

Government of Nepal
Ministry of Information and Communication
Radio Broadcasting Service
Radio Nepal

Tender Document No. RNE 1/2068/69

Supply and Delivery of FM Transmission system

Radio broadcasting service
Radio Nepal
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SECTION I

Important Notice to Bidders

After carefully studying the bid document the bidders are required to supply the following information and forms duly filled along with the bids and without which the bid shall be rejected.

- A compliance statement shall be submitted by Bidders, for Important Notice to Bidders, condition of contract and technical specification.
- Technical description and performance characteristics of the items are to be supplied. The supplied documents shall be written in English language.
- Catalogue and brochures of the product to be supplied shall be written in English language.
- Supply records of the products must be submitted.
- The manufacturer shall submit quality assurance in conformity with the CCIR recommendations ISO 9000 series Certificates, and other relevant standards along with the bid document.
- Necessary field proven certificates from the user administrations shall be provided along with the Bid.
- Authorization letter from the manufacturers as per **Sample Form 1 "Manufacturers Authorization Form"** enclosed in the bid document.
- Original bid form enclosed in this bid document duly signed with date and sealed by the authorized person as per **Section VII "Bid Form"** enclosed in the bid document.
- Bid Security furnished in accordance with Section III, Clause 7 and as per **Sample form 2 "Bid security Form"** enclosed in the bid document.
- Price Schedule duly signed, sealed and dated by authorized person in accordance with **Section VI**.
- The Bid prices shall be based on delivery to Kathmandu by air. The goods must be insured till the final destination Kathmandu.
- Bid Security must be quoted and must be valid for 120 days.
- Harmonic Code in all items must be quoted.

- If the Bidder is from outside Nepal the Bidder shall indicate the name of the local agent.
- Payment mode must be mentioned.
- Delivery period must be mentioned.
- Goods offered must be warranted.
- Performance security form must be included before signing of contract.
- Tax clearance certificate must be submitted along with the bid.

SECTION II

Invitation for Bids

1. Radio Broadcasting Service (Radio Nepal) invites sealed bids for the **Supply and delivery of FM Transmission system.**
2. Interested bidders may obtain further information from the office of :

The Executive Director

Radio Broadcasting Service

Radio Nepal

Singhadurbar, Kathmandu, Nepal

Tel No. : 977-1-4211910

Fax No. : 977-1-4211952

E-mail : radio@rne.wlink.com.np

Internet : www.radionepal.org

3. A complete set of bidding documents may be purchased by any interested bidder on the submission of a written application to the above and upon payment of a non-refundable fee of Nepalese Rupees 3000/- (Three Thousand rupees).
4. Bids must be accompanied by a Bid Security of 5% of total tendered amount in the form of a bank guarantee drawn on a commercial bank in Nepal (US Dollar or Pound sterling or Euro:). The bid security should be counter guaranteed by a reputed bank located in Nepal, if a bank outside Nepal issues it.

SECTION III

Instructions to Bidders

1.0 Cost of bidding

The bidder shall bear all costs associated with the preparation and submission of the bid, and Radio Nepal will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

2.0 Bidding Documents

2.1 The goods required, bidding procedures and conditions of contract are prescribed in the Bidding Documents.

The Bidding Documents include:

(a)	Important notice to Bidders	-	Section I
(b)	Invitation for Bids	-	Section II
(c)	The Instructions to the Bidders	-	Section III
(d)	Conditions of Contract	-	Section IV
(e)	Technical Specifications	-	Section V
(f)	Price Schedules	-	Section VI
(g)	Bid Form	-	Section VII
(h)	Manufacturer's Authorization Form	-	Sample Form 1
(i)	Bid Security Form	-	Sample Form 2
(j)	Performance Security Form	-	Sample Form 3

2.2 The bidder is required to carefully study all Instructions, Commercial terms and conditions, Forms, Technical specifications etc. as included in the Bidding Document. Failure to furnish all information as required by the Bidding Documents or submission of an incomplete and/or partially quoted bid will remain at the bidder's risk and may result in the rejection of its bid.

The Bidder shall be duly authorized by the producer or manufacturer of the goods to supply the goods in Nepal, in case the bidder did not manufacture or otherwise produce it.

3.0 Clarification of Bidding Documents

A prospective bidder requiring any clarification of the Bidding Documents may notify Radio Nepal in writing at the mailing address indicated in the invitation for Bids. Radio Nepal will respond in writing to any request for clarification of the Bidding Documents received not later than fifteen (15) days prior to deadline for the submission of bids. Written copies of the Radio Nepal response (including and

explanation of the query but without identifying the source of the inquiry) will be sent to all prospective bidders which have received the bidding document.

4.0 **Amendment of Bidding Document**

- 4.1 Radio Nepal, may for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, issue clarification and corrections Seven (7) days prior to the deadline for the submission of bids without affecting the condition and specifications.
- 4.2 Such clarifications and corrections will be notified in writing to all prospective bidders who have purchased the bidding documents. Inclusion of such clarification and corrections will be binding on them.
- 4.3 In order to provide Bidders reasonable time in which to take the amendment into account in preparing their bids, Radio Nepal may at its discretion extend the deadline for submission of bids.

