

MANAGEMENT DEVELOPMENT INSTITUTE, GURGAON

Date: March 29,2019

Addendum -1: Tender for setting up 7 Nos. of Smart Classrooms

Please find below the clarification in the form of addendum to the Tender post pre bid meeting held on March 27, 2019 at MDI, Gurgaon:

S.No.	Page No./Sr.No.	Existing Description	Revised Description
1.	Page No. 3/ S.No. 8	OEM Authorization certificate	Attach OEM Authorization certificates (For Items S. No. 1 to S. No. 7 in Annexure -I at Pg 12 to Pg 15)
2.	Page No. 3/ S.No. 9	The Bidder must ISO 9001:2015. Attach copies of valid certificates	The Bidder with ISO 9001:2015 preferred Attach copies of valid certificates, if any. <i>Clarification: This certification is optional</i>
3.	Page 7 / S.No. 1A	Annual Turnover of each year for last 3 years more than 15.0 Crores.	Annual Turnover of each year for last 3 years more than 3.6 Crores.
4.	Page 7 / S.No. 4	The Bidder must be ISO 9001:2015. Attach copies of valid certificates	The Bidder with ISO 9001:2015 preferred Attach copies of valid certificates, if any. <i>Clarification: This certification is optional</i>
5.	Page 9 Bid Rejection Criteria	Company Turnover less than Rs 15.0 Crores in any of the last three financial years	Company Turnover less than Rs 3.6 Crores in any of the last three financial years
6.	Page 9 Bid Rejection Criteria	Not having valid ISO & other certifications indicated	Deleted
7.	Page 9 Bid Rejection Criteria	The bidder should have a minimum average annual turnover of at least Rs.10 crores during the last three financial years 2015-16, 2016-17, 2017-18. The turn over shall be supported by documentary evidences duly certified by Chartered Accountant which	The bidder should have a minimum average annual turnover of at least Rs.3.6 Crores during the last three financial years 2015-16, 2016-17, 2017-18. The turn over shall be supported by documentary evidences duly certified by Chartered Accountant which

		shall be attached with the tender documents.	shall be attached with the tender documents.
8.	Page 10/ S.No. 1 Parameters for Technical Evaluation	No. Smart Classroom Projects Executed (including all equipment as per specifications in Annexure I & II) supplied & Installed in any Institute/ University Total Score: 40	No. of similar Smart Classroom Projects Executed (including all equipment as per specifications in Annexure I & II) supplied & Installed in any Institute/ University /Govt. /PSU/ Corporate Total Score: 40
9.	Page 12/ S.No. 1	Interactive Board 86-inch diagonal size (Samsung/LG/ Panasonic/ Newline) – 6 No. SITC of 86" Diagonal Size, 4K Ultra HD Resolution (4K UHD @60Hz) LED Touch Interactive display, Optical Bonding AntiGlare & Anti-Finger Print Glass Touch Surface Technology one touch file sharing, BYOD; Viewing angle - 178°; Infrared (IR) Touch Technology; Surface Hardness - 7H; Thin/ Thick Touch Recognition & Detection; Colour Depth 8-bit; Brightness 370 nits; Contrast Ratio 4000:1; Response Time 8ms; Multiple front I/O ports for easy access - 4 HDMI ports (1.4/2.0), Display Port, USB (Touch/ Dynamic); 2 LAN port RJ45 , 4K HDMI Output Port 4K @ 60Hz; Audio Line & SPDIF Out; Communication Interface - USBA; Built-in Android System; Screen Sharing (between Android tab and Display); One Touch to Turn Display into Whiteboard ; Interact with a non-proprietary pen or with fingers: Android 10 Touch Points / Windows 20 Touch Points.; Software – idea Max included;	84-86 inch diagonal size – 6 No. SITC of Min. 85" Diagonal Size, 4K Ultra HD Resolution (4K UHD @60Hz) LED Touch Interactive display, Optical Bonding AntiGlare & Anti-Finger Print Glass Touch Surface Technology one touch file sharing, BYOD; Viewing angle - 178°; Infrared (IR) Touch Technology; Surface Hardness - 7H; Thin/ Thick Touch Recognition & Detection; Colour Depth 8-bit; Brightness 370 nits; Contrast Ratio 4000:1; Response Time 8ms; Multiple front I/O ports for easy access - 4 HDMI ports (1.4/2.0), Display Port, USB (Touch/ Dynamic); 1 LAN port RJ45 , 4K HDMI Output Port 4K @ 60Hz; Audio Line & SPDIF Out; Communication Interface - USBA; Built-in Android System; Screen Sharing (between Android tab and Display); One Touch to Turn Display into Whiteboard ; Interact with a non-proprietary pen or with fingers: Android 10 Touch Points / Windows 20 Touch Points.; Software – idea Max included; Intelligent thermos protector inbuilt. Make : (Samsung/LG/ Panasonic/

		Intelligent thermos protector inbuilt. Make :	Newline/Sharp)
10.	Page 12-13/ S.No. 2	Interactive Board 98-inch diagonal size (Samsung/ LG/ Panasonic/ Newline) – 1 No. SITC of 98" Diagonal Size, 4K Ultra HD Resolution (4K UHD @60Hz) LED Touch Interactive display, convertible to digital whiteboard, one touch file sharing, wireless presentation and screen mirroring, BYOD, customizable user interface as per choice of OS, latest generation In Glass Touchscreen Technology which allows Object Recognition , Intuitive Smart System for ease of use; Up to 20 touch points; Multiple AV/ Video / Data input & output interfaces; Display Colours - 10 Bit; Brightness – 500 cd/m2; Contrast Ratio - 4000:1 ; Viewing Angle - 178 deg; Response Time - 8ms; Lifetime - minimum 30,000 hours; Touch Surface Technology of Anti-Glare glass Touch sensor - IR ; TOUCH Response time ≤10ms; Cursor Speed - 100Point/s ; Positioning Accuracy - ±3mm Chipset - MSD828 ; CPU - ARM Cortex A53 4*core 1.4 GHz ; GPU - ARM Mali450 6*core 600MHz ; RAM - 2GB ; ROM - 8GB; Android OS; Intelligent thermal protector; RS232 x 1, RJ45 x 2.	Interactive Board 98-inch diagonal size– 1 No. SITC of 98" Diagonal Size, 4K Ultra HD Resolution (4K UHD @60Hz) LED Touch Interactive display, convertible to digital whiteboard, one touch file sharing, wireless presentation and screen mirroring, BYOD, customizable user interface as per choice of OS, latest generation In Glass Touchscreen Technology which allows Object Recognition , Intuitive Smart System for ease of use; Up to 20 touch points; Multiple AV/ Video / Data input & output interfaces; Display Colours - 10 Bit; Brightness – 500 cd/m2; Contrast Ratio - 4000:1 ; Viewing Angle - 178 deg; Response Time - 8ms; Lifetime - minimum 30,000 hours; Touch Surface Technology of Anti-Glare glass Touch sensor - IR ; TOUCH Response time ≤10ms; Cursor Speed - 100Point/s ; Positioning Accuracy - ±3mm Chipset - MSD828 ; CPU - ARM Cortex A53 4*core 1.4 GHz ; GPU - ARM Mali450 6*core 600MHz ; RAM - 2GB ; ROM - 8GB; Android OS; Intelligent thermal protector; RS232 x 1, RJ45 x 1. Make: (Samsung/ LG/ Panasonic/ Newline/Sharp)
11.	Page 13/ S.No. 4	Ceiling Speakers – 16* No. each for 6 classroom SITC of two way ceiling speakers impedance (70/100 v) voltage line and with coaxial transducer elements: 6.5" woofer + 1" TWT	Ceiling Speakers – 16* No. each for 6 classroom SITC of two way ceiling speakers impedance (70/100 v) voltage line and with coaxial transducer elements: 6.5" woofer + 1" TWT

		(Swivel type twitter). power taps (100 v line): frequency response: 43 hz – 20 khz. sensitivity (1w/1m): 90 db.- max spl: 100 db. power taps (low impedance): 10 w at 8 ohm. Make : (Bose/Tannoy/Work Pro/RenkusHeinz) *As per Actual.	(Swivel type twitter). power taps (100 v line): frequency response: 43 hz – 20 khz. sensitivity (1w/1m): 90 db.- max spl: 100 db. power taps (low impedance): 10 w at 8 ohm. Make : (Bose/Work Pro/RenkusHeinz/JBL) *As per Actual.
12.	Page 13-14/ S.No. 5	Wall Mount Speakers –6 Nos each for 1 classroom 2 Way passive loud speakers;elements; 6.5” woofer + 1” TWT suitable for low impedance and constant voltage line, wall mount bracket with fast mounting system Page 14 of 17enabling pan and tilt; Dispersion (HXV):1200X 900; , Power Handling 60 W RMS(8 Ohm) (with overload protection)/ 200 w Peak. Sensitivity 92 dB (1W/1m). Max SPL: 109 dB(1m); Frequency Response: 80 Hz – 20 Hz. *As per Actual. Make : (Bose/Powersoft/Work Pro/Labgruppen)	Wall Mount Speakers –6 Nos each for 1 classroom 2 Way passive loud speakers;elements; 6.5” woofer + 1” TWT suitable for low impedance and constant voltage line, wall mount bracket with fast mounting system Page 14 of 17enabling pan and tilt; Dispersion (HXV):1200X 900; , Power Handling 60 W RMS(8 Ohm) (with overload protection)/ 200 w Peak. Sensitivity 92 dB (1W/1m). Max SPL: 109 dB(1m); Frequency Response: 80 Hz – 20 Hz. *As per Actual. Make : (Bose/Powersoft/Work Pro/Labgruppen/JBL)
13.	Page No. 15/ S.No. 6	Amplifierfor Ceiling Speakers–1 No.each for 6 classroom SITC of power amplifier for low impedance installations. It incorporates 4 channels with 150W each one, and 9 operating modes. Its four channels can work independently with their own volume control and the amplifier can be configured as a 3-channel amplifier (2.1), which means 2 independent stereo / parallel channels and 2 combined channels for the subwoofer in bridge mode. As a 3-channel amplifier, integrates	Amplifierfor Ceiling Speakers–1 No.each for 6 classroom SITC of power amplifier for low impedance installations. It incorporates 4 channels with 150W each one, and 9 operating modes. Its four channels can work independently with their own volume control and the amplifier can be configured as a 3-channel amplifier (2.1), which means 2 independent stereo / parallel channels and 2 combined channels for the subwoofer in bridge mode. As a 3-channel amplifier, integrates crossover

		<p>crossover function with a low-pass filter for the subwoofer and two high-pass filters with frequency adjustment. Output Power: 4 x 230W @ 2ohm 4 x 150W @ 4 ohm 4 x 90W @ 8 ohm. Output Power (Bridge): 400W @ 4 ohm 310W @ 8 ohm. Frequency Response (stereo mode): 20 Hz - 20 kHz -3dB. Frequency Response (sub mode): 20 Hz - (50 Hz - 250 Hz) -3dB. S/N Ratio: >96 dB. THD: Less than 0.1% at 1kHz, rated power. Make : (Bose/Powersoft/Work Pro/Labgruppen)</p>	<p>function with a low-pass filter for the subwoofer and two high-pass filters with frequency adjustment. Output Power: 4 x 230W @ 2ohm 4 x 150W @ 4 ohm 4 x 90W @ 8 ohm. Output Power (Bridge): 400W @ 4 ohm 310W @ 8 ohm. Frequency Response (stereo mode): 20 Hz - 20 kHz -3dB. Frequency Response (sub mode): 20 Hz - (50 Hz - 250 Hz) -3dB. S/N Ratio: >96 dB. THD: Less than 0.1% at 1kHz, rated power. Make : (Bose/Powersoft/Work Pro/Labgruppen/Extron/Crestron/JBL)</p>
14.	Page No. 15/ S.No. 7	<p>Amplifier for Wall Speakers –1 No.SITC of Power amplifiers with switching mode 8 ohm stereo output power: 200 W x 2. 8 ohm bridge output power: 600 W. Frequency response: 20 Hz - 20 kHz. THD+N: 100 dB. Damping factor: >150. Dynamic range: >80 dB. Voltage gain: 26 dB/32 dB. Make : (Bose/Powersoft/Work Pro/Labgruppen)</p>	<p>Amplifier for Wall Speakers –1 No.SITC of Power amplifiers with switching mode 8 ohm stereo output power: 200 W x 2. 8 ohm bridge output power: 600 W. Frequency response: 20 Hz - 20 kHz. THD+N: 100 dB. Damping factor: >150. Dynamic range: >80 dB. Voltage gain: 26 dB/32 dB. Make : (Bose/Powersoft/Work Pro/Labgruppen/ Extron/Crestron/JBL)</p>
15.	Page 15/ S.No. 10	<p>SITC of approved makes of cables (Mike Cable, Speaker Cable, Power Cable, Control Cable , Connector, HDMI Patch Cords, conduits, batons/ any other material incidental to installation) etc.</p>	<p>SITC of approved makes of cables (Mike Cable, Speaker Cable, Power Cable, Control Cable , Connector, HDMI Patch Cords, conduits, batons/ any other material incidental to installation) etc. Make : Extron/Kramer/Aten/Crestron</p>
16.	Page 15/	<p>3 Years Warranty and onsite support for all the above items</p>	<p>3 Years Comprehensive Onsite Warranty from OEM and onsite support from Vendor for all the above items</p> <p><i>*Clarification: Onsite Engineer is required for three months' post</i></p>

			<i>installation and commissioning. User Training to be imparted to all users</i>
17.	Page 17	Financial Bid Format	Refer Revised Financial Bid Format given below

Financial Bid

Sealed Quotation for setting up Smart Classroom

Sr. No.	Description of Item & Specification as per Annexure I	Qty. in Units	Unit Price in Rs.	GST (%)	Total Price excluding GST in Rs.	Total Price including GST in Rs.
1.	Interactive Board Min. 84-86-inch diagonal size	6				
2.	Interactive Board 98-inch diagonal size	1				
3.	Digital Podium	7				
4.	Ceiling Speakers (16 per classroom) *As per actual	96				
5.	Wall Speakers *As per actual	6				
6.	Amplifier For Ceiling Speaker *As per actual	6				
7.	Amplifier For Wall Speaker *As per actual	1				
8.	10 m USB cable extender	7				
9.	Wall Mount Bracket for Interactive Board – 86 Inch	6				
10.	Wall Mount Bracket for Interactive Board – 98 Inch.	1				
11.	Installation, Testing, Commissioning & User Training	--				
12.	3 Years Comprehensive Onsite Warranty from OEM and Onsite Support from Vendor for three years.	--				
13.	Onsite Engineer requirement for three months' post installation and commissioning	--				
	Total					

- Delivery Mode: Delivery at MDI Gurgaon, at site only
- Total bid price should be inclusive of all taxes and levies, transport, loading, unloading etc.
- Warranty Period: 3 Year Onsite.
- Delivery Period:days/weeks.

- Installation Period:.....days/weeks.
- Quotation Validity Date: - 3 months from the last date of Submission of quotation/tender.

Sign of bidder:- _____

Name of bidder:- _____

Firm's Name: _____

Date: