



GUJARAT INFORMATICS LIMITED
BLOCK NO.-1, 8TH FLOOR, UDYOG BHAVAN, SECTOR-11, GANDHINAGAR



GUJARAT INFORMATICS LIMITED

Block No: 1, 8th Floor, Udhog Bhavan,
Sector-11, Gandhinagar: 382 010
Phone No: 23256022, Fax No: 23238925

**Bid for Purchase of Computer Hardware
& related peripherals on behalf of Gujarat
Council of Elementary Education, SSA
Mission, Gandhinagar**

Tender No. HWT181213207

Last Date of Receipt of Bid : 13.01.2014 till 1700 hours

Date of Opening of Bid : 14.01.2014 at 1500 hours

Bid Processing Fee: Rs. 5000



Gujarat Informatics Limited (hereinafter referred to as "GIL"), intend to invite offers through E-tendering route for supply, installation and maintenance of Computer hardware including peripherals on behalf of Gujarat Council of Elementary Education, SSA Mission, Gandhinagar (Tender No. HWT181213207).

Eligibility Criteria for the bidder:

1. The bidder should have a total sum of turnover of Rs. 15 Crore (Minimum) in the last three financial years and the turnover of the last year should be at least Rs. 5 crores. The copies of Audited Annual Accounts for last three years shall be attached along with the bid. **(Form no. E-1)**
2.
 - (a) The bidder must have one office in Gujarat. Please attach the copy of any two of the following: Property tax bill/Electricity Bill/Telephone Bill/VAT/CST Registration/Lease agreement. **(Form no. E-2)**
 - (b) The bidder must have at least three authorized service centers covering all regions of Gujarat with one service centre in Ahmedabad/ Gandhinagar. Please attach the copies of any two of following: Telephone Bills of last one year/ Property tax bill/copies of Electricity Bills of last one year/VAT/CST Registration/Lease agreement. In case the bidder is providing after sales support through Franchisee and/or Service Provider, then the undertaking duly signed by the bidder & the franchisee and/or Service Provider shall also be attached with the bid for after sales support. **(Form no. E-3)**
3. The bidder must have at least 25 customer reference sites of local area network installation or 25 reference sites each of minimum 50 machine (Computer) installations, in Gujarat. Customer references & Purchase orders must be attached along with the bid. **(Form No. E-4)**
4. The bidder should be authorized by its OEM (for PCs) to quote the bid **(Form no. E-5)**.
5. If Multinational OEM would like to participate through their Gujarat based partner, then the partner must be Authorized Service Provider of the MNC. Multinational OEM & their authorized Partner should not participate simultaneously & only one of them should participate. **(Form no. E-6)**
6. The Manufacturer of the product (OEM) should be ISO 9001:2008 Process Certified for manufacturing. ISO certificates are required for items like Server, Desktop PC, Thin Client, Ethernet Switches, UTP cable, Jack/Patch Panels, Information Outlets, Printers & UPS. **(Form No. E-7)**
7. **If bidder is Consultants / firm, and any of its affiliates hired to provide consulting services for the preparation or implementation of a project under this tender, then bidder will be disqualified for providing goods or works or services related to the initial assignment for the same project.**

Note:

1. Bidders who wish to participate in this bid will have to register on <https://gil.nprocure.com>. Further bidders who wish to participate in online bids will have to procure Digital Certificate as per Information Technology Act 2000 using which they can sign their electronic bids. Bidders can procure the same from (n) code solutions - a division of GNFC Ltd., or any other agency licensed by Controller of Certifying Authority, Govt. of India. Bidders who already have a valid Digital Certificate need not procure a new Digital Certificate.
2. The bidder(s) qualified in Pre-qualification/Eligibility Criteria stage of tender no. HWT060712171/HWT060712172/HWT110912176/HWT240912177/HWT020513189/HWT210513190/HWT180713195 is/are not required to upload the supporting document for eligibility criteria no. 1, 2 and 3.

The terms and conditions are as follows:

- 1 The last date of submission of bid on the website <https://gil.nprocure.com> is 1700 Hrs. **13.01.2014** . **No physical bids will be accepted under normal circumstances.** However, GIL reserves the right to ask the bidders to submit the bid and/or any other documents in physical form.
- 2 The bid is non-transferable.
- 3 **The Bidder may quote only one option (i.e. only one product can be quoted) against each item.** Bidders are required to mention make & Model of the product (Do not write "OEM" against items except the items asked to be integrated with Computers as bidders are expected to give make & model of the product).
- 4 The bidder will have to supply, install, maintain and provide training for hardware, software and peripherals and carry out necessary integration at offices located all across Gujarat State.
- 5 In case the quoted Item is not available in the market, the bidder will have to supply Higher Version/replacement of that Item in the quoted cost in the same time duration with prior approval of GIL. No "End of Life" product should be quoted to minimize such instances till the bid validity (Make & Model quoted by the bidder should be available till the bid validity, duly supported for spares/OEM support for 5 years).
- 6 The Bidder shall bear all the costs associated with the preparation and submission of its bid, and GIL will in no case will be responsible or liable for these costs, regardless of conduct or outcome of bidding process.
- 7 The bidder has to upload the compliance letter on its letter head duly signed by the authorized signature & other supporting documents as asked for in the bid in scanned format. Failing to submit the same or non-compliance/deviation from any bid terms and conditions, eligibility criteria or technical specifications may result in rejection of the bid.
- 8 The Bidder has to examine all instructions, forms, terms, conditions and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in rejection of its bid.
- 9 Amendment of Bidding Documents (Corrigendum)
 - 9.1 At any time prior to the deadline for submission of bids, GIL may, for any reason, whether its own initiative or in response to the clarification request by a prospective bidder, modify the bidding documents.
 - 9.2 The corrigendum will be published on website <https://gil.nprocure.com> .
 - 9.3 In order to allow prospective bidders reasonable time to take into consideration the amendments while preparing their bids GIL, at its discretion, may extend the deadline for the submission of bids.
- 10 Bid Currency - Prices shall be quoted in Indian Rupees only.
- 11 The Bidder will have to remit **Non refundable Bid Processing Fees of Rs. 5,000/- & Earnest Money Deposit (E.M.D.) of Rs. 85,00,000/-** on or before the date & hours of opening of the bids in a sealed cover at GIL office with the heading "**Bid Processing fees & EMD for the E-tender no. HWT181213207 for Supply, Installation and maintenance of Computer hardware and peripherals on behalf of Gujarat Council of Elementary Education, SSA Mission, Gandhinagar (Tender No. HWT181213207).**" Bid Processing fees & E.M.D. must be in the form of Demand Draft in the name of "Gujarat Informatics Ltd." payable at Gandhinagar along with the covering letter. **Please affix the stamp of your company on the overleaf of demand draft.**
- 12 In case of non-receipt of Bid Processing fees & EMD as mentioned above within prescribed time the bid will be rejected by GIL as non-responsive.
- 13 Unsuccessful bidder's E.M.D. will be returned as promptly as possible but not later than 15 days after the expiration of the period of bid validity OR upon the successful Bidder signing the Contract, and furnishing the Performance Bank Guarantee @ 10% of the total order value as prescribed by GIL, whichever is earlier.

