

Key Highlights – Supplier Checklist

Lattice Transmission Towers & Foundation Legs

According to NCS-232 Spec.

1. Pricing per IEC Catalogue Number – Towers (per RFP)

The Supplier shall submit a price for each IEC catalogue number covering towers, extensions, and crossarms (whether assembled or disassembled), as specified in the RFP, and not in accordance with Appendix E1. Each catalogue number shall be priced separately, strictly in line with the RFP requirements. *Ref: Clause 1.1.A, pp.7–8; Appendix E1, pp.67–70*

2. Catalogue-Based Price for Towers – All-Inclusive Scope

Each catalogue-based price for towers and their components shall include full fabrication, assembly of crossarms where required by drawings, all accessories (including bolts, nuts, spring washers, climbing steps, and safety rings), and delivery in accordance with the tender terms. Partial pricing, such as steel only or excluding accessories, is not permitted. *Ref: Clause 1.1.A, pp.7–8*

3. Crossarms – Pricing According to Supply Configuration

Where a crossarm marked in the drawing to be supplied assembled is ordered disassembled, pricing shall be applied on a per metric ton basis under Section 1.1.B and not as a catalogue-based price under Section 1.1.A. *Ref: Clause 1.1.A, p.7*

4. Price per Metric Ton – Towers and Disassembled Components

The bid shall include a price per metric ton for towers or tower components supplied in disassembled form (e.g., tower sections, extensions, crossarms). This price shall include fabrication, all required accessories, and delivery. *Ref: Clause 1.1.B, pp.7–8*

5. Definition of Payable Weight

For prices quoted on a per metric ton basis, the payable weight shall be strictly limited to the weight specified in the drawings, rather than the actual weight. For Sections B and C, this excludes all accessories, bolts, nuts, spring washers, climbing steps, safety rings, and the weight of welding and galvanizing. For Section F, this excludes all accessories, bolts, nuts, spring washers, and the weight of welding and galvanizing. *Ref: Clause 1.1.B/C/F, p.8*

6. Price per Metric Ton – Assembled Crossarms

The bid shall include a price per metric ton for crossarms required by the drawings to be supplied in assembled form. This price shall cover fabrication, full assembly, all required bolts, nuts, and spring washers, and delivery in accordance with the tender terms. *Ref: Clause 1.1.C, p.8*

7. Prototype Tower Assembly Price

The bid shall include a price per metric ton for prototype tower assembly, including complete assembly, filming the assembly, disassembly, and submission of an assembly report. *Ref: Clause 1.1.D, p.8*

8. Pricing per IEC Catalogue Number – Foundation Legs (per RFP)

The Supplier shall submit a price for each IEC catalogue number of tower foundation legs and cross profiles, as specified in the RFP, and not in accordance with Appendix E2. Each catalogue number shall be priced separately as required by the RFP. *Ref: Clause 1.1.E, p.8; Appendix E2, p.71*

9. Price per Metric Ton – Foundation Legs

The bid shall include a price per metric ton for foundation legs and cross profiles, including fabrication, all required bolts, nuts, spring washers, and delivery. *Ref: Clause 1.1.F, p.8*

10. Mandatory Completeness of Pricing

The pricing proposal shall fully cover one complete permitted combination only: Sections A–D (towers), or Sections E–F (foundation legs), or Sections A–F (both). Any omission of a required section within the selected combination shall result in disqualification of the bid. *Ref: Clause 1.1, p.9*

11. Consistency Between Catalogue-Based Prices and Per-Ton Prices

The prices quoted on a per metric ton basis shall be consistent with the prices quoted per IEC catalogue number. Specifically, when catalogue-based prices are derived on a weight basis, they shall correspond to the relevant per-ton prices for towers and disassembled components (Sections A vs. B) and for foundation legs and cross profiles (Sections E vs. F). *Ref: Clause 1.1, p.9*

12. Supply as Separate, Complete Kits

Each IEC catalogue number, together with all its parts, shall be supplied separately to IEC warehouses. Towers, extensions, crossarms, foundation legs and cross profiles shall be supplied as complete kits according to the relevant catalogue number and drawings. Items from different elements, catalogue numbers, towers, extensions or crossarms shall not be mixed in the same package. *Ref: Clauses 11.1, 11.2, 11.9 and 11.9.2, pp.26,30*

13. Foundation Legs – Packing Requirements

Foundation legs and cross profiles shall be supplied disassembled, secured with double galvanized steel bands of minimum 2-inch width in at least three locations, with the distance between strips not exceeding 2 meters, and with wooden beams as specified to ensure safe handling and transportation. *Ref: Clauses 11.9.2–11.9.4, pp.30–31*

