

Additional Features for Reverse Auction of Video Conferencing End Points.

These features are over and above the specifications displayed in the RA and are for mandatory compliance.

VIDEO	
Signal system	The system should support PAL and should be a point-to-point system with codec, Full High Definition 1080p camera with a minimum of 10xzoom, MIC, remote control, cable and power supply.
Standards and protocol	H.263, H.264 high profile, H.264 Baseline Profile or better.
Resolution	The system should support video resolution from 4CIF (Common Intermediate Format), VGA, SVGA, 720p,1080p@60fps. The PC resolution should be 1080p.
Frame rate	Minimum 60 fps.
Band width	Upto 4Mbps point to point on IP.
Video Inputs	The system should have 2 video Inputs to connect 1XHD camera and 1 for PC DVI (Digital Video Interface)/HDMI.
Video outputs	The system should have 2 video outputs 2XHDMI (High-Definition Multimedia Interface)/DVI for connection two HD display:DVI.
Picture in Picture	Should support picture in picture (PIP).

AUDIO	
Standards and Protocol	G.711,G.722,G.722.1 or better.
Features	CD-Quality audio or Equivalent or High Instant Adaptation Echo Cancellation or Equivalent or Higher Automatic Gain control (AGC) or Equivalent or Higher Automatic Noise suppression (ANS) or Equivalent or Higher.
Audio Inputs	The system should have 2 Audio inputs (2XRCA Phone connectors) or Equivalent or Higher.
Audio outputs	The system should have 2XRCA Phone or Equivalent or Higher.
Lip synchronization	Active Lip Synchronization or Equivalent or Higher.

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NETWORK	
Features	The system should be IPv6 day one. The system should have features such as QoS/RSVP Standards or equivalent or higher, Packet less based down speeding TCP/IP, DHCP (Dynamic Host Configuration Protocol), Auto Gatekeeper discovery, Dynamic Layout/lip sync buffering DTMF (Dual Tone Multi Frequency) signalling tone, Date and Time.
ITU-T standards	DUAL STREAM:- The system should have capability to support H.239 in both H.323 and SIP mode.
Network Protocols	The system should have H.323 and SIP capability.
Interfaces	Gigabit LAN Port.
Inbuilt MCU in end point	End point should have option of inbuilt MCU (1+6).
Security	Should support data encryption for better security.

CAMERA	
Image	1/3 CCD / CMOS.
Pan	+/-75 Degree or more.
Tilt	+ 10 degree /- 15 degree or more.
Focus	Automatic/Manual.
Total field of view	250 degree or better.
Horizontal view angle	65 degree or better.
Zoom ratio	10x Zoom optical or better.
Remote Control	IR/Wireless.
Microphone	2 x 360 degree voice pickup microphone.
Administration	The administration of the Video endpoint should be through Web interface using HTTPS/HTTP (Hyper Text Transfer Protocol Secure).

GENERAL	
Warranty	OEM warranty should be 3 years or more.
Supporting Documents	Original Ink Signed documents in support of additional features may be submitted to the indentor at SSB, FHQ, East Block-V, R.K. Puram, New Delhi-66 Tele Phone No. 011-26168398.
Service Centre	Service Centre of OEM should be available at Bihar, UP, J&K, WB, HP and North East.

DELIVERY LOCATIONS	
UNIT	ADDRESS
4 TH BN LUCKNOW	THE COMMANDANT 4 TH BN SSB,LUCKNOW, MOHANLAL GANJ,NEW POLICE LINE, OPP. SGPGL, PO:- KALLI PACHHIM, DIST:-LUCKNOW(UP) PIN:-223601
50 TH BN TULSIPUR	THE COMMANDANT 50 TH BN SSB, TULSIPUR, PO:-TULSIPUR, DIST:-BALRAMPUR, (UP)PIN:-271208.
71 ST BN GWALIOR AT 4 TH BN LUCKNOW	R.K. PURAM EAST BLOCK V, FHQ SSB NEW DELHI 110066
SHQ GANGTOK	THE D.I.G, SHQ,SSB.GANGTOK, SHALEM LEE BUILDING, DEVELOPMENT AREA, PO:- GANGTOK DIST:-EAST SIKKIM, (SIKKIM)PIN:-737101.
63 RD BN BARASAT	THE COMMANDANT, 63 RD BN SSB, BARASAT, PO:-SADHANPUR, DIST:-24 PARGANAS(NORTH) (WB)PIN:-743221.
SHQ BETIA	THE D.I.G SHQ,SSB,BETIA AT NARKATAIGANJ PO:-NARKATAIGANJ, DIST:-WEST CHAMPARAN, (BIHAR)PIN:-845455.
35 TH BN BIJAYPUR	THE COMMANDANT, 35 TH BN SSB,BIJAYPUR, IRRIGATION COLONEY,DUMKA PO:- BANDO HARIPUR, DIST:DUMKA(JHARKHAND) PIN:-814110.
32 ND BN MUZAFFARPUR	THE COMMANDANT 32 ND BN SSB, MUZAFFARPUR IDPL COMPLEX,BELA,

	PO:-MIC,BELA, DIST:-MUZAFFARPUR(BIHAR) PIN:-842005
SHQ GAYA	THE D.I.G SHQ,SSB,GAYA, PO & TEH:- GAYA DIST:-GAYA, STATE:-BIHAR PIN:- 823004,
29 TH BN GAYA	THE COMMANDANT 29 TH BN SSB, GAYA, VILL:-DHANAWA, PO:-BODHGAYA, DIST:-GAYA,(BIHAR) PIN:-823004
73 RD BN BENGALURU AT 47 TH BN PIPRAKOTHI	R.K. PURAM EAST BLOCK V, FHQ SSB NEW DELHI 110066
16 TH BN SSB JAMUI	THE COMMANDANT 16 TH BN SSB, PAKRI,KHAIRA, PO:-KHAIRA,DIST:-JAMUI, (BIHAR)PIN:-811317.
26 TH BN RANCHI	THE COMMANDANT 26 TH BN SSB, RANCHI, VILL:-KHATANGA, PO:-SUGNU, DISTT:- RANCHI, (JHARKHAND) PIN:- 835103.
SHQ RANGIA	THE D.I.G, SHQ ,SSB, RANGIA PO:- RANGIA, DIST:- KAMRUP, STATE:-ASSAM,PIN:-781354.
54 TH BN BIJNI	THE COMMANDANT 54 TH BN SSB,BIJNI, PO:-ANANDA BAZAR, DIST:-CHIRAG, (ASSAM)PIN:-783390
69 TH BN JAMNAGAR	THE COMMANDANT, 69 TH BN SSB,JAMNAGAR, NEAR GOVT.POLYTECHNIC COLLEGE, VALSURA ROAD, PO:-BEDI, DIST:-JAMNAGAR, (GUJARAT)PIN:-361009.
64 TH BN ADABARI	THE COMMANDANT

	64 TH BN SSB, ADABARI, PO:- CHARAIKHOLA, DIST:-KOKHRAJHAR(ASSAM) PIN:-783376
SHQ HQRS DEVENDRA NAGAR	THE D.I.G, SHQ,SSB,DEVENDRA NAGAR, PO:- KHALI HAMARI, DIST:-SONITPUR,(ASSAM) PIN:- 784026.
SHQ BOMDILA	THE D.I.G, SSB, BOMDILA, PO & DISTT:- BOMDILA (ARUNACHAL PRADESH) PIN:- 790001.
65 TH BN YELKI	THE COMMANDANT 65 TH BN SSB, YELKI, PO:- YELKI, TEH:-KALAMRURI, DIST:-HINGOLI,(MAHARASTRA) PIN:-431701.
23 RD BN UDALGURI	THE COMMANDANT 23 RD BN SSB, UDALGURI, PO:- LALPOOL BAZAR, DIST:-UDALGURI, (ASSAM)PIN:-784514.
5 TH BN CHAMPAWAT	THE COMMANDANT 5 TH BN SSB,CHAMPAWAT, PO & DISTT:- CHAMPAWAT, (UTTARA KHAND) PIN:- 262523.
55 TH BN PITHORAGARH	THE COMMANDANT 55 TH BN SSB,PITHORAGARH, PO:-AICHOLI, DIST:-PITHORAGARH, (UTTRA KHAND) PIN:-262530.
57 TH BN AMRITPUR	THE COMMANDANT 57 TH BN SSB, AMRITPUR, PO:- AMRITPUR DIST:-NAINITAL,(UTTRA KHAND) PIN:-263126
SHQ BHILLAI	THE D.I.G, SHQ HQRS(SPL.OPS)SSB, ABHILASHA APPARTMENT

	(OPP.GOV.T.HIGH SCHOOL) AASHISH NAGAR(EAST) PO:-MARODA, KRISHNA TALKIES ROAD RISALI BHILAI DIST:-DURG(CHATTISGARH) PIN:-490006.
33 RD BN KEWTI,CG	THE COMMANDANT 33 RD BN SSB, KEWTI, PO&PS:-BHANUPRATAPUR, DISTT:-KANKER,CHHATTISGARH PIN:-494669.
28 TH BN ANTAGARAH	THE COMMANDANT 28 TH BN SSB, ANTAGARAH, VILL:-KUCHE PO:-ANANTAGARH, DIST:-KANKER,(CHHATTISGARH) PIN:-494665.
13 TH BN SKIMS SOURA(J&K)	THE COMMANDANT, 13 TH BN SSB, SKIMS SOURA, PO:-NOWSHERA, DIST:-SRINAGAR, (J&K)PIN:-190011.
10 TH BN SRINAGAR	THE COMMANDANT 10 TH BN SSB SRINAGAR, TATOO GROUND BATMALOO, PO:- KARANAGAR, GOLE MARKET, DIST:-SRINAGAR, (J&K)PIN:-190010.
2 ND BN BABATENG(J&k)	THE COMMANDANT 2 ND BN SSB, BABATENG, NEAR SDPO OFFICE COMPLEX, PATTAN PO&PS:- PATTAN , DIST:- BARAMULLA, (J&K)PIN:-193121.
14 TH BN RAMBAN	THE COMMANDANT 14 TH BN SSB, DHARAMKUND, PO:-DHARAMKUND, DIST:-RAMBAN, (J&K)PIN:-182144.
SHQ BANGLORE	R.K. PURAM EAST BLOCK V, FHQ SSB NEW DELHI 110066

66 TH BN JAMMU	THE COMMANDANT 66 TH BN SSB JAMMU, SACRED HEART COLLAGE OF EDUCATION LOWER ROOP NAGAR PO:- ROOP NAGAR DIST:- JAMMU (J&K)PIN:-180013.
7 TH BN BATOTE	THE COMMANDANT 7 TH BN SSB, BATOTE, NEAR BY PASS ROAD NHIB, PO:-BATOTE,DIST:-RAMBAN, (J&K)PIN:-182143.
67 TH BN SAMSHI	THE COMMANDANT, 67 TH BN SSB,SHAMSHI PO:-SHAMSHI DIST:-KULLU(H.P) PIN:-175126
69 TH BN TEZPUR(NOW JAMNAGAR)	R.K. PURAM EAST BLOCK V, FHQ SSB NEW DELHI 110066
70 TH BN JAIPUR AT RTC ALWAR	R.K. PURAM EAST BLOCK V, FHQ SSB NEW DELHI 110066
72 ND BN BHOPAL AT RTC BHOPAL	R.K. PURAM EAST BLOCK V, FHQ SSB NEW DELHI 110066
58 TH BN	R.K. PURAM EAST BLOCK V, FHQ SSB NEW DELHI 110066.
60 TH BN	R.K. PURAM EAST BLOCK V, FHQ SSB NEW DELHI 110066
DTC DERA ALWAR	THE COMMANDANT D.T.C BREEDING CENTRE, SSB DERA, TEH:-RENI, DIST:-ALWAR(RAJ) PIN:-301409.
RTC ALWAR	THE COMMANDANT RTC, SSB, ALWAR, VILL:-MAUZPUR PO:-ROOND DIST:-ALWAR,(RAJ) PIN:-321633.