- 14 In exceptional circumstances, GIL may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. A Bidder may refuse the request without forfeiting its E.M.D. A Bidder granting the request will not be permitted to modify its bid.
- 15 The Successful bidder has to submit Performance Bank Guarantee @ 10% of total order value within 15 days from the date of issue of Purchase order for the duration of warranty of all Nationalized Bank including the public sector bank or Private Sector Banks authorized by RBI or Commercial Bank or Regional Rural Banks of Gujarat or Co-Operative Bank of Gujarat (operating in India having branch at Ahmedabad/ Gandhinagar) as per the [G.R. no. EMD/10/2013/107/DMO Dated 06.04.2013 issued by Finance Department](#).. (The draft of Performance Bank Guarantee is attached herewith).
- 16 Successful bidders will have to sign the contract upon receiving the Purchase order with the purchaser(s) within 15 working days from the date of Purchase order. (The draft of the Contract form is attached herewith)
- 17 The successful Bidder's E.M.D. will be returned upon the Bidder signing the Contract, and furnishing the Performance Bank Guarantee @ 10% of the total order value and offer of inspection of the ordered material.
- 18 The E.M.D. may be forfeited:
- (a) if a Bidder withdraws its bid during the period of bid validity
 - (b) In case of a successful Bidder, if the Bidder fails:
 - (i) To sign the Contract as mentioned above or
 - (ii) To furnish performance bank guarantee as mentioned above or
 - (iii) If the bidder is found to be involved in fraudulent practices.
- 19 Termination for Default
- 19.1 The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Bidder, terminate the Contract in whole or part:
- a) if the bidder fails to deliver any or all of the Goods within 60 working days from the date of purchase order, or within any extension thereof granted by the Purchaser or
 - b) if the Bidder fails to perform any obligation(s) under the Contract/Purchase order.
 - c) If the Bidder, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.
- For the purpose of this clause:
- "Corrupt practice" means the offering, giving, receiving or soliciting of any thing of value of influence the action of a public official in the procurement process or in contract execution.
- "fraudulent practice : a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the purchaser, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the purchaser of the benefits of free and open competition;"
- 19.2 In the event the Purchaser terminates the Contract in whole or in part, pursuant to Clause 19.1 above, the Purchaser may procure, upon such terms and in such manner, as it deems appropriate, Goods or Services similar to those undelivered, and the Bidder shall be liable to the Purchaser for any excess costs for such similar Goods or Services. However, the Bidder shall continue the performance of the Contract to the extent not terminated.
- 20 Price shall be inclusive of all freight, forwarding, transit insurance and installation charges.
- 21 Prices shall be inclusive of Excise Duties. The prices shall strictly be submitted in the given format. Quoted prices shall be without VAT. The tax (VAT) components as applicable shall be mentioned separately in the respective columns. **Successful Vendor will have to supply/provide goods with an Invoice from a place located within State of Gujarat.**
- 22 Late Bids - The bidder will not be able to submit the bid after final submission date and time.
- 23 Modification and Withdrawal of Bids

- 23.1 No bids will be allowed to be modified subsequent to the final submission of bids.
- 23.2 No bid will allowed to be withdrawn in the interval between the deadline for submission of bids and the expiry of the bid validity. Withdrawal of a bid during this interval will result in the forfeiture of bidder's E.M.D.
- 24 Bids will be opened with the buyer's private digital key in the presence of Bidder's representatives, who choose to attend. The Bidder's representatives who are present shall sign a register/attendance sheet evidencing their attendance. The representative will be held responsible for all commitments made on behalf of the bidder and that will be considered valid for all further dealings related to this tender process. In the absence of the bidder(s), the tender committee may choose to open the bids as per the prescribed schedule.
- 25 The Bidder's names, Bid modifications or withdrawals, discounts and the presence or absence of relevant E.M.D. and such other details as GIL/GOG officer(s) at their discretion, may consider appropriate, will be announced at the opening.
- 26 **Evaluation of the bids:** After the closing time of submission, GIL/GOG committee will verify the submission of Bid Processing Fees & EMD as per bid terms and conditions. The eligibility criteria evaluation will be carried out of the responsive bids. The technical bids of the bidders who are complying with all the eligibility criteria will be opened and evaluated next. The bidder will have to arrange the demonstration of School Management Software they have quoted in this bid within 5 days from the intimation given by GIL/Purchasing Department. Purchasing Department/their designated domain expert will critically test the same. The financial bid of the technically qualified bidders will be opened and financially L1 bidder will be decided from the sum total of prices for all line items without tax with 5 years warranty minus buyback rates and then called for further negotiations if required.
- 27 The order may be split among a number of technically qualified bidders at the discretion of GIL. The bidder with overall competitive quote will be given preference on the ordered quantity.
- 28 **The bidder will have to offer the inspection at EQDC, Gandhinagar & in the manner as decided by GIL** before delivering to the respective sites or at customer sites. The cost of the same has to be borne by the supplier. Any deviation found in the specification of the produced goods or delivered goods after inspection from the tender specifications will lead to the cancellation of the order, forfeiture of EMD/PBG and prohibition in the participation in the future purchase of Government of Gujarat. GIL/GoG will not be responsible for any time delay which may arise due to any deviation from the bid technical specification found at the time of inspection and the bidder has to deliver and install the ordered goods within prescribed time limit. At the time of inspection, bidder is required to produce OEM's confirmation on OEM's Letter head with Sr. nos. of Equipment, Software and Batteries supplied for back to back warranty support as per tender terms & conditions.
- 29 The indenter's right to inspect, test and, where necessary, reject the Goods after the Goods arrival at Customer Site shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by the Purchaser or its representative prior to the Goods shipment.
- 30 **Delivery & installation:** Within 60 working days from the date of confirmed purchase order.
- 31 If the successful bidder of the immediately preceding tender(s) for the Purchase of Computer Hardware as floated by GIL has failed to deliver the pending orders within the prescribed time limit, then such bidder will deemed to be ineligible to participate in this tender. The period of such deemed ineligibility will be for a six months from the date of expiry of 60 working days for delivery and installation for such preceding tender(s) in view of his poor performance.
- 32 Bids shall be valid for 90 days after the date of financial bid opening. A bid valid for a shorter period shall be rejected as non-responsive. **If required, GIL may extend the bid validity for further period from the date of expiry of bid validity in consultation with the successful bidder.**
- 33 Bidders are required to quote all items including optional add-ons as well. Incomplete bids will be treated as non-responsive and will be rejected.
- 34 **Penalty Clause**

- 34.1 If the bidder fails to deliver and install the requisite hardware and software within 60 working days of the issue of the confirmed purchase order, then a sum equivalent to one percent (1 %) of the total contract value shall be deducted from the payment for each calendar week of delay or part thereof.
- 34.2 Delay in excess of 10 weeks will be sufficient to cause for termination of the contract. In that case the Performance Bank Guarantee of the bidder will be forfeited.
- 34.3 In case, the selected bidder does not supply the ordered items for any reason, the bidder will be liable to pay the difference amount to the purchaser, over and above the performance guarantee, which indenter department has to pay to the next or other selected bidder for purpose of the said items.

35 **Warranty**

- 35.1 **Warranty:** Comprehensive onsite warranty for 5 years from the date of installation of computer hardware including all peripherals and UPS.
- 35.2 The bidder shall guarantee a 95% uptime of computer systems/peripherals.
- 35.3 If any computer systems/s gives continuous trouble, say six times in one month during the warranty period, the bidder shall replace the systems with new system without any additional cost to the purchaser.
- 35.4 Maintenance service
 - 35.4.1 Free maintenance services shall be provided by the Bidder during **the period of warranty for 5 years.**
 - 35.4.2 The maximum response time for maintenance complaint from any of the destinations specified in the Schedule of Requirements/Purchase order(s) (i.e. time required for bidders maintenance engineer to report at the installation after a request call/telegram is made or letter is written) shall not exceed 24 hrs.
- 35.5 During warranty period, if the complaint is not resolved with in 48 hrs the penalty of Rs. 300 per day for desktops and for other peripherals the penalty of Rs. 200 per day will be levied. However, if the complaints not resolved within 7 days then from 8th day to 14th day, penalty would be levied @ 150% and from 15th day onwards penalty @ 200% of the above rates would be levied. The amount of penalty will be recovered from the Performance bank guarantee during warranty period.
- 35.6 It is expected the average downtime of the item (system) will be less than half the maximum downtime. In case an item is not usable beyond the stipulated maximum downtime the bidder will be required to arrange for an immediate replacement of the same till its is repaired. Failure to arrange for the immediate repair/replacement will be liable for penalty of RS. 300 per day for desktops and Rs. 200 per day for other Peripherals. The amount of penalty will be recovered from the Performance bank guarantee during warranty period.
- 35.7 The Bidder/System Integrator will be required to co-ordinate with software vendor and/or do liaisoning with other service provider to achieve the end-to-end connectivity. This also includes OS configuration with respect to LAN/WAN technologies implementation.

36 **Payment:** Payment for Goods and Services shall be made by the Indenting Department in Indian Rupees as follows:

- 36.1 No advance payment will be made.
- 36.2 95% payment after successful inspection, Delivery and installation of the ordered goods. The inspection will be done as decided by GIL.
- 36.3 Remaining 5% payment will be made after completion of the users' operational training of the ordered goods to the purchaser's staff.

37 GIL reserves the right to change any bid condition of any item even after inviting the bids, with/without prior notification.

- 38 GIL's Right to accept any Bid and to reject any or all Bids - GIL reserve the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to awarding the Contracts, without thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for such decision.
- 39 The tendered quantities are estimated based on the receipt of the requirement from various Government offices. The quantities may decrease up to 50% of the bid quantity or increase up to 30% of the bid quantity at the time of finalization, depending upon the change in the requirements/grants available with the purchaser(s), which shall be binding to the bidder.
- 40 All correction/addition/deletion shall require authorized countersign.
- 41 Force Majeure Shall mean and be limited to the following:
- War / hostilities
 - Riot or Civil commotion
 - Earthquake, flood, tempest, lightening or other natural physical disaster.
 - Restrictions imposed by the Government or other statutory bodies which prevents or delays the execution of the order by the BIDDER.

The BIDDER shall advise GIL by a registered letter duly certified by the local statutory authorities, the beginning and end of the above causes of delay within seven (7) days of the occurrence and cessation of such Force Majeure Conditions. In the event of delay lasting over two months, if arising out of causes of Force Majeure, GIL reserves the right to cancel the order.

Completion period may be extended to circumstances relating to Force Majeure by the GIL. Bidder shall not claim any further extension for completion of work. GIL/GoG shall not be liable to pay extra costs under any conditions.

The BIDDER shall categorically specify the extent of Force Majeure conditions prevalent in their works at the time of submitting their bid and whether the same have been taken in to consideration or not in their quotations. In the event of any Force Majeure cause, the BIDDER shall not be liable for delays in performing their obligations under this order and the delivery dates can be extended to the BIDDER without being subject to price reduction for delayed delivered, as stated elsewhere.

It will be prerogative of GIL/GoG to take the decision on force major conditions and GIL/GoG decision will be binding to the bidder.

- 42 The Clarifications must be submitted in writing at GIL at least 10 days before the submission date. Thereafter the clarifications received from the bidders will not be entertained.
- 43 The bidder has to paste non-removable sticker on Desktops, Monitors, Printers, UPS and other peripherals etc. with details of bidder's name, address, contact detail, service centre/ help line number and warranty expiry date. Further bidder has to paste SSA Logo on all the supplied hardware in consultation with SSAM.
- 44 All equipments are required to be supply, install and maintain at locations at 239 Block Resource centers, 3337 Cluster Resource centers and 5774 schools within the state of Gujarat. The Distribution list of equipments are as mentioned below.

Sr No	Name of Center	Item	No.s	No.s of Centers	Total Qty.
1	Block Resource centers	PC	2	239	478
		A4 size Mono Laser Printer-2	1		239
		600 VA Line Interactive UPS	2		478
		Computer Table (without castor wheel)	2		478
		Plastic Moulded Chair with arm rest	2		478



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		Necessary LAN Cabling in the room for computer lab :			
		8 Port Unmanageable Switch with necessary Cat 6 UTP cabling & I/O		-	
		Necessary Electrification in the room for computer lab		-	
2	Cluster Resource centers	PC	1	3337	3337
		A4 size Mono Laser Printer-2	1		3337
		600 VA Line Interactive UPS	1		3337
		School Management Software	1		3337
3	schools	PC	1	5774	5774
		A4 size Mono Laser Printer-1	1		5774
		600 VA Line Interactive UPS	1		5774
		Computer Table (without castor wheel)	1		5774
		Plastic Moulded Chair without arm rest	1		5774
		School Management Software	1		5774
		Necessary Electrification in the room for computer lab			-

Note:
The quantity mentioned above is indicative. It may get change depending on the requirement of the indenting department.

- 45 The indicative district wise list of 239 Block Resource Centers, 3337 Cluster Resource centers and 5774 schools are given in Annexure. The no. of centers/schools is indicative. It may get change depend upon the purchaser's requirement.
- 46 Currently all the 3337 CRCs are having Zenith make computer, Epson make printer & Xsis make UPS & it has been purchased in 2006-07 & are out of warranty. Bidder is required to collect those old desktops, printers & UPS on as is where is basis & install new systems & GCEE, SSAM will suitably deduct the amount which has been buy-back.

The bid should be submitted on the website <https://gil.nprocure.com> on or before 1700 Hours, 13.01.2014 :

Please address all queries and correspondence to

Shri Vivek Upadhyay, DGM (Tech), Gujarat Informatics Limited
Block-1, 8th Floor, Udhog Bhavan,
Gandhinagar - 382010
Fax: (079)23238925

Fax/email should be followed by the post confirmation copy.

Scope of Work (School Management Software)

- ✓ SI will have to Pre load School Management software at factory site before delivery at 3337 CRC & 5774 schools as per requirement mentioned below.
- ✓ SI should either design & develop OR procure commercially available Software having following features & supply along with desktops.
- ✓ SSA will provide the information and requirements of utilities under software for development of School Management Software.
- ✓ The software should not require any other software other then the operating system to run the said content.
- ✓ SI needs to provide CD/DVD media, user manual etc. at each CRC/school.

Features of School Management Software: -

- a. System Administration and Management
 - b. Records and Profiles Management
 - c. Timetable Generation and Updates
 - d. Attendance Management
 - e. Exam Management
 - f. Grades Management
 - g. Library Management
 - h. Online Content Management
 - i. Homework Management
 - j. Student records and learning outcomes Management linked with Aadhar Enabled DISE and Continuous Comprehensive Evaluation
 - k. Grant receipts and utilizations Management linked with Financial Accounting System
 - l. School Management Software must be functional on Open Source Platform and all other Platform.
 - m. School Management Software must be developed with concept of anywhere availability- Internet or Intranet with Automatic Synchronization.
- ✓ During technical evaluation, SI has to provide the software for testing the features. Purchasing Department/their designated domain expert will critically test the same



SECTION I

Bid Processing Fees & Earnest Money Deposit Details

Sr. No.	Item	Amount (In Rs.)	Name of the Bank & Branch	Demand Draft No.
1	Bid Processing Fees			
2	Earnest Money Deposit (E.M.D.)			

ELIGIBILITY CRITERIA

Form no. E1 Financial strength of the bidder

Financial Year	Turnover (Rs. In Crores)	Audited Accounts uploaded? (Yes/No)

Note: Please fill this form and upload the audited Annual Accounts for the last three financial years.

Form no. E2 Office in GUJARAT

Sr. No.	Address	Contact Person	Contact nos.	Type of supporting document attached
1				
2				

Note: You may mention more than one office (if applicable) by adding multiple rows which may be added by "NUMBER OF ROWS TO ADD".

Form no. E3 Service Centers Detail

Sr. No.	Address	Contact Person	Contact nos.	Type of supporting document attached
1				
2				
3				

Note: You have to mention minimum 3 authorized service centers as per eligibility criterion. If you like to add more service centers (if applicable) by adding multiple form which may be added by "NUMBER OF ROWS TO ADD".

Form No. E4 Experience Details (Customer References)

Sr. No.	Name of the Organization	Contact Person	Contact telephone no. & Address	Date/Period of implementation	No. of sites/No. of Installations	LAN of	Type of Supporting Document attached



Note: Please fill this form and upload the supporting documents for each customer reference in scanned format. Failing the same may lead to the rejection of the bid. You may add the customer references by adding multiple rows which may be added by "NUMBER OF ROWS TO ADD".

Form no. E5 Authorization Letters

Item	Make & Model	Name of OEM	Authorization letter attached? (Yes/No)
PC			

Form No. E6 Participation of MNC through Local partner

Name of Local Partner	Is it Authorized Service Provider of MNC? (Yes/No)	Type of supporting document uploaded

Note: If not applicable write "N.A." in respective columns.

Form no. E7 ISO 9001:2008 certification for Manufacturing

Item	Make & Model	Name of OEM	ISO certification valid up to	ISO certification uploaded? (Yes/No)
PC				
A4 size Mono Laser Printer-1				
A4 size Mono Laser Printer-2				
600 VA Line Interactive UPS				
8 Port Unmanageable Switch				
Single Cat-6 I/O with surface mount box				
Cat 6 Cable				

Note: You may quote only one option against any item.

SECTION II

Make & Model List

Item	Make & Model	Supporting Document attached? (Yes/No)
PC		
Internal DVD Writer		
18.5" or higher wide screen LED Backlit based TFT Monitor		
A4 size Mono Laser Printer-1		
A4 size Mono Laser Printer-2		
600 VA Line Interactive UPS		
Plastic Moulded Chair without arm rest		
Plastic Moulded Chair with arm rest		
Computer Table (without castor wheel)		
Network cabling		
8 Port Unmanageable Switch		
Single Cat-6 I/O with surface mount box		
Cat 6 Cable		
Electrification		
Switches/ Plugs/ Sockets:		
Cables/ Wires (FRLSH):		

Note: You may quote only one option against any item.

Form no. T2 (TECHNICAL MINIMUM SPECIFICATIONS)

PC					
Sr. No.	Item		Qty.	Matched/ Not Matched	Deviation/ Remarks (If any)
1	Form Factor	Tower Cabinet	9589		
	CPU	Intel® Core™ i3-3220 Processor (3M Cache, 3.30 GHz) or higher / AMD A8 5500 (3.2Ghz, 4MB L2 Cache, 4 Cores, 65W) or higher			
	Motherboard	For Intel (Intel H61 chipset or better)/ For AMD (AMD A 55 Chipset or higher)			
	Bus Architecture	Integrated onboard graphics, Total 3 no.s of slots with minimum one PCI and rest PCIe, Integrated Audio			
	Memory	2 GB DDR3 RAM @ 1066 MHz with 1 DIMM slot free. (Single Module Should be supplied)			
	Hard disk	320 GB SATA II hard disk with 7200 rpm & Pre Failure alert			
	Keyboard	USB or Ps/2 104 Keys keyboard			
	Mouse	USB or PS/2 Two button scroll optical mouse with pad			
	Ports	1 Serial, 1 Parallel, 6 USB 2.0 (min. 2 at front), VGA, Microphone, Headphone			
	Networking features	10/100/1000 Mbps Network (Embedded / Slot based)			
	Optical Drive	8x or better Internal DVD Writer			
	18.5" or higher wide screen LED Backlit based TFT Monitor	18.5" or higher wide screen LED Backlit based TFTs, Contrast Ratio – 1000:1 or better, Response Time 5 ms or better, Resolution – 1360 X 768 or better, TCO Displays 5.0 certified or better; Monitor should be of same make of offered PC Brand			
	O.S.	Latest GNU GPL licensed Operating System(Ubuntu 11.10 or equivalent) However GIL/ SSAM, Education Department reserves the right to place the order for anyone of the Linux Pre-loaded OS depending upon the SSAM, education department' choice. The successful bidder should agree to supply whichever the Linux OS ordered by SSAM, education department.			
Data Recovery Software	Pre loaded software tool that has provision for scheduled backup for restoring OS & data. Should have capability to take backup to external media. (Please specify name of Data Recovery Software)				

	Anti Virus	The removal of Virus/ Malware/ Trojan/ Worm would be the responsibility of the successful bidder during the contract period.			
	Certifications	For PC: RoHS ,UL ,CE/FCC or equivalent third party certification from reputed Indian Agency, Linux certification			
	Application Software	Open Source Office with Gujarati fonts in consultation with GIL/ SSAM, Education Department.			
	Dust Cover	Dust Cover for CPU, Monitor, Keyboard, Mouse			

Note: Bidders are required to submit all certifications of desktop & Monitor as mentioned above at the time of submission of the bid only. If any certification will be found under process then those bidders will not be considered.

A4 size Mono Laser Printer-1

2	A4 Size Mono Laser Printer – 1	A4 size Laser printer – Print Speed: 17 ppm, Print Resolution: 600 x 600 dpi optical Resolution; Processor: Minimum 250 MHz Printer Processor OR System processor Utilization; Memory: 2 MB RAM; Interface: Hi-Speed USB 2.0 compatible.	5774		
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A4 size Mono Laser Printer-2

3	A4 Size Mono Laser Printer -2	A4 size Laser printer--24 ppm, 600 X 600 dpi Resolution, Minimum 350 MHZ Printer Processor or System Processor Utilization, Minimum 32 MB RAM, PCL 5E/Post script support OR equivalent, Automatic Duplex printing, High Speed USB 2.0 and inbuilt Network connectivity	3576		
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Note:

1	For printers, please upload the OEM undertaking for the clarity on what parts will be covered under the warranty and what parts are excluded.
2	Please upload the OEM under taking letter which clarify that cartridges to be supplied with the printer is starter or full.
3	For printers OEM letter is required with Sr. Nos. of Goods/Items supplied certifying back to back warranty as per the tender terms & conditions.

600 VA Line Interactive UPS (with 15 minutes Battery backup)

4	600 VA Line Interactive UPS with 15 minutes Battery Back Up		9589		
	General	Single Phase Input & Single Phase Output			
		Line Interactive UPS with AVR & PWM Technology for computers suitable for single Phase AC input voltage			

		UPS shall be housed in rugged enclosure made of M.S. Sheet 1.2 mm (minimum) thick, aesthetically finished, duly pre-treated and powder coated or ABS body.		
		UPS shall be free from workmanship defects, sharp edges, nicks, scratches, burs etc. All fasteners shall be fixed properly. The equipment shall be complete with all parts and all parts shall be functional		
	Switching Device	Switching Device shall be MOSFET or IGBT		
		Switching frequency shall be above 50 Hz		
	Transfer time	Switching over time from AC mains to UPS mode on power failure shall be Max. 10 milliseconds		
	Input	160 V – 280 V, 50 Hz +/- 3 Hz , single phase AC		
	Output			
	AC Mode	AVR Output voltage in AC mode; 180-255 V ; 50 Hz +/- 3 Hz		
	Battery Mode	UPS Output voltage in battery mode; 230 V +/- 10%, 50 Hz +/- 3 Hz load power factor of not less than 0.6 lagging		
	Overload	UPS shall withstand 5% overload		
	Protections	If input voltage goes outside the range 160V-280V, the system shall switch over to UPS mode		
		Over Voltage, short circuit and overload at UPS output terminal, no load shut down. Cold start		
		Under voltage at battery terminal, Battery over charge		
	Indicators and meters	Mains presence, UPS mode, Battery low, overload		
	Battery details			
	Battery Type	Sealed Maintenance Free (VRLA) Built-in		
	Battery make	Exide/Quanta/CSB/Panasonic /Yuasa(Battery Sr. No on OEM Letter Head with Warranty Assurance of 1 years)		
	Minimum Battery AH	600 VA UPS – 84 VAH – 15 minutes Battery Back Up		

Plastic Moulded Chair without arm rest					
5	Plastic Moulded Chair without arm rest	<p>Plastic Moulded Chairs without armrest</p> <p>Make: Supreme Model: Dove (Manufacturer: The Supreme Industries Ltd) Or Make: Nilkamal Model: CHR 4002 (Manufacturer :Nilkamal Plastics Ltd) Or Make: Moderna Model: CH 70 (Manufacturer: VIP Industries Ltd.) Or Make: Prima Model : CHR 4005 (Manufacturer: Prima Plastics Ltd) Or Make: CELLO Model : Sleek (Manufacturer: Wim Plast Ltd) Or Make: National Model: Alto (Manufacturer: National Plastic Industries Ltd.)</p> <p>from above mentioned brands</p>	5774		
Plastic Moulded Chair with arm rest					
6	Plastic Moulded Chair with arm rest	<p>Plastic Moulded Chairs</p> <p>Make: Supreme Model: Opra/IKON Manufacturer: The Supreme Ind. Ltd or Make: Nilkamal Model: CHR 2048 /CHR 2060 Manufacturer :Nilkamal Plastics Ltd Or Make: Moderna Model: CH 54/CH 61 Manufacturer: VIP Industries Ltd. Or Make: Prima Model : CHR 2008/CHR 2015 Manufacturer: Prima Plastics Ltd or Make: CELLO Model : Cello Admire , Cello Unique Manufacturer: Wimplast Ltd)</p>	478		

		With Armrest & from above mentioned brands			
Computer Table (without castor wheel)					
7	Computer Table (without castor wheel)	<p>Table for Computers</p> <p>Make: Godrej Model: Companion C 10 (600W *450D*750H mm) (Manufacturer: Godrej & Boyce Mfg. Co. Ltd) Or Make: Featherlite Model: PCD 118(B) (600w*480D*780H mm) (Manufacturer: Featherlite Products Pvt. Ltd.) Or Make: Moderna Model: Compacta 203 (600w*400D*750H mm) (Manufacturer: VIP Industries Ltd.) Or Make: Supreme Model: ST1000 (600W*450D*750H mm) (Manufacturer: The Supreme Industries Ltd) Or Make: Nilkamal Model: JAZZ (600W*450D*750H mm) (Manufacturer: Nilkamal Plastics Ltd) Or Make: National Model: Ritzy (600W*420D*750H mm) (Manufacturer: National Plastic Industries Ltd.)</p>	6252		
Note: The bidder will have to furnish the samples of table & chairs to be supplied on or before the bid submission date & time.					
Networking & Electrification					
8	Network cabling	Necessary LAN cabling in the room for computer lab : 8 port 10/100 Mbps Auto sense unmanageable Switch with necessary CAT-6 UTP cabling (Switch: HCL/DigiLink/DAX /Linksys/Belkin/HPNetworking/Cisco) (Cat-6 cable & I/O: HCL /DigiLink /DAX /Linksys/Belkin/ADC crone)	239		
9	Electrification	Necessary electrification in the room for computer lab. Bidder is required to carry out	6252		

		<p>electrification with following brand:</p> <p>1. Switches/ Plugs/ Sockets: Crabtree (Athena)/ Anchor (Roma)/ MK (Wrapround).</p> <p>2. Cables/ Wires (FRLSH): Havells/ Finolex /Lapp/RR Cable.</p>			
School Management Software					
10	<p>Features of School Management Software:</p> <ul style="list-style-type: none"> ✓ System Administration and Management ✓ Records and Profiles Management ✓ Timetable Generation and Updates ✓ Attendance Management ✓ Exam Management ✓ Grades Management ✓ Library Management ✓ Online Content Management ✓ Homework Management ✓ Student records and learning outcomes Management linked with Aadhar Enabled DISE and Continuous Comprehensive Evaluation ✓ Grant receipts and utilizations Management linked with Financial Accounting System ✓ School Management Software must be functional on Open Source Platform and all other Platform. ✓ School Management Software must be developed with concept of anywhere availability- Internet or Intranet with Automatic Synchronization. 	9111			

SECTION III

Form no. F1 - FINANCIAL BID FORMAT

Sr. No	ITEM	Qty. (In Nos.)	Unit Prices with 5 Year Warranty (In Rs. Without tax)	Total Price (In Rs. Without tax)	Rate of VAT / Service Tax (%)
A	B	C	D	E=C*D	F
1	PC	9589			
2	A4 size Mono Laser Printer-1	5774			
3	A4 size Mono Laser Printer-2	3576			
4	600 VA Line Interactive UPS	9589			
5	Plastic Moulded Chair without arm rest	5774			
6	Plastic Moulded Chair with arm rest	478			
7	Computer Table (without castor wheel)	6252			
8	8 Port Unmanageable Switch with required LAN cabling	239			
9	Electrification	6252			
10	School Management Software	9111			
TOTAL F1					



Form no. F2- Buyback Rates

Sr No	Item	Make	Qty	Unit rate in Rs.	Total Rate in Rs.
Cluster Resource Centers					
1	Desktops with Internal modem (Pentium IV 3.0 GHz with HT, 256MB DDR SDRAM, 80 GB HDD, 15" SVGA Colour Monitor)	Zenith	3337		
2	Dot matrix Printer (24 Pin, 132 Column, 300 CPS)	Epson	3337		
3	500 VA Offline UPS	Xsis	3337		
TOTAL F2					

GRAND TOTAL (F3) = {Total (F1) – Total (F2)} = _____

Note:

1. L1 will be the lowest sum total of rates of all line items without tax with 5 years warranty minus buyback rates.
2. Successful Vendor will have to supply/provide goods with an Invoice from a place located within State of Gujarat



GUJARAT INFORMATICS LIMITED
BLOCK NO.-1, 8TH FLOOR, UDYOG BHAVAN, SECTOR-11, GANDHINAGAR

Performa of Compliance letter/Authenticity of Information Provided

(On Non judicial Stamp paper of Rs.100 duly attested by the First class Magistrate/Notary Public)

Date:

To,
DGM (Tech)
Gujarat Informatics Ltd.
Block-1, 8th Floor,
Udhyog Bhavan, Gandhinagar.

