLLECTORIATE, EAST SINGHBHUM, JAMSHEDPUR with technical cum Pre-qualification bid in one envelop and Financial bid in another envelop. Both the envelops should be kept in one envelop with the name of bidder super scribed on it.

11) Evaluation of Bids

- a. Tendering authority shall evaluate the bids in respect to the substantive responsiveness of the bid or otherwise. Tendering authority shall carry out detailed evaluation of the substantially responsive bids. Tendering authority shall check the bid to determine whether they are complete, whether any computational errors have been made or required sureties have been furnished.
- b. Arithmetical error shall be rectified on the following basis
 - i. If there is a discrepancy between the unit price and total price that is obtained multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected by the Purchaser.
 - ii. In case of discrepancy between words and figures, the amount in words shall prevail
- c. A bid determined as substantially non-responsive shall be rejected by the purchaser.

- d. TENDERING AUTHORITY may waive any minor infirmity or non-conformity or irregularity in the bid which does not constitute a material/service deviation.
- e. TENDERING AUTHORITY shall evaluate in detail and compare the bids which are substantially responsive
- f. Total Cost of Hardware, Software and Services inclusive of taxes (As asked as point C in Financial bid format) will be considered for the evaluation of L1 bidder

12) Risk Purchase:

Action against defaulting vendor in case work is awarded to him In the event of contractor's failure to execute the contract to the satisfaction of DISTRICT TENDER COMMITTEE, the purchaser reserves the right

- a. to reject any part of the contract executed and withhold payment for such portion of the contract till such time the defects are rectified to the satisfaction of the purchaser
- b. to terminate the contract by giving 2 weeks' notice in writing without assigning any reason and to get the contract executed by other agency at the risk and cost of the contractor.

13) GST Registration

The bidder must give a declaration mentioning that they will take the state GST registration in the state of work.

14) Termination of Default

DISTRICT TENDER COMMITTEE may, without prejudice to any other remedy for breach of contract, by written notice of default, sent to the contractor, terminate this contract in whole or in part.

- a. if the contractor fails to deliver any or all the services/goods within the time period specified in the contract, or any extension thereof granted by DISTRICT TENDER COMMITTEE
- b. if the contractor fails to perform any other obligation(s) under the contract; and
- c. if the contractor, in either of the above circumstances, does not remedy his failure within a period of 15 days (or such longer period as the purchaser may authorize in writing) after receipt of the default notice from DISTRICT TENDER COMMITTEE.

- d. Failure of the successful bidder to comply with the requirement of submission of performance security shall constitute sufficient ground for cancellation of the award of work
- e. In the event DISTRICT TENDER COMMITTEE terminates the contract in whole or in part pursuant to above clause, DISTRICT TENDER COMMITTEE may procure, upon such terms and in such manner as it deems appropriate, goods/services similar to those undelivered and the contractor shall be liable to DISTRICT TENDER COMMITTEE for any excess cost for such similar goods/services. However, the contractor shall continue the performance of the contract to the extent not terminated.

15) The bidder should submit all the Pre-qualification and technical documents in one envelop with “Technical Proposal” mentioned on it and only the Commercial proposal should be submitted in a separate envelop with “Financial Proposal” mentioned on it. Both of these envelops should be submitted in a single envelop with Bidder’s name and address mentioned on it with a caption of Subject line of this RFP along with the RFP number. Please note that the proposals should be submitted on or before the Submission due date and time.

16) **Other conditions**

- i. **Execution of written contract:** In the event of the tender being accepted, the full amount of the contract deposit must be paid and the contract must be signed by all the partners of the firm. If one or more partners are not available for this purpose, the signatory must produce a power of attorney authorizing him to sign on behalf of the absent partners. All such power of attorney must be registered in the office of the Accountant and/or District Education Officer should be informed accordingly.

In case of joint stock Company the contract must be sealed with the seal of the company in the presence of and signed by two Directors or by person duly authorized to sign the contract for the company by a power of Attorney. All such power of attorney must be registered in the office of the Accountant and/or District Education Officer should be informed accordingly.

Tenderers failing to pay the contract deposit and / or failing to submit all the documents to execute the contract within 30 days from the receipt of the contract document, shall be deemed to have committed a breach of the undertaking given by them in their tender and their EMD shall be forfeited, along with the penal action including blacklisting of the tenderer. His tender shall also stand rejected. Without the contract being executed, no bills shall be admitted for payment.

- ii. **Refund of contract deposit:** Contract deposit will be refunded within a month after satisfactory completion of contract period of the project.

- iii. **Unconditional offer:** Tenderers shall quote a firm & unconditional offer. **Conditional offers shall not be considered and shall be treated as non-responsive.** Bonus/complimentary / discount offer given with condition will also be rejected. Bonus/complimentary / discount offer without any condition will not be considered for evaluation of comparative assessment. The net price quoted will only be considered for determining the lowest bidder irrespective of unconditional Bonus/ complimentary / discount offer.
- iv. **Variation in rate:** Tenderer's shall fill in the tender carefully after noting the items and its specifications. No variation in rates etc. shall be allowed on any grounds such as clerical mistake, misunderstanding etc. after the tender has been submitted.
- v. **Firm price**
The prices quoted shall be firm and no variation will be allowed on any account whatsoever. The rates are quoted include of all Taxes only.
- vi. **Alternative clauses in tender.** No alteration or interpolation will be allowed to be made in any of the terms or conditions of the tender & contract and/or the specifications and /or in the schedule of quantities. If any such alteration or interpolation is made by the tenderer, his tender shall be rejected.
- vii. **Validity.** The validity of the offer should be for at least **90 days** from the date of the opening of the tender.
- viii. **Product Names.** The tenderer must state the brand name of the product, if any.
- ix. **Manufacturer's address.** The manufacturer's complete address, or bidder's details, list of partners with their names and commercial and residential addresses must be indicated in the Annexure.
- x. **Order:** Orders will be placed by District Education officer along with school-wise details of requirement of Mini science center & Robotics.
- xi. **Delivery:** The Tenderer should give free delivery to the respective school within Jurisdictions of The OFFICE OF THE DISTRICT MAGISTRATE –CUM- DEPUTY COMMISSIONER, EAST SINGHBHUM, JAMSHEDPUR within **60** days from the date of placing the orders.
- xii. **Contract:** The Contract Document means the entire document along with any attachments and all documents forming part of the Contract (and all parts of these documents) are intended to be correlative, complementary and mutually explanatory. The contract shall be read as a whole.
The Contract Agreement means the agreement entered into between the The OFFICE OF THE DISTRICT MAGISTRATE –CUM- DEPUTY COMMISSIONER, EAST SINGHBHUM, JAMSHEDPUR and the bidder. The date of the Contract Agreement shall be recorded in the signed form.

- 17) **Acceptance of Tender.** The decision of the DISTRICT TENDER COMMITTEE shall be final and binding and DISTRICT TENDER COMMITTEE do not pledge to accept the lowest or any tender. The DISTRICT TENDER COMMITTEE reserves the right to reject any or all tenders and relax/stringent any of the condition of tender without assigning any reasons.
- 18) **Acknowledging communications.** Every communication from the DISTRICT EDUCATION OFFICER, EAST SINGHBHUM to the tenderer should be acknowledged by the tenderer/ Quotationer /Supplier with the signature of authorized person and with official rubber stamp of the tenderer/supplier.
- 19) **Jurisdiction of courts** In case of any claim, disputes or differences arising in respect of a contract, the causes of action there at, shall be deemed to have arisen in JHARKHAND and all legal proceedings in respect of any such claim, disputes or differences shall be instituted in a Competent Court in the Jamshedpur only.
- 20) **Taxes and Duties.** All the rates quoted by the tenderer should be inclusive of all duties, levies, Excise Duty, Custom Duty and taxes etc. If there is any increase in above taxes/ duties during the period of contract repayment claim will not be entertained by The OFFICE OF THE DISTRICT MAGISTRATE –CUM- DEPUTY COMMISIONER , EAST SINGHBHUM, JAMSHEDPUR
- 21) **Rejection.** If the particulars furnished by the tenderer are found materially incorrect or misleading, such tender shall be rejected and their EMD shall be forfeited and he shall be liable for further action like black-listing etc. Any change occurring within their institute like change in name of firm, change of partner, change in the constitution, change in brand name of the product, merger with any other institutions, contract work, if any, allotted to another firm, any freshly initiated court case should be promptly intimated to the The OFFICE OF THE DISTRICT MAGISTRATE –CUM- DEPUTY COMMISIONER , EAST SINGHBHUM, JAMSHEDPUR If the tenderer fails to submit such information during the tenure of the contract, that shall invite legal action and black-listing as well.
- 22) **Penalty :** If the successful tenderer fails to comply with work/purchase order within the delivery period stipulated, the District Tender Committee shall exercise his discretionary power either :-
To recover from bidder as agreed, the liquidated damages or by way of penalty ½% (half percent) of the price of the materials which the bidder has failed to Establish mini science center and Robotics as aforesaid per week or part thereof during the contract period up to maximum limit @ 10% of the contract cost.
- 23) **Blacklisting.** The firm shall be black-listed, if it is found that:-
- i) Forged documents are submitted OR
 - ii) If it becomes responsive on the basis of submission of bogus certificate/information. OR
 - iii) In case of non-supply of materials or supply of substandard quality or supply of materials found to have been previously used or having reconditioned parts.

