



कार्यालय प्राचार्य शासकीय कन्या पॉलीटेक्निक  
बैरनबाजार, रायपुर (छ0ग0)

Web Site:- <http://ggpraipur.ac.in>

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क्रमांक / शाकपौरा / स्टोर / निविदा-1 / 2015-16 / 1624

रायपुर, दिनांक 07/01/16

शासकीय कन्या पॉलीटेक्निक रायपुर में केन्द्र प्रवर्तित योजनान्तर्गत प्रयोगशाला के उन्नयन हेतु अपग्रेडेशन ऑफ पॉलीटेक्निक स्कीम के तहत आडियो-विजुअल उपकरण/इलेक्ट्रानिक उपकरण आदि सामाग्री क्रय की जानी है। जिसकी अनुमानित मूल्य रू. 40 लाख (रू. चालीस लाख मात्र) है। इच्छुक निविदाकर्ता अपनी निविदा दिनांक 07/01/2016 समय 2.00 बजे तक निर्धारित प्रपत्र में तथा सीलबंद लिफाफा में प्रस्तुत करें। विज्ञापन की विस्तृत जानकारी के लिए संस्था के वेबसाईट **Web Site:- <http://ggpraipur.ac.in>** का अवलोकन करे। संस्था से सीधे निविदा प्रपत्र राशि रू. 3,000/- (रू. तीन हजार मात्र) नगद द्वारा कार्यालयीन समय में लेखा शाखा से क्रय किया जा सकता है। तथा वेबसाईट से निविदा प्रपत्र डाऊनलोड करने पर निविदा प्रपत्र की राशि रू. 3,000/- (रू. तीन हजार रुपये मात्र) का प्राचार्य के नाम डिमांड ड्राफ्ट के रूप में निविदा के साथ जमा करना अनिवार्य होगा।

  
प्राचार्य

शास.कन्या पॉली. रायपुर



**OFFICE OF THE PRINCIPAL**

**Government Girls polytechnic, Bayron Bazar, Raipur (CG) – 492001**

Phone 0771-2423045 Fax 0771-2424778 Website: <http://www.ggpuraipur.ac.in>

No.GGPR./ UPGRADATION / EQUIP / TENDER-01 / 2015-16 / \_\_\_\_\_ Raipur, Dt.: 05.12.2015

**TENDER NOTICE – 01 / 2015**

**Last date for Receiving sealed tender : 07-01-2016 up-to 02.00 P.M**  
**Date and time of opening the tender : 07-01-2016 at 03.00 P.M**  
**Rate Of Tender Form : Rs. 3,000.00 (Rs One Thousand only ) Each**

Sealed Tender-bids are invited from the intended bidders for supply of Goods / Machineries / Equipment for various departments of the institute, by the Principal, Govt. Girl's Polytechnic, Raipur- 492001.

Tender should be submitted as per following guideline.:-

**Tender will be submitted in four sealed envelope A, B, C and D as mentioned below envelope**

**(A)** Envelope 'A' shall contain

- I. EMD
- II. Registration Certificate issued by Commercial Tax Department mentioning such equipment supplier
- III. Income Tax Clearance

**(B)** Envelope 'B' shall contain

- I. Technical Bid as per Annexure-I.II. Technical Literature and Original Leaflets of equipments offered.
- II. Authorized dealer/Manufacturer certificate for the items offered as per Annexure-I ,II ,III
- III. Undertaking of fulfillment of all condition

**(C)** Envelope 'C' shall contain

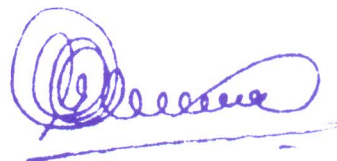
- I. Price Bids for quoted Items / Equipment / Machines
- II. Discount Offer, if Any

**(D)** Envelope 'D' shall contain

All three afore said sealed envelope **A + B + C**.

**TERMS AND CONDITIONS**

1. Terms and conditions for supply of Items / Equipment / Machines as per enclosed list for Govt. Girl's Polytechnic, Raipur
  - a. The tenderer is liable to be rejected if not submitted as per the prescribed conditions and in the prescribed format without asking any further clarification.
  - b. The bidder should quote their offer / rate in clear terms without any ambiguity.



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- c. The tender will be opened as per the date and time given above in the presence of such tenderer (s) or their representatives who are desirous to be present.
  - d. Tender received after due date and time will not be entertained.
  - e. The tender form is non transferable.
  - f. Tender should be submitted in Duplicate. They should be tagged separately and marked as **ORIGINAL** and **DUPLICATE**.
  - g. Item No. and page no. of the tender form should be strictly in chronological order. Make, name of the manufacturer with complete address should be mentioned against each item and equipment.
  - h. Printed condition on the back of the tender will not be binding unless separately mentioned. Copies of the terms and condition should be furnished in duplicate.
  - i. The tenderer must furnish complete and detailed specification supported by printed literature of the equipment offered.
2. All the Envelopes should be signed & sealed tape on all joints.
    - a. The rate should be FOR destination including Excise and PFFI. Nothing extra will be paid in such case except the VAT / CST on the cost of the equipment.
    - b. If rates are quoted Ex-Godown / Ex-Factory then Excise duty, and PFFI charge should be clearly indicated for proper rate compatibility / comparability.
    - c. Taxes, if liable extra, should be clearly indicated failing which the rate quoted in the tender will be considered as inclusive of all taxes.
    - d. There should be no alterations / corrections made in the Tender. The quoted rate should be in figures and words.
    - e. The tender should clearly indicate whether the equipment is complete in itself. If in the opinion of the tenderer, certain accessories are necessary with the type of the equipment tendered, the tenderer must quote for aforesaid accessories under the heading Extra but Essential.
  3. The tenderer is required to deposit 1,25,000/- ( Rupees One Lac Twenty Five Thousand only ) or 3% of the Quoted Rates, whichever is more. Amount - based on Estimated cost of the store(s) as EMD. The EMD should be deposited, in the form of Demand Draft drawn in favour of Principal, Govt. Girls Polytechnic, Raipur, C.G payable at Raipur against tender **No.GGPR./UPGRADATION/EQUIP/TENDER-01/2015-16**. Tenders received without EMD shall be rejected. Requests for relaxing EMD will not be entertained. EMD by Cheque / Cashor / FD MO etc. will not be accepted.
  4. In case of Non-Acceptance of the tender, the EMD will be refunded without interest to the tenderer in due course of time.



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5. The EMD will be treated as Security Deposit in case of selected tenders. EMD / Security Deposit will be forfeited in case of breach of agreement towards the supply of materials and installation - commissioning by the Tenderer ( Supplier ). The order shall stand cancelled and Security Deposit shall be forfeited.
6. If supplier expresses his inability to execute the order for the quoted items within validity period of the tender at the rate quoted in the tender and for makes / brand quoted in the tender.
7. If the complete equipment is not supplied within the delivery period mentioned in the order or within the extended period permitted.
8. If the supplier executes only part of the order.
9. Any Equipment / Trainers, Hardware or software breakdown must be attended within 7 days during the valid warranty period of the equipment/software free of cost.
10. Payments shall be released after the successful installation and demonstration of the machine / equipment at the respective institution.
11. The training for at least two persons for handling the machine / equipment shall be provided by the supplier at his own cost. The tenderer may be asked to give demonstration of the equipments / software preferably at Raipur.
12. The supplier will have to get the equipment delivered, installed and commissioned successfully as per specification in the designated institution and then only the payment will be made .
13. The one time extension in the delivery period may be granted, but it will be at the discretion of the undersigned. The penalty at a rate of 2% per month ( of the cost of the equipment ) is liable to be charged for the extension of the delivery period.
  - a. Equipment received after the delivery period or dispatched after the delivery period mentioned in the order will also be subjected to this penalty.
  - b. In case of any default in execution of the order, the undersigned reserves the right to forfeit the EMD / Security Deposit. The undersigned also reserves the right to cancel the order and forfeit the EMD / Security Deposit in case, the Tenderer fails to adhere strictly to all terms and condition of the order / tender.
  - c. If defects of any kind or deviations from the specification are detected and reported to the supplier, the supplier should make replacement or rectify the defects free of cost within 30 days from the date of report, failing which the equipment will not be accepted and will be returned to the supplier at his own cost and risk, and the EMD will be forfeited. In case the equipment is sent for repairs to the firm, it should be repaired within 30 days, from the date of receipt of equipment failing which the same will not be accepted and EMD will be forfeited. However the undersigned may condone the delay in deserving cases at his discretion.



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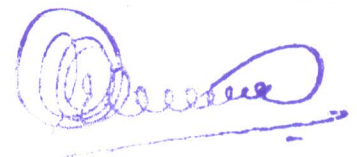
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14. The undersigned reserves the right to increase / decrease the quantity of the equipment to be supplied.
15. The submission of the tender will be deemed to be the acceptance of all the terms and condition of the tender as stated herein and / or elsewhere in the tender document.
16. Tender-Rates should be valid for at least Twelve months from the date of opening of the tender. The prices should be firm without variations of any kind.
17. The undersigned reserves the right to accept the lowest or any tender and also of rejecting all or any tender without assigning any reasons for the same or to split up the tender as he may deem fit.
18. Exact and earliest possible time of delivery should be indicated in the tender against each item. The delivery period given in the order will be the date of receipt of the equipment in the institute and not the date of dispatch of the equipment by the supplier.

Sealed envelope for the tender should be super scribed as **No.GGPR / UPGRADATION / EQUIP/ TENDER-01 / 2015-16 / Raipur**. And it should be addressed to Principal, Govt.Girls Polytechnic, Bayron Bazar, Raipur, C.G 492001. Tender for be clearly mentioned on the Envelop (at Left-hands side Top Corner).
19. All items quoted must conform to the BIS / ISO or other certifications as far as possible related to item categories.
20. No advance payment shall be made.
21. The Tenderer / Bidders shall provide TIN No. certificate having mentioned tendered item. ST Clearance certificate from the concerned authority and should be attached with the tender. In case of imported Machinery bill of clearance is required. If, tender received without these certificates shall be rejected without assigning any reason.
22. The Minimum Warranty / Guarantee period for the equipment supplied by the Supplier, will have to be mentioned clearly which should not be less than one year from the date of installation. The tenderer will be required to undertake repair / replacement of defective parts free of cost at the institution during the warranty / guarantee period.
23. All the disputes with regard to the contract of purchase of equipment etc. is subjected to Raipur, Chhattisgarh Jurisdiction only.
24. In the event of the order, supplier who are the manufacturer of the equipment will be required to furnish a certificate to the effect that they are manufacturers of such and such make whereas the authorized agent or stockist will have to furnish certificate issued by the manufacturer, importer certifying that M/S ..... is their Authorized Agent / Reseller / Retailer under the brand name, no equipment without this certificate will be accepted.
25. The Equipment / Machinery calibrated in metric system need be quoted.



