

REQUEST FOR QUOTATION

Procurement of Equipment for Language Labs

(RFQ - SELAJSI-SI/2015/01)

The United Nations Development Programme (UNDP) in Sri Lanka is looking for a Service Provider to provide a total solution for establishing two multimedia language laboratory systems: one at the Department of Official Languages (DOL) based in Rajagiriya, and the second at the National Institute for Language Education Training (NILET) based in Agalwatte. The Multimedia Language Laboratory System is designed for one teacher and 30 students, and would allow the teacher to monitor and control the students' learning process through the computerized system. Students are also able use the system to follow the training, practice conversation, listening and speaking through use of multimedia equipment, and interact directly with the teacher using the system. The system also allows for language proficiency testing. List of equipment required to establish the lab are provided.

To this effect, the United Nations Development Programme in Sri Lanka invites eligible National and or International OEM manufacturers, authorized dealers and or distributors to submit quotations for the following on an **urgent basis**.

Reference	Description of Goods	Quantity	
		Rajagiriya	Agalawatte
1	Master Control Console for Language Laboratory	01	01
2	Control Software for Language Laboratory	01	01
3	Teacher Recorder	01	01
4	Student Digital Recorder	34	34
5	Students & Teacher Headsets	34	34
6	Connecting Cables (Audio/Video/Data Cable)	01 Lot	01 Lot
7	Multimedia Projector	01	01
8	Motorized Projection Screen	01	01
9	Computer for Teacher	01	01
10	Color Printer	01	01
11	UPS for the System	01	01
12	Audio Recorder	01	01
13	Wireless Handheld Microphone	01	01
14	Speakers for Laboratory	01	01
15	Power Amplifier	01	01
16	Video Distributor	01	01
17	Steel System Rack	01	01
18	Web Cam	01	01

UNDP Sri Lanka

 202-204, Bauddhaloka Mawatha, Colombo 7, Sri Lanka ■ P.O. Box 1505
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19	20" Monitor for Teacher / Students	32	32
20	Network Infrastructure- Network Switch + Network Wiring	48 ports	48 ports

The technical specifications, price schedule, and terms/conditions can be downloaded from www.lk.undp.org (operations>procurement>procurement notices). A minimum 3-years warranty is required for all equipment, as well as delivery, installation and commissioning of equipment, and training on use of equipment for technicians and users at both locations. Any supplier who submits a bid without conforming to the bidding documents will be considered as technically noncompliant and the offer will be rejected. **It is expected that the supplier quotes for all components above as a total solution and partial bids will not be accepted.**

All bids must be clearly marked with (RFQ - SELAJSI-SI/2015/01) on the top left corner of the envelope. A **pre-bid meeting** is scheduled for **14th October 2015 2pm** at the address below and bidders are encouraged to attend. The **deadline** for the submission of the bids is **20th October 2015, 2.00pm** and all bids must be sealed and delivered to the addresses below. **All late** offers will be rejected and returned to the bidder unopened.

Head of Procurement
United Nations Development Programme
202-204 Bauddhaloka Mawatha
Colombo 07, Sri Lanka.

UNDP reserves the right to accept or reject any bid. The procurement process will be governed by the rules and regulations of the United Nations Development Programme (UNDP)

Description	Required Specifications	Compliance Yes/No	Bidder's response
Audio Input	<div>Headset electret microphone</div> <div>Impedance : 600Ω Level : -42dB</div> <div>Program Line</div> <div>Impedance : 10kΩ Level : -10dB</div> <div>Student monitor</div> <div>Impedance : 1kΩ Level : -18dB</div>		
Audio Output	<div>Headphone</div> <div>Impedance : 32Ω Level : -20dB</div> <div>Program Line</div> <div>Impedance: 1kΩ Level : -5dB</div> <div>Intercom Line</div> <div>Impedance: 1kΩ Level : -5dB</div> <div>Recording Line</div> <div>Impedance: 10kΩ Level : -10dB</div> <div>Lab Speaker</div> <div>Impedance: 4Ω Level : 5W + 5W</div>		
General	Power requirement 110V/220V, 50/60Hz		

2. Specifications for Control Software for Language Laboratory System

	Features	Compliance Yes/No	Bidder's response
	Audio files are transferred Teacher → all, group, or individual students, Students → Teacher, Teacher/Student → external device.		
	Remote control over students' recorders such as teacher can switch on/off students' digital recorders remotely from the teacher's computer. Remote control all the functions of students' recorders, upgrade or format all recorders, and temporarily lock or unlock student recorders.		
	The teacher could be able to monitor each student to check his/her responses, pronunciation and conversation with a specific student		
	One or several student to be chosen for a pronunciation review for the entire class		
	The teacher could be checked the attendance of the students in the beginning of lesson.		
	Any student could be contacted the teacher directly as well as the teacher will be able to response to students call one by one		
	The teacher could be able to monitor all students in a group (2 ~ 4 students) sequentially to the pre defined time period automatically		
	Student seat layout and various functions of the control console are displayed on screen of the teacher computer.		
	Teacher could be able to communicated between students in the entire class		
	Students can be paired and may converse with each other alternately asking and answering questions and practicing dialogues. Pairs could be made up automatically by the teacher		
	The teacher could evaluate each student's understanding by giving them quick multiple choice quizzes and the student's responses could analyze for grading individually.		
	Students could select audio programs transmitted simultaneously		
	Self studies could be carried out by connecting external USB with audio files by marking bookmark, repetition, various playback features.		

	Features	Compliance Yes/No	Bidder's response
	Control over which can diagnose the mechanism misuse or malfunction, power cutoff to prevent harm or damage		
	Full touch mode switches to prevent breakage of mechanical switches.		
	LCD panel to show the status of recorder and tape counter		
	Selected portion of a tape to be set up in playback mode is played repeatedly up to 5 times.		
	A sentence which has been played just before is automatically repeated.		
	Up to 5 bookmarks on the desired position of the tape during playback is set up for quick access.		
	A specific pause between sentences is created and pause length is adjustable		
	Fast forward / Rewind function		
	Volume of 3 levels		

Description	Required Specifications	Compliance Yes/No	Bidder's response
Audio Input	Program Line: Impedance : 270kΩ Level : -5dB Frequency response: 20Hz ~ 20KHz		
Audio Output	Headphone Impedance : 16Ω Output Level : 18mW Program Line Impedance: 150Ω Level : -5dB		
Audio performance	Frequency response: 100Hz ~ 10KHz Signal to Noise ratio: 45dB Wow and Flutter: < 0.1% W RMS		
General	Tracks: 2 Track, two channel Tape Speed: normal 4.75cm/sec Power Requirement: AC 120/220/240V, 50/60Hz Power consumption: 7w		

	Features	Compliance Yes/No	Bidder's response
	USB Port supported for personal use of mp3 player and self-study, lesson review		
	LCD display to show all information and processing status.		
	Students are able to simultaneously access to teacher's database where the audio files are saves systematically without no buffering, delay or interruption.		
	Student can exercise with one sentence repeatedly in the same pattern until selecting another/next sentence.		
	Pair study, Intercom, Calling teacher, Presentation modes		
	Student can upload file into teacher computer or download a teacher file saved in database of teacher computer.		
	Student can record his/her voice in MP3 format.		
	Media file playback, MP3, WAV, ogg file supported		
	Speed adjustments of the playing audio file		
	Bookmark facility for quick access		
	Audio quality adjustment, equalizer, Frequency, Bit rate and volume control		

Description	Required Specifications	Compliance Yes/No	Bidder's response
Audio Input	Headset electret microphone: Impedance : 600Ω Level : -17dB Program Line: Impedance : 100kΩ Level : -10dB Frequency response: 20Hz ~ 20KHz		
Audio Output	Headphone Impedance : 16Ω Output Level : 18mW Program Line Impedance: 150Ω Level : -5dB Frequency response: 20Hz ~ 20KHz		
LAN Interface	100Mbps		
Display	resolution : 64 x 128 dots Type : LCD gray colour		
General	Power requirement 9VDC/300mA Max.		

5. Specifications for Teacher & Student Headset

Description	Required Specifications	Compliance Yes/No	Bidder's Response
	Headphone: Type : Moving coil Impedance : 32Ω Output SPL : 92dB @ 1KHz Normal input power : 20mW Maximum input power : 100mW Plug type : RJ11 Microphone: Type : Electret condenser Impedance : 600Ω Sensitivity : -47dB Frequency response : 50Hz – 15KHz Rotation range : 122°		

6. Connecting cables

- As required -

7. Specifications for Multimedia Projector

Description	Required Specifications	Compliance Yes/No	Bidder's Response
Native Resolution	XGA – 1024 x 768		
Maximum Resolution	WUXGA – 1920 x 1200		
Display Technology	DLP		
Brightness	3000 ANSI Lumens or better		
Contrast Ratio	15,000:1 or better		
Input Sources	HDMI, 2 x D-sub HD15, S-Video, Composite Video, USB, Audio		
Output Sources	Monitor Loop-thru (HD-15), Audio Out		
Aspect Ratio	4:3, 16:9 & 16:10		
Video Compatibility	NTSC/NTSC4.43/PAL/PAL-M/PAL-N SECAM & SDTV(480i/576i), EDTV(480p/576p), HDTV(720p/1080i)		

