

**KAKINADA SMART CITY CORPORATION LIMITED**

**RFP NO. KSCCL/Smart Classes/2017 Dated : 14-03-2017**

**Name of Work:Supply, Delivery, Installation, Commissioning of Virtual Class Rooms, Digital Class Rooms and Computer Lab in all Municipal high schools, UP school and Primary schools in ABD area and studio at command control centre in Kakinada city including Operation and Maintenance up to 5 years.**

**Pre-bid meeting was held on and at : 22-03-2017 at 11.00 Hrs at the meeting hall in O/o Municipal Corporation, Kakinada**

Sri S.Aleem Basha, Managing  
 Sri C.Vijaya Kumar, Superintendent  
 Sri M.V. Suryanarayana, Executive  
 Sri Sujay Arun (CEO - KSCCL)  
 Sri M.V.Raja Rao (Manager  
 Sri P Satyanarayana (Team  
 Sri B.V.Sitaram, PMC, Eptisa  
 Miss Ch Archana, PMC Eptisa

**Following companies participated.**

- 1.Khalid- Global Powers Solution
- 2.V.Jagan mohan rao- Emerson
3. T.Vijaya Kumar - Terasoftware
4. K.Raghuram- Fervid Media
5. M.Satya prasad- Vajranng Infra
6. N.Raju prasad- Nandhi solutions
7. Sunny- Almoe Digital solution Pvt
8. Suner- Sunitha Infovision ltd
9. K.S.Srinivas- Laser Computers
10. Prashant - EPSON Pvt Ltd
11. M.Suman- Microcare computer

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1	Key dates	3		Last date for submission of Bids- Electronically : 04-April-2017, 17:00 Hrs	Please extend the date of tender submission to 19-April-2017, 17:00 Hrs	As this project includes multiple components and needs site visits as well, we need minimum 3 weeks time to propose the techno-commercials.	Request considered	Refer corrigendum

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2		10	3.2.1	<b>Financial Eligibility</b> 3.2.1 The bidder should have an average of three years annual turnover of Rs. 10.0 Crores in below mentioned three financial years.	Please increase annual turnover to Rs. 20 Crores for last three financial years.		No change in original clause.	
3		10	3.2.1	Financial Eligibility	Lead or JV Partner should have valid Certification of ISO 9001:2015 as on bid submission date.	This is for Quality Management System	No change in original clause.	
4		10	3,3.1	<b>Eligibility Criteria:</b> The bidder/ s should be registered under Contract Labour Act 1970. The scanned copy of latest license from Labour Commissioner to employ contract labour under Contract Labour Act may be submitted	We request the department to revise the clause as "The bidder/ s should be registered under Contract Labour Act 1970. Or the bidder can take the registration under contract labour act 1970 within 3 months after shortlisted in this tender. The scanned copy of latest license from Labour Commissioner to employ contract labour under Contract Labour Act may be submitted."		Request considered	Refer corrigendum
5		11	Clause 3.3, Section 3.3.1 and 3.3.3	<b>Technical Eligibility:</b> The bidder should have executed a minimum of 50 Virtual class rooms in last 5 years The Bidder should have executed a minimum of 1 Studios for virtual classroom in last 5 years	We would request the department to kindly consider the experience of JV Companies. We IL&FS Education being the largest IT/ICT operator in the country and having had implemented similar projects in more than 30,000 schools by way of setting up of computer labs and smart classrooms. Since JV is of 2 companies is permitted in this tender we shall partner with virtual classroom service provider to undertake this esteemed project by the department. Hence we request to consider the experience of JV Companies.		This clause is clear. The sole bidder or JV consortium shall satisfy the total requirement of the Technical eligibility.	