5.0 **Composition of Bid Document**

The bid documents shall comprise documents and forms duly filled with date and signed by authorized person as mentioned in the section **I : 'Important Notice to Bidders'**.

- 5.1 The following documents and forms are essential, without which **the bid shall be rejected.**
 - (a) Bid Form in accordance with Section VII duly filled with date and signed by authorized person.
 - (b) Bid Security furnished in accordance with Clause 7 of Section III: (Instructions to Bidders) and the Bid Security Form duly filled with date and signed by authorized person.
 - (c) Price Schedule in accordance with Section VI duly filled with date and signed by authorized person.
 - (d) Detailed description of the good's essential technical and performance characteristics
 - (e) Clause by clause compliance statement on Instructions to Bidders, conditions of Contract and Technical Specification.
 - (f) Authorization letter from the manufacturer.

6.0 **Bid Price & Bid Currency**

The bidder shall indicate the unit prices and total bid prices of the goods it proposes to supply under the contract on the appropriate price schedule attached

to these documents. The prices shall be quoted US Dollar or Pound sterling or Euro on CIF Kathmandu. Prices shall be exclusive of in all taxes/duties applicable in Nepal. The prices shall be fixed and will not be subjected to any variation. Cost of Inland transportation (if applicable) shall be quoted in Nepalese Rupees.

The bidders supplying goods from India shall quote in their local currency and payments will be made accordingly. The bidders from India may furnish equivalent bid security amount in Indian Currency.

To facilitate evaluation and comparison, Radio Broadcasting Service will convert all bid prices to Nepalese Rupees at the selling exchange rate fixed by Nepal Rastra Bank on the date of opening of the bids.

7.0 **Bid Security**

7.1 Pursuant to Clause 4 of Section II, the bidder shall furnish, as part of its bid, bid security of 5% of total tendered amount in the form of a bank guarantee drawn on a commercial bank in Nepal or counter guaranteed by a reputed bank situated in Nepal if a bank outside Nepal issues it.

7.2 Bid security shall remain valid for 120 **days**.

7.3 Any bid not secured in accordance with paragraphs 7.1 and 7.2 shall be rejected.

7.4 The Bid Security is required to protect Radio Nepal against the risk of bidder's non-performance.

7.5 The successful bidder's bid security will be discharged upon signing of the Contract and furnishing the performance Security, pursuant to Clause 4.0 of Section IV.

7.6 The bid security shall be forfeited:

a) If bidder withdraws its bid during the period of bid validity specified by the bidder on the Bid Form;

or

b) In the case of successful bidder, if the bidder fails to sign the contract within one month from the date of acknowledgement of letter of intent and furnish the Performance Security in accordance with Clause 4.0 of Section IV.

8.0 **Period of Validity of Bids**

8.1 Bids shall remain valid at least for **One Hundred Twenty (120) days** from the date of bid opening pursuant to clause 11.1. Bids with validity **less than One Hundred Twenty (120) days** shall be rejected.

8.2 In exceptional circumstances Radio Nepal may solicit the bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. The bid security provided under Clause 7 shall also be suitably extended. A bidder may refuse the request without forfeiting its bid security. A bidder granting the request will not be required nor permitted to modify its bid.

9.0 **Format of Signing of Bid**

The bidders shall prepare two copies of bid, clearly marking 1st copy "**Original Bid**" and other copy as "**Copy of Bid**". In the event of any discrepancy between them, the original shall govern.

10.0 **Sealing and Marking of Bids**

10.1 The bidders shall seal the original and each copy of the bid in an inner and on outer envelopes, duly marking the envelopes as "**Original**" and "**Copy**".

10.2 The inner and outer envelopes shall:

a) be addressed to Radio Nepal at the following address :

The Executive Director,
Radio Broadcasting Service
Radio Nepal, P.O. Box: 634
Singhadurbar

Kathmandu, Nepal.
Tel No.: +997-1-4211910
Fax No.:+977-1-4211952

b) Bearing "**Invitation for Bids Tender No. RNE 4/ 067-68 for Supply and Delivery of FM Transmission system** and the words "**DO NOT OPEN BEFORE OPENING DATE**"

c) Indicate the name and address of the bidder.

10.3 If the outer envelope is not sealed and marked as required by paragraph 10.2, Radio Nepal will assume no responsibility for the bid's misplacement or premature opening.

11.0 **Deadline for Submission of Bids**

11.1 Bids must be received by Radio Nepal at the address specified under paragraph 10.2 not later than the last date of submission. However, if the submission date happens to be a public holiday, the submission date will be postponed for the next working day at the said time.

11.2 Radio Nepal may, at its discretion, extend this deadline for the submission of bids by amending the Bidding Documents in accordance with Clause 4, in which case all rights and obligations of Radio Nepal and bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

12.0 **Late Bids**

Any bid received by Radio Nepal after the date of submission of bids pursuant to Clause 11 **shall be rejected**.

13.0 **Opening of Bids by Radio Nepal**

13.1 Radio Nepal will open bids in the presence of bidders representatives in Radio Nepal, Singhadurbar, Kathmandu, at the Executive Director's office at 14:00 hours. In case, the bid opening date happens to be an official holiday, Radio Nepal will open the bids in the next following working day. The bidder representatives who are present shall sign a register evidencing their attendance.

13.2 The bidder's names, bid prices, modifications, bid withdrawals and the presence or absence of the requisite bid security and such other details as Radio Nepal at its discretion, may consider appropriate will be announced at the opening.

13.3 Radio Nepal shall prepare minutes of the bid opening.

14.0 **Delivery Schedule**

14.1 Delivery of all the goods shall be made by the supplier to Radio Nepal Singhadurbar, Kathmandu, in one lot as mentioned in Clause 5 of Section IV: "Conditions of Contract."

15.0 **Bid Evaluation and Award Criteria :**

Radio Nepal shall consider only one main offer for evaluation purpose Radio Nepal may consider and/or negotiate with the successful bidder in case of submission of optional offer.

For evaluation of the bids, in addition to the bid price and other commercial and technical requirements, the following factors shall be taken into consideration for evaluation purpose.

a) **Warranty**

Bid with any deviation from warranty Clause No. 6, Section IV, Conditions of Contract shall be rejected.

b) **Delivery Period**

If the offered delivery period does not meet as per Clause 5.1 of Section IV, "Conditions of Contract," the evaluated total price shall be calculated by loading the bid price by one half percent (0.5%) per week of the total quoted price.

c) **Payment**

Bid with any deviation in payment terms as mentioned in Section IV, Conditions of Contract, Clause 7 shall be rejected.

d) **Manufacturer's Authorization letter.**

Non submission of authorization letter from the manufacturers shall be rejected.

Radio Nepal will award the Contract to the successful bidder whose bid has been determined to be substantially responsive and has been determined as the lowest evaluated bid, provided further that the bidder is determined to be qualified to perform the contract satisfactorily.

16.0 **Radio Nepal's Right to accept or reject any or all bids**

Notwithstanding Clause 15 Radio Nepal reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids, at any time prior to award of contract, without thereby incurring any liability to the affected bidder, or bidders or any obligation to inform the affected bidder or bidders.

17.0 **Radio Nepal's Right to Vary Quantities at time of Award**

- a) Radio Nepal reserves the right at the time of award of contract to increase or decrease by up to 15% of the quantity of goods and services specified in the Schedule of Requirements without any change in unit price or other terms and conditions.
- b) Radio Nepal reserves the right to place the order for the optional items either at the time of the award of contract or any time within the warranty period.

18.0 **Signing of Contract**

Within fifteen (15) days of receipt of the notification of award from Radio Nepal, the successful bidder shall furnish a Performance Security in the form of Bank Guarantee for 10% of the amount of the Contract from any reputed commercial bank of Nepal. The successful bidder then shall sign the Contract and return it to Radio Nepal.

19.0 Local agent

If the bidder is from outside Nepal the Bidder shall be required to indicate the local agent prior to contract signature. The Bidder shall declare the percentage of commission and currency of payment to the local agent.

20.0 Income Tax

1.5 % of the total bid amount of the successful bidder will be deducted for income tax payable to Government of Nepal .

SECTION IV

Conditions of Contract

1.0 **Definitions**

In this contract the following terms shall be interpreted as indicated:

- a) **"The Contract"** means the agreement entered into between Radio Broadcasting Service (Radio Nepal) and the supplier, as recorded in the Contract Form signed by the parties, including all amendments and appendices thereto and all documents incorporated by reference therein ;
- b) **"The Contract Price"** means the price payable to the supplier under the contract.
- c) **"The Goods"** means all of the equipment and services, which the supplier is required to supply to Radio Nepal under Contract;
- d) **"The Supplier"** means the individual or firm supplying the goods under this contract;

2.0 **Country of Origin**

All goods supplied under the contract shall have their country of origin mentioned.

3.0 **Standards**

The goods supplied under this contract shall conform to the standards mentioned in the Technical Specifications.

4.0 **Performance Security**

- 4.1 The successful bidder shall submit a bank guarantee equivalent to 10% of the contract amount as performance security at the time of signing of contract as per Sample Form 3 enclosed in the bid document. The currency of the bank guarantee shall be in currency of Contract or equivalent amount in US\$ / Pound Sterling £ / Euro €. The validity of the bank guarantee shall cover the warranty period as mentioned in the warranty clause. The performance Security should be counter guaranteed by a reputed bank located in Nepal, if a bank outside Nepal issues it.
- 4.2 The proceeds of the performance security shall be payable to Radio Nepal as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

4.3 Radio Nepal will discharge the performance security not later than thirty (30) days following the date of completion of the Supplier's performance obligations, including any warranty obligations, under the Contract.

5.0 Delivery

5.1 Delivery of the goods shall be made by the Supplier to Kathmandu within Ninety (90) days from the date of receipt of Irrevocable confirmed Letter of Credit (L/C) by the Suppliers bank.

6.0 Warranty

6.1 The warranty shall remain valid for a period of 24 months from the date of Acceptance Certificate issued by Radio Nepal. The Warranty shall cover repair and /or replacement of all the items/parts used in the equipment. Only genuine items/parts produced by the original manufacturer shall be used for repair or replacement.

6.2 Radio Nepal shall promptly notify the supplier in writing of any claims arising under this warranty.

6.3 Upon receipt of such notice, the Supplier shall, with all reasonable speed, repair or replace the defective goods or parts thereof, without any cost to Radio Nepal.

6.4 If the Supplier, having been notified of the claim, fails to remedy the defect(s) within a reasonable period, Radio Nepal may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which Radio Nepal may have against the supplier under the Contract. The cost of freight, insurance and any other duties during the warranty period shall be borne by the supplier.

6.5 During the delivery and installation, if some of the items found missing, short-supplied or damaged, the supplier shall supply/replace these items without any cost to, and all the costs including customs and other local taxes shall be borne by the supplier.

7.0 Payment

7.1 Payment for the goods shall be made through L/C in the following manner:

a) **On shipment**: Ninety (90%) percent of the Contract Price of the goods shipped be paid through Irrevocable confirmed Letter of Credit established in favor of the Supplier in a bank in his country, on submission of original shipping documents.

b) **On final Acceptance**: The remaining Ten (10%) percent of the contract price of the Goods shall be paid to the Contractor after the delivery of all the goods

in satisfactory condition to the Radio Nepal, Central office, Singhadurbar, KTM and issuance of acceptance Certificate for the receipt of the Goods by Radio Nepal. In case of L/C amendment is requested by the supplier, all bank charges including the confirmation charges outside Nepal shall be to the suppliers account.

7.1 If Bidder proposes payment conditions other than the above, it should be clearly stated in the tender document.

8.0 Contact Amendments

No variation in or modification of the terms of the Contract shall be made except by written amendment signed by the both parties.

9.0 Assignment

The supplier shall not assign, in whole or in part, its obligations to another party to perform under this Contract, except with Radio Nepal's written consent.

10.0 Applicable Law

The contract shall be interpreted in accordance with prevailing laws of Government of Nepal.

11.0 Taxes and Duties

11.1 A Supplier shall be entirely responsible for all taxes, stamp duties, license fees and other such levies imposed outside Nepal. In case of taxes/duties applicable at the port of entry in Nepal will be borne by Radio Nepal. Income tax if applicable as per prevailing laws of Nepal shall be borne by the supplier.

11.2 During the delivery, if some items are found missing, short-supplied or damaged, the supplier shall supply/ replace these items without any cost to Radio Nepal. All the costs including customs and other local taxes and duties shall be borne by the supplier.

12.0 Liquidated Damages

12.1 If the Supplier fails to deliver any or all of the Goods within the time period(s) specified in the Contract, the Radio Nepal shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to 0.5 % percent of the delivered price of the delayed Goods for each week of delay until actual delivery or performance up to a maximum deduction of 10% of the contract price. Once the maximum is reached, Radio Nepal may consider termination of the contract.

13.0 Force Majeurs

- 13.1 The supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligation under the Contract is the result of an event of Force Majeure.
- 13.2 For Purposes of this clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the supplier's fault or negligence. Such events may include, but are not restricted to, acts to Radio Nepal either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- 13.3 If a Force Majeure situation arises, the Supplier shall promptly notify Radio Nepal in writing of such condition and the clause thereof. Unless otherwise directed by Radio Nepal in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

14.0 Insurance

- 14.1 The goods supplied under the contract shall be fully insured in a freely convertible currency against any loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in the clause 14.2
- 14.2 The insurance shall be in an amount equal to 110% of the CIF value of the goods from "warehouse to warehouse" on "all risks" basis including war risks and strike clauses. All the items shall be fully insured by the Supplier upto the final destination.
- 14.3 Any item/part damage/lost shall be replaced by the Supplier free of charge shall replace any item/part damage/lost at first and the insurance claim shall be made by the suppliers to recover the damaged lost goods and Radio Nepal will extend all the necessary co-operation in this regard.

15.0 Supply Record

The manufacturer shall provide detail supply record of their offered products.

16.0 Patent Rights

The supplier shall indemnify Radio Nepal against all third-party claims of infringement of Patent, trademark or industrial design rights arising from use of the goods or any part thereof in Nepal.

17.0 Documents

Upon shipment, the supplier shall notify Radio Nepal and the insurance company by fax the full details of the shipment including contract number, description of

goods, quantity, the vessel, the bill of lading number and date, port of loading, date of shipment, port of discharge etc. the supplier shall mail the following documents to Radio Nepal with a copy to the insurance company:

- i) Five (5) copies of the supplier's invoice showing goods description, quantity, unit price, total amount;
- ii) Original and Four (4) copies of the negotiable, clean, airway bill/bill of lading marked freight prepaid and four copies of non-negotiable airway bill/bill of lading.
- iii) Five (5) copies of packing list identifying contents of each package;
- iv) Insurance certificate;
- v) Manufacturer's /Supplier's guarantee certificate;
- vi) Certificate of origin.

The above mentioned documents shall be received by Radio Nepal within one week from the date of dispatch of goods and, if not received, the supplier will be responsible for any consequent expenses.

- 18.0 The Bidder shall assure for continuous supply of spare parts to Radio Nepal at least for next 10 years. The Bidder shall quote their recommended spares worth 5% of the total value.

SECTION V

Technical Specification

1.0 General Requirement:

- 1.1 Purpose of the specification is to define the technical characteristics and performance requirements of the proposed FM Transmitter to be commissioned at various parts of Nepal.

Equipment Operating Conditions:

Temperature	:	-5°C to 45°C
Altitude	:	300m. to 3000m.
Humidity (RH)	:	>75%

- 1.2. Compliance Statement for the technical specification shall be submitted for every item. The answer shall be clear and absolute. Loose expressions such as "understood, noted, see the manual" shall not be allied.
- 1.3. The Bidder will explain the necessity and the purpose of the additional equipment offered, if any.
- 1.4. Special set of test equipment necessary for given system (if any) shall be recommended by the Bidder as optional items.
- 1.5. All the necessary connecting cables and accessories to make the system operational as described must be provided by the bidder.

2.0 Design and Manufacturing Requirements:

- 2.1. Characteristics of the equipment that are not indicated in this technical specification shall be in conformity with the CCIR and other relevant recommendations.
- 2.2. Components and material that are used in the manufacturing of the system shall be in accordance with international standards and capable of continuous operation.
- 2.3. The assembly of the various elements shall be such that they are easily accessible for maintenance and repair.
- 2.4. All precautions for the safety of the operators shall be provided.
- 2.5. The equipment which will be rack mounted should be suitable for 19" rack.

3.0. **Bidders experience and field proven equipment:**

- 3.1. The Bidders are required to provide certificate stating that they have been manufacturing FM Transmitter and Antenna system for a minimum period of 10 years. Such certificate shall be authentic and clearly state the number of years of experience in the field of manufacturing of FM transmission system.
- 3.2. The Bidder shall have supplied equipment to at least 20 broadcasters other than his own country. They must submit list of broadcaster's name and country with their addresses clearly written.
- 3.3. The Bids, which fail to meet the above requirements, will not be considered for evaluation.

4.0 **Acceptance Testing**

4.1 **In-Plant Testing of Equipment**

- 4.2 All the equipment shall be tested in the factory before the shipment. The test result shall be supplied with the equipment.
- 4.3 The bidder shall provide all the necessary test equipment, tools and help to test the system performance without any cost to Radio Nepal. Any non compliance found during the testing shall be corrected by the bidder before the shipment.

5.0 **System Description:**

The transmitter will be powered by city power supply / Engine Generator. In the case of city power failure the power is fed through the engine generator. The front panel of the transmitter shall LCD indicate different features of the transmitter such as output power, reflected power, modulation level and different voltages and currents. The transmitter will shut down automatically in the event of high voltage fault, power fault, arc surge, high VSWR, over modulation and over heating. In such events visual and aural indications of such conditions should be incorporated. The equipment should be mounted on 19" rack wired and ready to plug in AC supply.

The Bidder may note that the current city power supply in Nepal is quite intermittent, it is liable to frequent failures, surges and therefore the bidders are required to take necessary measures against the same. Nepal is in a lightening – prone zone and occurrences of lightening are quite frequent. Necessary lightening protection equipment need to be incorporated.

- 6.0 The Bidder shall set aside for spares an amount of 5% of total price of the equipment. The broadcaster will determine the item and quantities of the spares to be purchased with this amount.

7.0 The Bidder shall provide manuals circuit diagram and warranty card of every equipment of the system. Failure to provide may lead to exclusion from the bidding evaluation.

8.0 **Technical Features of Equipments:**

8.1 **1000W Transmitter System:**

8.1.1 **1000W Solid State FM Transmitter:**

1.	Power Ratings	:-	1000W Stereo
2.	Mono/ Stereo	:-	Stereo
3.	Frequency Range	:-	87.5 - 108 MHz in 10 KHz steps
4.	Frequency stability	:-	± 200 Hz
5.	Excitation	:-	separate
6.	Type of Modulation	:-	Direct Carrier Frequency(DCFM)
7.	Output Connector	:-	DIN / N- Connector / EIA Flange
7.	Modulation Capability	:-	Max ± 350 KHz
8.	RF Load Impedance	:-	50 Ohms; Fully VSWR Protected
9.	Maximum Load VSWR	:-	1.5:1 VSWR, Maximum for full Output Power; Automatic Power Reduction into Higher VSWR.
10.	RF Harmonic/Spurious Output	:-	Suppression meets or exceeds CCIR specifications.
11.	AC Input Power	:-	230 VAC ±20 % or above Line Variation, 50Hz, Single Phase, 2 Wire
12.	Ambient Temperature Range	:-	- 5°C to + 45°C (operating)
13.	Maximum Altitude	:-	3000 m
14.	Input Impedance (Audio)	:-	600Ω balanced.
15.	Input Sensitivity	:-	3.5 V P-P nominal for ± 75 KHz deviation.
16.	Amplitude Response	:-	± 0.5 dB, 20 Hz to 15 KHz
17.	FM Signal to Noise Ratio	:-	80 dB below ± 75 KHz deviation at 400 HZ.
18.	CCIF Inter-modulation Distortion	:-	All distortion Products down 74 dB.
19.	Duty	:-	Continuous; 24 hrs. Operation
20.	Pre - Emphasis	:-	50 μ Sec.
21.	Control & Monitoring status	:-	Output power, local/remote mode, Power on/off functions, forward Power, Reflected Power, Calculated VSWR, PA Current, PA Voltage, VSWR Fault, PA Fault, Temperature, PLL, RF Mute and interlock fault conditions etc.

Self protected for open/short circuit fully self-diagnostic and virtually maintenance free.

22.	Spurious Radiation	:-	$\leq -60\text{dB}$
23.	Audio	:-	-3dBm to +10 dBm
24.	Audio Connector	:-	AES/XLR/Optical
24.	Protection	:-	a) Standard automatic power Control b) VSWR Protection c)VSWR foldback d)Temperature and AC/DC Overload
25.	Power Supply System	:-	SMPS
26.	Manuals	:-	Operation and Repair Manuals with complete set
27.	Transmitter Performance	:-	Should be included
28.	Warranty	:-	Two Years Minimum with unconditional replacement of parts .

8.1.2 Antenna System:

Vertically Polarized FM Panel Antenna, minimum +7dB gain, 6 Bay, Maximum power handling up to 2 KW, Omni-directional, and Complete set with mounting, grounding and connecting accessories, stainless steel diopoles

8.1.3 Low Loss 50Ω Feeder cable with weatherized Connectors, clips suitable for above transmission 7/8" dielectric foam System (45 meters).

8.1.4 Exciter as required for above transmitter and RF output to 7/8" feeder cable connector converter. *(This converter can be used to connect exciter direct to the feeder cable of antenna system of 1000W transmitter)*

8.2. 19" Rack:

Tough, lightweight 19" rack case made for robust climatic condition with front and rear latched course to house the above-mentioned equipment such as:

1. Audio Processor
2. FM Transmitter
3. Digital audio satellite receiver
4. Monitoring Equipment
5. Audio Switcher
6. 2 row Space for future expansion.
7. 1 row Blank Panel/provision between every other equipment.

8.3 Satellite Receiving System:-

8.3.1 Audio Broadcast Receiver Radyne Comstream ABR 202A

8.3.2 Satellite Dish Antenna (3.7m. Diameter) solid type disc with Feed Horn, LNB (PLL type) for C Band and necessary connectors, Gain 41 dB

8.3.3 Studio equipments and computers

Technical Specifications:

8.3.3.1 Telephone Hybride:

Processing Functions

- 3rd-generation Adaptive Digital Hybrids
- Exclusive Feedback Reduction Functions, including Acoustic Echo Cancellation
- High-pass Filter, AGC/Limiter

Receive (from caller) Processing

- High-pass 'Hum' Filter, Smart AGC / Platform Leveler, Noise Gate & Caller Ducking

Input Range Select between MIC and LINE levels

Input Level Adjustable from -10 to +4 dBu (nominal)

- Impedance Bridging, > 50K Ohms
- Analog Clip Point +21 dBu
- Analog-to-Digital Converter Resolution 20 bits
- Output Level Nominal at +4 dBu
- Digital-to-Analog Converter Resolution 24 bits
- Frequency Response 200 to 3400 Hz, +/- 1 dB
- THD+N/Input < 0.5% THD+N using 1 KHz sinewave
- Signal to Noise >90 dB
- Power supply: 100-220VAC, 50/60 Hz,

8.3.3.2 Desktop Computer(Digital Audio Workstation):

Brand	HP/Dell (or equivalent as listed in Gartner Standard)
Certification	ISO & CE
Processor	Intel Core 2 Duo Processor, 1066 MHz FSB
Clock Speed	2.9 GHz
Cache	3 MB L2 Cache memory
Chipset	Intel Express Chipset
Memory	2GB (1x2GB) DDR3 SDRAM 1333 MHz
HDD	320GB or 500GB
Media	DVD RW
Keyboard	USB Type Standard Keyboard
Monitor	19" LCD color Monitor
LAN	Gigabit Ethernet LAN
Expansion Slot	At least 2 full height PCI, 1 PCIe x 16 full-height graphics
Speaker	Internal Audio Speaker
Mouse	Optical USB Scroll Mouse
Chassis	Mini Tower
I/O Port	8 USB 2.0 (at least 2 in front), 1 serial port, 1 parallel port, 1 RJ-45 port, Video, Audio
OS	Licence for Microsoft Windows XP pro Sp3 with CD
Accessories	Necessary accessories like power cord etc., operating documentation/Manuals
Warranty	3 years for parts and service
UPS	800 VA
Sound Card	Edirol UA-25 USB 24 bits 96 KHz

8.3.3.3 FM broadcast console:

- Module types high quality 14 to 16 inputs module 4 mics and 10 stereo line inputs
- Powerful 2 lines telephone interface with stereo cue, monitoring for a control room and studio
- supports both analog and digital sources with ICs are socketed for ease of replacement
- Two way talkback systems with off-line' recording and communication
- Crosstalk: Pgm to Pgm, >86dB, 20-20kHz
- Digital IO: <0.001% THD, +18dBu IO, 20kHz BW
- Analog IO: <0.015% THD, +18dBu IO, 20kHz BW
- Mic EIN: -127dBu, 150ohm, 20kHz BW & Line EIN: -93dBu, 600ohm, 20kHz BW
- Freq Response: +0/-0.5dB 20-20kHz & Power supply: 100-220VAC, 50/60 Hz

8.4.0 Automatic Voltage Regulator:

Type	:	Servo
Capacity	:	15 kVA
System	:	Built-in Spike/Over Voltage Protection
Output Voltage	:	230V/50Hz
Input Voltage	:	160 V to 260V

8.4.1 Automatic Voltage Regulator:

Type	:	Servo
Capacity	:	6.5 kVA
System	:	Built-in Spike/Over Voltage Protection
Output Voltage	:	230V/50Hz
Input Voltage	:	160 V to 260V

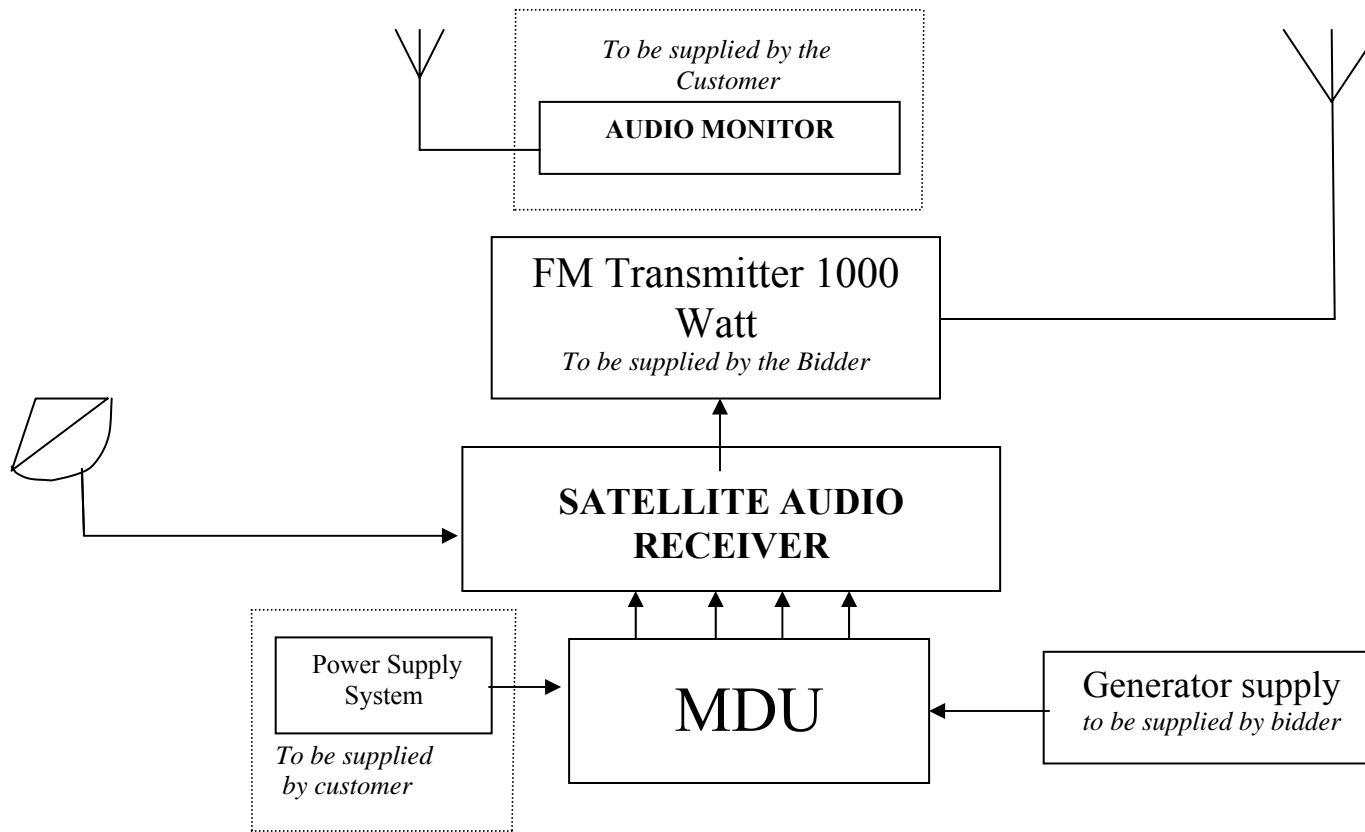


FIGURE: LINE DIAGRAM OF PROPOSED FM TRANSMISSION SYSTEM

SECTION VI

PRICE SCHEDULE

FM Transmission Systems

Package A:

S. No	Description	Qty.	Country of Origin	Rate (US \$ Or Pound sterling £ Or Euro €)	Total Amount () CIF Kathmandu
1.	1000W Solid State Stereo FM Transmitter	1			
2.	Exciter for 1000 W	1			
3.	6 Bay Panel Antenna System with 1 ¼" EIA Connector	1			
4.	50 ohms 45m feeder cable 7/8", Feeder cable connectors, grounding kit with necessary accessories.				
5.	RF Connector 1 5/8" EIA to 1 ¼" EIA converter	2 set			
6.	RF Connector 1 ¼" EIA with inner conductor	2 set			
7.	Power Distribution System	1			
8.	19" Rack	3			
9.	15 kVA Servo Automatic Voltage Regulator (AVR)	1			
10.	6.5 kVA Servo Automatic Voltage Regulator (AVR)	1			
In words :					
Grand Total (US \$ Or Pound sterling £ or Euro €):					

Package B:

S. No	Description	Qty.	Country of Origin	Rate (US \$ Or Pound sterling £ Or Euro €)	Total Amount (CIF Kathmandu)
1.	Audio Broadcast Receiver : Radyne Comstream ABR 202A and necessary connectors	8			
2.	Satellite Dish Antenna (3.7m. Diameter) with Feed Horn , Gain 41 dB	3			
3.	LNB(PLL type) for C Band (Com stream)	6			
4.	Audio Processor: Omnia 1 FM Turbo	3			
5.	Telephone Hybride Two lines individual module type	2			
6.	Digital Cell cast for Live telecast	2			
7.	Monitoring equipment: AM/FM 19” receiver	3			
8.	FM broadcast console 16 channels (Soundcraft 10 series, Audio Arts, Sonifex, Allen& Health XB)	1			
In words :					
Grand Total (US \$ Or Pound sterling £ or Euro €):					

PACKAGE C:

S. No.	Description	Qty.	Country of Origin	Rate (US \$ or Pound sterling £ or Euro € or NRs)	Total Amount ()
1.	DAW	8			
2.	Sound cards Edimax 24 bits	2			
3.	UPS 1200 VA	8			
In words :					
Grand Total (US \$ or Pound sterling or Euro or NRs):					

SECTION VII

Bid Form

Tender No: RNE 1/068/69 Supply and Delivery of FM Transmitter systems and studio equipments.

To: Radio Broadcasting Service
Radio Nepal
Singhadurbar
Kathmandu, Nepal

Having examined the Bidding Documents including Addenda Nos. *(Insert Numbers)*, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to **Supply and Delivery of FM Transmission system** in conformity with the said Bidding Documents for the sum of *In figure: (In word....)* or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this bid.

We undertake, if our bid is accepted, to commence delivery within (...) days and to complete delivery of all the items specified in the Contract within (...) *(days Calculated from the date of contract Signature)*

If our bid is accepted we will obtain the guarantee of a bank in a sum not exceeding **Ten 10% of the Contract Sum for the due Performance of the Contract.**

We agree to abide by this bid for a period of **ONE HUNDRED TWENTY (120)** days from the date fixed for bid opening under Clause 14 of the Instruction to Bidders and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof in your notification of award shall constitute a binding contract between us.

We understand that you are not bound to accept the lowest or any bid you may receive.

Dated: this day of 2011

Signature _____
Name:
Witness:
Address:
Seal:

Signature _____
Name:
Duly Authorized to Sign
bid for and on behalf of
Seal:

**Note: This bid form should be duly filled, signed and dated and sealed.
Bid form not duly filled will not be considered for evaluation.**

SAMPLE FORM. 1

Manufacturer's Authorisation Form

To: **Radio Broadcasting Service (Radio Nepal)**

WHEREAS (Name of the Manufacturer) who are established and reputable manufacturer of (name and /or description of the goods) having factories at (address of factory)

do hereby authorize (name and Address of Agents) to submit a Bid, and subsequently negotiate and sign the contract with you against IFB No. (reference of the Invitation to Bid) for the above Goods manufactured by us.

We hereby extend our full guarantee and warranty for the goods offered for supply by the above firm against this Invitation for Bids.

(Signature for and on Behalf of Manufacturer)

Note: The letter of authority should be on the letterhead of manufacturing concern and should be signed by a person competent and having the power of attorney to bind the manufacturer. It should be included by the bidder in its bid.

SAMPLE FORM. 2

Bid Security Form

Whereas (name of Bidder) (hereinafter called "the Bidder") has submitted its Bid dated (date of submission of list) for the **Supply and Delivery of FM Transmission system** (hereinafter called "the Bid")

KNOW ALL PEOPLE by these presents that WE (name of bank) of (name of Country), having our registered office at (address of bank) (hereinafter called "the Bank"), are bound unto Radio Broadcasting Service (Radio Nepal), (hereinafter called "the Purchaser") in the sum of for which payment well and truly to be made 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 ____ 2011.

The Conditions of this obligations are:

1. If the Bidder withdraws its Bid during the period of Bid validity specified by the Bidder on the Bid Form;
- Or,
2. If the bidder, having been notified of the acceptance of its Bid by the Purchaser during the period of Bid validity:
 - a) Fails or refuses to execute the contract form, if required; or
 - b) Fails or refuses to furnish the Performance Security, in accordance with the Instructions to Bidder,

We undertake to pay to 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 its owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including thirty (30) days after the period of Bid validity, and any demand in respect there of should reach the bank not later than the above date.

(Signature of the Bank)

SAMPLE FORM.3

Performance Security Form

To: Radio Broadcasting Service (Radio Nepal)

WHEREAS (name of Supplier) (hereinafter called "the Supplier") has under taken, in pursuance of Contract no. (Reference number of the Contract) date _____ 2011 _____ to **Supply and Delivery of FM Transmission system.** (Hereinafter Called "the Contract")

AND WHEREAS we have agreed to give the supplier a guarantee:

THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the supplier, up to a total of (amount of the Guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the Contract and without Cavil or argument any sum or sums within the limits of (amount of Guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the ____ day of ____ 2011.

Signature and Seal of the Guarantors

Date:

Address:

