

**Tender for Procurement of Audio Visual  
System for Conference Hall, BHEL House,  
New Delhi**



**Bharat Heavy Electricals Limited**  
**BHEL House, Siri Fort, New Delhi-110049**  
**Tel:011-66337405, Fax:011-66337428**



# **Bharat Heavy Electricals Ltd.**

**Corporate Administration**

**BHEL House, Siri Fort, New Delhi-49**

Ref: AA:GAX:10:AC:101

Date: 01.02.2011

**Last date of submission of tender – 14:00 Hrs. on 15.02.2011**  
**Due date for opening of tender –15:00 Hrs. on 15.02.2011**

## **Sub: Tender for Supply, Installation, Testing & Commissioning of Audio Visual System at 2<sup>nd</sup> Floor Conference Hall in BHEL House, Siri Fort, New Delhi**

Your most competitive bid is invited in sealed cover for the subject tender. The terms & conditions of the tender are mentioned below:

### **1.0 TERMS & CONDITIONS OF TENDER**

1.1 The bill of quantities (BOQ) of items required is mentioned in **Annexure–IV**. The material to be supplied should be of makes mentioned in **Annexure–II**.

1.2 The Audio Visual System is to be installed in the Conference Hall on 2<sup>nd</sup> Floor of BHEL House, Siri Fort, New Delhi.

1.3 The material is being procured on outright purchase basis.

### **1.4 Pre-qualification criteria for the tenderers:**

- a) The tenderer should have an average annual turnover of Rs.13 Lakhs during last three financial years ending on 31.03.2010.
- b) The tenderer should have successfully completed Audio Visual System Integration work/s (comprising of Supply, installation, testing & commissioning of Boundary layer microphones, DSP Mixer, LCD Monitor & Wi-fi touch panel based control system) of following value, during last 7 years ending on 31.12.10:
  - i) At least one worth Rs.34 Lakhs; **or**
  - ii) At least two worth Rs.21 Lakhs each; **or**
  - iii) At least three worth Rs.17 Lakhs each

- 1.5 All materials should be as per applicable Indian standards. Only brand new material should be supplied.
- 1.6 The tenders should be strictly in accordance with the terms & conditions, mentioned herein; otherwise they are liable to be rejected.
- 1.7 BHEL reserves the right to increase/ decrease the item quantities by 15%.
- 1.8 The prices should be quoted in the price bid format **Annexure-I** (enclosed). If the prices are quoted in any other form then the bid is liable to be rejected.
- 1.9 Unit rate to be quoted for items in Part-A (refer Annexure-I) should be inclusive of all taxes and duties. Unit rate to be quoted for items in Part-B & C (refer Annexure-I) should be inclusive of all taxes and duties, except Service Tax. Service Tax shall be payable extra at applicable rate for these items.
- 1.10 The unit rate should be quoted on FOR BHEL House, Siri Fort, New Delhi and should be inclusive of the charges for packing & forwarding, freight & insurance, loading & unloading.
- 1.11 The offer should remain valid for a period of at least 60 days from due date of the tender. The prices quoted shall remain firm during the validity of the offer.
- 1.12 The unit rate of item in Part-C (AMC) shall remain firm for a period of 4 years starting from date of expiry of warranty period and no escalation shall be permissible.
- 1.13 **Evaluation Price:** The tenderer, quoting the lowest 'Total Package Price' (excluding service tax), shall be L1. Normally, contract shall be awarded to the L1 tenderer at lowest price (Refer Price Bid Format **Annexure-I**).
- 1.14 Each tenderer shall have to deposit EMD of Rs.1,00,000.00 (One Lakh only) for this tender and the same will be in the form of Pay Order or Demand Draft only, in favour of BHEL, payable at New Delhi. EMD submitted by way of cheque will not be accepted & tender(s) submitted without EMD will be rejected. EMD submitted by tenderer will be forfeited if tenderer revokes his tender or increases his prices. EMD of all tenderers will be returned within fifteen days from date of acceptance of order by the successful tenderer.
- 1.15 The successful tenderer should submit security deposit cum performance bank guarantee from any scheduled bank as per the prescribed format within 7 days from the date of placement of order; otherwise the order may be cancelled.

The amount of the bank guarantee to be submitted is Rs.3,50,000.00 and it should be valid for a period of five years.

- 1.16 Supply of the Audio Visual System should be completed in all respects within six weeks from date of issue of Purchase Order. Otherwise, penalty charges shall be

imposed for delayed delivery @ half percent per week or part thereof and subject to a maximum of 10% of the sub-total amount for Part-A (Refer Price Bid Format Annexure-I). Installation & testing should be completed in all respects within ten weeks from date of issue of Purchase Order.

- 1.17 "Acceptance Testing" will be undertaken by BHEL on completion of installation. The Audio Visual System will be deemed to have been commissioned after successful acceptance testing. BHEL will complete the acceptance testing within 7 days from the date the successful tenderer offers the system for the same.
- 1.18 90% payment for items in Part-A (i.e., item nos. 1 - 26) will be made within 15 days from the date of receipt of material in good condition. Balance 10% payment for Part-A items will be made within 15 days from the date of commissioning.
- 1.19 100% payment for Part-B items will be made within 15 days from the date of commissioning.
- 1.20 After expiry of warranty period, payment for Part-C ( i.e. item no. 53) will be made quarterly in arrears.
- 1.21 No advance payment shall be made by BHEL.
- 1.22 The successful tenderer shall have to work out the exact quantities of material required as per detailed drawing. Please note that the payment shall be made on the basis of the actual quantity of items consumed at unit rates quoted.
- 1.23 The following work shall be undertaken by the successful tenderer, if required, at no extra cost:
  - a) Cutting of conference table & fixing of cable managers.
  - b) Mounting of equipments in the equipment rack.
  - c) Termination of cables and through connectors.
  - d) Ceiling / wall / floor chiseling for laying conduits, etc.
- 1.24 The successful tenderer should insure the material at his own cost and any loss or damage to the material, during handling, transportation; storage, etc up till commissioning shall be to the account of the successful tenderer.
- 1.25 The Audio Visual System shall remain under on-site warranty for a period of one year from the date of commissioning.
- 1.26 After the expiry of warranty period, the successful tenderer shall have to maintain the supplied equipments under a comprehensive maintenance contract. This contract for the first four years after expiry of warranty period shall be awarded to the successful tenderer at the rate quoted in the price bid. During this period, no amount shall be paid on account of any maintenance, spare parts, etc. The terms and conditions of AMC are specified in **Annexure- V**.

- 1.27 BHEL reserves the right to accept or reject any of the bid / all bids with or without deviation or cancel / withdraw the invitation for bid without assigning any reason whatsoever and in such case no tenderer shall have any claim arising out of such action by BHEL.

## **2.0 PROCEDURE FOR SUBMISSION OF SEALED TENDERS**

2.1 The offer is to be submitted as required in two parts. **First sealed envelope** should prominently be super-scribed as "Part-1 Techno-commercial Bid of tender for Supply, Installation, Testing & Commissioning of Audio Visual System at 2<sup>nd</sup> Floor Conference Hall in BHEL House, Siri Fort, New Delhi, due on \_\_\_\_". Envelope of Part-1 "Techno-commercial Bid" should contain following documents:

- a) Copy of Audited Balance sheet for three financial years ending on 31.03.2010 in support of Pre qualification criterion {Para 1.4 a} }
- b) Copy of Completion Certificate in support of Pre qualification criterion{Para 1.4 b)}
- c) Un-priced price bid i.e., price bid format (**Annexure – I**) with "Q" written in place of prices.
- d) **Annexure-II** duly filled along with Technical brochures of the model offered.
- e) Compliance statement for Terms & Conditions as per Annexure-III
- f) Declaration as per Annexure V
- g) Acceptance / Deviation Certificate as per Annexure VI.
- h) Covering letter giving index interlinking all the documents with all pages signed & stamped.

**Second sealed envelope** should prominently be super-scribed as "Part-2 Price Bid of tender for Supply, Installation, Testing & Commissioning of Audio Visual System at 2<sup>nd</sup> Floor Conference Hall in BHEL House, Siri Fort, New Delhi, due on \_\_\_\_". Envelope of Part-2 "Price Bid" should contain prices duly quoted in the Price bid format (**Annexure-I**) only. The price bid should not contain any terms & conditions. All terms & conditions should be mentioned only in Part-1 "Techno-commercial Bid". Terms & conditions mentioned in the price bid shall be ignored.

The **third envelope** shall contain required amount of EMD and should be superscribed as "EMD for tender for Supply, Installation, Testing & commissioning of Audio Visual System at 2<sup>nd</sup> Floor Conference Hall in BHEL House, Siri Fort, New Delhi, due on \_\_\_\_". These three envelopes should be put together in sealed cover and should be superscribed as "Tender for Supply, Installation, Testing & Commissioning of Audio Visual System at 2<sup>nd</sup> Floor Conference Hall in BHEL House, Siri Fort, New Delhi, due on \_\_\_\_".

- 2.2 Techno – commercial bid of tender shall be opened on the due date and time as mentioned above in the presence of tenderers or their authorized representatives who may like to be present.

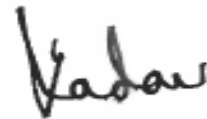
- 2.3 Techno – commercial bids will be evaluated first. The price bid of only those tenderers, who qualify the evaluation of techno - commercial bids, shall be opened. Date of opening of Price Bid will be intimated separately to the Tenderers who qualify in the Techno - commercial bid evaluation. **BHEL, however, reserves the right to opt for reverse auction (online bidding) instead of opening of sealed price bids, for determining the lowest tenderer. The reverse auction will be undertaken as per BHEL guidelines which will be sent to the techno-commercially qualified tenderers before the event.**
- 2.4 The tenderers are required to quote for all the items & no column should be left blank. Tenders for part supply or incomplete in any respect, are liable to be rejected.

The tender(s) should reach the under mentioned on or before the due date mentioned above. BHEL will not be responsible for delay in receipt of tender(s), sent by post / courier. In case you have any queries regarding the above tender then the same should be sent via email to the undersigned within one week from the date of advertisement of NIT.

Rajan Yadav  
Manager (HR-GAX)  
Bharat Heavy Electricals Limited  
Corporate Administration  
BHEL House, Siri Fort, New Delhi – 110049.

Phone No.: 011 – 66337405  
Mobile No.: 9810506306  
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E-mail: [admry@bhel.in](mailto:admry@bhel.in)

For & on behalf of  
Bharat Heavy Electricals Ltd.



(Rajan Yadav)  
Manager (HR-GAX)

Enclosures: As above

**Annexure – I**

**Price bid format for the Tender for SITC of Audio Visual System at 2<sup>nd</sup> Floor Conference Hall in BHEL House, Siri Fort, New Delhi**

SN	Description	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
<b>Part-A</b>					
1	Supply of Microprocessor controlled boundary layer microphone with semi cardioid polar pattern, with RF shielding, voice activation, LED-indicator, 60 to 20000 Hz frequency response.	35	Nos.		
2	Supply of UHF Wireless Lapel/collar microphone	2	Nos.		
3	Supply of UHF Wireless Handheld dynamic supercardioid microphone	2	Nos.		
4	Supply of DSP Mixer with 44 Inputs - AEC / Noise canceller / Feedback reduction w/Auto Mic Mixing and Matrix Mixer Input and 12 line outputs with 2 channel Telephone (PSTN) Interface	1	Set		
5	Supply of PC Based professional audio Recording software	1	No.		
6	Supply of Mechanical constant beam width line array wall mounted speakers with 16 nos. 2"full range drivers, 15 to 40 degree of switchable coverage pattern, frequency response of 80 Hz-20 Khz (-10dB) , 121 dB Avg. SPL, 325 watts rms power with 8 ohms impedance for cover upto 20 meters throw	2	Nos.		
7	Supply of Stereo Class D Power Amplifier, dual channel, 375 watts @ 8 ohms per channel output	1	No.		
8	Supply of 22 AWG Microphone 4 core Cable with 2 wires shielded, 2 control lines, overall shield.	1200	RM		
9	Supply of Connectors	1	Set		
10	Supply of DTH Cable TV Box	1	No.		
11	Supply of Progressive Scan DVD Player with S-Video/Component Video/ HDMI output	1	No.		

12	Supply of Fixed Ceiling mount for projector as per site requirement to take upto 15 Kg of load with 3 axis adjustment.	1	No.		
13	Supply of Motorized projection screen with Native 16:10 aspect ratio. Picture size 65" x 104" with 123" diagonal	1	No.		
14	Supply of Full HD LCD Monitor, diagonal size minimum 70 inch.	1	No.		
15	Supply of 12 x 8 Input VGA switcher with audio	1	No.		
16	Supply of Hide Away surface enclosure type cable cubby with female 15-pin HD connector and 3.5 mm mini stereo audio jack, Composite Video Input, Two CAT 6 RJ-45 network/data/phone connectors; unswitched AC outlet, Black color, CE compliant	5	Nos.		
17	Supply of 12' moulded VGA cable with audio	5	Nos.		
18	Supply of RGBHV cable	350	RM		
19	Supply of RG59 Video cable	150	RM		
20	Supply of S-Video Video cable	25	RM		
21	Supply of CAT6 Cable	400	RM		
22	Supply of 42U Equipment Rack with all required accessories, caster wheel, Front perforated door, Cooling fan, Dual Power strips (16 socket on each side), earthing kit, KVM switch with 16 ports & cables alongwith rack mountable 17 inch LCD Monitor with integrated mouse & key board, 2 nos. of mounting kit, 4 nos. of rack tray, etc.	1	No.		
23	Supply of MS conduit 25 mm dia	5	No.		
24	Supply of PVC conduit 32 mm dia, 2mm thick	5	RM		
25	Supply of Ethernet enabled Control processor, 7 x RS232, 8 x IR, 8 x Relay complete with 5.7" Wi-Fi touch panel , docking station cum charger and all necessary accessories to complete the control system alongwith compatible wifi access point, high voltage relay controller,etc	1	No.		

26	Supply of Desktop PC with 15" TFT monitor Core 3 processor, DVD Writer, LAN Card, 4 x USB, 320 GB HDD, 3 GB RAM	1	No.		
<b>Sub-Total (Part-A) = Rs.</b>					

<b>Part-B</b>					
27	Installation, testing & Commissioning of Microprocessor controlled boundary layer microphone with semi cardioid polar pattern, with RF shielding, voice activation, LED-indicator, 60 to 20000 Hz frequency response.	35	Nos.		
28	Installation, testing & Commissioning of UHF Wireless Lapel/collar microphone	2	Nos.		
29	Installation, testing & Commissioning of UHF Wireless Handheld dynamic supercardioid microphone	2	Nos.		
30	Installation, testing & Commissioning of DSP Mixer with 44 Inputs - AEC / Noise canceller / Feedback reduction w/Auto Mic Mixing and Matrix Mixer Input and 12 line outputs with 2 channel Telephone (PSTN) Interface	1	Set		
31	Installation, testing & Commissioning of PC Based professional audio Recording software	1	No.		
32	Installation, testing & Commissioning of Mechanical constant beam width line array wall mounted speakers with 16 nos. 2"full range drivers, 15 to 40 degree of switchable coverage pattern, frequency response of 80 Hz-20 Khz (-10dB) , 121 dB Avg. SPL, 325 watts rms power with 8 ohms impedance for cover upto 20 meters throw	2	Nos.		
33	Installation, testing & Commissioning of Stereo Class D Power Amplifier, dual channel, 375 watts @ 8 ohms per channel output	1	No.		

34	Laying of 22 AWG Microphone 4 core Cable with 2 wires shielded, 2 control lines, overall shield, through existing conduits	1200	RM		
35	Fixing of Connectors	1	Set		
36	Installation, testing & Commissioning of DTH Cable TV Box	1	No.		
37	Installation, testing & Commissioning of Progressive Scan DVD Player with S-Video/Component Video/ HDMI output	1	No.		
38	Installation, testing & Commissioning of Fixed Ceiling mount for projector as per site requirement to take upto 15 Kg of load with 3 axis adjustment.	1	No.		
39	Installation, testing & Commissioning of Motorized projection screen with Native 16:10 aspect ratio. Picture size 65" x 104" with 123" diagonal	1	No.		
40	Installation, testing & Commissioning of Full HD LCD Monitor, diagonal size minimum 70 inch.	1	No.		
41	Installation, testing & Commissioning of 12 x 8 Input VGA switcher with audio	1	No.		
42	Installation, testing & Commissioning of Hide Away surface enclosure type cable cubby with female 15-pin HD connector and 3.5 mm mini stereo audio jack, Composite Video Input, Two CAT 6 RJ-45 network/data/phone connectors; unswitched AC outlet, Black color, CE compliant	5	Nos.		
43	Laying of 12' moulded VGA cable with audio	5	Nos.		
44	Laying of RGBHV cable	350	RM		
45	Laying of RG59 Video cable	150	RM		
46	Laying of S-Video Video cable	25	RM		
47	Laying of CAT6 Cable	400	RM		

48	Installation, testing & Commissioning of 42U Equipment Rack with all required accessories, caster wheel, Front perforated door, Cooling fan, Dual Power strips (16 socket on each side), earthing kit, KVM switch with 16 ports & cables alongwith rack mountable 17 inch LCD Monitor with integrated mouse & key board, 2 nos. of mounting kit, 4 nos. of rack tray, etc.	1	No.		
49	Laying of MS conduit 25 mm dia	5	No.		
50	Laying of PVC conduit 32 mm dia, 2mm thick	5	RM		
51	Installation, testing & Commissioning of Ethernet enabled Control processor, 7 x RS232, 8 x IR, 8 x Relay complete with 5.7" Wi-Fi touch panel , docking station cum charger and all necessary accessories to complete the control system alongwith compatible wifi access point, high voltage relay controller,etc	1	No.		
52	Installation, testing & Commissioning of Desktop PC with 15" TFT monitor Core 3 processor, DVD Writer, LAN Card, 4 x USB, 320 GB HDD, 3 GB RAM	1	No.		
<b>Sub-Total (Part-B)= Rs.</b>					
<b>Part-C</b>					
53	Comprehensive maintenance charges for the complete system (including all the items listed above) as per tender terms and conditions	1	Job		
<b>Sub-Total (Part-C)= Rs.</b>					
<b>Total Package Price (Part-A + B + C)= Rs.</b>					

**Note:-**

1. The unit rate to be quoted for item No. 53 should be the maintenance charges per year. And the Amount is the cost for maintaining it for a period of 4 years is {Maintenance charges per annum x 4 (years)}.
2. Unit rate to be quoted for items in Part-A should be inclusive of all taxes and duties.
3. Unit rate to be quoted for items in Part-B & C should be inclusive of all taxes and duties, except Service Tax. Service Tax shall be payable extra at applicable rate, for these item.

**Annexure – II****List of Makes**

SN	Item	Make of Item Required	Make of Item Offered	Model of Item Offered
1	Boundary layer microphones	Beyerdynamic / Shure		
2	UHF Wireless microphone	Beyerdynamic / Shure		
3	DSP Mixer	Clearone / Biamp / Polycom		
4	Lline array speakers	Tannoy / Renkus-Heinz		
5	Power Amplifier	Crestaudio / Lab Gruppen		
6	Microphone Cable	Extron / Belden		
7	Connectors	Neutrik / Extron		
8	DVD Player	Sony / Panasonic / Pioneer		
9	Motorized projection screen	Draper / Da-Lite		
10	LCD Monitor	Samsung / Sharp / NEC		
11	VGA switcher	Extron / AMX		
12	Cable cubby	Extron / AMX		
13	VGA cable	Extron / Kramer / Belden		
14	RGBHV cable	Extron / Kramer / Belden		
15	RG59 Video cable	Extron / Kramer / Belden		
16	S-Video Video cable	Extron / Kramer / Belden		
17	CAT6 Cable	Panduit / Avaya		
18	Equipment Rack	IBM / HP		

19	Conduit	AKG / BEC		
20	Wi-Fi touch control panel	AMX / Crestron		
21	Desktop PC	HP / DELL / IBM		

Annexure – III

Tender for SITC of Audio Visual System at 2<sup>nd</sup> Floor Conference Hall in BHEL House, Siri Fort, New Delhi

Compliance Statement for Terms and Conditions

<b>Para No.</b>	<b>Complied (Yes/No)</b>	<b>Deviations (if any)</b>
1.1		
1.3		
1.4		
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**Annexure – IV**

**Tender for SITC of Audio Visual System at 2<sup>nd</sup> Floor Conference Hall in  
BHEL House, Siri Fort, New Delhi**

**Bill Of Quantities**

SN	Description	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
<b>Part-A</b>					
1	Supply of Microprocessor controlled boundary layer microphone with semi cardioid polar pattern, with RF shielding, voice activation, LED-indicator, 60 to 20000 Hz frequency response.	35	Nos.		
2	Supply of UHF Wireless Lapel/collar microphone	2	Nos.		
3	Supply of UHF Wireless Handheld dynamic supercardioid microphone	2	Nos.		
4	Supply of DSP Mixer with 44 Inputs - AEC / Noise canceller / Feedback reduction w/Auto Mic Mixing and Matrix Mixer Input and 12 line outputs with 2 channel Telephone (PSTN) Interface	1	Set		
5	Supply of PC Based professional audio Recording software	1	No.		
6	Supply of Mechanical constant beam width line array wall mounted speakers with 16 nos. 2"full range drivers, 15 to 40 degree of switchable coverage pattern, frequency response of 80 Hz-20 Khz (-10dB) , 121 dB Avg. SPL, 325 watts rms power with 8 ohms impedance for cover upto 20 meters throw	2	Nos.		
7	Supply of Stereo Class D Power Amplifier, dual channel, 375 watts @ 8 ohms per channel output	1	No.		
8	Supply of 22 AWG Microphone 4 core Cable with 2 wires shielded, 2 control lines, overall shield.	1200	RM		
9	Supply of Connectors	1	Set		
10	Supply of DTH Cable TV Box	1	No.		
11	Supply of Progressive Scan DVD Player with S-Video/Component Video/ HDMI output	1	No.		

12	Supply of Fixed Ceiling mount for projector as per site requirement to take upto 15 Kg of load with 3 axis adjustment.	1	No.		
13	Supply of Motorized projection screen with Native 16:10 aspect ratio. Picture size 65" x 104" with 123" diagonal	1	No.		
14	Supply of Full HD LCD Monitor, diagonal size minimum 70 inch.	1	No.		
15	Supply of 12 x 8 Input VGA switcher with audio	1	No.		
16	Supply of Hide Away surface enclosure type cable cubby with female 15-pin HD connector and 3.5 mm mini stereo audio jack, Composite Video Input, Two CAT 6 RJ-45 network/data/phone connectors; unswitched AC outlet, Black color, CE compliant	5	Nos.		
17	Supply of 12' moulded VGA cable with audio	5	Nos.		
18	Supply of RGBHV cable	350	RM		
19	Supply of RG59 Video cable	150	RM		
20	Supply of S-Video Video cable	25	RM		
21	Supply of CAT6 Cable	400	RM		
22	Supply of 42U Equipment Rack with all required accessories, caster wheel, Front perforated door, Cooling fan, Dual Power strips (16 socket on each side), earthing kit, KVM switch with 16 ports & cables alongwith rack mountable 17 inch LCD Monitor with integrated mouse & key board, 2 nos. of mounting kit, 4 nos. of rack tray, etc.	1	No.		
23	Supply of MS conduit 25 mm dia	5	No.		
24	Supply of PVC conduit 32 mm dia, 2mm thick	5	RM		
25	Supply of Ethernet enabled Control processor, 7 x RS232, 8 x IR, 8 x Relay complete with 5.7" Wi-Fi touch panel , docking station cum charger and all necessary accessories to complete the control system alongwith compatible wifi access point, high voltage relay controller,etc	1	No.		

26	Supply of Desktop PC with 15" TFT monitor Core 3 processor, DVD Writer, LAN Card, 4 x USB, 320 GB HDD, 3 GB RAM	1	No.		
<b>Sub-Total (Part-A) = Rs.</b>					

<b>Part-B</b>					
27	Installation, testing & Commissioning of Microprocessor controlled boundary layer microphone with semi cardioid polar pattern, with RF shielding, voice activation, LED- indicator, 60 to 20000 Hz frequency response.	35	Nos.		
28	Installation, testing & Commissioning of UHF Wireless Lapel/collar microphone	2	Nos.		
29	Installation, testing & Commissioning of UHF Wireless Handheld dynamic supercardioid microphone	2	Nos.		
30	Installation, testing & Commissioning of DSP Mixer with 44 Inputs - AEC / Noise canceller / Feedback reduction w/Auto Mic Mixing and Matrix Mixer Input and 12 line outputs with 2 channel Telephone (PSTN) Interface	1	Set		
31	Installation, testing & Commissioning of PC Based professional audio Recording software	1	No.		
32	Installation, testing & Commissioning of Mechanical constant beam width line array wall mounted speakers with 16 nos. 2"full range drivers, 15 to 40 degree of switchable coverage pattern, frequency response of 80 Hz-20 Khz (-10dB) , 121 dB Avg. SPL, 325 watts rms power with 8 ohms impedance for cover upto 20 meters throw	2	Nos.		
33	Installation, testing & Commissioning of Stereo Class D Power Amplifier, dual channel, 375 watts @ 8 ohms per channel output	1	No.		

34	Laying of 22 AWG Microphone 4 core Cable with 2 wires shielded, 2 control lines, overall shield, through existing conduits	1200	RM		
35	Fixing of Connectors	1	Set		
36	Installation, testing & Commissioning of DTH Cable TV Box	1	No.		
37	Installation, testing & Commissioning of Progressive Scan DVD Player with S-Video/Component Video/ HDMI output	1	No.		
38	Installation, testing & Commissioning of Fixed Ceiling mount for projector as per site requirement to take upto 15 Kg of load with 3 axis adjustment.	1	No.		
39	Installation, testing & Commissioning of Motorized projection screen with Native 16:10 aspect ratio. Picture size 65" x 104" with 123" diagonal	1	No.		
40	Installation, testing & Commissioning of Full HD LCD Monitor, diagonal size minimum 70 inch.	1	No.		
41	Installation, testing & Commissioning of 12 x 8 Input VGA switcher with audio	1	No.		
42	Installation, testing & Commissioning of Hide Away surface enclosure type cable cubby with female 15-pin HD connector and 3.5 mm mini stereo audio jack, Composite Video Input, Two CAT 6 RJ-45 network/data/phone connectors; unswitched AC outlet, Black color, CE compliant	5	Nos.		
43	Laying of 12' moulded VGA cable with audio	5	Nos.		
44	Laying of RGBHV cable	350	RM		
45	Laying of RG59 Video cable	150	RM		
46	Laying of S-Video Video cable	25	RM		
47	Laying of CAT6 Cable	400	RM		

48	Installation, testing & Commissioning of 42U Equipment Rack with all required accessories, caster wheel, Front perforated door, Cooling fan, Dual Power strips (16 socket on each side), earthing kit, KVM switch with 16 ports & cables alongwith rack mountable 17 inch LCD Monitor with integrated mouse & key board, 2 nos. of mounting kit, 4 nos. of rack tray, etc.	1	No.		
49	Laying of MS conduit 25 mm dia	5	No.		
50	Laying of PVC conduit 32 mm dia, 2mm thick	5	RM		
51	Installation, testing & Commissioning of Ethernet enabled Control processor, 7 x RS232, 8 x IR, 8 x Relay complete with 5.7" Wi-Fi touch panel , docking station cum charger and all necessary accessories to complete the control system alongwith compatible wifi access point, high voltage relay controller,etc	1	No.		
52	Installation, testing & Commissioning of Desktop PC with 15" TFT monitor Core 3 processor, DVD Writer, LAN Card, 4 x USB, 320 GB HDD, 3 GB RAM	1	No.		
<b>Sub-Total (Part-B)= Rs.</b>					
<b>Part-C</b>					
53	Comprehensive maintenance charges for the complete system (including all the items listed above) as per tender terms and conditions	1	Job		
<b>Sub-Total (Part-C)= Rs.</b>					
<b>Total Package Price I (Part-A + B + C)= Rs.</b>					

**Annexure – V**

**Tender for SITC of Audio Visual System at 2<sup>nd</sup> Floor Conference Hall in  
BHEL House, Siri Fort, New Delhi**

**Terms and Conditions of AMC**

**Preventive maintenance:**

1. Service of the complete Audio Visual system should be undertaken at least once every quarter.

**Breakdown maintenance:**

2. The remedial or breakdown maintenance shall have to be undertaken as and when complaint is lodged over telephone. All complaints should be attended within 48 hours from the time of their lodgment.
3. Spare parts required for maintenance should be provided at no extra cost.

**Tender for SITC of Audio Visual System at 2<sup>nd</sup> Floor Conference Hall in  
BHEL House, Siri Fort, New Delhi**

**Declaration**

We hereby declare that we have not been banned or de-listed by any PSU / Government Department / Financial Institution / Court.

Authorized signatory  
(With seal)

Annexure – VII

**Tender for SITC of Audio Visual System at 2<sup>nd</sup> Floor Conference Hall in  
BHEL House, Siri Fort, New Delhi**

**Acceptance / Deviation Certificate**

Notwithstanding anything mentioned in our bid, we hereby accept all the terms and conditions of this tender. We hereby undertake and confirm that we have understood the terms and conditions as mentioned in this tender enquiry.

Authorized signatory  
(With seal)