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6		20	Clause 19.4.2, section 19.4.2.9	A completion certificate from the client agency certifying the successful completion of the similar work done by the bidder may be uploaded along-with the tender documents.	We request the department to kindly revise the clause as the project of similar nature are for 5 years duration and may not be possible to provide the client certificate of successful completion of work. The revised clause may be read as "A completion certificate from the client agency certifying the successful completion /implementation completion of the similar work done by the bidder may be uploaded alongwith the tender documents."		This clause can be read with the foot note of Annexure IIIC in Page 87 of the RFP.	
7		21	Clause 19.4.2, section 19.4.2.14	The scanned copy of latest license from Labour Commissioner to employ contract labour under Contract Labour Act may be submitted	We request the department to revise the clause as "The scanned copy of latest license from Labour Commissioner to employ contract labour under Contract Labour Act may be submitted. Or provide the undertaking that the bidder will take the registration under contract labour act 1970 within 3 months after shortlisted in this tender		Clarified earlier.	
8		22	Clause 19.4.2, section 19.4.2.20	The bidder has to submit a Commitment letter for the support from the Principal Manufacturer/OEM as per format given in Annexure III (F)	The language of the commitment letter is not applicable to OEM as the onsite warranty service support is the responsibility of implementing agency. We kindly request you to remove the annexure III(F).		<b>No change in original clause.</b>	
9		24	3.2.1	Financial Eligibility	Lead or JV Partner should have valid Certification of ISO 20000 as on bid submission date.	This is for IT service management system.	No change in original clause.	

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10		24	3.2.1	Financial Eligibility	Lead or JV Partner should have valid Certification of ISO 27000 as on bid submission date.	This is for information security management system (ISMS). It is about maintaining CIA ( confidentiality, integrity and availability of data) by incorporating requisite physical security/ IT security and data security policies and practices that ensures all our customers that their data with us will be safe and secure	No change in original clause.	
11		24	3.2.1	Financial Eligibility	Lead or JV Partner should have valid Certification of ISO 14000 as on bid submission date.	This is for environmental management systems and the environmental aspects of products.	No change in original clause.	
12	Section III	26	1	The project requirements include supply, installation & commissioning of Hardware, uploading/maintenance and upgradation of Educational Digital contents,	Please clarify the content part whether is applicable in the scope of bidder or not		Content from Govt of AP if any shall be used. If content is not readily available then the bidder shall give the content and quote separate price in the bid. However this component of price will not be considered in the final evaluation of the bid.	Refer corrigendum

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13		27	2.2	<p><b>Digital Classrooms For Primary Schools (DC)</b></p> <p>1) Bidder is to provide every classroom with e-classroom Interactive Whiteboard as per the list of schools and classrooms.</p> <p>2) to provide e-Classroom short Projector as per the specifications given in each of the class in all schools as per the list.</p> <p>3) to provide Ceiling kit for Projector in each of the class at all schools..</p> <p>4) to provide Smart Digital cabinet as per the specifications.</p> <p>5) Smart station computer as per the specifications in each class at all Primary schools.</p> <p>6) Green Board as per the specifications in each class at all schools.</p>	<p>Please replace Interactive Display Boards and e-Classroom Short Projector with one Standard Wi-Fi projector and one 10-inch tablet device for teacher in each classroom.</p> <p>Recommended Teacher Device Tablet configuration :-  10" Display / Quad core Processor / DDR3L 2GB Memory / 16GB eMMC / Capacitive, Multitouch, LED backlit / IEEE 802.11 b/g/n + Bluetooth v4.0 / 32 GB internal storage with external expansion to 128 GB via SD card / Camera: Front 2M or above + Rear 5M or above / OS: Windows 10 / EPEAT: Silver</p>	<p>Teacher can do interactive teaching from the Tablet Device by doing annotation from the Touchscreen Enabled Tablet, which will be projected on the screen using the standard Wi-Fi projector through Wi-Fi network.</p> <p>Advantage : Teacher need not be restricted near the screen or his table. Rather teacher can roam around in the classroom, monitor the students and annotate on the screen at the same time, using one Touchscreen Enabled Tablet and one standard Wi-Fi projector per classroom. This is a much cost effective solution</p>	<b>No change in original clause.</b>	
14		27 - 28	2.2	<p><b>General :</b>  2.2 Digital Classrooms For Primary Schools (DC):  Not asked in the tender</p>	What about the Disaster Recovery System?		Not included in the scope.	
15		27 - 28	2.2	<p><b>General :</b>  2.2 Digital Classrooms For Primary Schools (DC):  Not asked in the tender</p>	Are the proposed system going to implement the cluster environment?		Not included in the scope.	
16		27 - 28	2.2	<p><b>General:</b>  2.2 Digital Classrooms For Primary Schools (DC):  Not asked in the tender</p>	Will Audio/Video interaction happen at all the end (Studio / Lab / Digital Classroom)?		Not included in the scope.	