Number of Colours	16.7 Million, True Colours		
Projection Method	Front, Rear, Ceiling Front, Ceiling Rear		
Weight	Less than 3Kg		
Power Supply	100 - 240VAC, 50Hz		
Lamp Life	3500 hours normal, 5000 hours eco		
Audible Noise	30dB normal, 28dB eco		

8. Specifications for Motorized Projection Screen

Description	Required Specifications	Compliance Yes/No	Bidder's Response
Screen Surface	Fabric		
Screen size	8' x 6'		
Type	Motorized with wired Remote		
Mounting method	Wall mountable		

9. Specifications for Teacher Computer

Description	Required Specifications	Compliance Yes/No	Bidder's Response
Operating System	Windows 2000/ XP/ 7		
Processor	Pentium Core2 Duo or higher		
RAM	8 GB or higher		
Network	10/100/1000 Mbps LAN		
HDD	200 GB Free Space		
Software	Windows Media Player		
Monitor	20" LED Monitor		

10. Specifications for Colour Printer

Description	Required Specifications	Compliance Yes/No	Bidder's Response
Resolution Colour Black & White	600 x 1200 dpi 600 x 1200 dpi		
Port	USB 2.0		
Print Speed	24 ppm		
Technology	Ink Jet		

11. Specifications for UPS (Uninterrupted Power Supply)

Description	Required Specifications	Compliance Yes/No	Bidder's Response
AC Input			
Nominal Voltage	220-230-240VAC		
Voltage Range	140Vac < Vin < 276 Vac @ 50% load/ 184Vac < 276 Vac @ 100% load		
Frequency Range	50/60Hz ± 5Hz		
Power	3000VA		
Frequency	Selectable : 50 Hz or 60 Hz Self-learning		

12. Specifications for Audio Recorder

	Features	Compliance Yes/No	Bidder's response
	Records audio files directly to an SD card or USB drive via RCA or XLR line in jacks		
	Compatible with SD / SDHC cards and USB drives with a storage capacity of up to 32GB		
	Dual recorder design allows for independent recording / playback on each side		
	Can record any audio signal from a device with RCA outputs or balanced XLR outputs		
	Other connections can include direct output from a computer or mp3 player		
	Delete recorded files directly from the recorder		
	Fully featured playback with single and repeat playback modes		
	1/4" headphone jack with volume control		
	Slim 1RU rack-mountable chassis		

Description	Required Specifications	Compliance Yes/No	Bidder's Response
Channels	2 Channel		
Recording format	MP3		
Media	SD (64MB – 2GB) SDHC 9 4GB – 32GB) USB Drive with FAT file format		
Input / Output	¼" Headphone Jack <u>Input</u>		

	3-pin XLR connectors RCA connectors <u>Output</u> 3-pin XLR connectors RCA connectors MIX Out : 2 RCA Connectors		
Sampling Rate	44.1 / 48KHz, 16-bit		
THD + N	1%		
Frequency response	20Hz – 18kHz		
Input impedance	10k Ω		
Output impedance	32 – 64 Ω		

13. Specifications for Wireless Hand Held Microphone

Description	Required Specifications	Compliance Yes/No	Bidder's Response
<i>UHF Single Channel true Diversity Receiver</i>			
Frequency Preparation	Crystal		
Carrier Frequency Range	600MHz ~ 960MHz		
Frequency Stability	± 10 KHz		
S/N Ratio	> 105dB		
T.H.D (1 KHz)	< 0.6%@1KHz		
Controls	Power On/Off, Audio Level		
Audio Output Level	-12dB		
AF Output Impedance	600 Ω		
Squelch	Pilot Tone, Noise & Mute		
Operating Voltage	12 – 18 VDC, 600mA		
Output Connector	1 x XLR Balanced Socket 1 x Phone Unbalanced Socket		
<i>UHF PLL Handheld Transmitter</i>			
Frequency Preparation	Crystal		
Carrier Frequency Range	600MHz ~ 960MHz		
RF Outputs	10mW		
Stability	± 10 KHz		
Frequency Deviation	± 48 KHz		
LED Display	Low Battery, Power On/Off		
Controls	Power On/Off		
Spurious Emissions	< -50 dBC		



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Audio Frequency Response	50Hz ~ 16KHz		
Battery	2 x AA 1.5V		

14. Specifications for Speakers

Description	Required Specifications	Compliance Yes/No	Remarks
Power output	20W RMS		
Impedance	330Ω / 500Ω		
Frequency Response	130Hz – 15,000Hz		
Sensitivity (1W@1m)	93dB		

15. Specifications for Power Amplifier

	Features	Compliance Yes/No	Bidder's Response
	Low Power Consumption		
	Thermal protection system		
	Output level indication		
	2 Band Tone control		

Description	Required Specifications	Compliance Yes/No	Bidder's Response
Rated Power	60W		
Frequency Response	80Hz – 16kHz		
Input Sensitivity	2 x Microphone : -60dB 1 x AUX : -10dB		
Output Voltage/ Load impedance	70V/10.2Ω , 100V/20.8Ω		
Total Harmonic Distortion	< 1%		
Signal to Noise Ratio	> 50dB		
Power Consumption	< 80W		

16. Specifications for Video Distributor

	Features	Compliance Yes/No	Bidder's Response
	Teacher could select the video need to be distributed		
	Video to be displayed on all student monitors		

Description	Required Specifications	Compliance Yes/No	Bidder's Response
Input resolution maximum	1 x UXGA On 15-pin HD connector		
Output resolution maximum	32 x UXGA On 15-pin HD connector		
Output Level Maximum	1.7Vpp		
Bandwidth	330MHz (UXGA)		
S/N Ratio	73dB		

17. Specifications for Steel System Rack

Description	Required Specifications	Compliance Yes/No	Bidder's Response
Construction	Steel powder coated		
Power Requirement	4 x 13A Power Outlets		
Size	20RU – 19" Standard Rack with rails		
Other requirements	Front Lockable glass door Rear Steel lockable Door 4 x Caster wheels		

18. Specifications for Webcam Camera

Description	Required Specifications	Compliance Yes/No	Bidder's Response
Input resolution maximum	1 x UXGA On 15-pin HD connector		
Output resolution maximum	32 x UXGA On 15-pin HD connector		
Output Level Maximum	1.7Vpp		
Bandwidth	330MHz (UXGA)		
S/N Ratio	73dB		

19. 20" Computer Monitors

Reputed brand, compatible with provided equipment

20. Network Infrastructure

Network switch and wiring as required for the system to function.

Terms and Conditions:

- All equipment must be branded and from Original Equipment Manufacturer (OEM). No locally assembled brands/models or generic brands sourced from non-OEM will be accepted.
- All software must be licensed version with proof of license keys.
- Original OEM warranties on hardware/software must be provided.
- Local supplier must be an authorized reseller/distributor of the brands/models on offer and must show proof of such original authorization.
- Supplier must be a reputable IT reseller/distributor with a minimum of 3-5 years in commercial operation.
- Awarded bidder must deliver and install equipment at identified locations and obtain delivery note as well as acceptance of equipment in acceptable working order. No payments will be released until such documentation has been received.
- Supplier must have proof of established dealer/post-sales support services. Proof of customer/help line is essential.
- All test certificates/country of origin/catalogues/brochures/technical literature/minimum international standards must be included in the quotation.
- All warranties on parts, labour and material must be clearly indicated.
- Delivery period of equipment must be indicated. Ex-stock availability of equipment will be an added advantage and will be factored in to the evaluation.
- Partial biddings will not be accepted.
- Penalty charges and or cancellation of PO's will result for those bidders who have been awarded contracts and cannot deliver as per terms/conditions of Purchase Order.
- All quoted prices should be valid for 120days from bid closing date.
- Provide list of client references within the last one year with contact details. UNDP will carry out client reference checking as part of the evaluation process.



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Financial Consideration

Reference	Description of Goods	Quantity		Brand/Model		Country of Manufacture/assembly	
Item		Rajagiriya		Agalawatte			
			Price LKR		Price LKR		
1	Master Control Console for Language Laboratory	01		01			
2	Control Software for Language Laboratory	01		01			
3	Teacher Recorder	01		01			
4	Student Digital Recorder	34		34			
5	Students & Teacher Headsets	34		34			
6	Connecting Cables (Audio/Video/Data Cable)	01 Lot		01 Lot			
7	Multimedia Projector	01		01			
8	Motorized Projection Screen	01		01			
9	Computer for Teacher	01		01			
10	Color Printer	01		01			
11	UPS for the System	01		01			
12	Audio Recorder	01		01			
13	Wireless Handheld Microphone	01		01			
14	Speakers for Laboratory	01		01			

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15	Power Amplifier	01		01			
16	Video Distributor	01		01			
17	Steel System Rack	01		01			
18	Web Cam	01		01			
19	20" Monitor for Teacher / Students	32		32			
20	Network Infrastructure- Network Switch + Network Wiring	48 ports		48 ports			

Comprehensive Warranty: Years.....

Delivery Time.....

Total Price for Quoted Items: (Sri Lanka Rupees): _____

(DDP (Delivered Duty Paid) INCOTERM 2010)

Installation and Commissioning: (Sri Lanka Rupees): _____

Training of Technicians at both locations: (Sri Lanka Rupees): _____

VAT & other Taxes: (Sri Lanka Rupees): _____

Net Price with all Tax and other chargers including installation, commissioning, training of technicians at both locations (Sri Lanka Rupees LKR):

_____ (.....in words)

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