



**NATIONAL INSTITUTE OF TECHNOLOGY
TIRUCHIRAPPALLI – 620 015**

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INVITATION FOR QUOTATIONS FOR SUPPLY OF RF POWER GENERATORS

Part I

Date:15/05/2008

1. Quotation Reference No. : DST/PHY/AC/ICSR/08-09/01
2. Last date for sale of Bidding documents : 30th June, 2008
3. Last date for receipt of quotation : 7th July, 2008
4. Date of opening of Bids : 10th July, 2008
5. Quoted rates should be valid up to : 3 months
6. Address to which quotations are to be sent : The Director
National Institute of Technology
Tiruchirappalli – 620 015

Attention: Dr A. Chandra Bose,
Department of Physics

(Quotations should be drawn in favour of "Director, N.I.T, Tiruchirappalli")

with superscript on cover quoting our Ref. NITT/PHYSICS/DST/ACB/Equipment/RF power generator/2008

Part II

SCHEDULE A- Instructions for Bidders

1. Bid Price

- a) Prices for Goods supplied from within India (including previous imported items) shall be quoted EXW (Ex-Work, ex-warehouse, ex-showroom or off-the-shelf as applicable) giving break up details of all duties and sale and other Taxes already paid or payable on the raw materials and components.
- b) For goods offered from abroad (i.e. not previously imported) prices shall be CIF Chennai Airport.
- c) Bidders may send the quotations in sealed covers with the quotation reference number and last date for receipt of quotations duly super-scribed on the cover.
- d) Quotations shall contain the complete specifications and brand names wherever applicable.
- e) Printed brochures should be submitted wherever applicable.
- f) The rates quoted by the bidder shall be fixed for the duration of the supply and shall not be subject to variation on any account.
- g) In the case of any discrepancy between unit price and total, the unit price shall prevail.
- h) National Institute of Technology Tiruchirappalli cannot furnish C or D forms, but can issue concession certificates to avail the tax/duty exemptions as applicable for educational institutions.
- i) Quotations containing conditions like "subject to prior sale" may not be considered.
- j) Quotations should be submitted on the official stationery of the bidder.

2. Number of quotations

- a) Each bidder shall submit only one quotation.

3. Validity of quotations

- a) Quotation shall remain valid for a period of not less than 90 days after the deadline date specified for submission as given above.

- b) No interim communication on the status of quotations shall be entertained; bidders shall, however, provide additional details for evaluating the quotations if wanted.

4. Evaluation of quotations

- a) National Institute of Technology, Tiruchirappalli will evaluate and compare the quotations determined to be substantially responsive i.e.
 - i. are properly signed; and
 - ii. conform to the terms and conditions, and specifications.

5. Award of contract

- a) National Institute of Technology, Tiruchirappalli will award the Order for supply of Goods/Services to the bidder whose quotation has been determined to be substantially responsive.
- b) Notwithstanding the above, National Institute of Technology, Tiruchirappalli reserves the right to accept or reject any quotations, and to cancel the bidding process, and reject all quotations at any time prior to the award of Order without assigning any specific reasons thereof.
- c) National Institute of Technology, Tiruchirappalli prior to the expiration of the quotation validity period, will notify the bidder whose bid is accepted for the award of contract. The terms of accepted offer shall be incorporated in the purchase order.

6. Warranty

- a) Normal commercial warranty/guarantee shall be applicable to the supplied goods.
- b) Bidder shall arrange for extended period of warranty/guarantee if needed.
- c) Bidder shall clearly indicate the arrangements for support and maintenance during the period for which the warranty/guarantee shall be in force.

7. Eligibility

- a) Any Manufacturer/Supplier/Dealer who has been declared ineligible by World Bank/Government of India shall not be eligible to participate in this bid.
- b) Any fraudulent practices including concealing of facts at the time of submission of bid and there after shall lead to disqualification.
- c) List of beneficiaries especially from Educational Institutions/ R&D Institutions should also be enclosed with the quotations.

8. Liquidity Damages

If the bidder/supplier, after accepting the Purchase Order for supply of Goods/Services, fails to deliver any or all of the Goods or to perform Services within the period(s) specified in the Order, National Institute of Technology, Tiruchirappalli shall, without prejudice to its other remedies under the Rules of Purchase, proceed to cancel the order or agree to accept a delayed delivery on the condition of payment of liquidated damages by the bidder/supplier a sum equivalent to 0.50 % of the total cost as indicated in the Purchase Order (which will be deemed as *agreed price*) for each week or part thereof of delay until actual delivery or performance is completed and such penal charges shall be limited to a maximum of 5 % of the agreed price. Once the maximum is reached National Institute of Technology, Tiruchirappalli may proceed on its own to consider the termination/cancellation of the Order and may inform the bidder about the cancellation of the said purchase order.

SCHEDULE B- Conditions for Payment

1. No advance payment terms shall be made in the normal course. However, 100% payment will be made within a period of three to four weeks from the date of acceptance of the items after installation and satisfactory working/date of completion of service. In the case of foreign supply, payment will be made by letter of credit. The cost of opening letter of credit and other bank charges will be borne by the purchaser.
2. On award of Supply order, the successful bidder shall execute an agreement on non-judicial stamp paper worth Rupees Fifty only (Government of India/Government of Tamil Nadu), in the format prescribed by the purchaser.

3. Refundable security deposit up to 2% of the total value of supply in the form of Demand Draft or in the form of Bank guarantee shall be furnished by the successful bidder within 15 days of supply order.
4. Bidder shall arrange for testing and installation at own expenses.
5. All legal disputes shall be subject to the jurisdiction of the Courts of Law of Tamil Nadu State.

SCHEDULE C- Technical Specifications & Delivery Terms

(See Annexure 1)

SCHEDULE D- Format of Quotations*

Quotation Ref.No:

Last Date

Sl. No	Description of Goods	Specifications See Annexure	Qty. See Annexure	Unit	Quoted Unit Rate & Currency.	Total Amount	
						In Figures	In Words

Gross Total Cost :.....

We agree to supply the above goods in accordance with the technical specifications for a total contract price of _____ (amount in figures)
 (_____ amount in words)
 within the period specified in the Invitation for Quotations.

We also confirm that the commercial on-site warrantee/guarantee shall apply to the offered goods.

Signature of Supplier

ANNEXURE 1

See SCHEDULE C - Technical Specifications & Delivery Terms

Part 1 Technical Specifications

1. Rated Power Output (into 50 ohm load): 300 W
2. Frequency/Stability: 13.56 MHz/UHF range compatible
3. Dynamic Power Range: 10 - 300W
Low Range: 10 - 30W
4. Load Impedance Range: Unlimited
5. Harmonic Output & Distortion: < - 50 dBc
6. Primary AC Power Source : 230 VAC/50 Hz.
7. Cooling System: Forced air.
8. Standard Interface inputs : RF Power On TTL Compatible: Switch Contacts
External Control: 0 -10 VDC Positive pulse input, external potentiometer RF Range
Ground enables HIGH range (0 - 100%), Open for Low Range (0 - 10%)
9. Standard Interface Outputs: RF On and Max RF Indicators
: TTL Compatible Forward Power Indicator: Factory set to 10V per 300W
: Reverse Power Indicator: Factory set to 0-10 V per 0-50 W
10. Power Read out : Fwd/Rev/Load Front panel Display; Digital
11. RF Output Connector : Type N
12. Interface : 15 – pin

The specifications for matching network

I). 500 W, 13.56 MHz, Impedance Matching Network/UHF Range compatible

Range: 5-500 Watts

Input Impedance: 50 Ohms

Tuning Range: 10-600 Ohms

Stand-Alone Operation: Fully automatic tuning without user interaction

Input Connector: Type N

Output Connector : Strap

Power Required: 24V DC, 4 Amp, $\pm 10\%$

Power Input/Interlock: 4-pin connector

Temperature Range: 5 to $+45^{\circ}$ Celsius ambient

II) Suitable RF cables to connect matching network and power supply and machine

Part 2

Delivery Terms

a)	Delivery completion period	On or before 30 days from the date of order /required duration to be mentioned for imported items
b)	Destination Department/Section	Department of Physics
c)	Drawings for Installation	Not required
d)	Testing & Installation	Required
e)	Agreement on Stamp Paper(See Schedule B)	Required
f)	Security Deposit (See Schedule B)	Required.
h)	Printed Users' Manual/Instruction Guide/Instruction Guide	Required
i)	Any other specific terms	

Signature

Head of the Department/Section

Date: