

BECIL / FM-III (Batch-I) / Automatic Dehydrator(Pressurization System)/2017-18
11 May 2017

Subject: Tender Document for SITC of Automatic Dehydrator (Pressurization system) for various CTI sites for FM Phase-III (Batch-I).

Dear Sir,

Broadcast Engineering Consultants India Limited, a Public Sector Enterprise, under the Ministry of Information and Broadcasting invites proposals for Supply, Installation, Testing and Commissioning of Automatic Dehydrator (Pressurization System) at various CTI sites for FM Phase-III (Batch-I).

Complete proposal in respect of Technical and Commercial Bids addressed to Chairman and Managing Director in sealed cover, must reach at "Broadcast Engineering Consultants India Ltd.," C-56, A/17, Sector-62, Noida-201307 (U.P.) as per Tender Schedule and Critical Dates mentioned in the attached document.

(Avnish Kumar Gupta)
Assistant General Manager

TENDER DOCUMENT

Supply, Installation, Testing and Commissioning of Automatic Dehydrator (Pressurization system) for various CTI sites for FM Phase-III (Batch-I).

Ref No: BECIL/FM Phase-III (Batch-I)/Automatic Dehydrator (Pressurization System)/2017-18 Dated: 11/05/2017



Broadcast Engineering Consultants India Limited

(A Government of India Enterprise) (A Mini Ratna Company)

Head Office: 14-B Ring Road, IP Estate, New Delhi-110002

Tel: 011 - 23378823 Fax: 011 - 23379885

Corporate Office : BECIL BHAWAN, C-56-A/17, Sector-62, Noida – 201301 (U.P.)

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Tender Document

SITC of Automatic Dehydrator (Pressurization system) for various CTI sites for FM Phase-III (Batch-I).

- 1) BECIL is appointed as System Integrator by Ministry of Information & Broadcasting, Govt. of India for Upgradation / Setting up of Common Transmission Infrastructure (CTI) for Private FM Broadcasters under FM Phase-III Batch-I scheme of Government of India.
- 2) BECIL invites bids from eligible Bidders for SITC of Automatic Dehydrator (Pressurization system) for various CTI sites for FM Phase-III (Batch-I) at various CTI sites as described in Annexure-I

3. TENDER SCHEDULE AND CRITICAL DATES

The TENDER tentative schedule and critical dates are shown below:

(i)	Bid System	:	Two bid system with technical & commercial bids sealed separately
(ii)	Issue of Tender document to Prospective Bidders		11.05.2017
(iii)	Last Date of Submission	:	26.05.2017 by 15:00 hrs
(iv)	Venue for Submission and Opening of Bids		BECIL BHAWAN, C-56- A/17, Sector -62, Noida 201307, Uttar Pradesh
(v)	Opening of Technical Bids		26.05.2017 at 15:30 hrs
(vi)	Opening of Financial Bids		Will be intimated to technical by qualified bidders
(vii)	Tender Fee	:	Rs. 500/- (Five Hundred) only (Non Refundable)
(viii)	Amount of EMD	:	Rs. 4000 (Rs. Four Thousand Only) per site
(ix)	SUPPLY		
a	Delivery period	:	4 weeks from the date of acceptance of our order.
b	Guarantee / Warrantee	:	2 years from the date of Installation, Testing and Commissioning
(x)	INSTALLATION		
a	Installation period	:	2 weeks from the date of supply at site
(xi)	Interested eligible Bidders may obtain further information from Project Coordinator	:	Mr. Rupesh Kumar, Assistant Manager Broadcast Engineering Consultants India Ltd, C-56 A/17, Sector -62, Noida 201 307 (U.P.) Tel: 0120-4177850 Ext: 329, Fax: 0120-4177879 E-mail: rupesh@becil.com

N.B. : This organisation may reject/accept or prefer any bid without assigning any reason whatsoever. BECIL reserves the right to amend the Tender tentative schedule and critical dates.

4. PROCEDURE AND TERMS & CONDITIONS

TWO BID SYSTEM

All bidders are required to submit their offer in two covers as under:-

4.1 Technical Bid should contain the following:-

- (i) Tender documents along with Bill of Material (BOM) duly completed, signed & stamped ***BUT WITHOUT INDICATING THE RATE QUOTED.***
- (ii) The technical details of the system offered along with the supporting original technical literature, Leaflets, Brochure etc. in duplicate.
- (iii) Earnest Money Deposit (EMD)
- (iv) Tender Fee

4.2 Financial bid should contain the following:-

Details of rate, taxes, duties etc. quoted by the bidder. These details should be submitted on their letter head. There should be no Corrections or Overwriting while filling the price.

Both the above mentioned bids must be sealed in covers separately and thereafter be kept in a third cover and sealed again.

This cover should be superscripted with **“Supply, Installation, Testing & Commissioning of Automatic Dehydrator (Pressurization system) for various CTI sites for FM Phase-III (Batch-I).”** against tender no : BECIL/FM-III (Batch-I)/Automatic Dehydrator (Pressurization System)/2016-17 Date: 11/05/2017 and should reach us on or before 1500 Hrs on 26/05/2017. Bids received beyond the specified date and time will be treated as rejected. It is the responsibility of the Bidder to confirm that the bids have been received on time & at the proper place within the specified dates. Facsimile and electronic replies are not acceptable.

The composite bid i.e. rate indicated in the Technical bid will be rejected.

5. Bid Response must be addressed to and submitted at the following address:

**The Chairman & Managing Director
Broadcast Engineering Consultants India Ltd,
C-56 A/17, Sector -62, Noida 201 307 (U.P.)**

Tel: 0120-4177850, Fax: 0120-4177879

6. All bids must be valid for **Six months** from the date of opening of Technical Bid.

7. BECIL reserves all the rights to solicit additional information from Bidders to evaluate the Technical Bid which bid best meets the need of the Project. Additional information may include, but is not limited to, past performance records, lists of available items of supply that will be done simultaneously with the project, on-site visit and evaluations by BECIL personnel, or any other pertinent information. It will be Bidder/OEMs responsibility to check for updated information on BECIL's web site www.becil.com.
8. BECIL will make its decision based on the ability of the Bidder(s) to meet its specific needs, technical expertise of the Bidder(s), delivery capabilities, customer references, past satisfactory performance experience, system completeness (which is a must) besides cost.
9. BECIL reserves the right to waive off any deviations, accept the whole or part thereof or reject any or all bids and to select the Bidder(s) which, in the sole opinion of the Project In charge, best meets the Project's interest. BECIL/Broadcasters also reserve the right to negotiate with potential bidders.
10. All information contained in this Tender Document, or provided in subsequent discussions or disclosures, is proprietary and confidential. No information may be shared with any other organization, including potential sub-contractors, without prior written consent from BECIL.
11. BECIL reserves the right to either increase or decrease the quantity/site of any or all the items included in suggestive bill of material which are estimated requirements and therefore open to variation.
12. BECIL reserves the right to alter/modify the scope of work mentioned in this TENDER document at any stage of the bidding process and contract.
13. The TENDER is issued for "Supply of Automatic Dehydrator (Pressurization system) for various CTI sites for FM Phase-III (Batch-I)". The bidder is responsible for completeness of SITC of Automatic Dehydrator (Pressurization system) of the project.

14. Competent Authority:

BECIL's competent authority (Chairman & Managing Director) reserves right to terminate the contract at any stage of the work by giving 7 days notice if it is noticed that the delay occurred in any of the activities covered under the contract cannot be made good and will affect the overall work schedule. BECIL shall, in such an eventuality, revoke the Performance Bank Guarantee of the bidder. The decision of CMD, BECIL shall be final and binding.

15. INDEMNIFICATION:

Bidder agrees to indemnify BECIL from any and all claims, demands, losses, cause of action, damage, lawsuits, judgments, including attorneys' fees and costs, arising out of or relating to the supply.

16. ARBITRATION

- a.** If any dispute, difference, question or disagreement shall at any time, hereafter arise, between BECIL and bidder(s) hereto or the respective representatives or assignees in connection with or arising out of the tender document and bid(s) or in respect of meaning of specifications, design, drawings, estimates, schedules, annexure, orders, instructions the construction, interpretation of this tender document and bid (s), application of provisions thereof or anything hereunder contained or arising hereunder or as to the rights, liabilities or duties of BECIL and bidder(s) or any matter whatsoever incidental to this tender document and bid (s) or otherwise concerning the works of execution or failure to execute the same, whether during the progress or work of stipulated/extended period or before or after the completion or abandonment thereof, it shall be referred to the arbitrator appointed by the Secretary, Ministry of Information & Broadcasting, Government of India.
- b.** It is a term of the tender document that the party invoking arbitration shall specify the disputes to be referred to arbitration under the clause.
- c.** It is also term of the tender document that prospective contractor shall not stop the work and work shall continue as expected to continue whether the arbitration proceedings have commenced or not.
- d.** The arbitrator(s) shall give reasoned award in respect or each dispute or difference referred to him. The award as aforesaid shall be final and binding on all the parties in accordance with the law.
- e.** The Venue of the arbitration shall be at New Delhi (India) and language shall be English. Subject to as aforesaid, the provision of the Arbitration and Conciliation Act, 1996 and any statutory modifications or re- enactments thereof and rules made there under, for the time being in force shall apply to the arbitration proceedings under this clause.

17. FORCE MAJEURE

In the event of award of contract either party being rendered unable by force majeure to perform any obligation required to be performed by them under the contract, if any concluded, the relative obligation of the part affected by such force majeure lasts. The terms "Force Majeure" as implied here in shall mean acts of God, War, Civil riots, fire directly affecting the performance of the contract, floods and Acts and Regulations of respective Government of the two parties,. Both upon the occurrence of such cause and upon its termination, the party alleging that it has been rendered unable as aforesaid, shall within seventy two hours of the alleged beginning and ending thereof giving full particulars and satisfactory evidence in support of its claim. If deliveries are suspended by force majeure conditions lasting for more than 2 (two) months, BECIL shall have the option of cancelling the contract in whole or part at its discretion without any liability on its part.

18. Jurisdiction

This tender document and future contract shall be construed, interpreted and applied in accordance with, and shall be governed by, the laws applicable in India. The courts at Delhi shall have the exclusive jurisdiction to entertain any matter arising out of or in relation to this tender document.

19. ELIGIBILITY CRITERIA

- a. The bidder/OEM should be registered under Indian Companies Act or similar Act of their respective country. A copy of registration should be submitted along with the taxation detail if any. The company must be in existence for a minimum duration of 5 years in the similar field Automatic Dehydrator (Pressurization system) field(s).
- b. The Bidder may bid for all or any number of sites from list of sites mentioned in Annexure-I. An **Earnest Money Deposit (EMD)** for each site shall be deposited at the time of tender submission in the form of Account payee Demand Draft/Pay Order or from any Indian scheduled Commercial Bank drawn in favor of "**Broadcast Engineering Consultants India Limited**" payable at New Delhi. The EMD of the successful tenderer shall be returned after submission of PBG, whereas the EMD of the unsuccessful tenderer shall be returned within 14 days of the finalization of the contractor. The EMD shall not carry any interest. The EMD needs to be submitted separately along with the Bid. In case of non-submission of EMD, the bids will be summarily rejected.

- c. Compliance of the tender by duly signed and stamped Bill of Material on their letter head should be submitted by the bidder.
- d. The Bidder should provide all the relevant Technical Literatures.
- 20. Automatic Dehydrator (Pressurization System) with tubing & accessories:-** Redundant, Connected in Circuit complete in all respect (for Pressurization in entire RF feeder cable and Antenna system.

S. NO.	TECHNICAL PARAMETERS	TECHNICAL SPECIFICATION
1	Dehydrator Type	Automatic
2	Operating Voltage	Single Phase, 230 volt (RMS) \pm 10 %, 50 Hz \pm 4%
3	Ambient Humidity maximum:	95%
4	Output Capacity (SCFM)	(Details to be given by the tenderer)
5	Dry air storage tank capacity	(Details to be given by the tenderer)
6	Output pressure (adjustable)	(Details to be given by the tenderer)
7	Low pressure (adjustable)	(Details to be given by the tenderer)
8	Pumping Power Consumption :	(Details to be given by the tenderer)
9	Compressor Rating:	(Details to be given by the tenderer)
10	Low Pressure Alarm:	(Details to be given by the tenderer)
11	Dimensions, H x W x D, mm :	(Details to be given by the tenderer)
12	Net Weight (kg):	(Details to be given by the tenderer)
13	Mounting	Floor mounted

a	The Automatic Dehydrator (Pressurization System) should provide pressurized dry air to the system and Continuously purge the collected moisture in to the atmosphere.
B	The offered Automatic Dehydrator (Pressurization system) system should be capable of providing pressurization of R.F. feeder cable and antenna system with adequate provision to cover up small leakages within justified duration.(Details data sheet should be provided by the tenderer).
c	The offered Automatic Dehydrator (Pressurization system) should be capable to handle the Indian tropical climatic conditions.
d	The offered Automatic Dehydrator (Pressurization system) should have the provision for various alarms, indicator sand safety valves for safety of the antenna, cable and dehydrator systems. Minimum required features are:
e (i)	Low pressure alarm & switch
e(ii)	High pressure alarm & switch,
e (iii)	Pressure gauge,
e (iv)	Dehydrator Pressure Switch(Adj.),
e (v)	Visual moisture indicator,
e (vi)	High pressure safety relieve valve,
e (vii)	Pressure and humidity monitor.
f	The sealing compound for sealing various joints of the Antenna system should also be provided.
g	The detailed specifications with make, model and data-sheet of the Dehydrator should be attached by the tenderer.

21. COMMERCIAL TERMS AND CONDITIONS

Each bidder is required to accept the following terms and conditions:-

a.	Earnest Money	:	An EMD for an amount Rs. 4000 shall be deposited at the time of tender submission in the form of Account payee Demand Draft/Pay Order or from any Indian scheduled Commercial Bank drawn in favor of Broadcast Engineering Consultants India Limited payable at New Delhi.
b.	Tender Fee	:	Tender fee can be deposited through Account payee Demand Draft/Pay Order or from any Indian scheduled Commercial Bank drawn in favor of Broadcast Engineering Consultants India Limited payable at Delhi.
c.	Payment Terms	:	<ul style="list-style-type: none">➤ 80% would be released against delivery of material at site➤ 20% after installation, Testing and Commissioning of Dehydrators at site
d.	Performance Guarantee for supply	:	The suppliers shall have to furnish a Performance Bank Guarantee (PBG) from a Scheduled Indian Bank in favour of “Broadcast Engineering Consultants India Ltd.” , BECIL, 14-B, I P Estate, Ring Road, New Delhi -110002 (India) for an amount equal to 10% of order value. PBG is to be submitted with 15 days of placement of Order by BECIL and valid for a period of two years from the date of Supply.
e.	Delivery period	:	Delivery at site within 4 weeks from the acceptance of order. You are required to give your Acceptance of order within one week failing which your order will be summarily rejected.
f.	Penalty for Delay	:	In case of delay in the completion of the work, the contractor shall have to pay a penalty @ Rs. 1000/- per day per site to maximum of 10% of the contract value after which BECIL may cancel the order and get the work completed at the risk and cost of the contractor.
g.	Warranty Terms	:	Two Years from the date of Supply. Any parts failing during the Warrantee period shall be repaired / replaced free of charge by the supplier at the Sites.
h.	Special Instructions	:	The invoice shall be in the name of Respective Broadcaster Thru Broadcast Engineering Consultants India Ltd., (BECIL) and will be clearly mentioned at the time of placement of Work Order.

