



Request for Quotation (RFQ)

Supply, Transport, and Turnkey Installation of 80m Guyed Steel Antenna Tower

Detail	Specification
RFQ Title	Supply, Transport, and Turnkey Installation of 80m Guyed Steel Antenna Tower
Project	Turnkey Installation of 80m Guyed Steel Antenna Tower
Issuing Authority	Okapi Consulting
Title of Work	80m Guyed Steel Antenna Tower (Scope covers full supply, delivery, and installation)
Ref. No.	OKAPI/RFQ/MAROUA-CAMEROON/2025/02
Issue Date	27 October 2025
Submission Deadline	28 November 2025, 17:00 (5:00 PM) UTC+1
Clarification Deadline	12:00 noon on 3rd November 2025
Contact for Clarification	tender1@okapi.cc
Contact in Copy	Max Graef (Email: max@radioactive.org.uk)

1. Project summary and background

Okapi Consulting seeks proposals from qualified service providers for the complete, turnkey supply, transport, and installation of one (1) 80-meter Guyed Steel Antenna Tower at the designated site in Maroua, Cameroon. This project is critical to expanding Radio Ndarason Internationale's (RNI) broadcasting reach within the Lake Chad region.

2. Scope of Work (SOW)

The contract is for a complete, turnkey solution including, but not limited to, the following mandatory elements:



Diffusion dans toute la région du Lac Tchad Broadcasting throughout the Lake Chad Region

- a) **Site Visit:** to examine the soil and create a geotechnical soil report and determine other factors that will influence the final design of the tower and foundations.
- b) **Design and Engineering:** Provision of certified structural drawings, calculations, and foundation designs by a qualified engineer, based on site visit and geotechnical report.
- c) **Supply:** Fabrication of all steel components, foundation anchors, bolts, nuts, washers, and all tower accessories.
- d) **Corrosion Protection:** Hot-dip galvanization of all steel components.
- e) **Transport:** All international and local transport, logistics, customs clearance, and delivery to the Maroua site.
- f) **Civil Works:** All foundation works, including excavation, concrete pouring, anchor bolt setting, and backfilling.
- g) **Installation:** Erection of the 80m tower, including full installation of all accessories, grounding system, and aviation lighting.
- h) **Testing & Handover:** Complete installation check, grounding system resistance test, and provision of final as-built documentation.
- i) **Maintenance:** Provision of maintenance to keep tower in full working order for a minimum of 24 months from the day of commissioning, including a minimum of 2 site visits to tighten bolts and guy wires as required.

3. Mandatory Technical Specifications

Bids that do not comply with these mandatory specifications will be disqualified.

a. Design Standards

All design, fabrication, and erection shall comply with:

- TIA-222-I (or latest revision) or EN 1993-3-1 / EN 1991-1-4 (Eurocode 3 & wind actions)
- ASTM A123 / ISO 1461 – Hot-dip galvanizing
- ASTM A325 / ISO 898-1 Grade 8.8 – Bolts and fasteners
- ASTM A475 – EHS galvanized guy strand



Diffusion dans toute la région du Lac Tchad Broadcasting throughout the Lake Chad Region

b. Tower Configuration

Height (AGL)	80 m nominal
Type	Triangular or square lattice, bolted sections
Number of guy levels	3 – 4 (determined by site visit)
Guy arrangement	3 radials @ 120°, anchor radius $\approx 0.8 \times$ tower height (~64 m typical)
Access	Integral climbing ladder or step-bolt system with fall-arrest rail
Platforms	2 Standing Platforms

c. Materials & Finishes

Structural members	High-strength steel – S275 / ASTM A572 Gr 50
Bolts, nuts, washers	High-strength galvanized, Grade 8.8 / A325
Guy wires	EHS galvanized steel strand (ASTM A475), sized per design
Turnbuckles & fittings	Hot-dip galvanized, rated $\geq 2 \times$ design working load
Galvanizing	Minimum 85 μm (610 g/m ²) zinc coating, ISO 1461 / ASTM A123

d. Foundations & Anchors

- Tower base foundation and guy anchors to be engineered to specifications established in geotechnical report.
- Concrete or helical anchors permitted subject to pull-out test verification.
- All anchor hardware to be galvanized and supplied with templates and layout drawings.

e. Grounding & Lightning Protection

- Provide integrated grounding/bonding system per TIA-607 or equivalent.
- Lightning rod and down conductor included; all metallic components bonded.

f. Aviation Lighting

- Dual-mode (day/night) compliant low-intensity aviation lighting system with a solar power backup unit.

g. Quality & Inspection

- Fabrication drawings and structural calculations by licensed engineer.
- All materials traceable and inspected for galvanizing thickness and bolt torque.
- Guy tension to be field-verified after erection.



Diffusion dans toute la région du Lac Tchad
Broadcasting throughout the Lake Chad Region

4. Commercial, Logistical and Safety Requirements

Requirement	Details
Quotation Currency	All financial submissions MUST be in XAF (Central African CFA Franc).
Delivery Deadline	Materials must be delivered and the tower fully installed by 21 December, 2025.
Payment Terms	Bidder must clearly state payment terms (e.g., 30% mobilization, 40% delivery, 30% upon final acceptance).
Warranty	A minimum 10-year structural warranty and a 2-year warranty on accessories and installation is required.
Logistical Responsibility	Bidder is responsible for all customs duties, taxes, offloading, site preparation, and securing the site during construction.
Permits	Bidder must specify if they include the cost and effort of obtaining all necessary local construction permits, civil aviation authority approvals, and frequency licenses for the tower construction.

5. Submission and Evaluation Criteria

REQUIRED DOCUMENTS (MANDATORY)

Bidders must submit the following:

- Quotation Letter:** Signed and stamped, guaranteeing validity for at least sixty **(60) calendar days**.
- Annex A (Mandatory Pricing and Compliance Checklist):** Completed and signed (see below).
- Company Profile:** Including proof of successful completion of at least two (2) similar tower projects 60m in the last five years.
- Proposed Schedule:** A Gantt chart or detailed timeline from contract award to final handover.



Diffusion dans toute la région du Lac Tchad
Broadcasting throughout the Lake Chad Region

- e) **Technical Drawings:** Preliminary drawings and technical data sheets for the proposed 80m tower design.

EVALUATION CRITERIA

Proposals will be evaluated based on the following weights:

Criterion	Weight
Total Turnkey Cost (Value for Money)	60%
Experience & Track Record (Similar projects)	20%
Delivery Schedule (Speed and realism)	20%

CLARIFICATION REQUESTS

- a) **Clarification requests:** Send requests to tender1@okapi.cc not later than 12:00 noon on 10th November 2025. The subject line must include the RFQ number and Title. Please ensure Max Graef (max@radioactive.org.uk) is included in the CC field of your submission email.
- b) **Submission:** All quotations must be formally addressed to Okapi Consulting and sent via email. Please ensure Max Graef (max@radioactive.org.uk) is included in the CC field of your submission email.



**Diffusion dans toute la région du Lac Tchad
Broadcasting throughout the Lake Chad Region**

Annex A: Mandatory Pricing and Compliance Checklist

A.1 Technical Compliance Checklist

Requirement	Compliance (Yes/No)	Supporting Document Ref.
TIA-222-I (or latest revision) or EN 1993-3-1 / EN 1991-1-4 (Eurocode 3 & wind actions)		
Minimum 45 m/s Wind Loading included		
Hot-Dip Galvanization (ASTM/ISO Compliant)		
Safety Climbing System included		
Aviation Lighting System (Solar Backup) included		
Grounding System included		

A.2 Mandatory Bill of Quantities (BoQ) and Pricing

Item No.	Description	Unit	Quantity	Unit Price (XAF)	Total price (XAF)
1.0	Site Visit	EA	1		
1.1	80m Guyed Tower Steel and Hardware	LOT	1		
1.2	Foundations (Anchor Bolts, etc.)	LOT	1		
2.0	Tower Accessories				
2.1	Safety Climbing System (80m)	LOT	1		

Request for quote for supply, transport and installation of 80m self-supporting steel antenna tower for Maroua, Cameroon



**Diffusion dans toute la région du Lac Tchad
Broadcasting throughout the Lake Chad Region**

2.2	Work Platforms (Specify Quantity)	EA			
2.3	Aviation Lighting System	LOT	1		
3.0	Logistics and Transport				
3.1	Insurance	LOT	1		
3.2	Local Transport to Maroua	LOT	1		
4.0	Civil and Installation Works				
4.1	Foundation Civil Works (Excavation, Concrete, etc.)	LOT	1		
4.2	Tower Erection and Installation	LOT	1		
4.3	Grounding System Installation and Testing	LOT	1		
5.0	Documentation and Warranty				
5.1	Certified structural drawings and As- Built docs	LOT	1		
	Subtotal (XAF)				
	Taxes/VAT in Cameroon				
	TOTAL PRICE				

Request for quote for supply, transport and installation of 80m self-supporting steel antenna tower for Maroua, Cameroon



**Diffusion dans toute la région du Lac Tchad
Broadcasting throughout the Lake Chad Region**

Bidder Confirmation

- a) Company name:
- b) Authorized signature:
- c) Date:
- d) Quotation validity (Days):
- e) Proposed delivery/Installation completion date: