

NATIONAL INVESTMENT TRUST LIMITED

<u>TENDER NO. ADMIN / 24 (42-C-2)</u> <u>DTD: May 18, 2016</u>

INVITATION TO BID

National Investment Trust Limited an Asset Management Company managing mutual funds in Pakistan invites Sealed Bids (Technical and Financial Proposals separately) from reputed and well established firms / companies having registration with Sales Tax and Income Tax Departments for supply / installation of Video conferencing System along with following necessary equipments:-

- i) Three Video Conferencing Equipments (one Multipoint unit for NIT Head Office Karachi and two Endpoints for NIT Branches in Lahore and Islamabad with full HD Cameras)
- ii) Three High Definition LED TVs with trolleys
- iii) One HD Multimedia Projector

Bidding Documents which are containing detailed terms and conditions, method of procurement, procedure for submission of bids, bid security, bid validity, opening of bid, evaluation criteria, clarification / rejection of bids, performance guarantee etc are available for the interested bidders at National Investment Trust Limited, 6th Floor, NBP Building, I. I. Chundrigar Road, Karachi. Bidding Documents can also be downloaded from NIT Website <u>www.nit.com.pk</u> free of cost.

The bids prepared in accordance with the instructions in the bidding documents must reach at the following address on or before June 6, 2016 up to 11:00 a.m. Bids will be opened at 11:30 a.m on June 6, 2016. This advertisement has also been published on PPRA Website, Daily DAWN and Daily Jang newspapers.

Head of Administration National Investment Trust Limited NBP Building, 6th Floor, I. I Chundrigar Road Karachi-74000 Tel: 021-32412056-9 Fax: 021-32417827, 021-32422719

> National Bank Building, 6th Floor, I. I. Chundrigar Road Karachi – 74000 Pakistan Tel : 32412056-59 (4 Lines) Fax : 32417827, 32422719 UAN : 111-648-648 E-mail : <u>info@nit.com.pk</u>, Website: <u>www.nit.com.pk</u>





Tender Document for Supply, Installation & Commissioning of Video Conferencing Equipment with HD Projector, HD LED TV's & Trolleys



NATIONAL INVESTMENT TRUST LIMITED

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1. INTRODUCTION

1.1 National Investment Trust (NIT) is largest open end Mutual Fund in Pakistan. NIT has its Head Office located in Karachi, with its operation spread all over Pakistan through the presence of 23 NIT branches and over 100 distributor's branches.

2. SCOPE OF WORK

2.1 This project is aimed at arranging remote meetings between NIT Head Office located in Karachi to its others offices in different cities (mainly Islamabad and Lahore offices) and with external partners using Video Conferencing technology. NIT intends to purchase Video Conferencing System and Services through which online discussions/conferences can be held.

NIT requires to purchase a complete video conferencing system that is efficient, scalable and interoperable. This Tender document describes the scope of work, technical specifications and requirements for supply, installation, testing, commissioning and maintenance of the Video Conferencing System / Solution.

3. INFORMATION FOR BIDDERS

| Name of Procuring Agency: | National Investment Trust Limited |
|-------------------------------|---|
| Earnest money: | Bank draft equal to 2% of the total bid value to |
| | be enclosed at the time of bid submission. |
| Last date for Bid Submission: | June 06 2016 at 11:00 P.M |
| Bid Opening Date and Time: | June 06 2016 at 11:30 P.M |
| Bid Opening Place: | National Investment Trust Limited |
| | National Bank Building, 6 th Floor, I.I. Chundrigar Road, Karachi. 74000, Pakistan. |
| Contact Person: | Mr. S. T. A. Quadri, VP - Admin |
| Contact Email | avpadmin@nit.com.pk |
| Phone: | 021-32412056-9 (Ext : 235) |
| Direct Phone: | 021-32425101 |
| Fax: | 021-32422719 |



4. PROCEDURE AND TERMS OF TENDER:

- 4.1. The bidder must have active Income Tax Registration, National Tax and GST Number.
- **4.2.** The bidder must provide complete details telephone / fax number and nominate contact person.
- **4.3.** The bidder must be the Gold \ Register partner of the principal/manufacturer in Pakistan and authorized for providing support, and in compliance with the qualifying criteria mentioned under Annexure VIII.
- **4.4.** Bidders may quote, if compliant with qualification criteria, for solution in Bill of Quantity (BOQ) Annex VII, as per one of the following combinations (Bidder quoting for 4.4.1 are essentially required to quote for all items from 4.4.1 to 4.4.3.):
 - 4.4.1 Procurement of Multipoint Video Conferencing System (Annexure I) and Endpoint Video Conferencing System (Annexure II)
 - 4.4.2 Procurement of HD Multimedia Projector (Annexure III)
 - 4.4.3 Procurement of HD LED TV for Head office and Zonal Offices (Annexure IV &V) and TV Trolley (Annexure VI)
- **4.5.** The bidder is required to visit the all three offices / sites for survey before the submission of their bid.
- **4.6.** No change in price can be accommodated once the bid has been submitted.
- **4.7.** Bid should be submitted in Pak Rupees only and including GST and other applicable taxes.
- **4.8.** Bidder firm has not been blacklisted by any Government/Semi Government organization.
- **4.9.** NIT reserves the right to accept/reject wholly or partially any tender without assigning any reason at any stage of the tender process. Reasons may be provided upon written request.
- **4.10.** Validity period of the bids shall be for at least 30 days.
- **4.11.** The decisions of NIT will be binding on all concerned and will in no case be challengeable at any forum or any court of law.
- **4.12.** Bids are liable to be rejected if; they are not conforming the terms, conditions and specifications stipulated in this Tender.
- **4.13.** During the examination, evaluation and comparison of the bids, the NIT at its sole discretion may ask the bidder for clarifications of its bid. However, no change in the price or substance of the bid shall be sought, offered or permitted after bid submission.
- **4.14.** The amount submitted as Earnest Money shall be refunded to the unsuccessful bidders after approval / finalization of the tender.
- **4.15.** For this tender all updates/changes shall be communicated through email by NIT.



- **4.16.** NIT will not allow any compensation to the Selected Bidder for any variations in the rate of exchange of rupee against dollar or any other currency. No additional claim arising out of change in legislation, exchange rate variation or any sort of taxes will be entertained.
- **4.17.** Proposal are invited on turn-key basis including hardware, software, setup, installation, Commissioning and interfacing. Vendors are required to submit proposals for the supply and support of the total solution in their respective categories.
- **4.18.** Selected bidder will be required to submit Project execution plan in MS-Project/Primavera or any other project planning software.
- **4.19.** All equipment needs to be covered with in one (01) year warranty with parts, support and services (warranty shall start after commissioning & acceptance).
- **4.20.** Guarantee from principal that the system will operate according to standards and ensuring that the full warranty will apply for one year with necessary software upgradation as per the release from the manufacturer for the period of 1 years.
- **4.21.** The suppliers must have to be in the business for the supply video conferencing system for the least Three (3) years in Pakistan.
- **4.22.** The successful firm must arrange for Onsite training for video conferencing system and its associated hardware & software from certified training specialists.
- **4.23.** The firm should provide the "Term equipment Certificate" which be issued by the Pakistan Telecommunication Authority (P.T.A) in respect of the firm / Messer who would participate in the tender.
- **4.24.** Vendor must submit draft SLA for identifying the terms of support services that will be provided.
- **4.25.** After tender technical bids opening demos of the video conferencing equipment may be conducted by bidders in order to check/evaluate the equipment in real time environment.
- **4.26.** The bidder must have office in Karachi, Lahore and Islamabad be fully capable to provide maintenance support from these locations.
- **4.27.** Bids submitted via email or fax will not be entertained.



5. BID SUBMISSION

- **5.1.** For this tender 'Single stage- Two envelope procedure' for open competitive bidding shall be adopted.
- **5.2.** Bid envelope submitted will comprise of two separate envelopes containing Technical and Financial proposal.
- **5.3.** Technical proposal envelope should be marked as 'Technical proposal for Video Conferencing System' and should include following documents:
 - **5.3.1.** Technical brochure of the offered model / equipment.
 - **5.3.2.** Company profile.
 - **5.3.3.** List of customers (corporate sector) along with their contact details, using the offered brand and equipment category,
 - **5.3.4.** Technical specification (Annexure I to Annexure VI as applicable) document completely filled, signed and stamped for identifying offered equipment.
 - **5.3.5.** Partner Authorization letter from Manufacturer identifying level of bidder's partnership.
 - **5.3.6.** Active Income Tax/GST certificate of the bidder.
 - **5.3.7.** Proof of company being in operation for at least 3 years in Pakistan in relevant business.
 - **5.3.8.** Provide Organization chart with List of Technical staff and Managerial staff, their profile with relevant experience, resume.
 - **5.3.9.** Signed document identifying the items for which bid has been submitted in financial proposal.
 - **5.3.10.** Signed confirmation that BOQ Annexure VII, duly filled is included in the financial proposal.
 - **5.3.11.** Any other document required as per this tender document.
- 5.4 Financial proposal should be marked 'Financial proposal for Video Conferencing System' and contain:
 - 5.4.1 Bid price filled as per options given in bill of quantity BOQ (Annexure VII) against equipment specification given in Annex I to VI.
 - 5.4.2 2% of the total bid amount as Earnest Money for those bidding for item 4.3.1 and 4.3.5 should be attached in the shape of bank draft in the favor of National Investment Trust Limited.

6. FINAL SELECTION

- **6.1** In first stage only the 'Technical proposals' will be opened in the presence of bidder's representatives that choose to attend.
- **6.2** Technical proposals of the bidders will be evaluated, generally for compliance of ALL the requirements given in the tender document and specifically for documents provided as per para 5.3 and Qualification criteria given in Annexure VIII.



6.3 Vendors who will not submit all required documents / information as per tender document and qualification Criteria and do not meet the qualification requirement (Annexure *VIII*) will be declared as Non-Qualified Vendors.

6.4 As a part of technical evaluation, bidders may be asked to arrange visit to their completed projects.

6.5 On the basis of evaluation, the financial proposal of only technically responsive bidder (qualified bidder) will be opened in the presence of their representatives that choose to attend.

6.6 Financial proposals of bids found technically non-responsive will be returned un-opened.

6.7 The lowest Evaluated Financial bid will be accepted in each category under para 4.4.1, 4.4.2 & 4.4.3

7. <u>PAYMENT TERMS</u>

- 7.1 No payment shall be made in advance to the Contractor as mobilization advance.
- 7.2 For payment of equipment (Annexure I to V) the selected bidder will be required to submit proof of supplied equipment being first hand / new / original and registered on NIT's name with the manufacturer.
- 7.3 Fifty percent (50%) cost of equipment shall be paid and will be released after successful delivery of ALL the equipment.
- 7.4 Remaining Fifty percent (50%) cost of equipment shall be payable to the Vendor upon successful installation, integration, successful testing with NIT sites & commissioning of equipment as elaborated in the Scope of Work and in Tender document.
- 7.5 All payments shall be made after deduction of taxes.
- 7.6 All payments shall be made through cross cheque in the Pak Rupees.
- 7.7 Taxes will be deducted at source as per government rules at the time of payment.
- 7.8 Bidder should mention any other charges/optional charges in financial bid deemed necessary to complete and compare final bid amount. (all inclusive including taxes)



ANNEXURE I: TECHNICAL SPECIFICATION FOR MULTIPOINT VIDEO CONFERENCING SYSTEM

| Specification | Description | Compliance (Y/N) | Comments | Model | Reference Brochure |
|--|--|---------------------|----------|-------|-----------------------|
| 1. Multipoint VC Equipment Details | 1.1 Equivalent specification to Polycom Group 500 /or Cisco SX20 1.2 Support minimum of 04 (01 multipoint and 03 endpoint) sites. Should include respective Licenses 1.3 Standards hardware VC Codec Appliance 1.4 Include Full HD 1080p camera, VC codec, 1080p licenses for MCU, Microphone Array, cables, and remote control, Support H.264 Video Protocol, should interoperate with multiple vendors' MCU & endpoints. 1.5 | | | | |
| 2. Bandwidth Requirement | Should also include all items and cover specification / features as previously identified in equipment quotation process or given Manufacturer websites 2.1 Should give optimum performance at existing NIT bandwidth of 1 Mbps between point to point for respective sites (Karachi, Lahore and ISB) | | | | |
| 3. Video Input / output | 3.1 1 x Full HD camera 3.2 1 x HDMI port as input 3.3 1 x VGA port as input 3.4 2 x HDMI output ports to connect displays. 3.5 Should provide dual display , 01 for video and 01 for content sharing on VC call | | | | |
| 4. Video Resolution supported and required | 4.1 1080p, 60 fps 4.2 1080p, 30 fps 4.3 720p, 60 fps | | | | |



| | 4.4 720n 20 fm | | | |
|----------------|---|-----|---|--|
| 5. | 720p, 30 fps 5.1 | | | |
| Content | Should be possible to do content, desktop and | | | |
| Sharing | presentation sharing during a VC call.(People | | | |
| Sharing | +Content) on HD Projector | | | |
| | | | | |
| 6. | 6.1 | | | |
| Camera | Full HD | | | |
| specifications | 6.2 | | | |
| | H /V resolution 1920 x 1080 | | | |
| | 6.3 | | | |
| | Optical Zoom - 12X | | | |
| | 6.4 | | | |
| | Auto Focus | | | |
| | 6.5 Horizontal Field of View 65° 95° with wide | | | |
| | Horizontal Field of View 65°, 85° with wide angle adaptor | | | |
| | 6.6 | | | |
| | Vertical Field of View 39° | | | |
| | 6.7 | | | |
| | Minimum. Illumination 50 lux | | | |
| | 6.8 | | | |
| | Exposure Auto-iris, AGC | | | |
| | 6.9 | | | |
| | Pan range +/-100° | | | |
| | 6.10 | | | |
| | Tilt range $+20/-30^{\circ}$ | | | |
| | 6.11 | | | |
| | Automatic or manual focus, brightness, and white | | | |
| | balance 6.12 | | | |
| | Far-end camera control | | | |
| | | | | |
| 7. | 7.1 | | | |
| Audio Input | 1 x Microphone Input Array (supporting a total of 2 | | | |
| / output ports | microphones) | | | |
| | 7.2 | | | |
| | 1 x HDCI Input (for camera) | | | |
| | 7.3 | | | |
| | 1 x HDMI Input port | | | |
| | 7.4 | | | |
| | 1 x 3.5mm Stereo Line-in port | | | |
| | 7.5 | | | |
| | 1 x HDMI Output port | | | |
| | 7.6 1 y 2 5mm Storeg Ling Out port | | | |
| 8. | 1 x 3.5mm Stereo Line-Out port 8.1 | + + | | |
| 8. Audio | 8.1 G.722, G.722.1, 3.4 kHz bandwidth with | | | |
| Auulo | 0.722, 0.722.1, 3.4 KHZ Dahuwhuli wilii | | I | |



| Standards | G.711,G.728, G.729A OR Equivalent OR Better | | |
|---------------|--|-------|--|
| and Protocols | 8.2 | | |
| | support Automatic gain control | | |
| | 8.3 | | |
| | support Automatic noise suppression | | |
| | 8.4 | | |
| | support Keyboard noise reduction | | |
| | | | |
| | 8.5 | | |
| | Integrate Audio Mixer through a digital interface or | | |
| | equivalent interface. | | |
| | 8.6 | | |
| | support Instant adaptation echo cancellation | | |
| | 8.7 Audio error concealment | | |
| | 8.8 | | |
| | support Lost Packet Recovery or equivalent | | |
| | technology | | |
| | 8.9 | | |
| | Support Stereo Surround technology | | |
| 9. | 9.1 | | |
| Network | IPv6 Network Support | | |
| features | 9.2 | | |
| | Automatic gatekeeper discovery | | |
| | 9.3 | | |
| | 1 x 10/100/1000 Ethernet | | |
| | 9.4 | | |
| | Differentiated services (quality of service) | | |
| | 9.5 | | |
| | H.245 Dual Tone Multi frequency (DTMF) tones in | | |
| | H.323 9.6 | - | |
| | Packet loss-based down speeding | | |
| | 9.7 | - | |
| | TCP/IP, DHCP, 802.1p/Q, 802.1x | | |
| 10. | 10.1 | 1 | |
| Dual Stream | H.239 (H.323) dual stream | | |
| | 10.2 | | |
| | BFCP (SIP) dual stream | | |
| | 10.3 | | |
| | Support resolutions up to 1080p (1920 x 1080) | | |
| | 10.4 | | |
| | Content Frame Rate 5-60 fps | 4 | |
| 11. | 11.1 | | |
| Directory | Local directory | 4 | |
| Features | | | |
| | Global / Corporate Directory | 4 | |
| | 11.3 Placed calls with date and time | | |
| | | | |



| | 11.4 Received calls with date and time | | |
|-------------------------------------|--|--|--|
| | 11.5 Call Detail Report | | |
| 12. Security specifications | 12.1 Algorithms: AES 256- bit | | |
| | 12.2 Authenticated access to admin menus, web interface and telnet API | | |
| 13. Licenses | 13.1 Licenses provided should include provision for all the mentioned specification in this Annexure | | |
| 14. Electrical specifications | 14.1 Auto sensing power supply | | |
| 15 | 14.2 Voltage supported 125VA @ 230V @ 60Hz | | |
| 15. Warranty/Ser vices/ | 15.1 One Year 15.2 Partner support at the front should be available | | |
| Support | 15.3 Principal/manufacturer backed hardware support also available/included | | |
| | 15.4 Warranty / Support details against supplied equipment S. No. shall be shown on Principal / manufacturer website | | |
| | 15.3 Equipment should be new (not refurbished), latest and imported through proper channel. Proof to be provided. 15.4 | | |
| | Complaint to be attended within 2 – 3 hours and in case of hardware failure vendor should replace the equipment from their ready stock on same day | | |



ANNEXURE II: TECHNICAL SPECIFICATION FOR ENDPOINT VIDEO CONFERENCING SYSTEM

| Specification | Description | Compliance (Y/N) | Comments | Model | Reference Brochure |
|-----------------------|--|---------------------|----------|-------|-----------------------|
| 1. Single (End) | 1.1 Equivalent specification to Polycom Group | | | | |
| Point Equipment | 310 / Cisco SX20 or Equal | | | | |
| Details | 1.2 | | | - | |
| | Video End Point Unit | | | - | |
| | 1.3 Standarda haad hardwara VC Cadaa | | | | |
| | Standards based hardware VC Codec Appliance | | | | |
| | 1.4 | | | - | |
| | Should interoperate with multiple vendors' | | | | |
| | MCU & endpoints | | | - | |
| | 1.5 | | | | |
| | Include Full HD 1080p60 licenses for MCU, camera 4X 1080p ,VC codec, Microphone, | | | | |
| | cables, Power adaptor and remote control, | | | | |
| | Support H.264 Video Protocol, interoperate | | | | |
| | with multiple vendors' MCU & endpoints. | | | - | |
| | 1.6 | | | | |
| | Should also include all items and cover | | | | |
| | specification / features as previously identified in equipment quotation process or | | | | |
| | given Manufacturer websites | | | | |
| 2. | 2.1 | | | | |
| Video Input / | 1 x HDCI | | | - | |
| output | 2.2 | | | | |
| | 1 x HDMI port as input 2.3 | | | - | |
| | 1 x VGA port as input | | | | |
| | 2.4 | | | - | |
| | 2 x HDMI output ports to connect two | | | | |
| | displays. | | | - | |
| 3. Video | 3.1 1080m 60 fms | | | | |
| Resolution | 1080p, 60 fps 3.2 | | | - | |
| supported | 1080p, 30 fps | | | | |
| | 3.3 | | | 1 | |
| | 720p, 60 fps | | | | |
| | 3.4 | | | | |
| 4. | 720p, 30 fps 4.1 | | | - | |
| 4. Content Sharing | 4.1 Should be possible to do content, desktop and | | | | |



| | presentation sharing during a VC call. | | |
|-------------------------------------|--|--|--|
| | | | |
| | 4.2 Content can be sent and received in up to 1080p60 quality and shared through direct HDMI or VGA connections | | |
| 5. Camera specifications | 5.1 Full HD 5.2 | | |
| - | 5.2 H /V resolution 1920 x 1080 5.3 | | |
| - | Optical Zoom – 4 X 5.4 | | |
| - | Auto Focus 5.5 | | |
| | Horizontal Field of View 65°, 85° with wide angle adaptor | | |
| | 5.6 Vertical Field of View 39° | | |
| - | 5.7 Minimum. Illumination 50 lux | | |
| - | 5.8 Exposure Auto-iris, AGC | | |
| - | 5.9 Pan range +/-100° | | |
| - | 5.10 Tilt range +20/-30° | | |
| | 5.11 Automatic or manual focus, brightness, and white balance, Far-end camera control | | |
| 6. Audio Input / output ports | 6.1 System should have capability to support 2 microphones. 1 microphone to be supplied | | |
| _ | 6.2 One audio in from camera | | |
| - | 6.3 1x HDMI Output port | | |
| | 6.4 1 audio jack for Stereo Line-Out | | |
| 7. Audio Standards, | 7.1 G.711, G.729A, G.722, G.722.1, G.719, AAC-LD or equivalent | | |
| features and Protocols | 7.2 CD-quality 20 KHz mono or stereo | | |
| | 7.3 Automatic gain control | | |



| | T | r |
|------------------|--|-------|
| | 7.4 Automatic noise reduction | |
| | 7.5 | |
| | Echo cancellation | |
| | | |
| 8. | 8.1 | |
| Network features | IPv6 Network Support | |
| THE WORK TOULOUS | 8.2 | |
| | Automatic gatekeeper discovery | |
| | The contact of gate he open and control of g | |
| | 8.3 | |
| | 1 x 10/100/1000 Ethernet | |
| | | |
| | 8.4 | |
| | Differentiated services (quality of service) | |
| | | |
| | 8.5 | |
| | H.245 Dual Tone Multi frequency (DTMF) | |
| | tones in H.323 | |
| | 8.6 | |
| | Packet loss-based down speeding | |
| | 8.7 | |
| | TCP/IP, DHCP, 802.1p/Q, 802.1x | |
| 9. | 9.1 | |
| Dual Stream | H.239 (H.323) dual stream | |
| | 9.2 | |
| | BFCP (SIP) dual stream | |
| | 9.3 | |
| | Support resolutions up to 1080p (1920 x | |
| | 1080) | |
| | 9.4 | |
| 1.0 | Content Frame Rate – 5-60 fps | |
| 10. | 10.1 | |
| Directory | Local directory | |
| Features | | |
| | Global / Corporate Directory 10.3 | |
| | | |
| | Placed calls with date and time 10.4 | |
| | Received calls with date and time | |
| | 10.5 | |
| | Call Detail Report | |
| 11. | 11.1 | 4 |
| Security | Advanced Encryption Standard (AES) | |
| specifications | 11.2 | |
| Peenieutions | Management using HTTP and HTTPS | |
| | 11.3 | 1 |
| | IP administration password | |
| | | |
| L | 1 | 1 1 |



| | | 1 1 | 1 |
|-------------------|--|-----|-----|
| | 11.4 | | |
| | Menu administration password | | |
| 12. | 12.1 | | 1 |
| Licenses | Licenses provided should include provision | | |
| 210010005 | for all the mentioned specification in this | | |
| | Annexure | | |
| 10 | | | |
| 13. | 13.1 | | |
| Electrical | Auto sensing power supply | | |
| specifications | 13.2 | | |
| | Voltage supported 125VA @ 230V @ 60Hz | | |
| | | | |
| 14. | 14.1 | | |
| Warranty/Services | One Year | | |
| / | 14.2 | | |
| Support | Partner support at the front should be available | | |
| | 14.3 | | |
| | Principal/manufacturer backed hardware support | | |
| | also available/included | | |
| | 14.4 | | |
| | Warranty / Support details against supplied | | |
| | equipment S. No. shall be shown on Principal / | | |
| | manufacturer website | | |
| | 14.5 | | |
| | Equipment should be new (not refurbished), latest | | |
| | and imported through proper channel. Proof to be | | |
| | provided. 14.6 | | |
| | Complaint to be attended within 2 – 3 hours and in | | |
| | case of hardware failure vendor should replace | | |
| | the equipment from their ready stock on same day | | |
| | | | |
| L | | I I | 1 1 |



ANNEXURE III: TECHNICAL SPECIFICATION FOR HD MULTIMEDIA PROJECTOR USED FOR VIDEO CONFERENCING SYSTEM

| Specification | Description | Compliance (Y/N) | Comments | Model | Referenc e Brochure |
|--------------------------------|--|---------------------|----------|-------|---------------------------|
| 1. HD projector | Equivalent specification to Infocus "IN118HDa" | | | | |
| 2. Native Resolution | 1080p 1920x1080 | | | | |
| 3. Display Technology | DLP 0.65" 1080, 1920 x 1080 | | | | |
| 4. Brightness | 3000 lumens Normal Mode | | | | |
| 5. Lamp Life | 5000 hrs (Normal Mode) | | | | |
| 6. Contrast Ratio (Typical) | 15000:1 | | | | |
| 7. Color Wheel | 6 segments, 2x speed | | | | |
| 8. Projection Offset | 17 % | | | | |
| 9. Keystone Correction | $\pm 40^{\circ}$ vertical | | | | |
| 10. Lens Type | Manual Zoom, Manual Focus | | | | |
| 11. Projection Distance | 1.0-10.0 m | | | | |
| 12. Zoom Ratio | 1.2:1 | | | | |
| 13. Aspect Ratio | 16:9 (Native), Supports 4:3, 16:10, Auto | | | | |
| 14.Projection Screen Size | 25.9 - 324.9 in (0.66 - 8.25 m) | | | | |
| 15.Throw Ratio (D/W) | 1.39 ~ 2.09 | | | | |
| 16. Aspect Ratio | 16:9 (native), 4:3 & 16:10 / Selective: Native / Fill / Letterbox | | | | |
| 17. Keystone Correction | +/- 40° (vertical only) | | | | |



| 101 (0 | | | |
|--------------------|--|--|--|
| 18.Input Sources | HDMI, VGA x 2, Composite Video, | | |
| | S-Video, 3.5 mm stereo input x 2, | | |
| | RS232C, USB Type B (control & | | |
| | firmware) | | |
| 19. Output Sources | Monitor out (VGA), Audio out (3.5 | | |
| | mm) | | |
| | | | |
| 20. Control | Projector Keypad, IR Remote, RS232, | | |
| | USB B for presentation control | | |
| | | | |
| 21. Accessories | Power cord, VGA cable, Safety | | |
| included | instructions, User manual, Remote | | |
| | control | | |
| 22. Carry Case | Soft Carry Case | | |
| 23. Warranty | 1 years comprehensive onsite | | |
| | warranty including parts and labor | | |
| | Partner support at the front should be | | |
| | available | | |
| | Principal/manufacturer backed | | |
| | hardware support also | | |
| | available/included | | |
| | Warranty / Support details against | | |
| | supplied equipment S. No. shall be | | |
| | shown on Principal / manufacturer | | |
| | website | | |
| | Equipment should be new (not | | |
| | refurbished), latest and imported | | |
| | through proper channel. Proof to be | | |
| | provided. | | |



ANNEXURE IV: TECHNICAL SPECIFICATION FOR HD LED TV FOR HEAD OFFICE

| Specification | Description | Compliance (Y/N) | Comments | Model | Reference Brochure |
|--|---|---------------------|----------|-------|-----------------------|
| 1. LED HD TV | Branded (Samsung, Sony or Equalient) | | | | |
| 2. Screen Size | 55 " | | | | |
| 3. Resolution | 1920x1080 | | | | |
| 4. Picture Engine | Hyper Real or equivalent | | | | |
| 5. Dynamic Contrast Ratio | Mega Contrast | | | | |
| 6. Wide Colour Enhancer (Plus) | YES | | | | |
| 7. Connectivity | 2 HDMI Ports, 2 USB Ports, 1 Composite In (AV), Audio Out (Mini Jack) | | | | |
| Digital Clean View | YES | | | | |
| 9. Front Color | Black | | | | |
| 10. Connect Share | USB 2.0 | | | | |
| 11. Energy Efficiency Class | A+ | | | | |
| 12. Power Supply | AC 100-240V 50/60 Hz | | | | |
| 13. Warranty | One year comprehensive on site warranty Provide Warranty / Support document against supplied equipment S. No. shall be shown on Principal / manufacturer document | | | | |
| | Equipment should be new (not refurbished), latest and imported through proper channel. Proof to be provided. | | | | |



ANNEXURE V: TECHNICAL SPECIFICATION FOR HD LED TV USED FOR REGIONAL OFFICES

| Specification | Description | Compliance (Y/N) | Comments | Model | Reference Brochure |
|----------------------------------|--|---------------------|----------|-------|-----------------------|
| 1.LED HD TV | Branded (Samsung, Sony or Equal) | | | | |
| 2.Screen Size | 40'' | | | | |
| 3.Resolution | 1920x1080 | | | | |
| 4.Picture Engine | Hyper Real | | | | |
| 5.Dynamic Contrast Ratio | Mega Contrast | | | | |
| 6.Wide Colour Enhancer (Plus) | YES | | | | |
| 7.Connectivity | 2 HDMI Ports, 2 USB Ports, 1 Composite In (AV), Audio Out (Mini Jack) | | | | |
| 8.Digital Clean View | YES | | | | |
| 9.Front Colour | Black | | | | |
| 10.Connect Share | USB 2.0 | | | | |
| 11.Energy Efficiency Class | A+ | | | | |
| 12.Power Supply | AC 100-240V 50/60 Hz | | | | |
| 13.Warranty | One year comprehensive on site warranty | | | | |
| | One year comprehensive on site warranty | | | | |
| | Provide Warranty / Support document against supplied equipment S. No. shall be shown on Principal / manufacturer document | | | | |



ANNEXURE VI: TECHNICAL SPECIFICATION FOR TV TROLLEY

| Specification | Description | Compliance (Y/N) | Comments |
|--|---------------------------------------|---------------------|----------|
| 1. | 1.1 | | |
| Trolley for Mount HD TV with video conferencing | Stainless steel make | | |
| equipment. | 1.2 | | |
| | Provision to mount camera | | |
| | 1.3 | | |
| | Provision to mount Video Conferencing | | |
| | equipment | | |
| | 1.4 | | |
| | Provision to mount 40" to 60" LED TV | | |
| | 1.5 | | |
| | Mount all cable with integrated sound | | |
| | system | | |
| | | | |



ANNEXURE VII: BILL OF QUANTITY

| S. No | Equipment Details | QTY | Unit Price PKR | Total Price PKR |
|-------|---|-----|-------------------|--------------------|
| 1. | Multipoint Unite for Head Office. (As per specification of Annexure I) | 01 | | |
| 2. | Endpoint Unite for Islamabad and Lahore office. (As per specification of Annexure II) | 02 | | |
| 3. | HD Multimedia Projector (As per specification of Annexure III) | 01 | | |
| 4. | HD Display for Head office (As per specification of Annexure IV) | 01 | | |
| 5. | HD Display for Reginal offices (As per specification of Annexure V) | 02 | | |
| 6. | Trolley for Head office (As per specification of Annexure VI) | 03 | | |

Note: i) <u>Prices are Inclusive of all Taxes</u>

- ii) Breakup of all taxes to be provided separately with the bid.
- iii) <u>Bidder should mention any other charges/optional charges in financial bid deemed</u> <u>necessary to complete and compare final bid amount. (Inclusive all taxes)</u>



ANNEXURE VIII: QUALIFICATION CRITERIA OF THE BID

Following are Qualification criteria required for qualifying a bid as responsive:

- 8.1 Income Tax Certificate / GST Certificate (Copy to be provided) and should be Active Tax Payer status.
- 8.2 Holding Gold / Authorized partnership for Pakistan from the principal/ manufacturer of the equipment and authorize to provide services (Copy to be provided).
- 8.3 Compliance of the offered model / product with the specification mentioned in Technical Information. Annexure I to VI completely filled signed and stamped to be included.
- 8.4 Technical proposal documents be duly signed and stamped.
- 8.5 Successful implementation within last two years of at least six (06) projects of offered brand and equipment category out of which at least three (03) projects* in financial sector (Banks) Testimonial from the customer to be provided.
- 8.6 The supply of Video Conference system (offered brand and category of equipment) orders completed during last 2 years and should have a combined worth of at least Rs. 100 Million (list to be provided).
- 8.7 Confirmation of good level of services, implementation and technical expertise from existing customers list. In case of unsatisfactory feedback the bidder will be technically disqualified.
- 8.8 Technical support staff should include professional holding required certification having from equipment manufacturer.
- 8.9 Should provide all documents as mentioned under paragraph 5.3 of this tender document.
- 8.10 Completely Filled Bill of Quantity as per equipment quantity given under Annex VI.
- 8.11 Proof of Company being in operation for at least 3 years in Pakistan in relevant business.
- 8.12 Company must have offices and resident engineers in Karachi, Lahore and Islamabad. Documentary Evidence should be provided.
- 8.13 Proposed solution must be in full compliance with the scope of work
- 8.14 Proposed solution must meet all general terms & conditions criteria
- 8.15 Planned project time from the initial signing of the contracts to completion.
- 8.16 Vendor should submit draft maintenance support SLA.
 - * Project listed should be same as offered brand with same /or higher specification than this Tender.