14. Identification and Marking

All disassembled section members shall be permanently marked before galvanizing with the manufacturer trademark, tower type, and item number according to the drawing. The marking shall remain clearly readable after galvanizing. The height of letters or numbers shall be 12–20 mm. *Ref: Clause 8.1, p.22*

15. Accessories Over-Supply (5%)

For towers/extensions/crossarms, the manufacturer shall provide an additional 5% of each type and length of bolts, nuts, climbing steps, spring washers and safety rings listed in the drawings, with a minimum of one item of each type and length. For foundation legs, the additional 5% requirement applies to bolts and nuts. *Ref: Clauses 11.8 and 11.9.6, pp.29,32*

16. Responsibility for Missing or Non-Conforming Items

The Supplier shall bear responsibility for missing elements, inaccurate production such as tolerances, holes, length or wrong profile, transportation damage, and damaged galvanizing coating, and shall repair or re-manufacture missing, damaged, or defective parts subject to IEC approval. *Ref: Clause 16.1, p.39*

17. Repair and Completion Timeframes

Missing parts weighing up to 200 kg per paragraph in PO for towers/extensions/crossarms shall be supplied within 5 days at no additional cost. Missing parts over 200 kg shall be supplied within 5 days from the date of clarification with the supplier. Repairs shall be completed within 2 working days. Agreed compensation shall apply according to the tender documents for each day of delay in complying with service terms and schedule. *Ref: Clause 16.2, p.39*

18. Proposal Documents – All Bidders, New Manufacturers and Previous IEC Suppliers

All bidders shall submit the completed Manufacturer Questionnaire (Appendices A1 and A2), the declaration of compliance with NCS-232 (Appendix C1), and a valid ISO 9001 certificate.

Manufacturers that have not previously supplied lattice transmission towers to IEC shall submit experience declarations for lattice towers and/or foundation legs (Appendices B1 and B2) and a fabrication facility description. Manufacturers that have previously supplied lattice transmission towers to IEC shall submit Appendix B3. Documents shall be in English or Hebrew; failure to submit the required documents will disqualify the bidder. *Ref: Clauses 3.1–3.4, pp.10–11; Appendices B1–B3 and C1, pp.45–48*

19. Appendix A2 Submission Package and Minimum Capability Items

Appendix A2 documents must be submitted as a single PDF file, organized according to the order of the requirements table. The table includes, among other items, QC documents F1–F3, manufacturing capabilities of at least 4,500 tons/year for lattice towers and 200 tons/year for foundation legs, computerized machinery for cutting/punching/drilling, storage areas, manpower, welding documentation, WPQR, NDT personnel credentials level 2 and above, customer list, and Appendix C2 material availability. *Ref: Appendix A2, pp.42–44*

20. Material Availability Confirmation

The manufacturer is required to confirm the ability to source the angle, channel and hollow section profiles listed in Appendix C2 for fabrication of the towers. The L60x40x7 angle profile may be replaced with L60x60x6 made of EN10025-S355J0 steel; increased wall thickness may be suggested for hollow section profiles. The listed profiles are primary profiles and there may be additional or different profiles. *Ref: Appendix C2, p.49*

21. Bolts for Foundation Connection – Separate Packing for Complete Towers

For complete towers only, the bolts designated for connection of the tower to the foundation leg, including nuts and spring washers, shall be individually packed in a separate sealed plastic bag of a different color, placed on top if packed with other tower bolts, and marked with an additional sticker reading “Bolts for Foundation Connection”. Example quantities are listed in Appendix E3. *Ref: Clause 11.8, pp.29–30; Appendix E3, p.72*

22. Welding Inspection and NDT Reports

Default weld inspection requirements are 100% Visual Testing (VT) and 10% Magnetic Particle Testing (MT) for all welds. Butt welds require additional RT or UT according to the annexure/weld type. If NDT fails, a further 10% of welds shall be tested; if that additional 10% fails, all affected welds shall be corrected and 100% of welds subsequently subjected to NDT. All VT, MT, RT and UT reports shall be compiled and submitted to IEC. *Ref: Clause 6.5.4, p.20; Clause 14.1.3, p.35*

23. Ongoing Delivery Documentation and Packing Inspection Certificates

Before every delivery, the supplier shall submit to IEC Quality Control Department the required certificates: weld inspection certificates as required, fabrication test certificates, galvanizing test certificates and packaging inspection certificates. The manufacturer must ensure that all documentation is in its possession and IEC may request it as needed. *Ref: Clause 15.1, p.38*