- 24) **Payment of legal and stationery charges:** These charges are to be paid by the successful bidder on receipt of acceptance letter for the supply of the material as per prevailing circular.
- 25) **Stamp duty:** The contract agreement shall be adjudicated for the payment of stamp duty by successful bidder and accordingly the successful bidder shall have to pay the stamp duty on contract agreement as per the Government Directives.
- 26) **Amendment to tender documents:** Before deadline for submission of tender offer, the The DISTRICT TENDER COMMITTEE may modify any tender condition included in this tender document by issuing addendum/corrigendum/clarification and publish it in the newspapers and/or on the portal of The OFFICE OF THE DISTRICT MAGISTRATE –CUM- DEPUTY COMMISIONER , EAST SINGHBHUM, JAMSHEDPUR .Such addendum/corrigendum/clarification so issued shall form part of the tender documents. All tenderers shall sign and seal such addendum/ corrigendum/ clarification in Packet A.
- 27) **Confidential Information:** The drawings, specifications, prototype, sample and such other information furnished to the contractor relating to the supply of material shall be treated as confidential and shall not be divulged to any third party. It shall remain the property of The DISTRICT TENDER COMMITTEE. If, during the process of execution of the contract, any improvement, refinement or technical changes and modifications are effected by the contractors, such changes shall not affect the title to the property and all the information, specifications, drawings etc. including the improvement/modifications effected by the contractor shall continue to be the property of the The DISTRICT TENDER COMMITTEE.
- 28) **Risk & Cost Purchase:** In case, the bidders shall at any time during the continuance of these presents fail to supply satisfactorily, the articles within the prescribed time as herein provided or in case, shall fail at once to replace any articles that may have been rejected as herein provided with other, of approved quality, the DISTRICT TENDER COMMITTEE shall be at liberty forthwith to procure the same in the open market at the risk and cost of the bidders. The extra cost thereof (if any) and all expenses thereby incurred, which shall include charges of 5% minimum to a maximum of 15 % shall be payable by and/or may be deducted from any moneys due or become due to the Contractor/s under this or any other contract/s between the Contractor/s and the The DISTRICT TENDER COMMITTEE, The DISTRICT TENDER COMMITTEE may, however fix such other subsequent date as he may think fit by which the delivery of the said article and or execution of the said work shall be completed.
- 29) The DISTRICT TENDER COMMITTEE, EAST SINGHBHUM, JAMSHEDPUR reserves its right to inspect the manufacturing premises of the company as and when required.
- 30) Bidder shall not have been debarred/black listed by The DISTRICT TENDER COMMITTEE, EAST SINGHBHUM, JAMSHEDPUR./central Govt./state Govt./ Public sector undertaking/any other Local

body. If in future, it comes to the notice of The DISTRICT TENDER COMMITTEE, EAST SINGHBHUM, JAMSHEDPUR / if it is brought to the notice of The DISTRICT TENDER COMMITTEE, EAST SINGHBHUM, JAMSHEDPUR during the currency of this contract, that any disciplinary/penal action is taken against the bidder due to violation of terms and conditions of the tender allotted to Bidder. The bidders / manufactures which amounts to cheating/depicting of malafide intention anywhere in The DISTRICT TENDER COMMITTEE, EAST SINGHBHUM, JAMSHEDPUR or either by any of central Govt./state Govt./Public sector undertaking/any other Local body, The DISTRICT TENDER COMMITTEE, EAST SINGHBHUM, JAMSHEDPUR will be at discretion to take appropriate action as it finds fit.

- 31) All the above conditions should be strictly adhered to failing which the tender will be treated as non-responsive and no correspondence will be entertained in the matter.

- END OF SECTION - 2

SECTION 3

A. Hardware & Software

Sr. No	Item	Technical Specification	Make & Model	Unit	Unit Cost	GST Rate (In %age)	GST Amount	Total Price	HN S Code	Total with Tax
A			B	C	D	E	(C x D x E) = F			
1	Desktop computer	<p>Processor: Intel i5 or AMD A10 Equivalent with Min. 3.0 Ghz or higher., Motherboard: Compatible Chipset on OEM Motherboard Memory: 4 GB DDR3 1600 MHz or higher upgradeable to 16GB or more with 4 DIMM slots, Hard Disk: 1 TB SATA,7200 RPM Monitor: Min 18.5" LED TFT or higher from same OEM. Ethernet: Ethernet integrated Giga-bit (10/100/1000) Mouse: Two Button PS/2 or USB Optical Scroll Mouse (Any Reputed Brand) Key Board: PS/2 or USB Key Board (Any Reputed Brand) Optical Drive: 16x DVD RW or higher Graphics: Onboard HD Graphics, Audio Controller: Onboard Audio controller I/O Port: 6 (Six) or more USB 2.0 ports (at least 2 in front); 1Ethernet (RJ45);1 VGA Out; minimum 1 Audio line in / out; 1 Microphone line in. Expansion Slot: At least 3 PCI/PCIe slots Power: 280 Watt or lower with active PFC, Antivirus must be included. For OEM:ISO 9001</p>		10						

		<p>OEM Certification: EPEAT GOLD India Certification</p> <p>Windows License : Windows 10 License on all computing devices</p> <p>Microsoft Office 2013: Installed on all computing devices</p>								
2	Software	<ol style="list-style-type: none"> 1. MS Windows 10 on all PCs 2. MS Office 2013 on all PCs 3. Multimedia content mapped to NCERT curriculum from class 1-12th in Hindi and English on all PCs 		1						
3	Interactive computing device	<p>Processor- Intel Pentium Processor, Dual core (3rd Generation), System Memory (RAM)- 4 GB, Storage- 500 GB, Wi-Fi Enabled, Intel HD Graphic, Bluetooth 4.0, LAN Port, minimum 2 USB ports, HDMI Out, VGA Out, Audio- minimum 30 watts, Pre-loaded with Windows 10, 64 Bit, Inbuilt Interactivity features: Simultaneous Touch points-255, Signal Refresh Rate- up to 200 FPS at 195 Mn dots / sec, Accuracy- + / - 2 px, Transmission FPS- up to 200 FPS, Calibration- Automatic Calibration, Response Time- 8ms, Power Required- DC Power, BIS certificate</p> <p>Wireless Keyboard and Mouse</p>		1						

4	Projector	LED Hybrid Technology 3000 ANSI XGA Projector, 1:1 Manual Zoom, Dust Resistant, with remote 4ft x 6ft - 4ft white board,		1							
5	Laser Printer	Print, copy and scan with one compact machine - and reduce your environmental impact with energy-saving features, 100-sheet face-down bin, Maximum output capacity (sheets) Up to 100 sheets, Media sizes supported: A4, A5, ISO B5, ISO C5, ISO C5/6, ISO C6, ISO DL		1							
6	Solar Hybrid UPS	Total Capacity 1500 VA, SPV Modules: Mono/ Multi Crystalline Silicon PV cells fitted with bi pass diodes. The modules should also have been tested & confirm to IEC 61215 standards., 12 V low maintaince Tubular Batteries DC Bus Voltage \geq 48VDC, 2 hours of backupp, 3600 VAH, buildin UPS, Single Phase input 120 - 280 V, 50 HZ+-6%, Output Wave form Sine Wave, Transfer time < 6 msec, Voltage THD < 3% on linear load, Battery Battery sizing details to be enclosed; Batteries of well-known brands to be supplied with OEM Warranty Certificate for 5 years duration. Grid charger CVCC battery charger to charge in 8-10 hours' time, Deep discharge protection, Battery reverse polarity protection, Over charging protection Display /Indications and alarm, LED indication Solar ON, Mains ON, Inverter ON, Battery Low, Over load, Inverter Fault, Battery Model, LCD Meter Display All Input/ Output Parameters Audible Alarm Battery Low, Over Load, Fault, Battery Operation, Over Temperature, Audible Noise < 65 dB at 1 meter		1							

		<p>distance, Temperature Range 0°C to 45°C Relative Humidity 10-95% RH non-condensing, Junction Box Dust and vermin proof to provide termination of cables along with tags NOTE: Suitable length of cable shall be provided for interconnection of modules, charge controller, battery bank, Inverter, etc Warranty Certificates from Solar Panel OEM & Battery</p> <p>Module Mounting Structure: Suitable to accommodate solar modules, made of MS angles, duly galvanized to avoid corrosion. The mounting structures for SPV modules should be without too many welding joints and fixed to the roof top. Roof top space (without shading) to be made available. Approx. 250 sq. ft. required for 2KW installation. OEM Certifications: a) ISO 9001 & ISO 14001. b) Test report as per IEC Standards for Solar Hybrid UPS (PCU) from MNRE approved Lab c) Test report as per IS Standards for Batteries. d) SPIB / SMERA / CRISIL or equivalent Solar Grading Certification of rating SPC or better. e) Minimum supply & installation of 500 Solar Hybrid UPS anywhere in the country either directly or through System Integrators.</p>							
7	Web Camera	<p>Web Cam: HD video calling & connecting, Image Resolution: 16.0 Mega Pixel, I/O Interface: USB 1.1 at least, Image Control: Brightness, Contrast, Hue, Saturation, Gamma, White Balance Environment: Indoor & Outdoor</p>		1					

8	16 Port Switch	16 Port 1000 mbps unmanaged Switch should be Rack Mountable		1						
9	Furniture	Wooden Table : 600 x 450 x 725 mm with Sun mica Top, Plastic Molded Chair ISI brands 01 with handle and rest without handle No. of chairs per location: 25 No. of Tables per location : 12		1						
10	Site Preparation work (2 Nos. Class Room)	Standard Quality of work of electrification including earthing, electrification, paint, 4 Tube Lights/CFL/LED, 4 Ceiling Fans, 01 Exhaust Fan, 01 Sub Meter (10/20 amps, 1 phase/3phase electronic/Analog), networking and painting with 1 internet connection per lab with 2 MBPS or higher bandwidth, Vinyl flooring(Minimum 0.5 thickness) average 400 to 450sqft per lab , 01 Fire Extinguisher - Branded standard quality Earthing- Earthing should be below 2 Volts with copper plate, and electrode with copper wire with main switch. The copper plate has been buried with the necessary depth in the soil, along with required quantity of salt, sand, and charcoal filling, after necessary excavation. All items to be ISO/ISI certified Note : Two rooms, One for computer lab and other for smart class with interactive devices.		1						
11	Teacher training	Minimum 5 teachers per school to be trained for initially 5 days and for 2 days after 6 months and 5 days per year in 2 subsequent years								

B. Services

Sr. No	Item	Unit	Unit	Unit Cost	GST Rate (In %age)	GST Amount	Total Price	Total with Tax
A	C	D	D	E	(C x D x E) = F			
3	Computer Instructor	One Dedicated Computer Instructor for a period of 1 year to maintain the computer lab as well as to facilitate the computer education to school children (Minimum salary of Rs. 8500/- to be paid to CI by the bidder). CI should be graduate & Diploma in computer course for at least 2 years.	1					

C. TOTAL COST FOR HARDWARE, SOFTWARE AND SERVICES

Particulars	Amount in INR
Sum total of prices of all hardware and Services mentioned above (Inclusive of Taxes)	

