



**CSIR-Indian Institute of Petroleum**  
(Council of Scientific & Industrial Research)

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**INVITATION OF TENDER**

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

Dt 25.01.2018

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. 15.02.2018 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 Notification 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**

- |    |  |   |
|----|--|---|
| 1. | <b>Multimedia Projector with mounting kit</b>                              | <b>1 no</b>   |
|    | <i>Specifications:</i>   |   |
|    | Lumens   | 4000 ANSI   |
|    | Resolution   | 1024x768 (XGA)  |
|    | Communication and input output ports                                       | HDMI, VGA, RS232                                      |
|    | Lamp power   | 240 watts   |
|    | Contrast Ratio   | 22000:1   |
|    | Lamp life  | more than 3000hours                                   |
|    | Should be one of the reputed make Sony,Samsung,Phillips,Viewsonic,LG.      |   |
| 2. | <b>Projection Screen</b>   | <b>1 no</b>   |
|    | <i>Specifications:</i>   |   |
|    | Size   | 8' x 6'   |
|    | Operation  | motorized with remote                                 |
| 3. | <b>Wall Speakers</b>   | <b>04 Nos</b>   |
|    | <i>Specifications:</i>   |   |
|    | Frequency Response   | 80 Hz – 20000Hz                                       |
|    | Low impedance dynamic power  | 70 watts  |
|    | Overload Protection  | 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. | <b>Power amplifier</b>   | <b>01 nos</b>   |
|    | <i>Specifications:</i>   |   |
|    | Maximum Rated output Power   | 200 W   |
|    | Output speakers  | min 4 $\Omega$ , 8 $\Omega$ , 16 $\Omega$ , 70v, 100v |
|    | Line out   | 1v/600 $\Omega$                                       |
|    | 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. | <b>Gooseneck Mic. for podium</b>   | <b>01 nos</b>   |
|    | <i>Specifications:</i>   |   |
|    | Frequency Response   | 30 Hz - 20 kHz  |
|    | Connector  | XLR   |
|    | Impedance  | 200 $\Omega$  |
|    | Should be from one of the reputed make Bose/ Bosch/Studiomaster/Sennheiser |   |

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|--|-----------------------------------|
| 6. UHF cordless hand mic. set  | 01 nos                            |
| <i>Specifications:</i>   |                                   |
| Frequency response   | 30 Hz – 15KHz                     |
| Output   | Balanced XLR/unbalanced 1/4' 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. LED Monitor   | 02 nos                            |
| <i>Specifications:</i>   |                                   |
| Size   | 55 inch                           |
| Resolution   | 1920x1080                         |
| Video i/p  | HDMI,VGA,RCA                      |
| Audio i/p o/p  | 3.5mm jack                        |
| Communication  | RS232                             |
| Other connections  | USB                               |
| Speakers   | Built In                          |
| Should be one of the reputed make Sony Samsung Phillips LG etc.,   |                                   |
| 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

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|---|-----------------------|
| 1 Multimedia Projector with mounting kit                              | 1 no                  |
| <i>Specifications:</i>  |                       |
| Lumens  | 3300 ANSI             |
| Resolution  | 1024x768 (XGA)        |
| Communication and input output ports                                  | HDMI, VGA, RS232      |
| Contrast Ratio  | 20000:1               |
| Lamp life   | more than 4000hours   |
| Should be one of the reputed make Sony,Samsung,Phillips,Viewsonic,LG. |                       |
| 2 Projection Screen   | 1 no                  |
| <i>Specifications:</i>  |                       |
| Size  | 6' x 4'               |
| Operation   | motorized with remote |
| 3 Wall Speakers   | 02 Nos                |
| <i>Specifications:</i>  |                       |
| Frequency Response  | 80 Hz – 20000Hz       |
| Low impedance dynamic power   | 70 watts              |
| Overload Protection   | automatic reset       |

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|--|---------|
| 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. |         |
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4. Power amplifier - 01 nos
 

<i>Specifications:</i>	
Maximum Rated output Power	200 W
Output speakers	min 4 $\Omega$ , 8 $\Omega$ , 16 $\Omega$ , 70v, 100v
Line out	1v/600 $\Omega$
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
 

<i>Specifications:</i>	
Frequency Response	30 Hz - 20 kHz
Connector	XLR
Impedance	200 $\Omega$
Should be from one of the reputed make Bose/ Bosch/Studiomaster/Sennheiser	
  