A. BILL OF MATERIAL (BOM):

Sr. No.	Description of items/works	Make & Model No.	Qty.	Unit	Rate per Unit	Taxes	Total (In Rs.)
1	Automatic Dehydrator Pressurization System		One*	Set Complete			
2	AMC Charges for 3 rd to 5 th year (3 years)		One	Job			
3	AMC Charges for 6 th to 10 th year (5 years)		One	Job			
4	Installation, Testing and Commissioning of Automatic Dehydrator System etc.		One	Job			

***Note:**

1. Make/Model no. of dehydrator is to be quoted and proper solution should be provided for connection of single Dehydrator to one or two RF cable as per the site condition given in Annexure-I
2. The list of sites may increase or decrease at the time of placement of order.
3. The Installation work and should be quoted separately from SUPPLY quote as per BOQ
4. Single quote for supply and Installation without break-ups will be summarily rejected.

Annexure-I

CTI Site and installed RF cable Size Details:

Sr. No.	Name of the City	Address	Existing RF cable Size and length
Uttar Pradesh			
1	Agra	CTI, Doordarshan, HPT, Shamshabad Road, Agra	RFS, 2-1/4", 2X160
2	Jhansi	CTI, All India Radio, Kanpur road, Jhansi	RFS, 2-1/4", 1X115
3	Kanpur	CTI, All India Radio, Benajhabar, Besides Jalkal Office, Kanpur-208002, UP	RFS, 5", 2X115
4	Varanasi	CTI, AIR, Mahmoorganj, Varanasi-221010, U.P	Andrew, 3", 2X165
5	Lucknow	CTI, T V Transmitter, Hardoi Road, Dubagga, Near Hanuman Temple, Lucknow.	RFS, 5", 2X190
6	Gorakhpur	CTI, All India Radio, Town Hall Compound , Gorakhpur.	Andrew, 3", 1X115
7	Aligarh	CTI, All India Radio, FM Transmitter, Anoop Shahar Road, Near Jamalpur Phatak, Aligarh	Andrew, 3", 1X155
8	Bareilly	HPT, DD, Lalphatak, Badaun Road	Andrew, 2-1/4", 2X170
9	Allahabad	CTI, All India Radio, Dayanand Marg, Allahabad.	Andrew, 3", 2X115
Jammu & Kashmir			
1	Jammu	CTI, Radio Jammu, Jammu	Andrew, 3", 2X60
2	Srinagar	CTI, Radio Kashmir, Srinagar	RFS, 2-1/4", 1X115
Bihar & Jharkhand			
1	Patna	CTI, Doordarshan, TV Tower, Bahadupur, Patna	Andrew, 3", 1X160
2	Muzzaffarpur	CTI, Doordarshan, TV Tower, Kuthchery road, Muzzaffarpur	RFS, 2-1/4", 2X120
3	Jamshedpur	CTI, All India Radio, Bishtpur, Jamshedpur.	Andrew, 3", 2X70
Odisha			
1	Bhubhaneshwar	CTI, Doordarshan, TV tower road, Tulsipur, Cuttack.	RFS, 3-1/8", 2X170
2	Rourkela	CTI, Doordarshan, TV tower, Rourkela	Andrew, 3", 1X70
Rajasthan			
1	Ajmer	CTI, HPT TV, Tara Garh Fort, Ajmer	Andrew, 4", 1X175
4	Kota	CTI, Bundi(Kota) HPT TV Bundi Fort, Bundi.	Andrew, 2-1/4", 2X115
5	Udaipur	CTI, All Indra Radio Maldi Industrial Area Udaipur.	Andrew, 3", 2X100
6	Jaipur	CTI, HPT All India Radio Rathore Nagar Vaishali Nagar Jaipur.	RFS, 5", 2X150
Kerala			
1	Kozhikode	CTI, All India Radio, Kozhikode	RFS, 2-1/4", 2X105
Maharashtra			
1	Ahmednagar	CTI, FM Radio Centre, C/O Office of Deputy Director, All India Radio (Akashwani) Complex, AHMEDNAGAR (Maharashtra) -414003	RFS, 2-1/4", 2X105

2	Akola	CTI, FM Radio Centre), C/o Office of Deputy Director, All India Radio (Akashwani) Complex, Civil Lines, Akola (Maharashtra), Akola-444001	Andrew , 3", 1X150
3	Dhule	CTI, All India Radio, Dhule	Andrew , 3", 1X 115
4	Jalgaon	CTI, HPTV Jalgaon, Jilapeeth, near Collectorate office, Jalgaon	RFS, 2-1/4", 2X75
5	Sangli	CTI, C/o Office of Deputy Director, All India Radio (Akashwani) complex, KOHLAPUR Road, SANGLI Maharashtra), SANGLI -416416	Andrew, 1-5/8", 2X90
6	Sholapur	CTI, C/o Office of Deputy Director, All India Radio (Akashwani) complex, Neelam Nagar MIDC SOLAPUR (Maharashtra)- 413006	Andrew, 3", 1X115
7	Nanded	CTI, C/O Office of Deputy Director, All India Radio (Akashwani) complex, Vasrani, Nanded Maharashtra)	Andrew, 2-1/4", 1X115
8	Pune	CTI, FM Centre, C/O Office of Director Engineering, Doordarshan High Power Transmitter complex, Sinhagad Fort, Sinhagad Pune.	Andrew, 3", 2X90
9	Nagpur	CTI PVT FM, Doordarshan Kendra TV Tower, Seminary Hill, Nagpur (Maharashtra) 440006	Andrew, 5", 1X125
10	Aurangabad	CTI (Common Transmission Infrastructure), N-12 TV Centre, near 300 meter tower, c/o TVMC, Aurangabad	Andrew, 3", 1X115
11	Nasik	CTI, All India Radio, ST Colony, Nasik-13	RFS, 2-1/4", 2X140
12	Kolhapur	CTI, FM Radio Centre), C/o Office of Deputy Director, All India Radio (Akashwani), Near MSEB Sub Station, At Post: Panhala, PANHALA – 416201(Maharashtra), Taluka: Panhala, Dist.: Kolhapur	RFS, 2-1/4", 2X110
Punjab & Haryana			
1	Hissar	CTI, All India Radio, Rajgarh Road, Hissar-125001	1-5/8", 2X135m
2	Patiala	CTI, All India Radio, Patiala	Andrew, 2-1/4", 2X115m
3	Chandigarh	CTI, All India Radio, Chandigarh	Andrew, 3", 2X160m
Gujrat			
1	Surat	CTI (Common Transmission Infrastructure) All India Radio complex, Bhattar Road, Surat Gujarat	Andrew, 4" 2X110
2	Rajkot	Common Transmission Infrastructure (CTI) DB Corp Limited, Doordarshan Complex, (Near Ajit Dam, Bhavnagar Road), Rajkot, PIN: 360 003 (Gujarat), India	Andrew, 2-1/4", 2X170 Mtr
3	Ahmedabad	CTI (Common Transmission Infrastructure) Door Darshan Complex, Thaltej, Ahmedabad – Gujarat	Andrew, 5", 2X165 Mtr

Mizoram			
1	Aizawal	CTI , All India Radio, Aizwal, Mizoram	Andrew, 1-5/8", 1X130 Mtr
Tripura			
1	Agartala	CTI , Doordarshan Kendra, P.O. A.D. Nagar, Agartala, Tripura	Andrew, 1-5/8", 1X170 Mtr
Arunachal Pradesh			
1	Itanagar	CTI , Superintending Engineer, All India Radio, Itanagar,	Andrew, 1-5/8", 1X80 Mtr
Meghalaya			
1	Shillong	CTI , C/o Station Engineer, Lalatkar Peak, Doordarshan Kendra, Shillong	Andrew, 1-5/8", 2X60 Mtr

- One Dehydrator is required for each site whether RF cable is one or two at site.