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17		27 - 28	2.2	<b>General:</b> 2.2 Digital Classrooms For Primary Schools (DC): Not asked in the tender	In the proposed system, not mentioned about the streaming / capture card specification. Please clarify.		The bidder has to record the session and replay as and when required	
18		31	2.3.8	Formats of the content have to be free to use and widely available.	Please clarify who will provide the content		Clarification given above.	
19		31	Table A- Training requirements for the adoption of smart education	<b>2.3 Virtual Classroom and Digital Classroom for Upper Primary and High Schools(VC+DC):</b> Training requirements for the adoption of smart education	Please give details on the training that needs to be imparted. Location/who will provide the facility/infra for training. Number of users to be trained. Number of sessions to be held. Duration of the training.		Computer lab at each school to be used. Training to be provided by Technical resource personnel deployed by successful bidder. Training to be planned as per specific requirements.	
20	Table A - Point 1	32	2.3.7	Training for all the courses (as specified in Annexure II C) to the teachers in each school needs to be provided by the bidder. Teachers who will undertake the training will be selected by the principal of the respective school	Annexure II C is missing which was supposed to contain the training courses to the teachers.		Annexure II C Added.	Refer corrigendum
21	Table A - Point 2	32	2.3.7	Post the installations of the hardware and software required for the smart classroom, at-least 7 days of initial intensive training should be conducted by the bidder covering all schools to ensure maximum adoption of the smart classroom in each school	Can training be plan at one common school or all 28 school separately		No change in original clause. Training shall be given at each school.	

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22		32	Clause 2.3, section 2.3.9 (Table B)	Learning analytics for each classroom	We suggest the department that the requirement for learning analytics for each classroom is feasible only when there is a required infrastructure hardware in the classroom viz. each student should have a hand held device with individual student login may it be a tablet wherein they can access the content, questionnaire etc. and current RFP doesn't have required hardware specification. Kindly request the department to suggest on the RFP requirement of Learning Analytics		NO change in original clause.	
23		33	2.4	<b>Installation of Computer Lab:</b> Each Computer lab : 30 Desktop computers as per technical specifications enclosed.	Please replace desktops with laptops in the computer lab. Detailed laptop config mentioned below.	Laptops are easy to manage and service, saves space and cost effective as compared to desktops. Will enable easy power backup system (inbuilt laptop battery) and requires lesser UPS capacity, making lesser project cost.	No Change in Original Clause	
24		33	2.4	<b>Installation of Computer Lab:</b> Adequate LED lights in the Computer lab.	Please suggest lighting details and how many lights and required		Bidder has to provide sufficient lighting in the computer lab depending upon the area, alignment and work shall be executed after approval of layout by KSCCL.	

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25		33	2.4	<b>Installation of Computer Lab:</b> UPS with Power back up of 1 Hour to cater to 30 computers with Full scale.		UPS with Power back up of 1 Hour to cater to 30 desktops with Full scale will be costlier as compared with UPS with Power back up of 1 Hour to cater 30 laptops.	No change in original clause.	
26		33	2.4	<b>Installation of Computer Lab:</b> PoP False Ceiling to the computer lab.	Please confirm on classroom size		Sufficient size shall be provided by KSCCL to accomodate 30 computers. Final layout shall get approved by KSCCL before grounding the work.	
27		33	2.4	<b>General:</b> 2.4 Installation of Computer Lab: Not asked in the tender	As per Government notifictaion All UPS Upto 5 Kva must be BIS approved.		All equipment shall confine to BIS Norms.	
28		33	2.4	<b>General:</b> 2.4 Installation of Computer Lab: Not asked in the tender	UPS OEM Turnover to be more than 50 cr in last 3 year with increasing turnover every year Certificate from CA is required		No change in original clause.	
29		33	2.4	<b>General :</b> 2.4 Installation of Computer Lab: Not asked in the tender	CE certificate from indian agencies of Model quoted		No change in original clause.	
30		33	2.4	<b>General:</b> 2.4 Installation of Computer Lab:Not asked in the tender	UPS OEM Should be ISO 9001:2008, ISO-14001 & OHSAS- 18001		No change in original clause.	



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31		34	2.4	<b>Electrical wiring and equipments.</b> Bidder is required to submit his electrical layout design as part of implementation plan to be submitted to the department along with the Technical Bid.	Since the layout design for each school may be different, does this require 14 different layout designs for each school lab?		The successful bidder has to submit these details and get approval from KSCCL before grounding the work.	
32		35	Point 4	<b>Software Requirements</b> Other Application software as prescribed by the department on the basis of curriculum defined for the project.	Please let us know what kind of other application software would be prescribed.			Refer corrigendum
33		36	2.5	Student related information: Student details like name, roll no, schooling history, lab attendance, student performance, curriculum and marks obtained etc.	Please clarify who will do the data entry for the student data.		Bidder has to execute the work.	
34		37	2.6.iii	<b>Services::</b> iv. One technical support engineers to ensure the service level/ uptime agreed in the Service Level Agreement (SLA) at appropriate locations for maintenance, trouble-shooting and repair purposes.	Please specify on SLA matrix		Specified in clause 2.3.3 (Page 55 onwards in original RFP)	
35		38	2.7.1.1	<b>2.7.1 COMPUTERS:</b> Bidder may note that the scope of work includes all services i.e. Comprehensive 2 (Two) year Warranty/repair/maintenance/spares /instant replacement in case of break down/failure etc. followed by 3 (Three) year AMC.	Please confirm whether we can give 3 years onsite warranty on hardware followed by 2 years AMC	This is as per standard OEM warranty nomenclature.	No change in original clause	
36		39	2.7.5	<b>PROVISION FOR THE GREENBOARD WITH WHITE INTERACTIVE BOARD:</b> With white interactive board, the concessionaire shall also supply 5x4 feet Green Board as a traditional teaching aid. The viewing angle shall be such that students sitting in all corners of the classroom can see what is being written.	Please confirm to use the existing blackboards in the classrooms.		No change in original clause	

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37		40	4.3	<b>COMPREHENSIVE WARRANTY&amp; AMC:</b> The period of onsite comprehensive warranty will be two years, and will start from the date of successful commissioning & functioning of the project, as specified in the Special Conditions of Contract (Section – VII).	Please confirm whether we can give 3 years onsite warranty on hardware followed by 2 years AMC	This is as per standard OEM warranty nomenclature.	No change in original clause.	
38		43	6.3 Point 13	KMC will provide the content as prescribed by State Govt. Further the bidder can also specify content from his end as per the syllabi of State Govt with provision of having online exam facility for each of the course. KMC will take a final decision whether to consider the content quote or not while evaluating.	Please clarify whether the content will be optional or mandatory. Whether the cost of content will be considered on finalizing the L1 quote		Clarified earlier.	
39		43	6.3.13 Digital content for classroom	<b>ROLES AND RESPONSIBILITIES OF ALL THE STAKEHOLDERS:</b> Digital content for classroom KMC will provide the content as prescribed by State Govt. Further the bidder can also specify content from his end as per the syllabi of State Govt with provision of having online exam facility for each of the course. KMC will take a final decision whether to consider the content quote or not while evaluating.	As content will be available from State Govt as per the syllabi of State Govt, please confirm whether still bidder needs to provide content. Also, please confirm Language of the Content.		Clarified earlier.	
40		51	16	<b>IMPLEMENTATION SCHEDULE:</b> 2. Establishment of 125 smart classrooms and setting up of Classroom Studio. 45 days from the date of signing of contract (T0+45 days) 3. Establishment of 200 smart classrooms and 14 computer labs.75 days from the date of signing of contract (T0+75 days) 4. Establishment of 257 smart classrooms. 120 days from the date of signing of contract (T0+120 days)	Please amend establishment of 125 smart classrooms and setting up of Classroom Studio as per below period :- 2. Establishment of 125 smart classrooms and setting up of Classroom Studio. 90 days from the date of signing of contract (T0+90 days) 3. Establishment of 200 smart classrooms and 14 computer labs. 120 days from the date of signing of contract (T0+120 days) 4. Establishment of 257 smart classrooms. 150 days from the date of signing of contract (T0+150 days)		No change in original clause.	

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41		51	17.1 17.2 17.3 17.4 17.5	<p><b>17. PAYMENT TERMS::</b></p> <p>The following are the payment terms for the bid for CAPEX</p> <p>17.1 50% payment of Hardware cost will be released after successful supply</p> <p>17.2 10% payment of Hardware cost installation and commissioning of the Hardware required for the Smart Classrooms after deduction applicable TDS/VAT/Education Cess taxes etc.</p> <p>17.3 20% payment of Hardware will be paid after successful go-live.</p> <p>17.4 10% will be released after completion of 2 years.</p> <p>17.5 The Balance 10% will be paid along with final bill.</p>	<p>Please amend payment terms for the bid for CAPEX as mentioned below :-</p> <p>60% payment of Hardware cost will be released after successful supply</p> <p>20% payment of Hardware cost installation and commissioning of the Hardware required for the Smart Classrooms after deduction applicable TDS/VAT/Education Cess taxes etc.</p> <p>10% payment of Hardware will be paid after successful go-live.</p> <p>10% will be released after completion of 1 year or successful installation of all 257 Smart Classrooms, whichever is earlier.</p>		No change in original clause.	
42		51	16	<p>Establishment of 125 smart classrooms and setting up of Classroom Studio . Timeline is 45 days from the date of signing of contract (T0+45 days)</p> <p>Establishment of 125 smart classrooms and setting up of Classroom Studio . Timeline is 75 days from the date of signing of contract (T0+75 days)</p> <p>Establishment of 257 smart classrooms timeline is 120 days from the date of signing of contract (T0+120 days)</p>	<p>Request to increase Timeline 6 to 8 weeks from the date of signing of contract</p> <p>8 to 10 weeks from the date of signing of contract</p> <p>180 days from the date of signing of contract</p>		No change in original clause.	
43		51	17.6	<p><b>17. PAYMENT TERMS::</b></p> <p>The payment for the OPEX - such as consumables, salaries of Studio staff and IT (Resource Persons) etc will be released on quarterly basis.</p>	<p>The payment for the OPEX - such as consumables, salaries of Studio staff and IT (Resource Persons) etc will be released on quarterly basis in advance.</p>		No Change in Original Clause.	

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44		52	18.1	<b>18. WORK COMPLETION AND LIQUIDATED DAMAGE:</b> If any part of the service in respect of the work assigned and undertaken by the successful bidder for which this contract is being entered into is not rendered or delivered in time, KSCCL shall be entitled to levy and recover Liquidated damages/penalty@0.5% per week or part there of the delay subject to a maximum of 10% of the cost of the work delayed.	Please amend the maximum penalty value to 5% of the cost of the work delayed.		No change in original clause.	
45		55	23.3.1	<b>23.3 Penalty for failure of equipment(s):</b> No computer system (CPU, monitor, keyboard, mouse, speakers, UPS) or long throw Projector or Interactive White Board or Integrated Computer Projector, security cameras and components of security camera system installed in the smart classrooms and elsewhere shall be down for more than 24 hours continuously from the date of the lodging of complaint (even if computer system/ Projector/Interactive board is down during part of a calendar day, it will be counted as one calendar day).	Please confirm that it excludes Saturday and Sunday, to make it 5 business days in a week.		As per govt of AP specific school working days requirement.	
46		57	24.1 (TERMINATION OF CONTRACT FOR DEFAULT)	<b>24. TERMINATION CLAUSE:</b> KSCCL without prejudice to any other remedy available for breach of contract, may terminate the contract in whole by a 15 (fifteen ) days' notice in writing to the company in the event of any one or all of the following	Please amend notice period to 30 days.		No change in original clause.	

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47		67	Studio Setup	<b>ANNEXURE-II(A)- Technical Specifications of IT Infrastructure:</b> 12 Accessories for integration	Please give detailed list of BoM for Accessories for integration.		Tentative BoM are given in Page 77 onwards for studio. However it is bidder's responsibility for setting up of studio with the BoM. Bidder should quote rate for the completed setup	
48		68	Annexure II A	Desktop Computer : 18.5' LED backlit display Digital colour monitor TC-05 Certified, same company brand as that of PC.	Request to remove TC-05 Certified for monitor clause .		Refer Corrigendum	
49		68	1.	<b>DESKTOP COMPUTERS FOR Computer Lab</b> <b>ANNEXURE-II(A)- Technical Specifications of IT Infrastructure :</b> CPU: Chipset: Memory: Hard Drive: Ports: Cabinet: DVD ROM Drive: Network Port: Operating System: Graphic Card :	We recommend laptop configuration of :- CPU: Latest 7th Generation Intel Core i5 Memory: 4 GB DDR4 DRAM Hard Drive: 1 TB 5400 RPM Display: 14-inch diagonal LED-backlit Ports: Minimum 3 USB Ports with atleast 1 Type C USB and 1 USB 3.0 port Security: Integrated Fingerprint Reader, TPM 1.2 Keyboard: Backlit Full size spill resistant keyboard with gesture support, Industry Standard Certifications: UL, FCC Compliance, EPEAT-Gold, Energy Star. Ethernet Interface: Integrated Ethernet 10/100/1000 NIC OS: Windows 10 Professional, 64 bit	Please replace desktops with laptops in the computer lab. Laptops are easy to manage and service, saves space, and cost effective as compared to desktops. Will enable easy power backup system (inbuilt laptop battery) and requires lesser UPS capacity, making lesser project cost.	No change in Original clause	

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50		68	1. DESKTOP COMPUTERS FOR Computer Lab	<b>General::</b> ANNEXURE-II(A)- Technical Specifications of IT Infrastructure: Not asked in the tender	Certification - EPEAT Gold	Missing specification in the tender.  EPEAT is standard for branded devices and address the full product lifecycle, from design and production to energy use and recycling. EPEAT is a free and trusted source of environmental product ratings that makes it easy to select high-performance electronics that meet an organization's IT and sustainability goals.	No change in original scope.	
51		68	1. DESKTOP COMPUTERS FOR Computer Lab	<b>General::</b> ANNEXURE-II(A)- Technical Specifications of IT Infrastructure: Not asked in the tender	Security- TPM	Trusted Platform Module (TPM) technology is designed to provide hardware-based, security-related functions. Security features which allows disk encryption and access to data , or systems is protected. Recommended security feature for Enterprise usage.  No cost implication.	No change in original clause.	
52		68	1. DESKTOP COMPUTERS FOR Computer Lab	<b>General::</b> ANNEXURE-II(A)- Technical Specifications of IT Infrastructure: Not asked in the tender	Please incorporate IEEE 802.11 b/g/n/ac ,	Supports both 2.4 Ghz and 5 GHz frequency which is the current Wifi technology. Industry standard.	No change in original clause.	

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53		68	2.2	<b>General :</b> 2.2 Digital Classrooms For Primary Schools (DC): Not asked in the tender	Recommended certification for the Teacher Device in Digital Classroom. Mandatory Industry Standard Certifications - UL, FCC Compliance, EPEAT- Silver or higher, BIS	Missing specification in the tender.  Required for vendors to shortlist product and quote. EPEAT is standard for branded devices and address the full product lifecycle, from design and production to energy use and recycling. EPEAT is a free and trusted source of environmental product ratings that makes it easy to select high-performance electronics that meet an organization's IT and sustainability goals	No change in original clause.	
54		68	Annexure - IIA	Chipset: Intel Q8 Series	We would like to bring to your notice that the existing technical specifications are clearly favouring a single microprocessor vendor i.e Intel and hence the bidders/OEMs won't be able to quote AMD based Desktop Computers. As a result, the OEMs will be locked to one microprocessor vendor only i.e., Intel and will be forced to quote the same.	By allowing AMD not only the department will benefit in terms of open and fair competition but also get better technology at a competitive price point.	Bidders can quote equivalent chipset for the computers.	Refer corrigendum

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55		68 and 72		Desktop computer for computer lab, Interactive White Board and Projector System	There is an alternate solution for Desktop Computer, Projector and Interactive White Board with a multi-utility features embedded into single unit. An Integrated Computer Projector combines the utility of a computing System, DLP Projector, Large Screen TV, Audio System, In built interactivity and a multimedia		No change in original clause.	
56		69	UPS	<b>ANNEXURE-II(A)- Technical Specifications of IT Infrastructure:</b> Power Backup – UPS 10 KVA. Features	Kindly confirm the requirement : Three Phase input / Three Phase Output OR Single Phase input / Single Phase Output If It is Three in /three out , kindly define the I/O Voltage		This clause is clear.	
57		69	UPS	<b>ANNEXURE-II(A)- Technical Specifications of IT Infrastructure:</b> Power Backup –UPS 10 KVA. Backup duration	How many minutes backup required ?		30 min Backup required.	Refer corrigendum
58		69	UPS	<b>ANNEXURE-II(A)- Technical Specifications of IT Infrastructure:</b> Sine wave UPS with external batteries	Kindly confirm if ONLINE or LI Ups is required. We recommend Online UPS as there is no Price difference.		Online UPS.	
59		69	UPS	<b>ANNEXURE-II(A)- Technical Specifications of IT Infrastructure:</b> Sine wave UPS with external batteries Generic specifications	Please specify the VAH for 30 min backup		Specified in UPS Specifications page 70 of RFP.	



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60		73	9	<b>Virtual Classroom Software</b> Reverse interactivity - Interactive application that shall supports Audio, Video, Screen, Written query, Images for interactions. Students shall able to participate from a classroom using Video conferencing or the Web camera connected to Laptop or Desktop. The Utility should provide them with a complete learning environment where they can view the instructor and course material, as well as interact with the instructor by their voice or video or written query. Automatically gets downloaded in the particular classroom using the application software.	It is suggested that you define few parameters like video resolutions standards and content resolution while defining the Virtual Classroom. The video resolutions should support atleast 720p, SD & CIF resolution should be 30 & 60 fps. The software should support 16:9 aspect ratio.	These standards help the department in procuring right software.	No change in original clause.	
61		73	9	<b>Virtual Classroom Software</b> Reverse interactivity - Interactive application that shall supports Audio, Video, Screen, Written query, Images for interactions. Students shall able to participate from a classroom using Video conferencing or the Web camera connected to Laptop or Desktop. The Utility should provide them with a complete learning environment where they can view the instructor and course material, as well as interact with the instructor by their voice or video or written query. Automatically gets downloaded in the particular classroom using the application software	It is suggested that the hosting and uptime SLA of Virtual Calsroom software should be mentioned.	It is not mentioned in the tender document.	SLA for virtual classroom is also same as that Breaking service.	

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62		73	9	<p><b>Virtual Classroom</b> Software Reverse interactivity - Interactive application that shall supports Audio, Video, Screen, Written query, Images for interactions. Students shall able to participate from a classroom using Video conferencing or the Web camera connected to Laptop or Desktop . The Utility should provide them with a complete learning environment where they can view the instructor and course material, as well as interact with the instructor by their voice or video or written query. Automatically gets downloaded in the particular classroom using the application software</p>	It is suggested that the content to be displayed simultaneously from the classroom's computer instead of broadcasting from studio. Since the content would be available on the classroom computer the teacher from studio should be able to play the content from classroom computer using the Virtual Classroom Software.	It helps improve the quality of the display in the classrooms. There would not be any buffering issues as the content is displayed from the local computer. R	No change in original clause.	
63	Annexure IIA	73	Item 4 (Projector)	Line 1 : Projection System DLP Short Throw	Projection System DLP / LCD Shot throw Projector	LCD technology is 3 chip and better leading technology. 9 out of 10 projector leading brands are from LCD. Market share of LCD is best and reliability and quality wise LCD is proven since beginning. Since it is better technology and has edge over DLP the product, we request to include LCD technology too in tender. ( LCD is more reliable without compromising in quality )		Refer corrigendum
64		74	10. Clickers and Clicker Receiver	<p><b>ANNEXURE-II(A)- Technical Specifications of IT Infrastructure:</b> 10. Clickers and Clicker Receiver</p>	<p>If student using Tablet, then they have the touch enabled hand rise and Q &amp; A session inside the application.</p> <p>Then why they need additional device ?</p>	Q & A and for hand rising, student have the facility inside the application which is touch enabled using single click inside the application.	No change in original clause.	

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65		78	5. Multi-touch Interactive Panel with 14" laptop	<b>ANNEXURE-II (B) – Studio Setup:</b> Multi-touch Interactive Panel with 14" laptop 13.3" display with Styles. Inbuilt graphics of 1 GB or higher	Please confirm display size - 13.3" or 14". Please remove Inbuilt graphics of 1 GB or higher, as multi-touch laptop does not have 1GB graphics. Please incorporate HD Graphics with shared video memory.	Non graphics education applications does not require discrete graphics.	14 inches display.	Refer corrigendum
66		80	14. UPS - 3 KVA	<b>ANNEXURE-II (B) – Studio Setup:</b> 14. UPS - 3 KVA	Please specify the VAH for 1 hour backup		Successful bidder has to supply UPS of 3 KVA for the studio setup with a capacity of 1 Hr back up.	
67				Line 2 : Native resolution 800 x 600	1280 x 800 resolution	Today all the laptop and desktop are coming with WXGA and HD resolution minimum standard is WXGA resolution. In future we cannot up grade the resolutions of projector		Refer corrigendum

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68				Line 3 : Brightness 3000 AL or higher	3400 ANSI with Color light out put and white light out put same	As the time passes the bright ness comes down. It will be a challenge in 3rd,4th and 5th year. So minimum to have better preposition in quality of brightness 3400 ANSI. And main importantly need to specify the color light and white light out put the same or else many projector which comes only with specified brightness will be offered in white where as they will not provide in the same brightness in color light out brightness. Please visit <a href="http://www.colorlightoutput.com">www.colorlightoutput.com</a> you will get better clarity		Refer corrigendum

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69				Line 4: Contrast Ration 18000:1	16000:1	Does not have any role in day light and in class room where there is sufficient amount of sun light or brightness. It will have some impact only in closed room and in home projector where we choose HD out put with 80,000: 1 or more. Please check only contrast will be given the preference home provided we watch the program in closed room only whereas in day light when the room ambiance is light is more the impact is negligible.		Refer corrigendum
70				Line 5 : 4:3 Native	4:3, 16:9, 16:10 native resolution	Need to support all 3 which is mandate		Refer corrigendum
71				Line 6 : Lamp Life(Normal/Economic Mode) 3500/5000 Hrs.	5000/10000 Hrs.	Old technology with SVGA gives 3500 only where as new technology which starts with 5000/ 10000 hours in todays technology		Refer corrigendum

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72				Line 8 : Projection Distance : 0.5-2.5 m	0.48 - 0.65 m	Shot throw distance is 0.48 - 0.65 (Wide - Tele). This is company standard. There are 3 standard. 1) Normal throw –0.68 m over and above is normal throw 2) Shot throw – 0.48 - 0.65m 3) Ultra shot throw - 0.27 - 0.37m		Refer corrigendum
73				Line 9 : I/O : Minimum VGA input, Audio Input	VGA in, VGA out, mic, HDMI, LAN, USB type A & B, RCA, audio, optional wi-fi	Said connectivity has got basic and got relevance with day to day usage in class rooms		Refer corrigendum

Sd/-XXXXXXX  
Managing Director,  
KSCCL.