  6. UHF cordless hand mic. set 01 nos
 

<i>Specifications:</i>	
Frequency response	30 Hz - 15KHz
Output	Balanced XLR/unbalanced 1/4' 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><b>1 Multimedia Projector with mounting kit</b></p> <p><i>Specifications:</i><br/>           Lumens<br/>           Resolution<br/>           Communication and input output ports<br/>           Contrast Ratio<br/>           Lamp life<br/>           Should be one of the reputed make Sony, Samsung, Phillips, Viewsonic.</p>   | <p><b>1 no</b></p> <p>3300 ANSI<br/>           1024x768 (XGA)<br/>           HDMI, VGA, RS232<br/>           20000:1<br/>           more than 4000hours</p>   |
| <p><b>2 Projection Screen</b></p> <p><i>Specifications:</i><br/>           Size<br/>           Operation</p>   | <p><b>1 no</b></p> <p>6' x 4'<br/>           motorized with remote</p>  |
| <p><b>3 Wall Speaker</b></p> <p><i>Specifications:</i><br/>           Frequency Response<br/>           Low impedance dynamic power<br/>           Overload Protection<br/>           Sensitivity (SPL 1 W @ 1 m)<br/>           IP rating<br/>           Calculated Maximum SPL @ 1 m,<br/>           Nominal impedance<br/>           Low impedance RMS power<br/>           Should be from one of the reputed make Bose/ Bosch/Phillips/Apart.</p>                    | <p><b>02 Nos</b></p> <p>80 Hz – 20000Hz<br/>           70 watts<br/>           automatic reset<br/>           89 dB<br/>           64<br/>           104 dB<br/>           16 ohms<br/>           50watts</p>   |
| <p><b>4 Power amplifier</b></p> <p><i>Specifications:</i><br/>           Maximum Rated output Power<br/>           Output speakers<br/>           Line out<br/>           Inputs<br/>           Auxiliary input<br/>           Control<br/>           Signal-to-Noise Ratio,<br/>           Frequency range<br/>           Auxiliary line out for connecting booster amplifier<br/>           Should be from one of the reputed make Bose/ Bosch/Studiomaster/Crown.</p> | <p><b>01 nos</b></p> <p>200 W<br/>           min 4 <math>\Omega</math>, 8 <math>\Omega</math>, 16 <math>\Omega</math>, 70v, 100v<br/>           1v/600 <math>\Omega</math><br/>           Four balanced mic/line inputs(combo jacks)<br/>           XLR, balanced<br/>           stereo summing, RCA, unbalanced<br/>           Bass, Treble and master control<br/>           &gt; 92 dB<br/>           50-15000Hz</p> |
| <p><b>5 Gooseneck Mic. for podium</b></p> <p><i>Specifications:</i><br/>           Frequency Response<br/>           Connector<br/>           Impedance<br/>           Should be from one of the reputed make Bose/ Bosch/Studiomaster/Sennheiser</p>  | <p><b>01 nos</b></p> <p>30 Hz - 20 kHz<br/>           XLR<br/>           200 <math>\Omega</math></p>  |

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|----|---|---|
| 6  | UHF cordless hand mic. set<br><i>Specifications:</i><br>Frequency response<br>Output<br>Receiver<br>No. of microphones<br>No. of selectable UHF channels<br>Should be from one of the reputed make Bose/ Bosch/Studiomaster/Sennheiser. | 01 nos<br><br>30 Hz – 15KHz<br>Balanced XLR/unbalanced ¼' jack<br>230+/- 10v 50Hz<br>02<br>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<br><i>Specifications:</i><br>Size<br>Resolution<br>Video i/p<br>Audio i/p o/p<br>Communication<br>Other connections<br>Speakers<br>Should be one of the reputed make Sony,Samsung,Phillips.<br>Should be able to work with laptop | 01 nos<br><br>75 inch<br>3840x2160<br>HDMI,VGA,RCA<br>3.5mm jack and external speaker connector<br>RS232/LAN<br>USB<br>Built In |
| 2. | Lap top with latest configuration<br>Widows 10<br>I7 processor<br>2TB hardisk<br>8Gb RAM<br>Audio output<br>Mic input<br>HDMI and VGA O/P<br>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   |   |

