

Request for Proposal

For

Supply, Installation, Testing, Commissioning and Training of Television, Internet Radio station and Community Radio Station equipments and Studio lightings

Request for Proposal (RFP) No: **BECIL\JIPMER\PONDY\TV&IR\Equip\2017-18** dated: 20/12/2017

1. Sealed Request for Proposal (RFP) complete in all respect to be submitted in sealed envelope are to be submitted on **Two Bid basis** with separate Technical (Part – I) and Financial Bids (Part – II) sealed in separate envelopes clearly marked on the respective envelopes as “Technical Bid” and “Financial Bid”, respectively and then submitted in a sealed cover clearly super scribed as bids for **Supply, Installation, Testing, Commissioning and Training of Television, Internet Radio station and Community Radio Station equipments and Studio lightings. The EMD and Tender Fee for the tender shall be enclosed ONLY along with the Technical Bid.**

Also Please mention the RFP ref no:

RFP No: **BECIL\JIPMER\PONDY\TV&IR\Equip\2017-18** dated: 20/12/2017

(separate envelope for technical documents towards eligibility criteria, tender fee, EMD and the price bid/commercial offer) super scribed as **“Supply, Installation, Testing, Commissioning and Training of Television, Internet Radio station and Community Radio Station equipments and Studio lightings”**

Please super scribe above mentioned Title, RFP reference and date of opening of the RFP on the sealed cover to avoid the RFP response being declared invalid.

2. The address and contact numbers for sending RFP response or seeking clarifications regarding this RFP are given below:

a.	Bids/queries to be addressed to	Mrs. Usha Mangalgi, Assistant General Manager
b.	Postal address for sending the Bids	BECIL Regional office, House No.162, II Main, I Cross, AGS Layout, RMV II Stage, Bangalore – 560094
c.	Name/designation of the contact personnel	Mrs. Usha Mangalgi, Assistant General Manager
d.	Telephone number of the contact personnel	080-23415853
e.	e-mail ids of contact personnel	Bangalore@becil.com , usha@becil.com
f.	Fax number	080-23415853

3. This RFP is divided into five parts as follows:

- a) **Part I: Contains General Information and instructions for the bidders about the RFP such as the time, cost of RFP document, EMD, place of submission and opening of RFP, validity period of RFP etc.**
- b) **Part II: Containing essential details of the services required, such as the prerequisite of the bidder/agency, technical details and eligibility criteria etc.**

- c) **Part III: Contains Standard Conditions of RFP, which will form part of the Contract with the successful bidder/agency.**
 - d) **Part IV: Contains Special Conditions applicable to this RFP and which will also form part of the contract with the successful bidder/agency.**
 - e) **Part V: Evaluation Criteria and Commercial offer issues.**
4. This RFP is being issued with no financial commitment and BECIL reserves the right to change or vary any part thereof at any stage. BECIL also reserves the right to withdraw the RFP should it become necessary at any stage.

Part I – General Information

1. Last date and time for depositing the RFP:

19/01/2018 - up to 1500 hrs

The sealed RFP should be deposited/reach by the due date and time. The responsibility to ensure this lies with the bidder/agency.

2. Manner of depositing the RFP response: Sealed RFP should be either dropped in the Tender Box or sent by registered post at the address **BECIL Regional office, House No.162, II Main, I Cross, AGS Layout, RMV II Stage, Bangalore – 560094** so as to reach by the due date and time. Late RFP will not be considered. **No responsibility will be taken for postal delay or non-delivery/ non-receipt of RFP documents. RFP sent by FAX or e-mail will not be considered.**

3. Pre-bid meeting

8/01/2018 at 1100 hrs at BECIL Regional office, House No.162, II Main, I Cross, AGS Layout, RMV II Stage, Bangalore – 560094

4. Time and date for opening of RFP:

19/01/2018 - 1530 hrs

(If due to any exigency, the due date for opening of the RFP is declared a closed holiday, the RFP will be opened on the next working day at the same time or on any other day/time, as intimated by BECIL).

5. Location of the Tender Box:

Reception,
Broadcast Engineering Consultants India Limited
BECIL Regional office, House No.162, II Main, I Cross, AGS Layout, RMV II Stage, Bangalore – 560094

Only those RFP that are found in the tender box or received by post before the due date of submission would be considered for opening.

6. Place of opening of the RFP:

Reception,
Broadcast Engineering Consultants India Limited
BECIL Regional office, House No.162, II Main, I Cross, AGS Layout, RMV II Stage, Bangalore – 560094

Agencies may depute their representatives, duly authorized in writing, to attend the opening of RFP on the due date and time. Details of RFP fee and technical clauses quoted by all agencies would be read out in the presence of the representatives of all the agencies, if required. **This event will not be postponed due to non-presence of your representative.**

7. Forwarding of RFP:

RFP should be forwarded by agencies under their original letter pad inter alia furnishing details like TIN number (if any), ESI, EPF number, PAN Number, GST Number, Bank branch address with e-payment account etc. with complete postal & e-mail address, contact number of their office.

- (a) Sealed envelope-1 super scribed “Tender Fee & EMD”
- (b) Sealed envelope-2 super scribed “Technical document towards eligibility criteria”
- (c) Sealed envelope-3 super scribed “Commercial Offer”
- (d) Sealed envelope-4 (containing sealed envelopes 1, 2 and 3) super scribed “Supply, Installation, Testing, Commissioning and Training of Television, Internet Radio station and Community Radio Station equipments and Studio lightings”

8. Clarification regarding contents of the RFP:

A prospective bidder who requires clarification regarding the contents of the RFP document shall notify to BECIL in writing about the clarifications sought not later than 5 (Five) days prior to the date of opening of the RFP. Copies of the query and clarification issued by BECIL will be sent to all prospective bidders who have received the RFP document and will also be posted on website WWW.becil.com.

9. Modification and withdrawal of RFP:

An agency may modify or withdraw his RFP after submission provided that the written notice of modification or withdrawal is received by BECIL prior to deadline prescribed for submission of RFP. A withdrawal notice may be sent by fax but it should be followed by a signed confirmation copy to be sent by post and such signed confirmation should reach BECIL not later than the deadline for submission of RFP. **No RFP shall be modified after the deadline for submission. No RFP may be withdrawn in the interval between the deadline for submission of RFP and expiration of the period of RFP validity specified. Withdrawal of RFP during this period will result in agency's forfeiture of bid security.**

10. Clarification regarding contents of the RFP:

During evaluation and comparison of RFP, BECIL may, at its discretion, ask the agency for clarification of his RFP. The request for clarification will be given in writing and no change in prices or substance of the RFP will be sought, offered or permitted. **No post-RFP clarification on the initiative of the agency will be entertained.**

11. Rejection of RFP:

Canvassing by the agency in any form, unsolicited letter and post-RFP correction may invoke summary rejection with forfeiture of EMD / Bank Guarantee. Conditional RFP will be rejected.

12. Unwillingness to quote:

Agencies unwilling to offer should ensure that intimation to this effect reaches before the due date and time of opening of the RFP, failing which the defaulting bidder may be delisted for the given range of items as mentioned in this RFP.

13. Validity of RFP:

The RFP should remain valid for three months from the date of opening of the RFP.

14. Cost of RFP:

Detailed RFP document can be obtained from the O/o Assistant General Manager, BECIL, Bangalore on any working day between 1000 hrs to 1700 hrs on payment of Rs. 550/- (Rs Five Hundred Fifty Only) (non refundable) in the form of demand draft valid up to 3 months from the last date of submission of this RFP. Complete RFP document can also be downloaded from our website www.becil.com and eprocure.gov.in (Central Public Procurement Portal). The down loaded RFP document can be submitted by paying Rs. 550/- (Rs Five Thousand Only) in the form of demand draft in favor of Broadcast Engineering Consultants India Limited, payable at Bengaluru and to be enclosed with the filled-in RFP documents.

15. Earnest Money Deposit (EMD):

The bidder/agency shall have to submit Earnest Money Deposit (EMD) of Rs. 2,40,000/- (Rs. Two Lakhs forty thousand Only). The EMD may be submitted in the form of Demand Draft/BG, Banker's Cheque in favor of **Broadcast Engineering Consultants India Limited, Payable at Bangalore** from any of the Public Sector Banks or a private Sector Bank authorized to conduct government business.

The EMD shall be part of the Technical Bid. Bids not accompanied with EMD shall stand rejected. No interest shall be paid on the EMD amount. In case of wrong information/ bidder has hidden material fact, EMD will be forfeited. EMD should be valid for a period of 180 (One Eighty) days from Proposal Due Date. The Bid Security / EMD will be refunded to unsuccessful Applicant agencies within 30 (Thirty) days of completion of selection process..

16. Opening of RFP:

The envelope-1 containing “Tender Fee & EMD” would be opened first and if the fee is found as per RFP notice then the “technical documents towards eligibility criteria” would be opened on the time and date mentioned above.

The price bid/commercial offer of only those bidders will be opened (at a later stage) whose documents towards eligibility criteria are found compliant/suitable after technical evaluation is done by the committee.

Part II
Scope of work, Eligibility Criteria (Terms & Conditions) and Technical Details:

1. Eligibility Criteria (Terms & Conditions) and Technical Details:

- (i) It's preferred that the agency have office in India.
- (ii) The agency shall not sub-contract or transfer the contract to any other firm or another supplier/contractor.
- (iii) The agency should have valid registration with all statutory authorities such as central/state labor dept, ESI, PF and GST authorities etc.
- (iv) The agency must submit documentary evidence in support of fulfilling eligibility criteria mentioned above.
- (v) The agency must furnish a copy of audited balance sheet along with annual income tax return for last three years i.e. for FY 2014-15, 2015-16, 2016-17.

2. Eligibility Criteria:

S. No	Eligibility Criteria	Remarks/Supporting Documents
1.	Completion Certificates/Work orders issued by client to be submitted for Experience of having successfully completed similar works during last 5 years ending last day of month previous to the one in which bids are invited should be either of the following: - Three similar completed works costing not less than the amount Rs. 50 Lakhs OR Two similar completed works costing not less than the amount Rs. 60 Lakhs OR One similar completed work costing not less than the amount of Rs.100 Lakhs Similar work means, supply, installation, testing and commissioning of TV studio & CRS studio project.	Copies of work orders / agreements/Completion certificates. In case if the customer happens to be a private company or individual, completion certificate along with TDS issued by the customer for the said project will be attached as proof of executed value of the work. Bidder has to show all the substantial documents if requires
4.	The agency to provide the list of clients	List with name of client, authorized representative and contact details
5.	The bidders shall provide PAN, GST registration certificate, ESI, EPF registration certificate under their own name. The registration must be in force and shall not expire during the course of - contract/work.	Copies of all mentioned certificate to be enclosed
6.	It's preferred that the agency have office in India with presence in all the major cities of India	Self-certified address of the India office (shall be verified by BECIL)
7.	The agency should have average turnover of Rs. 1.5 Crores in last three financial years (i.e. FY 2014-15, 2015-16, 2016-17) in India.	Audited balance sheet and Profit and Loss statement should be enclosed along with the CA certificate from Statutory Auditors that they have positive net worth as on 31/03/2017. Copies of last three financial year's Income tax return certificates.
8.	The agency should not be blacklisted by any Central Government/State Government/PSU/Government bodies/Autonomous Bodies/Private Sector.	Undertaking on Company Letterhead with Company Seal and signature of authorized person

2.1 Additional essential documents required

- a) The bidders must submit Letter of Authorization in original from the OEM for all the major equipment offered by them in the format of authorisation in the RFP.
- b) Solvency certificate for an amount of **Rs.50 lakhs** from any nationalized or scheduled bank and issued within a period of 6 Months from the final date of submission of the tender.
- c) Particulars of the partners or related / inter-linked company in India for sales, installation / commissioning and support (for principals/OEMS) or, principals with whom you have a tie-up (in the case of integrators).

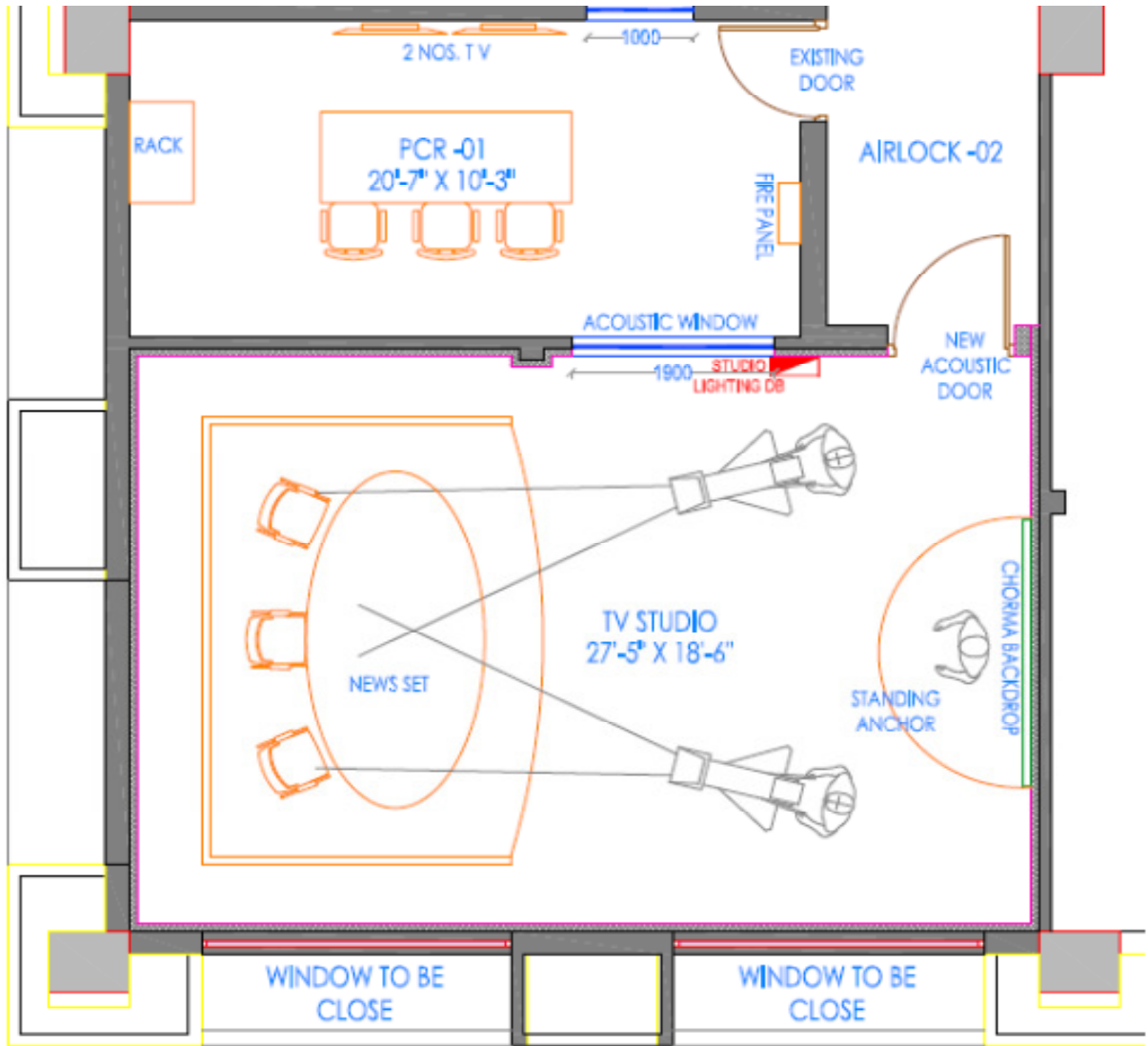
3. Bidder's Scope of work:

Main HD studio equipments setup

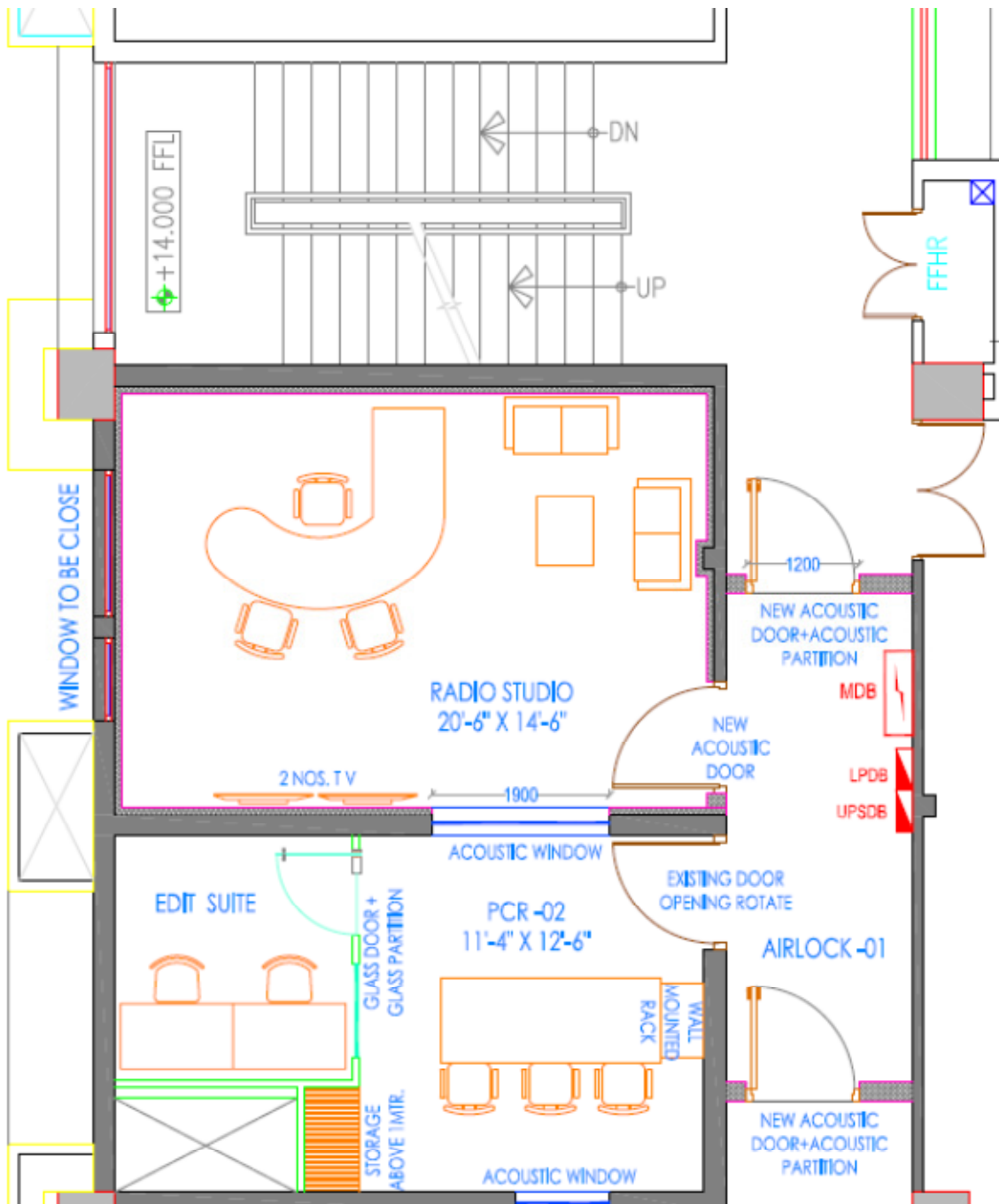
- i. Integrated Television production system for HD vision/audio mixing, internet streaming with virtual studio: This production equipment should have facility to take four external video sources for production purpose for generation of content from multiple video and audio sources. The output of the individual camera shall be stored on internal 2 TB HDD. It should have the capability to simultaneously record all 4 sources on the internal hard disk. The quoted switcher should have integrated solution for LIVE production, Recordings, Graphics, Titling, HD Virtual sets, audio console, built in streaming and web publishing.
- ii. Audio console: 16 input digital audio console for final audio production from different audio sources.
- iii. Studio talk back system: which is a communication channel between producer at the control room and the presenter & camera men in the studio floor. The studio end should be equipped with press-to-talk microphone and also an earphone based communication device for communication with producer at control room.
- iv. Microphones: Leveller and handheld microphones to be provided in the studio for capturing audios of Presenters/Teachers and guests participating in the group discussion.
- v. Teleprompter: Prompter shall be used in any Indian language for helping the anchor / presenter/ teacher for smooth delivery of the presentation
- vi. Post production system: NLE systems shall be used for post production activity. The edited video programs shall be played back in real time for broadcast/ streaming and the system shall also be capable of transferring the content on DVDs

3.1 Technical Drawings:

A. TV studio layout at JIPMER



B. Internet Radio studio layout at JIPMER



3.2 Bill of Material of the Studio Equipments

A. Bill of Material of the equipments for the TV studio.

SL	DESCRIPTION	Qty
1.	Tripod with dolly and zoom control suitable for camcorder along with the suitable carry case.	3 No's
2.	Integrated Television production switcher for HD vision/audio mixing, built-in multi viewer, graphics with internet streaming.	1 No's
3.	Teleprompter	1 No's
4.	Talk Back System	1 No's
5.	Telephone Hybrid	1 No's
6.	Audio console	1 No's
7.	32" picture flat panel display panel for studio device LCD/LED with moving pedestal stand	1 No's
8.	48" Flat Panel Display Device (LCD/ LED) for PCR with wall mount and moving pedestal stand	1 No's
9.	Headphones	2 No's
10.	Lavaliere Microphones	4 No's
11.	Back-Electret Condenser Microphone, clip and grille/windscreen.	2 No's
12.	Microphones: General Recording	2 No's
13.	In-Ear piece for anchor	2 No's
14.	Audio Distribution Amplifier	1 No's
15.	Digital SD/HD-SDI video distribution amplifier	1 No's
16.	SD/HD Digital video recorder	1 No's
17.	Non - Linear Editing System with two monitors, speaker and headphones.	2 No's
18.	8 port Gigabit Ethernet Switch	1 No's
19.	16 x 2 TB unified storage	1 No's
20.	SDI to HDMI converter	
21.	Speakers on studio floor and PCR	1 Pair
22.	DVD/CD Recorder/Player	1 No's
23.	Supply, installation, testing and commissioning of 23U rack with accessories like front glass door, rear door, castor, fans, 6/16A AC distribution sockets with provision of dual input power supply, hardware, key board tray, shelf, cable manager etc. complete as required.	1 Nos.
24.	Cables, connectors, DDA & ADA, patch panels, power cards, software, DVD, user manuals and all other accessories to complete the HD studio setup. All the necessary software required for proper working of the system is to be supplied in original and should be licensed to JIPMER with perpetual validity	1 Job
25.	Installation, Testing, Commissioning and Training Charges	1 Job

B Bill of Material for internet radio studio

Sl.No	Description	Quantity
1	12 channel digital audio mixer	1No
2	Broadcast Audio Processor	1 No
3	Android phone and IPhone App development with their respective play store registration.	2 job
4	19" , 15 U equipment Rack	1 No
5	Wired Vocal Microphone	4 No's
6	professional Computer system	2 No's
7	PCI based sound card for recording and editing purpose	2 No's
8	Studio monitors	1 pair
9	Professional monitor head phone	3 No's
10	Telephone digital hybrid	1No
11	Portable field recorder	2 No's
12	Live field reporting software	1 pair
13	Cardioid condenser microphone	1 No
14	Near field monitor	1 pair
15	Table top microphone stand (300-600 mm)	4 No's
16	Professional audio editing software one year license	1 No
17	Professional Radio Automation software	1 No.
18	1 year flat CDN service	1 job
19	Supply of cables, connectors, installation material required for connection of all the above equipments supplied for Internet Radio Station	1 job
20	Laying/Installation/Fixing of the equipment's/cables/connectors, testing, commissioning and training, project documentation of the entire project on turnkey basis.	1 job

C. Bill of Material for community radio studio (Only Supply)

SL	Description	Qty
1	Monitor, 50 W	1 Pair
2	8 Channel on-air Broadcast console 1+1	2 No's
3	Dynamic cardioids/condenser Microphones.	6 No's
4	Microphone stands	6 No's
5	Portable solid state field recorders	5 No's
6	Headphones	6 No's
7	Personal computers	2 No's
8	2 channel sound card with differential input.	2 No's
9	Audio Processor	1 No's
10	Phone in Equipment up to 2 lines with provision conference facility/Phone in system	1 No's
11	Professional audio editing software for 1 year	1 Nos
12	Professional Radio automation software	1 Nos
13	3 KVA single phase UPS with 30 min backup	1 Nos

D. Bill Of Material for studio lighting system

S1	Description	Unit	Qty
1	<p><u>SITC of MS Lighting grid all over the studio:</u></p> <ul style="list-style-type: none"> ➤ SITC of MS suspender consisting of fish plate of 150X150X6mm & stud with 12mm threaded rod keep the tubular grid rigidly undergone through 7Tank chemical treatment to keep them rust free and with requisite anchor fastener, duly powder coated in black matt texture finish. ➤ SITC of MS dual barrel 40NB tube of 2mm thickness undergone through 7Tank chemical treatment to keep them rust free duly powder coated in black matt texture finish to create square matrix grid with black type end cap. 	Lot	1

2	<p><u>SITC of Lighting Power control system:</u></p> <ul style="list-style-type: none"> ➤ SITC of Well designed and engineered Wall mount direct light distribution panel with necessary indicators, MCBs and proper ear thing undergone through 7Tank chemical treatment to keep them rust free duly powder coated in black matt texture finish with suitable nylon glands for outing power cables. ➤ SITC of 4-way MS fabricated power lighting junction box made up of 22SWG CRCA sheet of Jindal make undergone through various chemical treatment to keep them rust free and duly powder coated with suitable FC7 nylon glands. ➤ SITC of MS Fabricated duly powder coated DMX signal box and DMX loop box with DMX connectors, undergone through 7 tank process with various chemical treatment to keep them rust free duly powder coated with Matt black texture finish for dimmable points along with the FC7 nylon glands. ➤ SITC of installation Hardware's for complete Grid system and cabling systems 	Lot	1
<u>Light Fixtures</u>			
3	<ul style="list-style-type: none"> ➤ SITC of 90W LED light 3200K/ 5600K panel complete with 2 diffusers, normal operated yoke provided, undergone through 7 Tank chemical treatment to keep them rust free and, duly powder coated in black matt texture finish and technical specifications as below. ➤ Lamp power - 90W • Power supply - 230/240V AC to DC 14V 7A • Power cable - 3 core 1.5 sq. mm. copper PVC insulated • Color Temperature: 3200K • Dimming - 0-100% through manual and DMX • Beam Angle - 30° • Operating Temperature - -30°C to +55°C • Protection rating - IP20 • Dimension - 480 x 530 x 100mm • Weight - 4.5Kg 	Nos	6
4	<p>SITC of 200W LED Fresnel spot light, 3200K / 5600K with 40000 lux at 2mtr in spot, 3200 lux at 3mtr in flood complete with 200mm dia imported German Lens, normal operated yoke provided, undergone through 7 Tank chemical treatment to keep them rust free and, duly powder coated in black matt texture finish and technical specifications as below.</p> <ul style="list-style-type: none"> • Lamp power - 200W • Power supply - 230/240V AC • Power cable - 3 core 1.5 sq. mm. copper PVC insulated • Color Temperature: 3200K • CRI - >90 • Dimming - 0-100% through manual and DMX • Beam Angle - 10°-50° or 30° or 60° • Protection rating - IP20 • Dimension - 395 x 370 x 450mm • Weight - 10Kg. 	Nos	5
<u>Lights for Chroma wall</u>			
6	<p>SITC of 90W LED light panel complete with 2 diffusers, normal operated yoke provided, undergone through 7 Tank chemical treatment to keep them rust free and, duly powder coated in black matt texture finish and technical specifications as below.</p> <ul style="list-style-type: none"> • Lamp power - 90W • Power supply - 230/240V AC to DC 14V 7A • Power cable - 3 core 1.5 sq. mm. copper PVC insulated • Color Temperature: 5600K • Dimming - 0-100% through manual and DMX • Beam Angle - 30° • Operating Temperature - -30°C to +55°C • Protection rating - IP20 • Dimension - 480 x 530 x 100mm • Weight - 4.5Kg. 	Nos	4

7	<p>SITC of 200W LED Fresnel spot light, 5600K with with 26600 lux at 3mtr in spot, 2470 lux at 3mtr in flood complete with 200mm dia imported German Lens, normal operated yoke provided, undergone through 7 Tank chemical treatment to keep them rust free and, duly powder coated in black matt texture finish and technical specifications as below.</p> <ul style="list-style-type: none"> • Lamp power - 200W • Power supply - 230/240V AC • Power cable - 3 core 1.5 sq. mm. copper PVC insulated • Color Temperature: 5600K • CRI - >90 • Dimming - 0-100% through manual and DMX • Beam Angle - 10°-50° or 30° or 60° • Protection rating - IP20 • Dimension - 	Nos	2
8	<p><u>SITC of Light accessories for above quoted lights :-</u> SITC of Diecast aluminium "C" clamp with safety locking chain, duly powder coated in black matt texture finis, Lock - MS threaded Galvanized lock key, Plastic Glass filled nylon moulded M6 key, Pre-treated and black epoxy polyester powder coated and Safe working load – 150Kg. SITC of 1.5mtr long safety bond with lock clip to be fixed around the grid and each lighting fixture to avoid fall of the fixture in case if the "C" clamp is not locked properly . SWL 100Kgs SITC of 4- leaf barndoor, undergone through 7 Tank chemical treatment to keep them rust free and, duly powder coated in black matt texture finish</p>	Lot	1
9	<p><u>SITC of Digital Dimming system consists of Controller for the LED lights.</u>•SITC of 96-channel Digital DmX lighting controller to control all the LED lights.. •SITC Grid mount photo isolator DMX splitter unit 1 DMX input and 8 isolated output with Power Supply: 90-240V AC, 45-63Hz - Control: DMX 512 protocol - Control Signal input: 5 pin XLR female- Size: 482 x 44 x 128mm - Weight: 2Kg SITC of DMX signal cable 5 core for DMX network with 5 pin DMX connecter.</p>	Lot	1
10	SITC of copper un armoured FRLS flexible cable power cables, Powder coated cable trays and consumables	Lot	1

3.3 Brief technical details of each item

A. Detailed technical specification for TV studio

SL	Description	Products similar to or better
1	<p>Tripod Two stage aluminium or carbon fibre tripod: Load capacity: 30Kg. Approx. Bowl : 100mm Minimum Height : 65cm or less Maximum Height : 150cm or more Studio Skid/ Dolly : Wheel diameter : 10/12.5cm Payload : 30kg or more Weight : 7 Kg Cable guard: Yes Break : Yes Tripod, pan and tilt head, dolly with zoom control and all accessories offered should be capable to take load of camera and teleprompter which is put together 30 kg (approx) to operate in the studio setup.</p>	Manfratto/shotto ku/equivalent
2	<p>Integrated Television production equipment for HD vision/audio mixing, internet streaming with virtual studio: Detailed functionalities: Video Inputs: 4 simultaneous live video sources, in any combination of HD-SDI, HD Component, SD-SDI, SD Component, Y/C (BNC) or Composite connections. Per-input format configuration scalar and frame synchronizer enabling intermixing of formats. Video output: HD-SDI, HD Component, SD-SDI, SD Component, Y/C (BNC) or Composite - HDMI, DVI and VGA output for displays or projector - Network output for live streaming Virtual sets: 30+ HD live virtual sets, with multiple camera angles, real-time reflections, specular highlights, animated zoom and presets Recording: Multi-track, multi-format recording of up to 4 simultaneous channels. Native recording in up to 1080p with time code Audio Mixing: Integrated multi-channel audio mixer for internal and external audio sources, outputs, stream and headphones Live Streaming: HD live streaming via Gigabit connection, with presets in up to 720p, supporting most common streaming profiles and custom multi-bit rate streaming profiles, configured via browser based plug-ins, Adobe® Flash® to Flash media server connections or Microsoft® Windows Media® Push/Pull, Streaming Profile Manager with integrated Web browser and integrated Livestream® plug-in Media Publishing: Supports direct content upload to social media networks. Playback Media Formats: AVI, DV, DVCPro, DVCPProHD, FLV, F4V, H.263, H.264, MOV, MKV, MJPEG, MPEG (1, 2, all profiles, program or transport streams), MP4, WMV, WebM, PSD, PNG, TGA, BMP, JPEG, EXR, RAW, TIF, AIFF, MP3, WAV, and more, with Import Media application for batch import with optional transcoding of files (including Apple ProRes) Effects and Transitions: Integrated TransWarp effects engine on all effects channels supports standard transitions, customizable animation store transitions with audio, and overlay effects - Animation Store Creator for custom animations Monitoring: Selectable layouts for user interface and multi view preview displays Video Outputs : 2 X SDI 2 x Analog (configurable for component or Y/c + composite) , HDMI output, 2 display ports for additional displays, Network output for live streaming. Audio Input: SDI (Embedded x 4), 3x2 Balanced ¼” MIC/LINE (XLR/</p>	ROSS, Newtek (Tricaster)

SL	Description	Products similar to or better
	<p>TRS combo: Balance x 2), 1x2 Balanced XLR (MIC/LINE) Phantom power support</p> <p>Audio Output: SDI (Embedded x 2), 2 Balanced XLR All the essential accessories along with control surface, virtual set editor and two monitors for display</p> <p>Bidder should provide hardware control surface, monitor with necessary interface cables.</p>	
3	<p>Teleprompter: Display Device Specification Display Device Size: 19" LCD/LED Monitor TP hood with complete tripod mounting assembly Reading Range : Up to 10 meters Video Input: VGA/ PAL</p> <p>System Requirement Operating System: Windows XP(32 bit or 64 bit) Windows 7(32 bit or 64 bit) Min 2.6Ghz CPU ; 2 GB RAM; 1 Free PCI Express Slot(For Desktop) , Antivirus licensed for one year.</p> <p>Software : Breaking News ,Type N Play ,Import RTF/Doc/Html/Txt ,Import Run Downs , Reader Management, Anchor Messages ,Multi Camera Support ,Background Color Selection ,Date & Time Display ,Bookmarks , Timer ,Auto Detect and import files ,Run Time Script Editing ,Run-Time Run order Updation ,Block Story ,Clip Reference ,Multilingual Support , CDAC software for multi language support. import .rtf and .doc files into the run orders. USB Hand Control unit Required cable and media driver should be available to complete the system.</p>	Auto script, Samvad, Datavideo or equally reputed
4	<p>Intercom System Intercom System should provide 8-Way talkback and tally indicators. The director can select to talk to an individual channel or to all channels simultaneously. No of Port : 8 (Eight) Selectable channel talk, Broadcast all or Mute buttons. Audio output : Inbuilt Speaker Headphone and earphone output Jack Gooseneck Microphone and LED Light. 19" Rack mountable Belt packs: 4 sets Call / Talk Button and volume control on Belt Pack Half Duplex design for Belt Packs Power ON/OFF button, Power indicator Volume Control Carry Case :4 Nos. Each with following Accessories Headset with Microphone: 4 Nos, Bi-color Tally Light indicator. 20 Meter intercom cable, 1.8 m tally cable</p>	Bosch, Datavideo or equally reputed
5	<p>Phone In-Unit : Dimension: 19" Rack mountable base unit Telephone Lines : 2 or more PSTN or GSM interface PSTN Line Interface: Standard Analogue: Balanced on XLR connectors. Level : 0 dBu (Nominal) & 10 dBu maximum Impedance : ≥ 5 k Ohm Analogue : Balanced on XLR connectors Level : 0 dBu (Nominal) & 10 dBu maximum Impedance : ≤ 200 ohms Digital Signal Processing : With in-build DSP (20 bit or better) Frequency response: 250 Hz – 3500 Hz, ± 1 dB THD + N : <0.2%</p>	JK Audio / MKII/equivalent

SL	Description	Products similar to or better
	Signal to Noise Ratio : > 55 dB Power Supply : 230 V± 5% AC 50±2 Hz , Single Phase supply	
6	Audio Console: 16 channel , true 7-bus architecture , 2 stereo inputs, 2 stereo returns, talkback facility, +48 phantom power, 12-segment LED metering, 100mm fader, 6 aux sends,4 of which are pre/post switchable, group and mix inserts, channel direct outputs.	Sound craft, Yamaha, Mackie or equally reputed
7	32" picture flat panel display panel for studio device LCD/LED Visible screen size 32" Panel: LCD/ LED HDTV display capability: 1080i (Full HD), 576i Display resolution: 1,920 (W) x 1,080 (H) Video inputs: USB, composite, component video input, HDMI, PC input, at least one compatible with vision mixer prog., output Power supply: To operate at 230 V ±10%, 50 Hz AC. Mounting With moving pedestal stand	Sony, JVC, Panasonic or equally reputed
8	48" Flat Panel Display Device (LCD/ LED) Visible screen size 48" Panel: LCD/LED HDTV display capability: 1080i (Full HD), 576i Display resolution: 1,920 (W) x 1,080 (H) Video inputs: USB, composite, component video input, HDMI at least one compatible with vision mixer Power supply: To operate at 230 V ±10%, 50 Hz AC. Mounting Wall mount and With moving pedestal stand	Sony, JVC, Panasonic or equally reputed
9	Headphones: Type Closed-Back, Dynamic Frequency Range 20Hz - 20kHz Impedance 55 Ohms Sensitivity 91dB Maximum Input Power 200mW Connectors Gold-Plated 3.5mm Stereo Mini Plug with 1/4" Adapter	AKG, Beyerdynamic ,Audio technical, equally reputed
10	Lavaliere Microphones Back-Electret Condenser Microphone, clip and grille/windscreen. Power supply: 12 - 48 V phantom powered Pick-up pattern: 2 nos. Omni-directional Frequency response 40 - 20,000 Hz ± 3 dB Nominal impedance 1000 Ω Connector 3-pin XLR with integral phantom power adaptor Cable length : 3 m Sensitivity : (free field, no load) (1 kHz) 10 mV/Pa ± 2.5 dB	Audio technica, AKG, Sennheiser
11	Back-Electret Condenser Microphone, clip and grille/windscreen. Power supply: 12 - 48 V phantom powered Pick-up pattern : 2 Cardioid Frequency response 100 - 20,000 Hz ± 3 dB Nominal impedance 800 Ω Connector 3-pin XLR with integral phantom power adaptor Cable length : 3 m Sensitivity : (free field, no load) (1 kHz) 10 mV/Pa ± 2.5 dB	Audio technica , Shure ,AKG

SL	Description	Products similar to or better
12	Microphones: Transducer (Moving Coil) Dynamic Polar Pattern Cardioid Frequency Response 40 Hz - 15 kHz Output Impedance 150 Ohms (350 Ohms Actual) Output Connectors XLR-3M Type	Audio technica , Shure ,AKG
13	Audio Distribution Amplifier • Balance Audio (XLR) for both IN and OUT • Minimum 1 IN 4 OUT	Comcon/Shure or similar
14	Digital SD/HD-SDI video distribution • Reclockable SDI inputs • SD/HD through SDI • Minimum 1 IN and 4 OUT	Blackmagic, Evertz , equally reputed
15	Hard disk based HD Recorder HD/SD SDI input, output and loop through with embedded audio. HD/SD SDI and HDMI output Minimum 2 X 1 TB HDD with enclosure USB & SATA interface Compatible Audio/Video interface with Camera as well as audio and vision mixer. XLR Balance Audio input and output Table top Mounting Recording format (SD,HD) Additional two number 1 TB HDD	Datavideo / Blackmagic Design , equally reputed
16	Non – Linear Editing System Must be a 64 bit application to harness the full power of the Host system. Open timeline capable of editing mixed formats, Codecs, frame rates and also mix SD and HD Resolutions in Real Time. A real-time HD to SD timeline conversion Capable of natively working on different file based formats such as XDCAM, P2 or DSLR media. Should support 3 rd party IO options. Should also support option of Playing Out clip from PCR even as it is being published. Application must have excellent built in search options to locate the Clips. Should support User customizable Layouts. Twin window display of Source and Edited sequence. Compatibility with 3 rd party effect Plug-in from Boris, Sapphire, Red Giant etc. Industry standard Audio plug-in and Audio EQ tools to be part of editing application. Audio mixing to be possible from the Timeline itself. Advanced titling options to be part of the Editing Application. Application must support high end Real-time post Chroma options for Studio Based shoots. Three years subscription. Workstation: Single Intel Xeon E5-1650 3.20Ghz 12MB 1600 6C CPU / 4 TB Hard Drive/ 16GB DDR3-1600 ECC RAM/ 16X Super Multi DVDRW / Windows 7 Pro 64 Bit / NVIDIA Quadro K2000 / 24” full HD LCD/LED dual Monitor, Antivirus licensed for one year I/O card: PCIe capture and playback in SDI/HD-SDI, HDMI and analog	Adobe Premiere, Apple (FCP), Avid (Media composer)
17	Speakers on studio floor : Active speaker (2 way) with wall-mount bracket * (modified) Type Active Low/mid driver 6" or more dimensions: Tweeter dimensions (mm) 25 mm to 50 mm RMS: (Both LF + HF) ≥ 80 watt Frequency response ≤85 Hz - ≥ 15000 Hz	Genelec, Boss, JBL, EV ,Behringer

SL	Description	Products similar to or better
	Max. SPL ≥ 100 dB Protection circuits: Overload Controls: Treble, volume, mic gain, bass, mains switch (on/off) Line inputs: Minimum 1 Line inputs connectors: XLR & 6.3 mm Jack Mic inputs: 6.3 mm Jack & XLR, minimum 1 Line outputs: Minimum 1 Line outputs connectors: 6.3 mm Jack & XLR Operating voltage: 230 V A C ± 10% , 50 Hz Cabinet material: ABS/ Polypropylene / MDF	
18	Unified storage : Single RAID controller, 19" rack-mountable with redundant SMPS. 16x 2 TB Enterprise class SATA Hot-swappable Hard Disk drives. Xeon CPU, 16 GB RAM, 7x 1 GbE ports + 2x 10 GbE ports, monitor, keyboard, mouse and all required accessories to complete the setup.	QSAN, Infortrend, Thecus
19	8 port Gigabit Ethernet Switch	D-Link, TP-Link, Netgear
20	DVD /CD Player	Sony/Philips/Panasonic
21	Supply, installation, testing and commissioning of 23U rack with accessories like front glass door, rear door, castor, fans, 6/16A AC distribution sockets with provision of dual input power supply, hardware, key board tray, shelf, cable manager etc. complete as required.	President, Bestnet, equivalent

B. Detailed technical specification for the Internet Radio studio equipments

SI. No.	Description/Model	Products similar to or better
1	Supply of 12 channel digital audio mixer:	PreSonus/ Yamaha/ Behringer
2	Supply of Broadcast Audio Processor with in-built Encoder/streamer ready for hosting on CDN platform: 10 bands audio processing technology with built in audio streaming for MP3 and AAC, Analog and Digital Input/output on XLR connector , Separate profile tuning facility for On air Processing and Internet streaming. Multiple bit rate selection from 32 to 128 kbps, RJ-45 connector Internet streaming should support to various platform of Desktop, Laptop, Tablet, iPad, Android phones or any such similar communication devices through internet. Multiplatform Universal web player code	ATC labs Model :Perceptual SoundMax Q10-1111
3	Android phone and iPhone App development with their respective playstore registration.	ATC Labs
4	19" , 15 U equipment Rack	Standard
5	Supply of Wired Vocal Microphone: Wired Vocal Microphone with Dynamic Neodymium Magnet microphone element, with frequency response 40Hz- 20kHz, Cardioid polar pattern, and sensitivity of 2.5mV/Pa and output impedance of 200 ohm. The work includes the cost of all approved materials	AKG / Sure/Baredynamic

6	Supply of professional Computer system: Intel® Core™ i7-6700T (2.8 GHz, up to 3.6 GHz, 8 MB cache, 4 cores) , 8 GB DDR4-2133 SDRAM (1 x 8 GB), window 10 OS, 2 TB 7200rpm SATA , 24 inch monitor, Antivirus with one year license	HP/Dell/Acer
7	Supply of Professional PCI based sound card for recording and editing purpose : Specifications: 2/2 balanced analog and digital AES/EBU I/Os Maximum input & Output +24 dBu, AES 11 Synchronization Sampling Frequency 8 to 192 kHz, Drivers: driver SDK, as well as low-latency WDM DirectSound, ASIO, and Wave drivers 32-bit/66 MHz PCI Master mode, PCI and PCI-X compatible interface 24-bit/192 kHz converters LTC input and inter-board Sync.	Digram / M-AUDIO
8	Supply of studio monitors. High frequency driver 1", Low frequency driver 8" woofer, frequency range 37 Hz to 24 KHz. Maximum peak input +23dBu. LF Driver 56 Watt, HF Driver 56Watt Class D Amplifier.	JBL/M Audio / Sonodyne
9	Supply of professional monitor head phone.	Sennheiser/AKG/ Beyerdynamic
10	Supply of one line telephone digital hybrid: Specifications: 1 Line Telephone Hybrids with Send Return, Level Control, Remote Control.	JK Audio/comcon/telos
11	Supply of portable field recorder for off line field recording	Sony/Zoom/Tascam
12	Supply of Live field reporting software: IP based soft codec for live field coverage , Laptop ,Mic, soundcard cable etc.	ATC Labs Model : ALCO Professional
13	Supply of cardioid condenser microphone with shock mount and boom arm: Specifications: sensitivity 28 mV/Pa, Frequency Range 20Hz- 20KHz, Output Impedance 200Ω, Polar Pattern Cardioid,studio boom arm with all accessories.	AKG/Beyerdynamic/CAD
14	Supply of near field monitor: Specifications: High frequency driver 1" , Low frequency driver 8" woofer, frequency range 43 Hz to 24 KHz. Maximum peak input +23dBu. LF Driver 41 Watt, HF Driver 41 Watt Class D Amplifier.	JBL/M Audio / Sonodyne
15	Supply of table top microphone stand (300-600 mm)	standard
16	Supply of professional audio editing software for one year subscription*	Adobe* Model :Adobe Audition CC*
17	Supply of professional Radio Automation software	ATC Labs / Zara /
18.	1 year flat CDN service	Amazon, Model : AWS

C. Detailed technical specification for the Community Radio studio equipments.

SL	Description	Products similar to or better
1	<p>Monitor 50 W : Near field distance-1 to 1.5 Meter distance , Bi-amplified and matched active crossover network, Connectors : Balanced XLR connectors, Volume control facility, Frequency level control, Protection for open circuit, short circuit current and thermal overload, Power supply : 230 v± 5% ac 50±2 Hz, single phase power supply Frequency Response: within ± 3 db between 50 Hz & 18 KHz with respect to 1 kHz. Amplified power : 50 W Input impedance : 10 k ohms (balanced)nominal input level: 0 dbu input level range : -10 Dbu to +10 Dbu Maximum spl continuous : > 104 db</p>	<p>KRK RP5G3</p> <p>Similar Product: M Audio BX5A eluxeD2,PreSonus Iris E5,YahamaHS5,Behringer</p>
2	<p>8 Channel Analog Mixer : Frequency Response: Eight Mic. /Line Input to any output, 20Hz - 20 kHz, <1 db. THD+N: Mic. Sens. -30dbu, +10dbu at all outputs @ 1 kHz, <0.006%. Noise: (a). Measured RMS, 20Hz to 20 KHz Bandwidth, Mic. E.I.N. @ unity gain,150 Ohm , (b)source impedance -128 dbu unity gain,150 Ohm source impedance -128 dbu, (c).Mix Output, 8 inputs routed to mix <-86 dbu (d).Group & Centre Outputs <-86 dbu (e) Aux Outputs <-86 dbu. Input & Output Max Levels: (a). Mono & Stereo Mic. Inputs + 15 dbu (b). Mono & Stereo Line Inputs + 30 dbu, (c). Stereo Returns & Insert Returns + 20 dbu (d). Any output + 20 Dbu (e).Nominal Operating Level 0dbu (f). Headphone Power, 2 x 250mw into 200 ohms. CROSTALK (@1 Khz, TYPICAL) : (a).Input Channel Mute <-97 db(b).Input Fader cut-off <-95db(c).Pan isolation <-77 db(d). Adjacent channel crosstalk <-99 db (e). Group to Mix <-89 db. METERING : Input channels, Single Leds, Signal Present & Peak outputs OUTPUT: 1+1 stereo, additional output for head phone and line POWER: AC mains supply (internal PSU), 90V-240V AC, 50 Hz universal, Power consumption, Less than 100W monitoring. Operating Conditions: Temperature range, -10°c to +30°c, Relative Humidity, 0% to 80%. order shelving LF, 80 Hz, +/-15 db, 2nd order shelving</p>	<p>Sound craft EPM8</p> <p>Similar Product :Behringer Xenyx X222USB,Yamaha MG10XU,</p>
3	<p>Dynamic Cardioid/Condenser Microphones Pattern: Cardioid/super Cardoid pattern Response: on/ off axis and proximity response Frequency range: 50 hz to 15 khz Frequency response: the microphone shall have ± 3 db frequency response over a range of 150 hz to 1.2 Maximum peak with reference to 1khz: maximum +10 db Polar pattern: Cardioid/super cardioids. Front to back ratio: at least 10 db from 250 Hz to 4 kHz. Sensitivity: less than or equal to 600 ohms for connecting to audio input Output impedance: less than or equal to 600 ohms for connecting to audio input of load impedance greater or equal to 2000 ohm. Connectors: 3 Pin XLR Environment:5° c to 40°c and humid conditions of 85% rh at 40° c.</p>	<p>Shure SM58</p> <p>Similar Product :E835 S Dyne,AKGD-5</p>

4	<p>Portable Field Recorder :Recording/Play Mode : Recording media : 2 Gb (or higher) semi-conductor memory Recording format : PCM linear digital format (.wav file format) Power: (a) Internal battery AA or AAA for at least 90 minutes continue recording, (b) internal chargeable battery along with charger Input: (a) with a built-in /externally attached stereo microphone, (b) provision for connecting external microphone(c) provision for line input Output: Connectivity through usb 2.0 to audio workstation for data transfer Monitoring: Provision for headphone monitoring Measurements: frequency response at nominal input and output levels w.r.t. 1 kHz and from 50 hz to 15 khz: within $\pm 3\text{db}$ b).thd + noise at -60 dbu input level and 0 dbu output level (50 hz.to 15 khz.) Weight: Total weight of recorder including batteries should be less than 500 grams (excluding carrying case of equipment) Dimension: The recorder should have compact body and its overall dimensions should be such that it can easily be held in palm or pocket by the recording personnel. Climatic conditions: The unit should be designed to work satisfactorily and meet all the specifications in climatic conditions as existing in India.</p>	<p>Tascam DR-05 Similar Product :Sony ICDUX560,Zoom H1,ZoomH2</p>
5	<p>Headphones :Electrical Specifications : Frequency range : 20- 22000 hz Electrical impedance: less than 75 ohms/channel Sensitivity at 1khz: 100 db spl at 1mw input Max power handling Capacity: 100 mw total harmonic distortion: 0.5% at max. Permissible input level. Headphone diaphragm material : hard polyvinyl chloride or similar ear-pads material: leatherette and velvet Average pressure on ears: max 4/6 n Cord length (may be detachable): at least 5 meter Phone plug: gold plated stereo mini jack (3.5 mm) with gold plated screw-on adaptor (3.5 mm to 6.35 mm) Head-strap: Adjustable .Max power handling capacity: 100 mw total harmonic distortion: 0.5% at max. permissible input level</p>	<p>Sennheiser HD202 Similar Product: Behringer HPS3000, AKG K44V2,AKG K77 Pro.</p>
6	<p>Supply of professional Computer system: Intel® Core™ i7-6700T (2.8 GHz, up to 3.6 GHz, 8 MB cache, 4 cores) , 8 GB DDR4-2133 SDRAM (1 x 8 GB), window 10 OS, 2 TB 7200rpm SATA , 24 inch monitor, speakers : 2 Nos, Keyboard, mouse Antivirus with one year license</p>	<p>HP/Dell.</p>

7	<p>2 channel sound card with differential input sound Card : Sample rates (kHz): 44.1/ 48/88.2/ 96/ 176.4/192 Maximum input: : +14.0dBu (+4 dBu setting), +6 dBV (Consumer Setting), 0dBV (-10 DBV setting) Dynamic range: 99 dB @ (A-weighted) THD + N: Less than 0.0024%, (at 0 dBFS) Frequency response: 20Hz to 20kHz ± 0.3dB Impedance: 10k Ohms minimum Maximum output: : +14.0dBu (+4 dBu setting), +6 dBV (Consumer Setting), 0dBV Dynamic range: 103dB (A-weighted) THD + N: Less than 0.0015%, (at 0 dBFS) Frequency response: 20Hz to 20kHz, ± 0.3dB Impedance (unbalanced): 150 Ohms</p>	M Audio M track USB-2,Pre Sonus Audio Box i2
8	<p>Broadcast Audio Processor : The Broadcast Audio Processor shall be designed for continuous, unattended and trouble free operation in the broadcast chain of a VHF FM transmitter at a CRS. The processor shall have Digital Signal Processing technique. Analog Audio Input :Configuration: Left and Right/ Stereo Nominal Input Level:: Software adjustable from-4.0 to +12.0dBu A/D Conversion: Minimum 24 Bit Connectors: Balanced XLR Female, EMI Suppressed. Analog audio input: Configuration: Left and Right/ Stereo. Flat or pre-emphasized (at 50µs or 75 µs) software selectable. Output Level (100% peak modulation): Adjustable from -6.0 to +20 dBu software adjustable. Signal to Noise: 80 Db un weighted (20Hz to 15 kHz) Distortion (20Hz to 15 kHz): = 0.02% THD. Cross Talk: cross talk -70.0 dB (20 z to 15 kHz) D/A Conversion: Minimum 24 Bit Connectors: Balanced XLR Male, EMI Suppressed. Voltage: 230 Volts AC ± 5%, 50Hz ±2% Connector: IEC, EMI Suppressed, detachable 3-wire power chord. Operating Temperature: 0 to 50 Relative Humidity: Up to 95% Non Condensing Working Altitude: Up to 3000 Mts. Above mean sea level.</p>	ATC Lab Q10-1101 or Equivalent
9	<p>Phone In-Unit : Dimension: 19” Rack mountable base unit Telephone Lines : 2 or more PSTN or GSM interface PSTN Line Interface: Standard Analogue: Balanced on XLR connectors. Level : 0 dBu (Nominal) & 10 dBu maximum Impedance : ≥ 5 k Ohm Analogue : Balanced on XLR connectors Level : 0 dBu (Nominal) & 10 dBu maximum Impedance : ≤ 200 ohms Digital Signal Processing : With in-build DSP (20 bit or better) Frequency response: 250 Hz – 3500 Hz, ± 1 dB THD + N : <0.2% Signal to Noise Ratio : > 55 dB Power Supply : 230 V± 5% AC 50±2 Hz , Single Phase supply</p>	JK Audio Inkeeper 2 / Product: PHONEX D2 MKII/equivalent

D. Detailed technical specification for studio Lighting.

SI No.	Description & Parameters	Makes/model
1	<p>90W LED light panel, 3200 degree K complete with 2 diffusers with 3Mtr cable but without any accessories. Available with spot 30 Degree or flood 60 Degree option.</p> <ul style="list-style-type: none"> * 900 LEDs high brightness with CRI above 90 * TLCI of the LED Fixture above 90 * Colour Temperature of 3200K CCT * Touch pad based dimming system * High frequency flicker free Light * Powder coated Body with 7 tank process chemical treatment * 0 to 100% dimming manual & DMX dimming * Fuse protection for circuitry * CE certified 	Canara Lighting / Kino flo / Lite panel
2	<p>90W LED light panel, 5600 degree K complete with 2 diffusers with 3Mtr cable but without any accessories. Available with spot 30 Degree or flood 60 Degree option.</p> <ul style="list-style-type: none"> * 900 LEDs high brightness with CRI above 90 * TLCI of the LED Fixture above 90 * Colour Temperature of 5600K CCT * Touch pad based dimming system * High frequency flicker free Light * Powder coated Body with 7 tank process chemical treatment * 0 to 100% dimming manual & DMX dimming * Fuse protection for circuitry * CE certified 	Canara Lighting / Kino flo / Lite panel
3	<p>200W LED Fresnel spot light, 3200K complete with 200mm dia imported German lens with 3Mtr cable</p> <ul style="list-style-type: none"> * 200W LED High brightness with CRI above 95 * TLCI of the LED above 90 * Touch pad based dimming system * High frequency flicker free ballast * Aluminium die cast and extrusion sheet housing with 7 tank Rusto cleaning, black powder coat mat finish paint * 0 to 100% dimming manual & DMX * Fuse protection in light fixture * Protection rating - IP20 * CE certified 	Canara Lighting / Kino flo / Lite panel
4	<p>200W LED Fresnel spot light, 5600K complete with 200mm dia imported German lens with 3Mtr cable</p>	Canara Lighting /

	<ul style="list-style-type: none"> * 200W LED High brightness with CRI above 90. * TLCI of the LED above 90. * Touch pad based dimming system. * High frequency flicker free ballast. * Aluminium die cast and extrusion sheet housing with 7 tank Rusto cleaning, black powder coat mat finish paint. * 0 to 100% dimming manual & DMX. * Fuse protection in light fixture. * Protection rating - IP20. * CE certified Light 	Arri / Desiti
5	MS suspender consisting of fish plate of 150X150X6mm undergone through 7Tank chemical treatment to keep them rust free and with requisite anchor fastener, duly powder coated in black matt texture finish & stud with 12mm threaded rod to keep the tubular grid rigidly held With SWL of 200kg.	Customised
6	SITC of MS lighting junction box made up of 22SWG CRCA sheet of jindal make undergone through various chemical treatment to keep them rust free and duly powder coated with suitable glands.	Canara Lighting / Arri / Desiti
7	<p>Well designed and engineered Wall mount 20-way Direct light distribution board</p> <ul style="list-style-type: none"> * Indication Light. * Brass / Nylon gland * 3-phase Suitable MCBs. * Die cast and extrusion sheet housing with 7 tank Rusto cleaning, black powder coat mat finish paint 	Custom as per the standards of practices
8	<p>Digital Lighting Console with 96 dimmer channels with 24 faders, 24 faders x 4 pages Power Supply: 90-240V AC, 45-63 Hz Digital Control Signal input/Output: DMX 512/1990 Digital Control Channel: 512 Channel by Patch able to control CH97-CH512. Audio Input: internal microphone MAX 120dB, output max. value: AC100mV Gooseneck connector stand: XLR 3pin, DC+12V 250mA, Memory Card:64K*2</p>	Liteputer / Zero88 / ADB

3.4 Details of the envisaged services.

Supplying, Installation, Testing, commissioning, training, project documentation warranty and support for one year of the entire project on turnkey basis.

Part III – Standard Conditions of RFP

The agency is required to give confirmation of their acceptance of the Standard Conditions of the RFP mentioned below which will automatically be considered as part of the contract concluded with the successful bidder (i.e. agency/contractor in the contract) as selected by BECIL. Failure to do so may result in rejection of the expression submitted by the bidder.

1. **Law:** The contract shall be considered and made in accordance with the laws of the Republic of India. The contract shall be governed by and interpreted in accordance with the laws of the Republic of India.
2. **Effective Date of Contract:** The contract shall come into effect on the date of signatures of both the parties on the contract (Effective Date) and shall remain valid until the completion of the obligations of the parties under the contract. The deliveries and supplies and performance of the services shall commence from the effective date of the contract.
3. **Arbitration:** All disputes or differences arising out of or in connection with the contract shall be settled by bilateral discussions. Any dispute, disagreement or question arising out of or relating to the contract or relating to services or performance, which cannot be settled amicably, may be resolved through arbitration. The standard clause of arbitration is given in Annexure-II.
4. **Penalty for use of Undue influence:** The contractor/supplier undertakes that he has not given, offered or promised to give, directly or indirectly, any gift, consideration, reward, commission, fees, brokerage or inducement to any person in service of the customer or other wise in procuring the Contracts or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of the present contract or any other contract with the Government of India for showing or forbearing to show favour or disfavor to any person in relation to the present contract or any other contract with the Government of India. Any breach of the aforesaid undertaking by the Contractor/Supplier or any one employed by him or acting on his behalf (whether with or without the knowledge of the contractor) or the commission of any offence by the contractor or anyone employed by him or acting on his behalf, as defined in chapter IX of the Indian Penal Code, 1860 or the Prevention of Corruption Act, 1986 or any other Act enacted for the prevention of corruption shall entitle the customer to cancel the contract and all or any other contracts with the contractor and recover from the contractor the amount of any loss arising from such cancellation. A decision of the customer or his nominee to the effect that a breach of the undertaking had been committed shall be final and binding on the Contractor. Giving or offering of any gift, bribe or inducement or any attempt at any such act on behalf of the contractor towards any officer/employee of the customer or to any other person in a position to influence any officer/employee of the customer for showing any favour in relation to this or any other contract shall render the contractor to such liability/penalty as the customer may deem proper, including but not limited to termination of the contract, imposition of penal damages, forfeiture of the Bank Guarantee and refund the amounts paid by the customer.
5. **Agents/Agency Commission:** The contractor/supplier confirms and declares to BECIL that the contractor is the original provider of the services referred to in this contract and has not engaged any individual or firm, whether Indian or foreign whatsoever, to intercede, facilitate or in any way to recommend to the Government of India or any of its functionaries whether officially or unofficially, to the award of the contract to the contractor, nor has any amount been paid, promised or intended to be paid to any such individual or firm in respect of any such intercession, facilitation or recommendation. The contractor agrees that if it is established at any time to the satisfaction of BECIL that the present declaration is in any way incorrect or if at a later stage it is discovered by BECIL that the contractor has engaged any such individual/firm, and paid or intended to pay any amount, gift, reward, fees,

commission or consideration to such person, party, firm or institution, whether before or after the signing of this contract the contractor will be liable to refund that amount to BECIL. The contractor will also be debarred from entering into any supply contract with the Government of India for a minimum period of five years. BECIL will also have a right to consider cancellation of the contract either wholly or in part, without any entitlement or compensation to the Contractor who shall in such an event is liable to refund all payments made by the customer in terms of the contract along with interest at the rate of 2% per annum above 18% penal rate. BECIL will also have the right to recover any such amount from any contracts concluded earlier by contractor/supplier with the Government of India or with BECIL.

- 6. Access to Books of Accounts:** In case it is found to the satisfaction of BECIL that the contractor has engaged an Agent or paid commission or influenced any person to obtain the contract as described in clauses relating to Agents/Agency Commission and penalty for use of undue influence, the contractor, on a specific request of BECIL shall provide necessary information/inspection of the relevant financial documents/information.
- 7. Non-disclosure of contract documents:** Except with the written consent of the customer, contractor shall not disclose the contract or any provision of the contract or information related to services thereof to any third party.
- 8. Penalty and Liquidated Damages:** In the event of the contractor failure to submit the Bonds, Guarantees and Documents, services as specified in this contract, BECIL may, at his discretion, withhold any payment until the completion of the contract. BECIL may also deduct from the contractor as agreed, liquidated damages to the sum of 1% of the contract price of the delayed services mentioned above for each day subject to the maximum value of the Liquidated Damages being not higher than 10% of the value of delayed services.
- 9. Termination of Contract:** BECIL shall have the right to terminate this contract in part or in full in any of the following cases:-
 - (a) The delivery of the services is delayed for causes not attributed to Force Majeure for more than 15 days after the scheduled date of signing of contract.
 - (b) The contractor is declared bankrupt or becomes insolvent.
 - (c) The delivery of services is delayed due to causes of Force Majeure by more than 01 months provided Force Majeure clauses are included in contract.
 - (d) The customer has noticed that contractor has utilized the services of any agent in getting this contract and paid any commission to such individual/company etc.
 - (e) As per decision of the Arbitration Tribunal.
 - (f) As per Para (8) of Part IV of RFP document.
- 10. Notices:** Any notice required or permitted by the contract shall be written in the English language and may be delivered personally or may be sent by FAX or registered pre-paid mail/airmail, addressed to the last known address of the party to whom it is sent.
- 11. Transfer and Sub-letting:** The contractor has no right to give, bargain, sell, assign or sublet or otherwise dispose of the contract or any part thereof, as well as to give or to let a third party take benefit or advance of the present contract or any part thereof.
- 12. Patents and other Industrial Property Rights:** The prices stated in the present contract shall be deemed to include all amounts payable for the use of patents, copyrights, registered charges, trademarks and payments for any other industrial property rights. The contractor shall indemnify the customer against all claims from a third party at any time on account of the infringement of any or all the rights mentioned in the previous paragraphs whether such claims arise in respect of manufacture or use. The contractor shall be responsible for the completion of the services in satisfactory manner during the currency of the contract.
- 13. Amendments:** No provision of present contract shall be changed or modified in any way (including this provision) either in whole or in part except by an instrument in writing made

after the date of this contract and signed on behalf of both the parties and which expressly states to amend the present Contract.

14. Statutory Duties & Taxes:

- (a) Any change in any duty/tax upward/downward as a result of any statutory variation taking place within contract terms shall be allowed to the extent of actual quantum of such duty/tax paid by the contractor. Similarly, in case of downward revision in any duty/tax, the actual quantum of reduction of such duty/tax shall be reimbursed to BECIL by the contractor. All such adjustments shall include all reliefs, exemptions, Rebates, concession etc. if any obtained by the contractor.
- (b) If it is desired by the agency to ask for the GST to be paid as extra, the same must be specifically stated. In the absence of any such stipulation in the bid, it will be presumed that the prices quoted by the agency are inclusive of GST and no liability will be developed upon the BECIL.
- (c) On the offers quoting GST, the rate and the nature of GST applicable at the time of supply/services should be shown separately. GST will be paid to the contractor at the rate at which it is liable to be assessed or has actually been assessed provided the transaction of services is legally liable to GST and the same is payable as per the terms of the contract.

15. Pre-Integrity Pact Clause: An “Integrity Pact” would be signed between BECIL & successful contractor. This is a binding agreement between BECIL and contractor for specific contracts in which BECIL promises that it will not accept bribes during the procurement and services process and bidder promise that they will not offer bribes. Under this Pact, the Bidders for specific services or contracts agree with the BECIL to carry out the procurement and services in a specified manner. Elements of the Pact are as follows:

- a) A pact (contract) between the BECIL (Principal) and successful contractor for this specific activity (the successful Bidder);
- b) An undertaking by the Principal (i.e. BECIL) that its officials will not demand or accept any bribes, gifts etc., with appropriate disciplinary or criminal sanctions in case of violation;
- c) A statement by successful Bidder that it has not paid, and will not pay, any bribes;
- d) An undertaking by successful Bidder to disclose all payments made in connection with the contract in question to anybody (including agents and other middlemen as well as family members, etc. of officials); the disclosure would be made either at the time of signing of contract or upon demand of the Principal, especially when a suspicion of a violation by that successful bidder/contractor emerges;
- e) The explicit acceptance by successful Bidder that the no-bribery commitment and the disclosure obligation as well as the attendant sanctions remain in force for the winning Bidder until the contract has been fully executed.
- f) Undertaking on behalf of a successful Bidding company/contractor will be made “in the name for and on behalf of the company’s Chief Executive Officer”.
- g) The following set of sanctions shall be enforced for any violation by a Bidder of its commitments or undertaking:
 - (i) Denial or loss of contracts;
 - (ii) Forfeiture of the bid security and performance bond;
 - (iii) Liability for damages to the principal and the competing bidders; and
 - (iv) Debarment of the violator by the principal for an appropriate period of time.
- h) Bidders are also advised to have a company code of conduct (clearly rejecting the use of bribes and other unethical behaviors and compliance program for the implementation of the code of conduct throughout the company.

Part IV – Special Conditions of RFP

The agency is required to give confirmation of their acceptance of special conditions of the RFP mentioned below which will automatically be considered as part of the contract concluded with the successful bidder (i.e. agency/contractor in the contract) as selected by BECIL. Failure to do may result in rejection of RFP submitted by the Bidder.

- (i) **Performance Guarantee:** The agency will be required to furnish a Performance Guarantee by way of Bank Guarantee through a public sector bank or a private section bank authorized to conduct government business (i.e. ICICI Bank Ltd., Axis Bank Ltd or HDFC Bank Ltd.) for a sum equal to 10% of the contract value within 30 days of receipt of the confirmed order. Performance Bank Guarantee should be valid up to 30 days beyond the date of completion of Contract period/defect liability period. The specimen of PBG is given in Annexure III.
- (ii) **Option clause:** The contract will have an Option Clause, wherein BECIL can exercise an option to go for an additional 50% of the original services in accordance with the same rate, terms & conditions of the present contract. This will be applicable within the currency of contract. The agency is to confirm the acceptance of the same for inclusion in the contract. It will be entirely the discretion of the BECIL to exercise this option or not.
- (iii) **Repeat Order Clause:** The contract will have a Repeat Order Clause, wherein BECIL can order similar services under the present contract within currency of the contract at the same rate, terms & conditions of the contract. The agency is to confirm acceptance of this clause. It will be entirely the discretion of BECIL to place the Repeat Order or not.
- (iv) **Payment Terms:** It will be mandatory for the agency to indicate their bank account numbers and other relevant e-payment details so that e-payments could be made through instead of payment through cheque. The payment will be made as per the following terms, on production of the requisite documents:
 - a) Payment would be made to the firm on the basis of events / services provided the agency depending upon their satisfactory performance of work.
 - b) No advance payment would be made at any cost.
 - c) 60% payment will be made on submission of invoice against delivery of full BOQ materials at site duly certified by BECIL.
 - d) The balance 40 percent payment shall be paid on successful commissioning of the project and on submission of invoice and necessary documents.
- (v) **Paying Authority:** The payment would be made by BECIL on submission of following documents:-
 - a) Ink signed copy of the bills against services provided
 - b) Performance report submitted by supervising officer of BECIL.
 - c) Claim for statutory and other levies to be supported with requisite documents/proof of payment such as GST, proof of payment for EPF/ESIC contribution with name of beneficiaries, etc. as applicable.
 - d) Details for electronic payment viz account holder's name, bank name, branch name and address, account type, account number, IFSC code, MICR code (if these details are not incorporated in supply order/contract).
 - e) Any other document/certificate that may be provided for in the Job Order/Contract.
 - f) User Acceptance & Satisfactory Services Report.
 - g) Xerox copy of PBG.

(vi) **Fall Clause:** The following fall clause will form part of the contract placed on successful agency:

- a) The price charged for the services performed under the contract by the contractor shall in no even exceed the lowest price at which the contractor provides the services of identical description to any persons/organization including the customer or any department of the Central Government or any department of state government or any statutory undertaking of the central or state government as the case may be during the period till performance of all services placed during the currency of the contract is completed.
- b) If at any time, during the said period the contractor reduces the service price or offer to provide services to any person/organization including the customer or any department of central Government or any Department of the State Government or any Statutory undertaking of the Central or State Government as the case may be at a price lower than the price chargeable under the contract. Such reduction of services offer of the price shall stand correspondingly reduced.
- c) The contractor shall furnish the following certificate to BECIL along with each bill for payment for services made against the contract—"We certify that there has been no reduction in service price of the similar services to the Government under the contract herein and such services have not been offered/sold by me/us to any person/organization including BECIL or any department of Central Government or any department of a state Government or and Statutory Undertaking of the Central or state Government as the case may be up to the date of bill/the date of completion of services against all job orders/contract placed during the currency of the Contract at price lower than the price charged to the government under the contract.

(vii) **Risk & Expense clause:**

- a) Should the services thereof not be delivered within the time or times specified in the contract documents, or if defective services is made in respect of the services thereof, BECIL shall after granting the contractor seven days to cure the breach, be at liberty, without prejudice to the right to recover liquidated damages as a remedy for breach of contract, to declare the contract as cancelled either wholly or to the extent of such default.
- b) Should the services thereof not perform in accordance with the specifications/parameters provided by the customer during the check proof tests to be done by the customer, the customer shall be at liberty, without prejudice to any other remedies for breach of contract, to cancel the contract wholly or to the extent of such default.
- c) In case of a contractual breach that was not remedied within 07 days, BECIL shall, having given the right of first refusal to the contractor be at liberty to provide services from any other source as he thinks fit, of the same or similar description to services
- d) Any excess of the services price cost of services or value of any services procured from any other contract as the case may be, over the contract price appropriate to such default or balance shall be recoverable from the Contractor by Customer.

(viii) **Force Majeure Clause:**

- a) Neither party shall bear responsibility for the complete or partial non performance of any of its obligations (except for failure to pay any sum which has become due on account of receipt of goods under the provisions of the present contract), if the non-performance results from such Force Majeure circumstances as Flood, Fire, Earth Quake and other acts of God as well as War, Military operation, blockade, Acts or Actions of State Authorities or any other circumstances beyond the parties control that have arisen after the conclusion of the present contract.
- b) In such circumstances the time stipulated for the performance of an obligation under the present contract is extended correspondingly for the period of time of action of these circumstances and their consequences.

- c) The party for which it becomes impossible to meet obligations under this contract due to Force Majeure conditions, is to notify in written form the other party of the beginning and cessation of the above circumstances immediately, but in any case not later than 10 (Ten) days from the moment of their beginning.
- d) Certificate of a Chamber of Commerce (Commerce and Industry) or other competent authority or organization of the respective country shall be a sufficient proof of commencement and cessation of the above circumstances.

If the impossibility of complete or partial performance of an obligation lasts for more than one month's either party hereto reserves the right to terminate the contract totally or partially upon giving prior written notice of 15 days to the other party of the intention to terminate without any liability other than reimbursement on the terms provided in the agreement for the goods received.

(ix) **Misc. terms & conditions of the contract:**

The contractor shall provide the services as and when required and demanded by BECIL. The personnel engaged for the services shall be the employees of the contractor and will take their remuneration/wages from the contractor. They will have no claim of whatsoever nature including monetary claim or any other claim or benefits from the BECIL. The contractor shall make its own arrangement for commuting the personnel requisitioned, to the BECIL offices wherever located in the areas of New Delhi/Delhi and back. The contractor will furnish to the BECIL the full particulars of the personnel sponsored, including details like Name, Father's Name, Age, Photograph, Permanent Address etc. and they will also ensure the verification of the antecedents of such personnel from their Ex-employer/Police, and also ensure that they possess the requisite technical qualifications and experience for rendering the requisite services to the BECIL. The contractor will be responsible for compliance of all the applicable laws and obligations arising out from the action of providing services as stated in this RFP. Any liability arising under Municipal, State or Central Govt. laws and regulations will be the sole responsibility of the contractor and the BECIL shall not be responsible for any such liability. The contractor shall undertake to indemnify the BECIL for any liability under any law arising out of the engagement of the said professionals. The contractor shall comply with all rules and regulations regarding safety and security of its employees and the BECIL will in no way be responsible in any manner in case of any mishap to its personnel. The personnel provided shall be under the direct control and supervision of the contractor. However, they shall comply with the oral and written instructions being given on day to day basis, by the officer(s) authorized by the BECIL from time to time. They will be bound by office timings, duty, placement, locations, etc., as decided by the BECIL. The contractor shall be responsible for the discipline and conduct of the personnel sponsored by them and in case the personnel lack in discipline and their quality of work deteriorates during the course of their service, the contractor shall provide replacement services of suitable personnel. During the subsistence of the contract, BECIL shall not undertake any monetary liability other than the amount payable to the contractor for the services of personnel provided by them. Other liabilities, if any, shall be solely rest on the contractor. Even if the BECIL has to bear such liabilities on unforeseen circumstances/occasions, BECIL will recover such amount from the contractor by adjusting the amount payable to them. In case the employees of the contractor do not attend the work at any time for whatever reason, the contractor shall make alternate arrangements at no extra cost to the BECIL, so that the assigned work of the BECIL does not suffer. BECIL shall also be free to make alternate arrangements and the cost of which shall be recovered from the contractor. Any loss, theft or damage to the life and/or property of the employees of BECIL and/or property of the BECIL shall be compensated by the contractor, if the cause of such loss, theft or damage is on account of default, negligence and/or lapse of the employees of the contractor. The contractor shall be responsible for providing amenities as required to be provided under the provisions of Contract Labour (Regulation and Abolition) Act, 1970. In case of failure of contractor provide such amenities, BECIL shall be free to provide the same and BECIL shall have right to recover all expenses incurred in providing such amenities from the contractor by deduction from any amount payable to the contractor. The contractor shall comply with all acts, laws and other statutory rules, regulations, bye-laws, etc., as applicable or which might become applicable to the N.C.T. of Delhi with regard to performance of the work included herein or touching upon this contract including but not

limited to Minimum Wages Act, 1948, Delhi Shops and Establishment Act. 1954, ESI Act, 1948, Provident Funds and MP Act, 1952. Workmen's Compensations Act, and take such steps as may be deemed necessary in this regard from time to time. It will be the sole liability of the contractor to pay the wages, provident fund, ESI, to its employees as applicable under the relevant rules. The contractor has to give an undertaking in this regard that he is following all the labour laws including the payment of minimum wages, etc. The contractor is liable to furnish all the relevant records for the information of employees. If the contract fails to render any or all the services, for any period during the currency of the contract, BECIL shall be at liberty to get the work done from other agencies and deduct charges incurred on this account from the amount payable to the contractor or from the Security Deposit or Bank Guarantee. TDS on account of Income Tax/WCT in accordance with DVAT and GST as applicable will be deducted from the monthly payments of the contractor. If the contractor fails to provide satisfactory performance, BECIL shall be at liberty to terminate the contract and withhold the Security Deposit or the balance payment of the contractor, etc. BECIL reserves the right to abandon or terminate the contract at any time without assigning any reason and it can stipulate any additional term & condition at any time during the currency of the contract. The contractor shall be responsible for payment of Provident Fund and other payments due to its employees deployed for services.

(x) **Special terms and conditions of the contract**

- (i) **Site Visit:** Visit to the installation Site at JIPMER, Pondicherry campus is compulsory in order to understand the requirements and site situations clearly.
- (ii) **Billing & Consignee:** Billing will be in the name of BECIL, Bangalore. Equipment shall be consigned to Director, Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER), Pondicherry.
- (iii) **Delivery and commissioning period:** The time-line for the entire work viz supply, installation, commissioning and training of the said project should be delivered within 8 weeks from the date of award of the contract.
- (iv) **MATERIALS SUPPLIED BY THE Bidder:** The bidder shall furnish / produce purchase vouchers and manufacturers test certificates of all major items/equipments from the reputed manufacturers /suppliers. In addition to the testing of materials and QC passed in accordance with Technical specifications
- (v) **EXTENSION OF TIME:** If the bidder shall desire an extension of time for the completion of the work on the ground of his having being unavoidably hindered in its execution in consequence of altered, additional or substituted work, or any other ground, he shall apply in writing to the Engineer in charge within seven days of the hindrance on account of which he desires such extension as aforesaid and then Accepting Authority shall, if in his opinion (which shall be final) reasonable grounds be shown therefore, authorize such extension of time, if any, as may, in his opinion be necessary or proper.
- (vi) **Compliance to RFP specification.** A compliance statement of the items quoted with respect to the preferred make suggested or its equivalent offered by the bidder in functionality, quantitative and qualitative performance are an essential requirement for technical evaluation. Proposals without adequate compliance statement will be rejected. The bidder will have to convince BECIL that, the product offered is equivalent or better in performance and support over the preferred make and model indicated in the RFP.
- (vii) **Compatibility:** System is envisaged to be compatible with the existing setup as well as other quoted equipment in all respects. Up gradation/ Modular design System/equipment be future looking and open to technology up gradations besides capable of adding on facility and features in phased manner.
- (viii) **Safety:** Material and labour safety will be solely responsible of the bidder.

- (ix) After awarding of the contract the bidder has to provide all the technical details and drawings of all the works.
- (x) It is responsibility of the bidder to maintain the site neat & clean. In case of any damage to the property of JIPMER,PONDICHERRY while execution of the work by the bidder, the same will be recovered from the bidder while settlement of final payment.

Part V – Evaluation Criteria & commercial offer issues

1. Evaluation Criteria: The broad guidelines for evaluation of RFP will be as follows:

- a. **Only those RFP will be evaluated which are found to be fulfilling all the eligibility and qualifying requirements of the RFP, both technically and commercially.**
- b. The RFP submitted by the bidders will be evaluated by BECIL with reference to the technical characteristics/technical parameters/eligibility criteria as mentioned in the RFP. The compliance of technical documents would be determined on the basis of the parameters specified in the RFP.
The commercial offer of only those agencies will be opened whose documents towards eligibility criteria are found compliant/suitable after technical evaluation is done by the committee.
- c. The lowest offers will be decided upon the lowest rates quoted by the particular agency as per the price format given at Para 2 below. The consideration of taxes and duties in evaluation process will be as follows:
 - (i) All taxes and duties quoted by the agency will be considered. The ultimate cost to BECIL would be the deciding factor for ranking of offers.
- d. The agencies are required to spell out the rates of GST in unambiguous terms. In the absence of any such stipulation it will be presumed that the prices quoted are firm and no claim on account of such taxes & duties will be entailed after the opening of financial bids. If a bidder is exempted from payment of GST up to any value of services from them, they should clearly state that no GST will be charged by them up to the limit of exemption by Government which they may have the documentary evidence for exemption of any statutory duties and taxes has to be produced along with financial bid. If any concession is available in regard to rate/quantum of GST with the approval of Government, it should be brought out clearly. Stipulation like, GST is presently not applicable but the same will be charged if it becomes leviable later on, will not be accepted unless in such cases it is clearly stated by an agency that GST will not be charged by him even if the same becomes applicable later on. In respect of the Bidders who fail to comply with this requirement, their quoted prices shall be loaded with the quantum of GST which is normally applicable on the item in question for the purpose of comparing their prices with other Bidders.
- e. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price will prevail and the total price will be corrected. If there is a discrepancy between words and figures, the amount in words will prevail for calculation of price.
- f. The lowest acceptable offer will be considered further for placement of contract/supply order after complete clarification and price negotiations if required as decided by BECIL. BECIL also reserves the right to do apportionment of quantity, if it is convinced that lowest bidder is not in a position to provide multiple services within stipulated time and the same will be placed to another bidder at lowest-1 rate.

- g. **Method of evaluation and award:** The proposals will be evaluated with reference to the technical requirements as specified in the BOQ. The commercial bid will be opened only those who qualifies in the technical bid evaluation
- h. **Price:** Rates offered should comprise of supply, installation, testing, commissioning, Operation & Maintenance for one year, training of all supplied equipments with all the services and support within the warranty period as applicable all together should be quoted in Indian Rupees only
- i. **Product offered quality and solution:** Field proven industry tested equipment and solutions from renowned and reputed firms from industry with proven track record only will be accepted. Non-standard make/model of equipment without proven and credible local support will disqualify the proposal technically. BECIL may ask for the POC(Proof of Concept) for the solution provided by the Bidder and can also ask the Bidder to show the any of the projects executed in the past.
- j. **Compliance to RFP specification.** A compliance statement of the items quoted with respect to the preferred make suggested or its equivalent offered by the bidder in functionality, quantitative and qualitative performance are an essential requirement for technical evaluation. Proposals without adequate compliance statement will be rejected. The bidder will have to convince BECIL that, the product offered is equivalent or better in performance and support over the preferred make and model indicated in the RFP.
- k. **Compatibility:** System is envisaged to be compatible with the existing setup as well as other quoted equipment in all respects. Up gradation/ Modular design System/equipment be future looking and open to technology up gradations besides capable of adding on facility and features in phased manner.
- l. **Assurance of supply and support:** With respect to their technical capability, organizational stability, reliability of equipment, ability to meet timelines and past experience of BECIL with Bidders.
- m. **Service:** After sales service, availability of spare parts/technical support, within the warrantee offered and extended period as per the OEM's warranty. (Note: If the bidder fails to provide after sales support within the warranty period the PBG will be forfeited.
- n. **Programming and commissioning experience:** Expertise and experience of the bidder in system integration of projects of similar nature and also their past performance in executing BECIL's/other projects.
- o. **Delivery Schedule:** Adherence to the delivery time line proposed by BECIL will be critical parameter for evaluation and final decision.
- p. **Tax Deduction at Source (TDS):** TDS will be deducted as per prevailing rules in force.
- q. **Training:** The successful bidder has to provide subsequent training for a period of 5 days to BECIL and JIPMER,PONDICHERRY officials on the operational, troubleshooting and maintenance aspects of all equipments installed - under this RFP to ensure its efficient functioning. For this purpose, the bidder will suggest suitable schedule and duration of training for each category of the staff viz technical and content creators (program staff) and the training will be imparted as per schedule to be given by JIPMER,PONDICHERRY

2.0 Commercial offer format: The financial/commercial offer format is given below and agencies are required to fill this up correctly with full details on their letter heads as per the Bill of material mentioned in clause 3.2 , sub clause A, B, C, D of Part-II of the RFP .

Sr. no	Description	Qty	unit rate (Rs)	Tax rate	Taxes amount (Rs)	Total amount (Rs)	Total amount in words

NOTE: 1) GST or any other tax to be mentioned clearly

Place:

Signature of bidder:

Date:

Name in Full:

Designation/Status:

3.0 Formats for the submitting documents by bidders.

3.1 Format for providing general information of the bidder.

SL	Particulars	Details of the bidder
1.	Name and Address of the bidder:	
2.	Name and Designation of the concerned officer or authorised person to whom all references shall be made	
3.	Fax Nos.:	
4.	Phone Nos./ Mobile Nos.:	
5.	e-Mail ID:	
6.	Chief of the organization and his/her contact details viz E-mail ID and Telephone:	
7.	Total No. of employees/ Manpower Strength:	
8.	Type of the Organization (Public Sector/ Limited/Private limited/ Partnership/ Proprietary/Society/Any other):	
9.	No. of the offices/Centres (enclose the list):	
10.	Bidder's Proposal No. and Date:	
11.	Particulars of past experience of similar works furnished:	
12.	Name and address of local representative, if any:	
13.	Any other information that bidder may like to give in order to highlight his bid.	

Place:

Signature of bidder:

Date:

Name in Full:

Designation/Status:

3.2 Format for providing details of works/services of similar nature carried out by the bidder during the last 5 years.

Name of the Bidder:

SL	Name of the Customer	Description of work	Value of work	From	To	The work is done directly or through sub contractor	Remarks

Note: Photocopy of Performance Certificate/Completion Certificate of customer in Support of the work mentioned above is required to be enclosed.

Signature of the bidder

3.3 Format for providing details of the on-going projects.

Name of the Bidder:

SL	Full postal address of client and name of Officer-in-charge with Contact details	Description of the work done	Value of contract	Date of commencement of work	Scheduled / revised completion period	Percentage of completion as on date	Expected date of completion	Remarks

Signature of the bidder

3.4 Format for providing details on annual turnover from similar work statement:

Name of the Bidder:

The bidder shall indicate herein his annual turnover from similar work during preceding 3 years based on the audited balance sheet/profit and loss account statement.

Financial year	Annual turnover (Rs.)
2016-17	
2015-16	
2014-15	

Note:

1. Copies of audited balance sheets with profit and loss account of 3 years shall be submitted along with the Technical bid in support of above entries.

(Statutory Auditor)

3.5 Format of OEM's authorization letter

TO BE PRINTED ON OEM'S OFFICIAL STATIONERY

Date:

MANUFACTURER'S AUTHORIZATION LETTER

To,
Chairman and Managing Director,
Broadcast Engineering Consultants India Ltd,
BECIL Bhavan, 56-A/17, Block-C, Sector-62,
Noida-201301

Subject: BECIL RFP Number:

Dear Sir,

We, (*Name and Address of the OEM*) who are reputed manufacturer of Hereby authorize [**bidder's company's name and address**] to bid, negotiate and conclude the contract with BECIL on behalf of us against subject RFP floated on your behalf for establishment of Digital Signage Solution by Broadcast Engineering Consultants India Ltd at **Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER), Pondicherry** for the equipment/items manufactured by us.

We hereby extend **twelve months** of guarantee and warranty service for the goods offered for supply against this invitation for bid by the above after the commissioning of the project.

We also undertake to availability of hardware and software support and spares for a period of **twelvemonths** from the date of installation and handing over of the equipment for this project.

Yours faithfully,

(Signature with seal)

Name and Designation

3.6 Format for submission of EMD in BG format

Whereas _____ (hereinafter called the tenderer”) has submitted their offer dated _____ for the supply of _____ (hereinafter called the tender”) against the purchaser’s tender enquiry No. _____ KNOW ALL MEN by these presents that WE _____ of _____ having our registered office at _____ are bound unto _____ (hereinafter called the “Purchaser”) In the sum of ----- for which payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this _____ day of _____ 20_____.

THE CONDITIONS OF THIS OBLIGATION ARE:

- (1) If the tenderer withdraws or amends, impairs or derogates from the Tender in any respect within the period of validity of this tender.*
- (2) If the tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity:-*
- (3) If the tenderer fails to furnish the Performance Security for the due Performance of the contract.*
- (4) Fails or refuses to accept/execute the contract.*

WE undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including 45 days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.

(Signature of the authorized officer of the Bank)
Name and designation of the officer
Seal, name and address of the Bank and address of the Branch

3.7 Performance Bank Guarantee Format

From:
Bank _____

To
The Chairman and Managing Director
Broadcast Engineering Consultants India Limited
Under Ministry of Information & Broadcasting
Government of India, New Delhi

Dear Sir,

1. Whereas you have entered into a contract No. Dt.....(hereinafter referred to as the said Contract with M/s....., hereinafter referred to as the “Contractor/Supplier” for supply of services as per Part-II of the said contract to the said contractor and whereas the contractor/supplier has undertaken to produce a bank guarantee for 10% of total Contract value amounting to.....to secure its obligations to The Chairman and Managing Director.
2. We the.....bank hereby expressly, irrevocably and unreservedly undertake and guarantee as principal obligors on behalf of the contractor/supplier that, in the event that The Chairman and Managing Director declares to us that the services have not been provided according to the Contractual obligations under the aforementioned contract, we will pay you, on demand and without demur, all the any sum up to a maximum of Rupees.....only. Your written demand shall be conclusive evidence to us that such repayment is due under the terms of the said contract. We undertake to effect payment upon receipt of such written demand.
3. We shall not be discharged or released from this undertaking and guarantee by any arrangements, variations made between you and the Contractor/supplier indulgence to the Contractor/Supplier by you, or by any alterations in the obligations of the Contractor/Supplier or by any forbearance whether as to payment, time performance or otherwise.
4. In no case shall the amount of this guarantee be increased.
5. This guarantee shall remain valid for 14 months from the effective date of contract according to the contractual obligations under the said contract.
6. Unless a demand or claim under this guarantee is made on us in writing or on before the aforesaid expiry date as provided in the above referred contract or unless this guarantee is extended by us, all your rights under this guarantee shall be forfeited and we shall be discharged from the liabilities hereunder.
7. This guarantee shall be a continuing guarantee and shall not be discharged by any change in the constitution of the bank or in the constitution of M/s.....

3.8 Format for submission of affidavit certifying that, the bidder is not barred or blacklisted by any of the Central/State Government departments/ organizations/ central PSUs at the time of submission of bid or during previous five years.

Declaration by the bidder

[Affidavit on Non-Judicial Stamp Paper of INR 100 duly attested by Notary/ Magistrate]

This is to certify that I/We _____ (authorised signatory – it should be Director or any person specifically authorised. In case of specific authorisation , the authority letter is required)) of , M/s. _____ , in submission of this offer confirm that:

I/We hereby undertakes that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements;

I/We hereby undertakes that I/we do not have records of poor performance such as abandoning the work, not properly completing the contract, inordinate delays in completion, litigation history or financial failures etc.

I/We hereby undertakes that Neither M/s _____ nor Business has not been barred or blacklisted by any Central/ State Government Department/ Public Sector Undertaking or Enterprise of Central/ State Government at the time of submission of bid or during previous five years.

I/We have submitted all the supporting documents and furnished the relevant details as per prescribed format.

The information and documents submitted with the tender by us are correct and we are fully responsible for the correctness of the information and documents submitted by us.

I/We hereby declare that all the information and statements made in this tender are true and accept that any misinterpretation contained in it may lead to our disqualification.

I/We hereby authorise BECIL, in case any false undertaking/facts/document are found in our bid, to cancel our bid and take further action as per rule.

Signature of the Authorized Person

Name:

Designation:

3.9 Format of authorization letter for signing the bid document on behalf of bidder.

To,
Chairman and Managing Director,
Broadcast Engineering Consultants India Ltd,
BECIL Bhavan, 56-A/17, Block-C, Sector-62,
Noida-201301

Subject: **BECIL RFP for SITC of TV & IR studio and studio lighting at JIPMER,
PONDICHERRY,**

Dear Sir,

We, [**bidder's company's name and address**] hereby authorize Sri/Smtto sign, bid, negotiate and conclude the contract with BECIL on behalf of us against subject RFP floated on your behalf for the establishment of **TV and IR studio** by Broadcast Engineering Consultants India Ltd at **Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER), Pondicherry** for the equipment/items supplied by us.

Yours faithfully,

Signature of Mr. _____

(Signature with seal)

Name and Designation of the bidder

Attested

3.10 FORMAT OF COMPLIANCE/EXCEPTION / DEVIATION

This organisation expects the bidders to fully accept the terms and conditions of the tender document. However, should the bidder still envisage some exception/ deviations to the terms and conditions of the tender documents, the same should be indicated here and put in un-priced bid i.e. "Technical Bids". The price effect for withdrawal of such exception(s) to be indicated in the price bids only. If this proforma is left blank, then it would be presumed that bidder has not taken any exception / deviations to the terms and conditions of the tender documents.

Clause/ detailed specification of each of the equipment and services as mentioned in the section 2.4 of the RFP document	Full compliance or not	Exception/ deviation taken by Bidder	Remarks

Signature of the Bidder/Tenderer

Seal of the Company -

3.11 Format of the CHECK LIST for technical bid document

SL	Description	Compliance / Confirmation by the Tenderer (Please Tick) √ Yes / No / Pl. Indicate Page No. of the Bid document
1.	Bid Covering Letter stating clearly that all the terms and conditions of this RFP are accepted.	
2.	Check List with Page No.	
3.	Tender fees	
4.	EMD	
5.	General information of the bidder.(with company credential/registration documents)	
6.	Details of works/services of similar nature carried out by the bidder during the last 5 years.	
7.	Details of the on-going projects.	
8.	Last Three years audited financial statement with balance sheets	
9.	Solvency certificate from nationalized or scheduled bank and issued within a period of 6 Months from the final date of submission of the tender.	
10.	Authorization letter for signing the bid document on behalf of the bidder.	
11.	Affidavit regarding blacklisting	
12.	OEM's Certificates	
13.	Documents pertaining to the eligibility criteria	
14.	Bid Compliance statement	
15.	OEM compliance statement	
16.	BOM with make and model details	
17.	GST Registration certificate.	
18.	All Technical data sheets	
19.	Details of the staff to be deployed at site for project execution	
20.	Any other documents bidder would like to attach	

Strike out if not applicable.

The bids not complied with the Check list, will be summarily rejected

Format of Arbitration Clause –Indigenous Private bidders

- (i) All disputes of differences arising out of or in connection with the present contract including the one connected with the validity of the present contract or any part thereof should be settled by bilateral discussions.
- (ii) Any dispute, disagreement of question arising out of or relating to this contract or relating to construction or performance (except as to any matter the decision or determination whereof is provided for by these conditions), which cannot be settled amicably, shall within sixty (60) days or such longer period as may be mutually agreed upon, from the date on which either party informs the other in writing by a notice that such dispute, disagreement or question exists, will be referred to a sole Arbitrator.
- (iii) Within (60) days of the receipt of the said notice, an arbitrator shall be nominated in writing by the authority agreed upon by the parties.
- (iv) The sole Arbitrator shall have its seal in New Delhi or such other place in India as may be mutually agreed to between the parties.
- (v) The arbitration proceedings shall be conducted under the Indian Arbitration and Conciliation Act, 1996 and the award of such Arbitration Tribunal shall be enforceable in Indian Courts only.
- (vi) Each party shall bear its own cost of preparing and presenting its case. The cost of arbitration including the fees and expenses shall be shared equally by the parties, unless otherwise awarded by the sole arbitrator.
- (vii) The parties shall continue to perform their respective obligations under this contract during the pendency of the arbitration proceedings except in so far as such obligations are the subject matter of the said arbitration proceedings.

Note: In the event of the parties deciding to refer the dispute/s for adjudication to an Arbitral Tribunal then one arbitrator each will be appointed by each party and the case will be referred to the Indian Council of Arbitration (ICADR) for nomination of the third arbitrator. The fees of the arbitrator appointed by the parties shall be borne by each party and the fees of the third arbitrator, if appointed, shall be equally shared by the Customer and Contractor.

Annexure-1

DECLARATION

I/We hereby certify that the information furnished above is true and correct to the best of my / our knowledge and I have read and understood the terms and conditions contained in the RFP document.

I/We understand that in case any deviation is found in the above statement at any stage, I / We will be blacklisted and will not have any dealing with the BECIL in future.

Signature of Authorized Signatory on behalf of Agency

Place: _____

Date: _____

Address: _____

Mobile: _____

Email ID: _____