Sub: Compliance with the tender terms and conditions, specifications and Eligibility Criteria

Ref: Tender no. HWT181213207

Dear Sir,

With reference to above referred tender, I, undersigned <<Name of Signatory>>, in the capacity of <<Designation of Signatory>>, is authorized to give the undertaking on behalf of <<Name of the bidder>>. We wish to inform you that we have read and understood the technical specification and total requirement of the above mentioned bid submitted by us on **13.01.2014** .

We hereby confirm that all our quoted items meet or exceed the requirement and are absolutely compliant with specifications mentioned in the bid document.

We also explicitly understand that all quoted items meet technical specification of the bid & that such technical specification overrides the brochures/standard literature if the same contradicts or is absent in brochures.

In case of breach of any tender terms and conditions or deviation from bid specification other than already specified as mentioned above, the decision of GIL Tender Committee for disqualification will be accepted by us.

The Information provided in our submitted bid is correct. In case any information provided by us are found to be false or incorrect, you have right to reject our bid at any stage including forfeiture of our EMD/ PBG/cancel the award of contract. In this event, GIL reserves the right to take legal action on us.

Thanking you,

Dated this _____ day of _____ 2014

Signature: _____
(in the Capacity of) : _____
Duly authorized to sign bid for and on behalf of

Note: This form should be signed by authorized signatory of bidder



GUJARAT INFORMATICS LIMITED
BLOCK NO.-1, 8TH FLOOR, UDYOG BHAVAN, SECTOR-11, GANDHINAGAR

PERFORMA OF UNDERTAKING

Undertaking of Authenticity for Computer Equipment Supplies

This has reference to Desktops being supplied/quoted to you vide your tender enquiry no. _____ dated _____

We hereby undertake that all the components/parts/assembly/software used in the Desktops under the above like Hard disk, Monitors, Memory, motherboard etc. shall be original new Components /parts/assembly/software from respective OEMs of the products and that no refurbished/duplicate/ second hand components/parts/ assembly / software are being used or shall be used.

In respect of licensed operating system, we undertake that the same shall be supplied along with the authorized license certificate with our name/logo (e.g. Product Keys on Certification of Authenticity in case of Microsoft Windows Operating System). Also, that it shall be sourced from the authorized source for use in India (e.g. Authorized Microsoft Channel in case of Microsoft Operating System).

Should you require, we shall produce certificate from our OEM supplier in support of above undertaking at the time of delivery. It will be our responsibility to produce such letters from our OEM supplier's within a reasonable time.

In case we are found not complying with above at the time of delivery or during installation, for the Desktops already billed, we agree to take back the equipment already supplied at our cost and return any amount paid to us by you in this regard and that you will have the right to forfeit our EMD / BG for this tender.

Authorized Signatory

Name:

Designation:

Note:

- (i) The signing Authority should be no lower than Company Secretary of the OEM of Desktop.
- (ii) The bidders are required to upload this undertaking from the OEMs of the Desktops for the quoted options.



GUJARAT INFORMATICS LIMITED
BLOCK NO.-1, 8TH FLOOR, UDYOG BHAVAN, SECTOR-11, GANDHINAGAR

**Proforma of Contract-cum-Equipment
Performance Bank Guarantee**
(To be stamped in accordance with Stamp Act)

Ref:

Bank Guarantee No.

Date:

To

Name & Address of the Purchaser/Indenter

Dear Sir,

In consideration of Name & Address of the Purchaser/Indenter, Government of Gujarat, Gandhinagar (hereinafter referred to as the OWNER/PURCHASER which expression shall unless repugnant to the context or meaning thereof include successors, administrators and assigns) having awarded to M/s. _____ having Principal Office at _____ (hereinafter referred to as the "SELLER" which expression shall unless repugnant to the context or meaning thereof include their respective successors, administrators, executors and assigns) the supply of _____ by issue of Purchase Order No. Dated issued by Gujarat Informatics Ltd. ,Gandhinagar for and on behalf of the OWNER/PURCHASER and the same having been accepted by the SELLER resulting into CONTRACT for supplies of materials/equipments as mentioned in the said purchase order and the SELLER having agreed to provide a Contract Performance and Warranty Guarantee for faithful performance of the aforementioned contract and warranty quality to the OWNER/PURCHASER, _____ having Head Office at (hereinafter referred to as the 'Bank' which expressly shall, unless repugnant to the context or meaning thereof include successors, administrators, executors and assigns) do hereby guarantee to undertake to pay the sum of Rs. _____ (Rupees _____) to the OWNER/PURCHASER on demand at any time up to _____ without a reference to the SELLER. Any such demand made by the OWNER/PURCHASER on the Bank shall be conclusive and binding notwithstanding any difference between Tribunals, Arbitrator or any other authority.

The Bank undertakes not to revoke this guarantee during its currency without previous consent of the OWNER/PURCHASER and further agrees that the guarantee herein contained shall continue to be enforceable till the OWNER/PURCHASER discharges this guarantee. OWNER/PURCHASER shall have the fullest liberty without affecting in any way the liability of the Bank under this guarantee from time to time to extend the time for performance by the SELLER of the aforementioned CONTRACT. The OWNER/ PURCHASER shall have the fullest liberty, without affecting this guarantee, to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the SELLER, and to exercise the same at any time in any manner, and either to enforce to forebear to enforce any covenants contained or implied, in the aforementioned CONTRACT between the OWNER/PURCHASER and the SELLER or any other course of or remedy or security available to the OWNER/PURCHASER.

The Bank shall not be released of its obligations under these presents by any exercise by the OWNER/PURCHAER of its liability with reference to the matters aforesaid or any of them or by reason or any other acts of omission or commission on the part of the OWNER/PURCHASER or any other indulgence shown by the OWNER/PURCHASER or by any other matter or things.

The Bank also agree that the OWNER/PUCHASER at its option shall be entitled to enforce this Guarantee against the Bank as a Principal Debtor, in the first instance without proceeding against the SELLER and not withstanding any security or other guarantee that the OWNER/PURCHASER may have in relation to the SELLER's liabilities.

Notwithstanding anything contained herein above our liability under this Guarantee is restricted to Rs. _____ (Rupees _____) and it shall remain in force up to and including _____ and shall be extended from time to time for such period as may be desired by the SELLER on whose behalf this guarantee has been given.

Dated at _____ on this _____ day of _____ 2014.



GUJARAT INFORMATICS LIMITED
BLOCK NO.-1, 8TH FLOOR, UDYOG BHAVAN, SECTOR-11, GANDHINAGAR

Signed and delivered by

For & on Behalf of

Name of the Bank & Branch &
Its official Address

List of approved Banks

All Nationalized Bank including the public sector bank or Private Sector Bank or Commercial Bank or Regional Rural Banks of Gujarat or Co-Operative Bank of Gujarat (operating in India having branch at Ahmedabad/ Gandhinagar) as per the [G.R. no. EMD/10/2013/107/DMO Dated 06.04.2013 issued by Finance Department](#).



GUJARAT INFORMATICS LIMITED
BLOCK NO.-1, 8TH FLOOR, UDYOG BHAVAN, SECTOR-11, GANDHINAGAR

CONTRACT FORM

THIS AGREEMENT made on the _____ day of _____, 2014 Between _____ (*Name of purchaser*) of _____ (*Country of Purchaser*) hereinafter "the Purchaser" of the one part and _____ (*Name of Supplier*) of _____ (*City and Country of Supplier*) hereinafter called "the Supplier" of the other part :

WHEREAS the Purchaser is desirous that certain Goods and ancillary services viz., _____ (*Brief Description of Goods and Services*) and has accepted a bid by the Supplier for the supply of those goods and services in the sum of _____ (*Contract Price in Words and Figures*) hereinafter called "the Contract Price in Words and Figures" hereinafter called "the Contract Price."

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

- 1 In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
- 2 The following documents shall be deemed to form and be read and construed as part of this Agreement, viz. :
 - 2.1 the Bid Form and the Price Schedule submitted by the Bidder;
 - 2.2 terms and conditions of the bid
 - 2.3 the Purchaser's Notification of Award
- 3 In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the goods and services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
- 4 The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
- 5 Particulars of the goods and services which shall be supplied / provided by the Supplier are as enlisted in the enclosed annexure :

TOTAL VALUE:

DELIVERY SCHEDULE:

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

Signed, Sealed and Delivered by the

Said _____ (For the Purchaser)

in the presence of _____

Signed, Sealed and Delivered by the

said _____ (For the Supplier)

in the presence of _____

The details of the modalities and charges for Quality testing at EQDC

- The verification of the computer hardware will be carried out by GIL at Ahmedabad/Gandhinagar. The proper inspection facility has to be provided by the supplier(s) at their cost.
- The quality testing of Servers, PCs, Printers and UPS will be carried out by EQDC-Gandhinagar. The charges mentioned below for the same are to be paid directly to EQDC by the supplier(s).
- GIL/EQDC will select the samples from the entire ordered lot at Ahmedabad/Gandhinagar. The sampling plan proposed is based on the tender quantities as under:

Sr. No	Item Category	Qty. (In Nos.)	Per Unit testing charge (In Rs.) (W/o Service tax)	Total Inspection Charge (In Rs.) (W/o Service tax)
1	PC	5	212,565	10,62,825
2	Printer	5	48,840	2,44,200
3	UPS	5	29,640	1,48,200
GRAND TOTAL				14,55,225

- In case, the ordered quantity varies from the tendered quantity, then the final sampling plan will be decided by GIL.
- Service Tax plus Education Cess as applicable will be levied extra.
- In case of rejection of the sample(s), the entire lot of that item may be rejected and the equal nos. of sampling will be again taken from the new produced lot. The extra cost for the same has to be bourn by the supplier.

Tests for Computer Hardware

(i) Personal Computer / Server (includes CPU, Video Monitor, Keyboard, FDD/HDD, SMPS)

Tests
Inspection of Safety Requirements
Earth Leakage Current
Dielectric Strength
Ionizing (X-ray) radiation
Conducted Susceptibility Tests
Electrostatic Discharge Test
Electrical fast Transient/Burst Test
Surge/Spike Test
Inspection of Performance Requirements
Visual Examination
Functional Performance
Effect Of Power Interruptions
Effect Of Power Supply Variations
VHF/UHF Output
Key Travel
Keyboard Controller
Actuating Force
Video Monitor Performance Test Suite
Resolution
Geometric distortion
Ripple distortion due to mains
Non-linearity due to scanning
Convergence error
Brightness
Effect of brightness variation on EFT
Humbar
FDD/HDD Performance Test Suite
Capacity
Recording density
Track density
Tracks/side
Recording Method
Rotational Speed
Average Latency time
Access time (max)

Tests
Time taken from 'Power On" to "Ready"
Rate of data transfer
Error Rate
Audible Noise
SMPS Performance Test Suite
Power Output
Output Voltage
Load Regulation
Efficiency
Periodic and Random Deviation (PARD)
Dynamic load regulation
Cross-Regulation
Over-load protection
In-rush Current
Hold-up Time
Power-Good Signal
Verification of Marking Requirements
Verification of Interface Requirements

(ii) **Printers/ Plotters**

Tests
Inspection of Safety Requirements
Earth Leakage Current
Dielectric Strength
Conducted Susceptibility Tests
Electrostatic Discharge Test
Electrical fast Transient/Burst Test
Surge/Spike Test
Inspection of Performance Requirements
Visual Examination
Effect Of Power Interruptions
Mechanical (Paper Handling) and Software Requirements
Verification of Marking Requirements
Verification of Interface Requirements

(iii) **UPS**

Tests
Visual Examination

UPS Performance Test Suite
(a) Electrical Tests
UPS Input Test
Steady State Input Voltage Tolerance Test
Input Frequency Tolerance Test
Inrush Current Test
UPS Output Characteristics Test
Output-Normal Mode-No Load
Output-Normal Mode-Full Load
Output-Stored Energy Mode-No Load
Output-Stored Energy Mode-Full Load
Output-Normal Mode-Overload
(b) UPS Output Dynamic Characteristics Tests
Change of operating mode-Normal to stored energy mode
Change of operating mode-stored energy to Normal mode
Change of operating mode-Normal to Bypass mode (where applicable)
(c) Stored and restored energy time tests
Stored energy time test
R-stored energy time test
(d) Efficiency and input power factor
(e) High Voltage Test