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26. The tenderer shall guarantee that after sales service shall be provided as and when required.
27. The supplier will render necessary assistance, if required, in the installation of the Equipment / Machinery in the designated institute (s) / site free of charge.
28. No offer should be made for imported item for which import license has to be arranged by the undersigned. The entire imported item will have to be delivered in the designated institute (s) and payment will be made in Rupees.
29. The payments shall be released only after satisfactory and successful commissioning and installation of the Equipment / Machinery at the designated site / institute (s).
30. The rate quoted as per given format in Annexure-I & Annexure-II.. Packing, forwarding, freight, insurance and other incidental charges should be included in the offer price..
31. In the event of any dispute arising out of the bid or from the resultant contract, the decision of the Govt. Girls' Polytechnic, Raipur shall be final.
32. The bid document /resultants contract will be interpreted under Indian laws.
33. If the successful Tenderer / Bidders, on receipt of the order, fails to execute the order within the stipulated period, in full or part, it will be open to the Govt. Girls' Polytechnic, Raipur, to recover liquidated damage from the firm at the rate of 2% of the value of undelivered goods per month or part there of, subject to a maximum of 5% of the value of undelivered goods.  
Alternatively, it will also be open to the Govt. Girls' Polytechnic, Raipur, to arrange procurement of the required goods from any other source at the risk and expenses of the Tenderer / Bidder.
34. The undersigned is not responsible for any loss or damage to the equipments during transit irrespective of the fact that they are insured or not insured or delivery is ex-godown or factory station.
35. The Tenderer / Bidder is required to execute the agreement bond duly signed and witnessed to this office along with the letter confirming the acceptance of the order. It should be noted that in the event of failure to submit agreement bond duly filled in within the stipulated period, i.e. 10 days (Ten days), entire amount of Earnest Money / Security Deposit is liable to be forfeited and order cancelled and if supply have been made in the meanwhile, they will be at the risk and responsibility of the supplier.
36. No claim shall be entertained in respect of interest on Earnest Money / Security Deposit / Bid Deposit.
37. Inspection of the equipment will be carried out at the institution after receipt of the equipments. Any request for the inspection of the same at the firm's factory / go-down / showroom etc. will not be entertained.
38. Illustrated manuals, working instructions, trainers, software and hardware, erection / wiring details of the ordered equipments must be supplied in suitable damp proof cover.



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PRINCIPAL  
Govt. Girs's Polytechnic  
Byron-Bazar, Raipur (CG)

A handwritten signature in blue ink, consisting of a large, stylized initial 'P' followed by a series of loops and a long horizontal stroke.

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**ANNEXURE-I**

**PERFORMA FOR TECHNICAL - BID**

The offer should be submitted in the following format only

S.No	Name of Item along with Make	Specifications given in the Tenders	Technical Specifications which the bidder wants to supply as per Catalogue/ Brochure	Remarks

NOTE: Attach Technical Catalogue / Brochure of the product in original for above quoted Items. The quoted items.

**ANNEXURE-II**

**PERFORMA FOR COMMERCIAL - BID**

The offer should be submitted in the following format only

Sl. No.	Name of Item along with Make	Specifications given in the Tenders	Technical Specifications which the bidder wants to supply as as Catalogue/ Brochure	Price of Equipment	Cost of equipment Inclusive all	Remarks

NOTE : All the above quoted items rate should be in confirmation with the tender conditions.





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**UNDERTAKING BY THE TENDERER**

(To be signed and returned along with the tender)

I / We ( Full Name ) .....

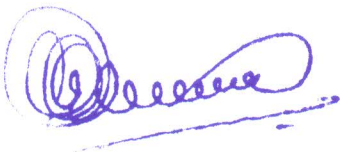
Address.....

have read the tender rules for the supply of various stores as per tender notice **No.GGPR / Upgradation / Equip / Tender-01 / 2015-16** to the Principal Govt. Girls Polytechnic, Raipur (C.G.) and I / We, fully accept the bidding rules / terms,& condition supplied with the bidding documents.

Date: .....

Signature:

(Name & Full Address of the Firm)



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### LIST OF AUDIO-VISUAL EQUIPMENT WITH SPECIFICATION

- |   |  |                |
|---|--|----------------|
| <b>1. PLASMA TV</b>                             | Min. 60" Plasma Panel Screen Size<br>Resolution - 1920 x 1080 / Full HD<br>AUDIO ; Built in Stereo Speakers / Min. Audio Power Output – 20 W RMS<br>IN-BUILT WIFI / SWAP AND SHARE / USB TO USB SHARE<br>02- HDMI-Port / 02- AV-Port / USB-Port / SD-Card Slot / Blue Tooth / RJ-45-Port<br>Compo Video IN / Mini D-Sub -15Pin / RCA Phono-Jack etc.<br>ACCESSORIES : Wal Fixtures / Cables & Cords etc.   | <b>01-SET</b>  |
| <b>2. TV MATRIX VIDEO-WALL LED TV ( 2 X 2 )</b> | Appx. 55" Hi-Glow LED Video wall Panel Screen<br>Resolution – 1920 X1080p , Min. 400-cd/m2 or higher<br>Tuner : DVB-T/T2<br>View Angle : 178° (Right to Left), 178° (Up to Down)<br>Bezel Width :Appx. 0.1 in. / 0.1 in., 3.7mm / 1.8mm<br>Built in Stereo Speakers / Min. Audio Power Output – 20 W RMS<br>HDMI-Port / AV-Port / USB-Port / SD-Card Slot / Blue Tooth / RJ-45-Port<br>Compo Video IN / Mini D-Sub -15Pin / RCA Phono-Jack etc.<br><br>Clarity, color and contrast with 4K processor chip<br>Upscale to near 4K resolution, regardless of source with 4K X-Reality™ PRO<br>Android TV*1 between different Android devices<br>Bass Reflex Speaker for bigger, better bass<br>ClearAudio+ fine-tunes TV sound for an immersive<br>Ultra-narrow bezel Advanced thermal capabilities, Advanced cooling system, Sealed panel,<br>Thin bezel, TileMatrix (2X2), TileComp,<br>Hard Coating, Antiglare treatment of the front polarizer<br>Orientation : Portrait or Landscape<br>CableComp+, Ethernet Control and Communication<br>Plug and Play (DDC/CI, DDC2B), Scheduler (w/ RTC),<br>Sharpness/softness adjustment, Screen saver function,<br>Ambient light sensor (AmbiBright), 6-axis colour adjustment, Metal rear cabinet, POP<br>Standard Certification : FCC-Class 'B' / CE / CC<br>Safety Standard : UL / cUL /CB / TUV / KCC<br><br>ACCESSORIES : Wall Fixtures / Assorted Cables – Connectors & Power Cords etc. | <b>01-Set.</b> |
| <b>3. TV MATRIX VIDEO-WALL LED TV ( 1 X 2 )</b> | Appx. 55" Hi-Glow LED Panel Screen   | <b>01-SET</b>  |



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Resolution – 1920 X1080p , Min. 400-cd/m2 or higher  
Tuner : DVB-T/T2  
View Angle : 178° (Right to Left), 178° (Up to Down)  
Bezel Width :Appx. 0.1 in. / 0.1 in., 3.7mm / 1.8mm  
Built in Stereo Speakers / Min. Audio Power Output – 20 W RMS  
HDMI-Port / AV-Port / USB-Port / SD-Card Slot / Blue Tooth / RJ-45-Port  
Compo Video IN / Mini D-Sub -15Pin / RCA Phono-Jack etc.

Clarity, color and contrast with 4K processor chip  
Upscale to near 4K resolution, regardless of source with 4K X-Reality™ PRO  
Android TV\*1 between different Android devices  
Bass Reflex Speaker for bigger, better bass  
ClearAudio+ fine-tunes TV sound for an immersive  
Ultra-narrow bezel Advanced thermal capabilities, Advanced cooling system, Sealed panel,  
Thin bezel, TileMatrix (2X2), TileComp,  
Hard Coating, Antiglare treatment of the front polarizer  
Orientation : Portrait or Landscape  
CableComp+, Ethernet Control and Communication  
Plug and Play (DDC/CI, DDC2B), Scheduler (w/ RTC),  
Sharpness/softness adjustment, Screen saver function,  
Ambient light sensor (AmbiBright), 6-axis colour adjustment, Metal rear cabinet, POP  
Standard Certification : FCC-Class 'B' / CE / CC  
Safety Standard : UL / cUL /CB / TUV / KCC  
ACCESSORIES : Wall Fixtures / Assorted Cables – Connectors & Power Cords etc.

#### 4. LED TV ( DISPLAY SYSTEM )

Min. 75" Hi-Glow LED Panel Screen Size/ Panel Type - 60Hz D-LED BLU **01-SET**  
Resolution - 1920 x 1080 / Full HD / Pixel Pitch (HxV) - 0.2865 (H) x 0.8595 (V)  
Active Display Size (HxV) - 1650.24 (H) x 928.26 (V)  
Contrast Ratio – 5000 : 1 / Color Display - 10bit Dithering - 1.07 Billion  
H-Scanning Frequency - 30 ~ 81kHz / V-Scanning Frequency - 48 ~ 75Hz  
Maximum Pixel Frequency - Appx. 148 Hz. / Brightness - 450nit

AUDIO ; Built in Stereo Speakers / Min. Audio Power Output – Appx.10 W Audio RMS  
In-Built Wifi / Swap And Share / Usb To Usb Share

#### CONNECTIVITY

02- HDMI-Port / 02- AV-Port / USB-Port / SD-Card Slot / Blue Tooth / RJ-45-Port  
Compo Video IN / Mini D-Sub -15Pin / RCA Phono-Jack etc.

ACCESSORIES : Wall Fixtures / Assorted Cables – Connectors & Power Cords etc



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### 5. PROJECTION TV SYSTEM

Appx. 80" Curved Screen 01-SET  
TV Tuner / Channel True  
Universal, Comb Filter 4H,  
Input/Output connections S-Video Input:F1, R1, ANT (RF):R1,  
Smart Component (Y/Pb/Pr):R2, Scart (Option):R1, PC Input (D-sub 15 Pin):R1, HDMIR1,  
Picture Mode:4 Modes, Colour Temperature Adjust:5 Modes,  
Sound Mode Select:5 Modest, Auto Volume Leveller (AVL):True, ATM (ATS):True,  
Picture and Text:True, PlugPlay:True,  
Absent Power Off:True, Auto Power Off:True, Still ctur:True, Input LabellingTrue,  
Display Resolution/Format Input Signal:480i/480P/576i/576P/1080i/720P,  
DNle:True, Display Mode:720 Progressive,  
PC Input:VGA-XGA, DarkChip:True, Neutral Density Filter (NDF)True,  
Timer/Clock On/Off Timer:True, Sleep TimerTrue, Display menu language Multi,  
World Wide Multi, VHF/UHF (2-12 / 21-69)True,  
AV input/output AV Input:1, AV OutputR1.

ACCESSORIES : Wall Fixtures / Assorted Cables – Connectors & Power Cords etc

### 6. MATRIX SWITCHER

4 X 4 Quad HDMI I/O TV Matrix Switch 01-SET  
Video Bandwidth : 225 MHz./ 6.75 Gbps  
Resolution  
Input 4 X HDMI / Output / 4 X HDM  
Audio Output 7.1 / 2-Channel LPCM @ 192 KHz. Sampling Rate  
Front panel buttons, IR remote control transmitter, RS-232, Ethernet

Single link DVI-D switching  
Stereo audio switching  
Supports computer video up to 1920x1200, including HDTV 1080p/60 and 2K  
EDID Minder<sup>®</sup> automatically manages EDID communication between connected devices  
Selectable cable equalization for each input  
Retimes and reshapes marginal or noisy DVI signals

ACCESSORIES : IR Controller / Fixtures / Cables & Connectors / Power Supply Units

### 7. VIDEO SCALAR CUM FORMAT CONVERTER

Multi Video System – HDMI / VGA / RGB, HDTV, and video scaling 01-SET  
RGB upscaling and downscaling  
Selectable output rates from 640x480 to 1920x1200, including HDTV 1080p/60  
Simultaneous DVI and analog RGB or HD component video outputs  
EDID Minder<sup>®</sup> automatically manages EDID communication between connected devices



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Auto Input Format Detection

SIGNAL TYPES :

- 1- RGBHV, RGBS, RGsB, RGBcvS, component video ( YUVi or YUVp/HDTV ), S-video, composite video; pass-through is available for RGBHV, RGBS, RGsB signal types
- 1 - Composite video, S-video, component video ( YUVi or YUVp/HDTV )
- 1 - SDI (optional, DVS 304 DVI D and DVS 304 DVI AD only)
- 1 - Composite video

CONNECTORS :

- 1 - Female 15-pin HD: RGBHV, RGBS, RGBcvS, component video, S-video, composite video
- 3 - Female BNC: component video, S-video, composite video
- 1 - Female BNC: SDI (optional, DVS 304 DVI D and DVS 304 DVI-AD)
- 1 - Female 4-pin mini DIN: S-video
- 1 - Female BNC: composite video

MIN. / MAX. LEVELS

- 1 Vp-p for Y of component video and S-video, and for composite video
- 0.7 Vp-p for RGB and for R-Y and B-Y of component video
- Analog: 0.0 V to 1.0 Vp-p with no offset
- Impedance : 75 ohms
- Horizontal Freq. : 15 kHz to 100 kHz / Vertical Freq. : 50 Hz to 120 Hz
- Resolution : 640x480 to 1920x1200, 480p, 576p, 720p, 1080i, 1080p
- Return Loss : Appx. <-30 dB @ 5 MHz
- DC offset ( Max.) : 1.3 V

NTSC to PAL / PAL to NTSC

PC-VGA, SVGA, XGA, WXGA, HD / WXGA, SXGA, WXGA+, SXGA+, WSXGA+, UXGA, WUXGA@60-Hz.

High Definition 480i/p ~ 1080i/p @ 50/60 Hz.

Front panel buttons, IR remote control transmitter, RS-232, Ethernet

ACCESSORIES : IR Controller / Fixtures / Cables & Connectors / Power Supply Units

**NOTE : Item No. 1 - 7 are to be Installed and Commissioned by the Supplier**

### 8. AUDIO EDITING CONSOLE

2 x 800W stereo powered mixer (1600W bridged mode)

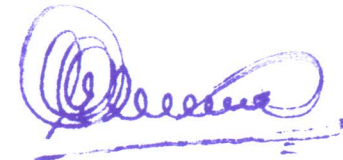
01-SET

Class-D amplifier technology:

conventional powered mixers means no more lugging around dead weight

20-channel mixer section / 12 mono / 4 stereo channels

Separate CD/Tape input/output



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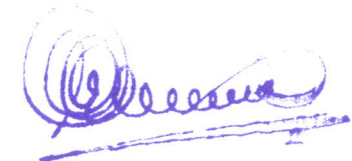
2 studio-grade, 24-bit stereo FX processors with 100 presets  
( including reverb, chorus, flanger, delay, pitch shifter, and various multi-effects)  
FBQ Feedback Detection system / feedback removal  
High-quality Mic Preamps with switchable +48V phantom power for condenser microphones  
Effective musical 3-band EQ, switchable Pad, and Clip LEDs on all mono channels  
Stereo 7-band graphic EQ allows precise frequency correction of monitor and main outputs  
Voice Canceller function removes singer's voice from recordings for karaoke applications  
Selectable stereo (main L/R), double mono (main/monitor) or bridged mono amplifier operation mode  
Speaker Processing function adjusts frequency response to match professional speaker systems  
Standby switch for muting all input channels during breaks  
( while background music is provided via CD/Tape input)  
Breathtaking XPQ 3D stereo surround effect / enhanced stereo image  
Adjustable stereo 2-Track input for connecting external line sources  
Multi-functional stereo preamp outputs for added flexibility  
Ultracompact rackmountable

- 9. PROFESSIONAL GRADE SPEAKER SYSTEM** Dual channel 2-way Soundbar to fit 42" TV screens & up **01-SET**  
Powerful Wireless subwoofer with strong 2 x 5 1/4" chassis for deep bass attacks  
Dolby Digital and DTS decoding  
Bluetooth Wireless music streaming (aptX) for CD like music quality.  
Multiple digital (Optical, Coaxial) & analogue input,  
3 listening modes (Dialog, Music, Movie) & Night Mode  
Audio Output : Min. 160 Watt ( Audio Power )  
ACCESSORIES : Wall Fixtures / Audio-Cables & Cords etc

**10. MIXER AMPLIFIER  
( AV RECEIVER )**

**POWER AND PROCESSING** **01-SET**  
7-channel amplifier  
Min. 80 watts per channel into 8 ohms (20-20,000 Hz) at 0.08% THD, with 2 channels driven  
Dolby® and DTS® surround sound decoding, including Dolby Pro Logic® IIz  
Dolby Atmos® processing for use with in-ceiling or "height" speakers  
DTS:X™ for an immersive, 3-dimensional soundstage  
MultEQ® XT auto setup and room calibration delivers balanced,  
Dynamic sound with enhanced surround

**DIGITAL AND STREAMING MUSIC OPTIONS:**  
built-in Wi-Fi for listening to music from a networked PC, free Internet radio, and music services  
includes support for Pandora, SiriusXM Internet radio, and free Internet radio streams with vTuner  
Spotify Connect lets you play Spotify's streaming music library  
DLNA and Windows® 8 certified for streaming music with compatible devices and computers



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front-panel USB input for connecting an iPod®, iPhone, or USB memory device  
Compressed Audio Restorer improves sound quality of MP3s and other digital music files

### MULTI-ROOM AUDIO:

Dual-room/dual-source output powered  
Bi-amping front speakers

### CONNECTIONS:

HDMI 2.0 audio/video switching: 6 in (includes 1 front-panel input), 1 out  
HDCP 2.2 technology ensures compatibility with 4K Ultra HD sources  
TVs (all HDMI inputs and monitor output)  
Composite video switching: 2 inputs, 1 output / Digital audio inputs: 2 optical / 2 Analog stereo audio inputs  
Preamp outputs for two powered subwoofers  
Ethernet port for network connection  
Outputs for 7 speakers (Front L/R, Center, Surround L/R, Surround Back L/R)  
Full-sized headphone jack / removable power cord

### GENERAL FEATURES:

4K/60p and 3D video pass-through  
HDMI standby pass-through allows HDMI switching without powering up receiver  
intuitive, full-color on-screen guide  
AM/FM tuner / remote control

ACCESSORIES : Wall Fixtures / Cables & Cords etc

## 11. OFFICE CONFERENCING SYSTEM

### MICROPHONE

Slim-line gooseneck microphone with illuminated LED ring  
Click-free switching during mic ON/OFF  
Sensitivity Appx. -37dB ( 1-KHz, o-dB-1VPa )  
Frequency Range Appx. 100-Hz to 13-KHz.  
Directivity Unidirectional

### CENTRAL UNIT

Input MIC - ~ -60dB / 600-Ohms / Unbalanced / Phono-Jack  
AUX - ~ -20dB / 10K Ohms / Unbalanced / Phono-Jack  
RECORDING ~20dB / 10K Ohms / Unbalanced / Phono-Jack

### CONTROL

Priority Button / Priority Speech Chime  
Speaker Restriction / Automatic Mic Off (OFF / 20 or 40 Seconds Switchable )  
Min 32-Nos. of Connections / Line

### REMOTE DELEGATION INTERFACE UNIT

Input ~ -60dB / 600-Ohms / Balanced / Phono-Jack with VR Control

01-SET



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Output ~ -60dB / 22-Ohms / Balanced / Phono-Jack with VR Control  
Connection Min. 2-Metre Cable  
CHAIRMAN UNIT  
Output Headphone ( 32-Ohms) / Recording  
~ -20dB (Recording ) / 10K Ohms / Unbalanced / Mini-Phono-Jack  
Internal Speaker - ~130-Ohms / ~200mWatt  
Control Speech Butto / Priority Button / Speker On-Off / Chime etc.  
Connection Min. 2-Metre Cable  
DELEGATION UNIT  
Type / Directivity Gooseneck type / Unidirectional  
Impedance / Sensivity ~1.8 K-Ohms / Appx. -37dB ( 1-KHz, o-dB-1VPa ) / LED Indication  
Automatic muting of delegate loudspeaker when mic is 'ON',  
ACCESSORIES : Fixtures / Cables & Cords etc

### 12. AV RECEIVER SYSTEM

Min. 85 Watts per Channel **01-SET**  
( 8-Ohms, 20 Hz 20 kHz 0.08% THD, 2 Channels Driven )  
Min.100-Watts per Channel ( 6 Ohms, 1 kHz, 0.7% THD, 2 Channels Driven )  
6-HDMI Inputs and 2 Outputs with Audio Return Channel  
Built-In Wi-Fi-Certified Wireless LAN Capability  
Onboard Bluetooth Audio Streaming Technology  
Powered Zone 2 and Zone 2 Line-Out  
( For Distributed Audio Playback in Another Room )  
ACCESSORIES : Fixtures / Audio-Cables & Cords etc

### 13. SOUND REPRODUCTION SYSTEM ( PROFESSIONAL GRADE )

MAIN COMPONENT SYSTEM **01-SET**  
Min. 95 Watts per Channel  
( 8-Ohms, 20 Hz 20 kHz 0.08% THD, 2 Channels Driven )  
Min.115-Watts per Channel ( 6 Ohms, 1 kHz, 0.7% THD, 2 Channels Driven )  
6-HDMI Inputs and 2 Outputs with Audio Return Channel  
Built-In Wi-Fi-Certified Wireless LAN Capability  
Onboard Bluetooth Audio Streaming Technology  
Powered Zone 2 and Zone 2 Line-Out  
( For Distributed Audio Playback in Another Room )  
SPEAKERS  
Centre Speakers : Woofer - Dual 13 cm (5") cone  
Tweeter - 3 cm (1") Aluminum dome  
Freq. Response : Appx. 60 Hz–45 kHz  
Input Power : Nominal ~ 100 Watt / Max. ~ 200 Watt  
Sensitivity ~ 90 dB/2.83 V/1 m



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Cross Over ~ 2.8 KHz.  
Imedence 6 – Ohms  
Surround Speakers : Woofer - Dual 13 cm (5") cone  
Tweeter - 3 cm (1") Aluminum dome  
Freq. Response : Appx. 60 Hz–45 kHz  
Input Power Nominal ~ 50 Watt / Max. ~ 150 Watt  
Sensitivity ~ 88 dB/2.83 V/1 m  
Cross Over ~ 3.0 KHz.  
Imedence 6 – Ohms

ACCESSORIES : Wall Fixtures / Audio-Cables, Connectors & Power-Cords etc

### 14. BLUE-RAY COMBO SYSTEM

SURROUND AMPLIFIER - Blu-ray & DVD player  
Integrated, and Powerful movie theater System  
Premium 5.1 channel surround sound  
Built-in Wi-Fi2 for easy setup and unlimited streaming  
Network, Connect & stream music from Bluetooth devices with  
3D conversion & DVD HD upscaling, TV SideView enabling  
FM Tuner Technology  
SPEAKERS - 5.1 Channel Speaker Surround Sound Channel Configuration  
Front Speakers / Surround Speakers / Center Speaker / Subwoofer / Speaker Cords  
Wi-Fi, Bluetooth Wireless  
Wireless Surround Transmitter / Receiver

01-SET

#### ACCESSORIES

Remote Control / HDMI Cable / FM Antenna (Pig tail/T type) / Auto Calibration Mic  
Audio-Cables, Connectors & Power-Cords etc

### 15. DIGITAL WIRELESS SPEAKER SYSTEM

Dolby Digital, DTS System  
4.1 & 5.1 Speaker System  
AAC, MP3, WAV, WMA Play Back  
Total Power Output - Appx. 350 Watt RMS  
Sub-Woofer Output – Appx. 150 Watt RMS  
Min. 6" Passive / Appx. 45 Hz. – 200 Hz.  
Wireless Connectivity – USB / Wi-Fi / BlueTooth  
Audio Line in – Analog / Optical / Co-Axial

01-SET

ACCESSORIES : Wall Fixtures / Audio-Cables, Connectors & Power-Cords etc

### 16. TURN-TABLE / RECORD PLAYER

Fully Automatic Turntable, Belt-Drive, DC Servo Model  
Aluminium Die-Cast Turn-table  
Speed : 33 1/3 RPM and 45 RPM

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- ~ 7.6 Inch Tone Arm / ~3.5 Gram Optimal Stylus Pressure  
USB Support / USB Recording  
Digital Recording : MP3, 192 kbps / Convert Records to MP3 on USB Memory  
Output Voltage: Equalizer Off - ~2.5 mV and : Equalizer On ~150 mV  
Built in RIAA Phono Equalizer  
AUDIO : 2-Channel (Stereo ) / ~10-Watt Audio Power  
Operating Voltage ~ 230 –V AC
- 17. VIDEO CAMERA**
- S-mm 4096 X 2160 Advance MOS Imager **01-SET**  
Native ISO of 800 and 5000  
High Dynamic Range ( HDR ) Ready  
14+ Stops of Latitude / Variable Frame Rate – 01 to 120 fps in 4K  
Dual Recorder  
Simultaneous Record in 4K / 2K / Proxy or UHD / HD / Proxy & Raw CODEX ( Optional )  
2 AVC Inter CODECs – Class 100 / Class 200 / Class 4:4:4  
2-Piece Modular Design ( Docs to AU-VREC1G Recording Module )  
CODEX V-Raw Recorder / Uncompressed Full-Frame RAW Recording at 120fps  
ACCESSORIES :  
Tripod Stand, Additional Batteries, Carry Bag, Recording Microphone etc.  
Assorted Cables & Connectors , Power Packs
- 18. VIDEO HANDY-CAM.**
- XAVC S 50 / High Bit Rate for Capturing Complex Scene details **01-SET**  
Optical Steady Shots / Camera shake Correction  
Exmor R-CMOS Sensors  
Resolution : Min. 640 X 360, LCD / Image Stabilization  
Optical Zoom : Min. 30 X / Aspect Ratio : 16:9  
ACCESSORIES: AC Adapter, Rechargeable Battery Pack, HDMI Cable, USB Cable  
Application Software etc.
- 19. WEB CAMERA**
- (A) IP CAMERA**
- |                    |   |               |
|--------------------|---|---------------|
| Built in Protocols | TCP/IP, HTTP, DDNS  | <b>06-SET</b> |
| Focal Length       | Appx. 08-12 Mtrs. / Board Lens  |               |
| Min. Illumination  | 0-Lux   |               |
| Capturing Distance | IR-Distance Appx. 25-30 Mtrs.   |               |
| Other Features     | Ethernet Connectivity / CMS / Mobile View / ONVIF<br>BNC Video Out etc. |               |

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<b>(B) CONFERENCE CAMERA</b>	Motorized PAN, Tilt, Zoom / ~80 Degree Field-View, 180 Degree PAN, ~55 Degree Tilt Full HD 1080p / 30 fps / Video Calling Optics with multiple point Auto Focus Capability Integrated Full Duplex Omni Directional Speaker Phone / Min. 3 Mtrs. Range On-Board H.264 Encoding / USB Video Class ( UVC ) Supported Applications Audio Volume / Audio Mute / Answer or Hang-up	<b>02-SET</b>
<b>(C) SURVEILLANCE CAMERA</b>	Technology Motorized / Night Vision / Pan / Tilt / Zoom IR Distance(m) Min. 8m Sensor CMOS Alarm Action FTP Photo,Email Photo,Local Alarm Viewing Angle 60 degrees Connectivity IP/Network and / or Wireless Supported Mobile Systems iPhone / Android – OS Supported Operating Systems Windows O/S, Mac O/S Video Compression Format MJPEG,H.264 Lens (mm) / Resolution Appx. 3.6mm / HD / Appx. 720P(HD) / 1280*720,640*480,320*180 Network Interface: Wi-Fi/802.11/b/g Audio two-way audio storage SD card	<b>02-SET</b>
<b>20. MICROPHONES</b>		
<b>(A) VIDEO MICROPHONE</b>	Large diaphragm N/DYM Condenser Microphone Superior multistage shock mount Pro-Tools SE Software 16-bit recording at CD quality and beyond-44.1 or 48 kHz Large 16mm cardioid capsule protected by wire mesh Ideal for both live Performance and in the Recording Studio Frequency Response for unmatched low handling noise ACCESSORIES Gig-Bag / Stand Mount Adapter / Lead Wire 25'-True Balanced Lo-Z Shielded Cable High Grade 21g Dual Copper Conductors & Shield On Stage Tripod Boom Microphone Stand	<b>02-SET</b>
<b>(B) WIRELESS MICROPHONE</b>	Professional VHF- 8 channel wireless microphone system Frequency Response: 50 Hz - 16 kHz Dual Telescoping Receiver Antennas - 1/4" Individual	<b>02-SET</b>



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Line Outputs and Mixed 1/4" Outputs  
Operation Range: 150 - 600 ft.  
Min. 8 Volume Controls - One For Each Channel  
Available Frequencies (Hz) Set 1 - 215.5, 174.8, 200.6, 180.8  
Set 2 - 212.6, 190.1, 214.2, 193.0  
Signal to Noise Ratio ~ 90 dB  
8 Volume Controls - One For Each Channel  
Includes 4-Lavalier Mics, 4-Headset Mics, 4-Handheld Mics  
Dynamic Range ~ 90dB  
Total Harmonic Distortion ~ 0.5%  
Operation Range ~ 120 - 500 ft.  
Rack Mount Main System  
On / Off Broadcasting Switch  
ACCESSORIES: Batteries / 4 Belt Packs etc.

#### (C) VOICE MICROPHONE

Wired / Handheld / Fixed-charge back plate, permanently polarized condenser **02-SET**

Polar Pattern Cardioid  
Impedance 600 Ohms ( Low-Z balanced )  
Open Circuit Voltage ~ 14.0 mV/Pascal ( ~ 35 dB )  
Audio Frequency ~ 20 Hz - 20,000 Hz ( Response )  
Max. Sound Power ~ 140 dB SPL, 1 kHz at 1% T.H.D  
Dynamic Range ~ 124 dB, 1 kHz at Max SPL  
Noise & S/N Ratio ~ 20 dB & 74 dB, 1 kHz at 1 Pa  
Power 48-V DC / 2-mA Typical  
Connector Type Integrated 3-pin XLRM  
Weight ~ 320-Gram to 380 Grams

ACCESSORIES Gig-Bag / Stand Mount Adapter / Lead Wire  
Spider-Shockmount  
Mic Wind Screen Pop Filter Swivel Mount 360 Flexible Gooseneck Holder

#### (D) STUDIO MICROPHONE

Wired / Handheld / Fixed-charge back plate, permanently polarized condenser **01-SET**

Polar Pattern Cardioid  
Impedance 600 Ohms ( Low-Z balanced )  
Open Circuit Voltage ~ 14.0 mV/Pascal ( ~ 35 dB )  
Audio Frequency ~ 20 Hz - 20,000 Hz ( Response )  
Max. Sound Power ~ 140 dB SPL, 1 kHz at 1% T.H.D  
Dynamic Range ~ 124 dB, 1 kHz at Max SPL  
Noise & S/N Ratio ~ 20 dB & 74 dB, 1 kHz at 1 Pa



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Power 48-V DC / 2-mA Typical  
Connector Type Integrated 3-pin XLRM  
Weight ~ 320-Gram to 380 Grams  
ACCESSORIES Gig-Bag / Stand Mount Adapter / Lead Wire  
25'-True Balanced Lo-Z Shielded Cable  
High Grade 21g Dual Copper Conductors & Shield  
On Stage Tripod Boom Microphone Stand  
Spider-Shockmount  
Mic Wind Screen Pop Filter Swivel Mount 360 Flexible Gooseneck Holder

**(E) WIRED MICROPHONE**

Wired / Handheld / Dynamic Element / Passive-Power **04-SET**  
Polar Pattern Super-Cardioid  
Impedance 600 Ohms ( Low-Z balanced )  
Open Circuit Voltage ~ 2.2 mV/Pascal  
Audio Frequency ~ 80 Hz - 16,000 Hz ( Response )  
Connector Type Integrated 3-pin XLR  
Weight ~ 280-Gram to 300 Grams  
ACCESSORIES Gig-Bag / Stand Mount Adapter / Lead Wire  
25'-True Balanced Lo-Z Shielded Cable  
High Grade 21g Dual Copper Conductors & Shield  
On Stage Boom Microphone Stand

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