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INVITATION OF TENDER

Ref No. PUR/1/313/MS/ESD/17-18/ IPO:

Dt 05.01.2018

To,

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Dear Sirs,

We are interested in purchase of following articles under terms and conditions mentioned below. Please send in your quotations with detailed terms and conditions of supply alongwith maximum discount applicable to Govt. (R&D) organizations in sealed cover duly super scribing with our inquiry/Tender No. and due date on the outer cover so as to reach this Office on or before the due date of opening i.e. 24.01.2018 till 2.30 p.m. The same will be opened on the same day at 3.00 p. m.

Sl. No	Description	Quantity
1.	Audio visual system (Including cabling and installation) (Technical specification attached annexure)	1

TERMS & CONDITIONS

1. In case the prices quoted in foreign currency then the prices should be **F.O.B. GATEWAY AIRPORT** and the components of ~ air freight and insurance should be specified in the offer separately.
2. In case the prices quoted in Indian currency, then the prices should be **F.O.R., I.I.P., Dehradun.**
3. The taxes applicable should be specified separately, if need be.
4. In case of import, our standard mode of payment is through irrevocable Letter of Credit which shall be opened through State Bank of India, which has branches in all important cities of the world.
5. In case of Indian supply, payment will be released on bill basis.
6. Indian agents if any, the nature of service they will render and percentage of agency commission to be paid should be indicated.
7. As ours is a R&D organization, we are exempted from the payment of Excise Duty vide Govt. of India Notifcation **No.04-97/CE Dt.01/03/97.**
8. Please furnish full specifications and other information regarding manufacturers name, model, grade, packing, warranty etc., for items quoted alongwith illustrated Leaflets and drawing.
9. As far as possible quotation/tenders should be submitted duly typed. Overwriting, if any should be attested by the party. In case handwritten quotation is submitted there should not be any overwriting in rates. If there is any overwriting it should be attested by the party failing which tender will be rejected.
10. As per GOI, Ministry of Finance OM No.F.23(1)-E.II(A)/89 Dt.31/0889, all Indian Agents of Foreign supplier are required to be compulsorily registered/enlist with DGS&D should be enclosed with the tender. For more details please visit the DGS&D website <http://dgsnd.gov.in>.
11. Net/Gross weight of material should be specified.
12. Validity of offer should be for a period of 120 days.
13. Minimum/Maximum delivery period should be specified. (Not Later than 4 weeks). L.D. shall apply beyond this period.
14. **KINDLY MENTION THE NAME AND ADDRESSES OF THE CUSTOMERS YOU HAVE SUPPLIED THE ABOVE MENTIONED ITME/INSTRUMENT/EQUIPMENT.**
15. **The Indian agent of the foreign suppliers should be registered / Enlisted with DGS&D.** or submit documentary evidence of their application with DGS&D along with undertaking that their application has not been rejected.
16. The acceptance of quotations rests with Director, IIP who does not bind himself to accept the lowest offer and reserves the right to himself to reject or partially accept any or all the quotations without assigning any reason.

Yours sincerely,

Section Officer (S&P)/Stores & Purchase Officer

Annexure
Technical Specification

Lecture Hall

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|--|--|
| <p>1. Multimedia Projector with mounting kit</p> <p><i>Specifications:</i>
 Lumens
 Resolution
 Communication and input output ports
 Lamp power
 Contrast Ratio
 Lamp life
 Should be one of the reputed make Sony, Samsung, Phillips, Viewsonic, LG.</p> | <p>1 no</p> <p>4000 ANSI
 1024x768 (XGA)
 HDMI, VGA, RS232
 240 watts
 22000:1
 more than 3000hours</p> |
| <p>2. Projection Screen</p> <p><i>Specifications:</i>
 Size
 Operation</p> | <p>1 no</p> <p>8' x 6'
 motorized with remote</p> |
| <p>3. Wall Speakers</p> <p><i>Specifications:</i>
 Frequency Response
 Low impedance dynamic power
 Overload Protection
 Sensitivity (SPL 1 W @ 1 m)
 IP rating
 Calculated Maximum SPL @ 1 m,
 Nominal impedance
 Low impedance RMS power
 Should be from one of the reputed make Bose/ Bosch/Phillips/Apart.</p> | <p>04 Nos</p> <p>80 Hz – 20000Hz
 70 watts
 automatic reset
 89 dB
 64
 104 dB
 16 ohms
 50watts</p> |
| <p>4. Power amplifier</p> <p><i>Specifications:</i>
 Maximum Rated output Power
 Output speakers
 Line out
 Inputs

 Auxiliary input
 Control
 Signal-to-Noise Ratio,
 Frequency range
 Auxiliary line out for connecting booster amplifier
 Should be from one of the reputed make Bose/ Bosch/Studiomaster/Crown.</p> | <p>01 nos</p> <p>200 W
 min 4 Ω, 8 Ω, 16 Ω, 70v, 100v
 1v/600 Ω
 Four balanced mic/line inputs(combo jacks)
 XLR, balanced
 stereo summing, RCA, unbalanced
 Bass, Treble and master control
 > 92 dB
 50-15000Hz</p> |
| <p>5. Gooseneck Mic. for podium</p> <p><i>Specifications:</i>
 Frequency Response
 Connector
 Impedance
 Should be from one of the reputed make Bose/ Bosch/Studiomaster/Sennheiser</p> | <p>01 nos</p> <p>30 Hz - 20 kHz
 XLR
 200 Ω</p> |

- | | | |
|-----|---|---|
| 6. | UHF cordless hand mic. set
<i>Specifications:</i>
Frequency response
Output
Receiver
No. of microphones
No. of selectable UHF channels
Should be from one of the reputed make Bose/ Bosch/Studiomaster/Sennheiser | 01 nos

30 Hz – 15KHz
Balanced XLR/unbalanced ¼' jack
230+/- 10v 50Hz
02
08 |
| 7. | LED Monitor
<i>Specifications:</i>
Size
Resolution
Video i/p
Audio i/p o/p
Communication
Other connections
Speakers
Should be one of the reputed make Sony Samsung Phillips LG etc., | 02 nos

55 inch
1920x1080
HDMI,VGA,RCA
3.5mm jack
RS232
USB
Built In |
| 8. | HDMI and VGA splitter(1:4) | 01 nos |
| 9. | Swivel wall bracket for LED monitor | 02 nos |
| 10. | Cable manager for podium | 01 no |
| 11. | HDMI cable,VGA cable and power cable | 01 no with sufficient length |
| 12. | Installation,commissioning,laying of cables including patch cords, connectors miscellaneous cables are in the vendors scope only | |

Lecture Room 1

- | | | |
|---|---|---|
| 1 | Multimedia Projector with mounting kit
<i>Specifications:</i>
Lumens
Resolution
Communication and input output ports
Contrast Ratio
Lamp life
Should be one of the reputed make Sony,Samsung,Phillips,Viewsonic,LG. | 1 no

3300 ANSI
1024x768 (XGA)
HDMI, VGA, RS232
20000:1
more than 4000hours |
| 2 | Projection Screen
<i>Specifications:</i>
Size
Operation | 1 no

6' x 4'
motorized with remote |
| 3 | Wall Speakers
<i>Specifications:</i>
Frequency Response
Low impedance dynamic power
Overload Protection | 02 Nos

80 Hz – 20000Hz
70 watts
automatic reset |

Sensitivity (SPL 1 W @ 1 m)	89 dB
IP rating	64
Calculated Maximum SPL @ 1 m,	104 dB
Nominal impedance	16 ohms
Low impedance RMS power	50watts
Should be from one of the reputed make Bose/ Bosch/Phillips/Apart.	

4. Power amplifier - 01 nos
- Specifications:*
- | | |
|--|---|
| Maximum Rated output Power | 200 W |
| Output speakers | min 4 Ω, 8 Ω, 16 Ω, 70v, 100v |
| Line out | 1v/600 Ω |
| Inputs | Four balanced mic/line inputs(combo jacks)
XLR, balanced |
| Auxiliary input | stereo summing, RCA, unbalanced |
| Control | Bass, Treble and master control |
| Signal-to-Noise Ratio, | > 92 dB |
| Frequency range | 50-15000Hz |
| Auxiliary line out for connecting booster amplifier | |
| Should be from one of the reputed make Bose/ Bosch/Studiomaster/Crown. | |
5. Gooseneck Mic. for podium - 01 nos
- Specifications:*
- | | |
|--|----------------|
| Frequency Response | 30 Hz - 20 kHz |
| Connector | XLR |
| Impedance | 200 Ω |
| Should be from one of the reputed make Bose/ Bosch/Studiomaster/Sennheiser | |
6. UHF cordless hand mic. set 01 nos
- Specifications:*
- | | |
|--|---------------------------------|
| Frequency response | 30 Hz - 15KHz |
| Output | Balanced XLR/unbalanced ¼' jack |
| Receiver | 230+/- 10v 50Hz |
| No. of microphones | 02 |
| No. of selectable UHF channels | 08 |
| Should be from one of the reputed make Bose/ Bosch/Studiomaster/Sennheiser | |
7. HDMI and VGA splitter(1:4) 01 nos
8. Cable manager for podium 01 no
9. HDMI cable,VGA cable and power cable 01 no with sufficient length
10. Installation,commissioning,laying of cables including patch cords, connectors miscellaneous cables are in the vendors scope only

Lecture Room 2

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|--|---|
| <p>1 Multimedia Projector with mounting kit
 <i>Specifications:</i>
 Lumens
 Resolution
 Communication and input output ports
 Contrast Ratio
 Lamp life
 Should be one of the reputed make Sony, Samsung, Phillips, Viewsonic.</p> | <p>1 no
 3300 ANSI
 1024x768 (XGA)
 HDMI, VGA, RS232
 20000:1
 more than 4000hours</p> |
| <p>2 Projection Screen
 <i>Specifications:</i>
 Size
 Operation</p> | <p>1 no
 6' x 4'
 motorized with remote</p> |
| <p>3 Wall Speaker
 <i>Specifications:</i>
 Frequency Response
 Low impedance dynamic power
 Overload Protection
 Sensitivity (SPL 1 W @ 1 m)
 IP rating
 Calculated Maximum SPL @ 1 m,
 Nominal impedance
 Low impedance RMS power
 Should be from one of the reputed make Bose/ Bosch/Phillips/Apart.</p> | <p>02 Nos
 80 Hz – 20000Hz
 70 watts
 automatic reset
 89 dB
 64
 104 dB
 16 ohms
 50watts</p> |
| <p>4 Power amplifier
 <i>Specifications:</i>
 Maximum Rated output Power
 Output speakers
 Line out
 Inputs
 Auxiliary input
 Control
 Signal-to-Noise Ratio,
 Frequency range
 Auxiliary line out for connecting booster amplifier
 Should be from one of the reputed make Bose/ Bosch/Studiomaster/Crown.</p> | <p>01 nos
 200 W
 min 4 Ω, 8 Ω, 16 Ω, 70v, 100v
 1v/600 Ω
 Four balanced mic/line inputs(combo jacks)
 XLR, balanced
 stereo summing, RCA, unbalanced
 Bass, Treble and master control
 > 92 dB
 50-15000Hz</p> |
| <p>5 Gooseneck Mic. for podium
 <i>Specifications:</i>
 Frequency Response
 Connector
 Impedance
 Should be from one of the reputed make Bose/ Bosch/Studiomaster/Sennheiser</p> | <p>01 nos
 30 Hz - 20 kHz
 XLR
 200 Ω</p> |

- | | | |
|----|---|---|
| 6 | UHF cordless hand mic. set
<i>Specifications:</i>
Frequency response
Output
Receiver
No. of microphones
No. of selectable UHF channels
Should be from one of the reputed make Bose/ Bosch/Studiomaster/Sennheiser. | 01 nos

30 Hz – 15KHz
Balanced XLR/unbalanced ¼' jack
230+/- 10v 50Hz
02
08 |
| 7 | HDMI and VGA splitter(1:4) | 01 nos |
| 8 | Cable manager for podium | 01 no |
| 9 | HDMI cable,VGA cable and power cable | 01 no with sufficient length |
| 10 | Installation,commissioning,laying of cables including patch cords, connectors miscellaneous cables are in the vendors scope only | |

Conference Hall

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|----|--|---|
| 1. | Professional LED Monitor/Display
<i>Specifications:</i>
Size
Resolution
Video i/p
Audio i/p o/p
Communication
Other connections
Speakers
Should be one of the reputed make Sony,Samsung,Phillips.
Should be able to work with laptop | 01 nos

75 inch
3840x2160
HDMI,VGA,RCA
3.5mm jack and external speaker connector
RS232/LAN
USB
Built In |
| 2. | Lap top with latest configuration
Windows 10
I7 processor
2TB hardisk
8Gb RAM
Audio output
Mic input
HDMI and VGA O/P
Should be able to work with external LED display and projector. | 02 nos |
| 3. | Installation,commissioning,laying of cables including patch cords, connectors miscellaneous cables are in the vendors scope only | |


