



ENERGY FIJI LIMITED TENDER DOCUMENT

**MR 101/2026 - FABRICATION AND
SUPPLY OF 132kV MONOPOLE TOWER
SUPPORT RINGS AND PORTABLE STEP
ASSEMBLIES**

Section 1: Instructions to Bidders

- 1. Scope of Bid**

The Energy Fiji Limited (hereinafter referred to as "the purchaser"), wishes to receive bids for Fabrication and Supply of 132kV Monopole Tower Support Rings and Portable Step Assemblies as specified in these bidding.
- 2. Eligible Bidders**

This Invitation to Bid is open to bidders who have sound financial background and have previous experience in handling such projects.

Bidders shall provide such evidence of their continued eligibility satisfactory to the purchaser as the purchaser shall reasonably request.

Bidders shall not be under a declaration of ineligibility for corrupt or fraudulent.
- 3. Eligible Materials, Equipment and Services**

The Tower Support Rings and Portable Step Assemblies to be supplied under the Contract shall have their origin from reputable companies. At the Purchaser's request, bidders may be required to provide evidence of the origin of various parts of the Support Rings and Portable Step Assemblies.
- 4. Qualification of the Bidder**

To be qualified for award of Contract, bidders shall submit proposals regarding work methods, scheduling and resourcing which shall be provided in sufficient detail to confirm the bidder's capability to fulfill the contract.
- 5. Cost of Bidding**

The bidder shall bear all costs associated with the preparation and submission of its bid and the Purchaser will in no case be responsible or liable for those costs.
- 6. Tender Submission**

It is mandatory for bidders to upload a copy of their bid in the TENDER LINK Electronic Tender Box no Later than 1600hrs, Wednesday 9th September, 2026. To register your interest and tender a response, view 'Current Tenders' at: <https://www.tenderlink.com/efl>

For further information contact the Manager Strategic Procurement, Inventory & Properties at JReddy@efl.com.fj

Bidders are requested to upload electronic copies via Tender Link by Registering their interest at: <https://www.tenderlink.com/efl>

This Tender Closes at 4.00pm (1600hrs) on Wednesday 9th September, 2026.
- 7. Deadline for Submission of Bids**

Bids must be received by the Employer at the address specified above no later than 1600 hours (Fiji Time) (9th September 2026).

The Employer may, at its discretion, extend the deadline for submission of bids by issuing an addendum, in which case all rights and obligations of the Employer and the bidders previously subject to the original deadline will thereafter be subject to the deadlines extended.

8. Late Bids	Any bid received by the purchaser after the deadline for submission of bids prescribed will be rejected and returned unopened to the bidder.
9. Modification and Withdrawal of Bids	The bidder may modify or withdraw its bid after bid submission, provided that written notice of the modification or withdrawal is received by the Purchaser prior to the deadline for submission of bids. No bid may be modified by the bidder after the deadline for submission of bids.
10. Purchaser's Right to Accept any Bid and to Reject any or all Bids	The Purchaser 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 of the grounds for the Purchaser's action.
11. Notification of Award	Prior to expiration of the period of bid validity prescribed by the Purchaser, the Purchaser will notify the successful bidder by fax/email, confirmed by registered letter, that its bid has been accepted. This letter (hereinafter and in the Conditions of Contract called the "Letter of Acceptance") shall name the sum which the Purchaser will pay the Contractor in consideration of the execution, completion and maintenance of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Conditions of Contract called "the Contract Price"). The notification of award will constitute the formation of the Contract. Upon the furnishing by the successful bidder of a performance security, the Purchaser will promptly notify the other bidders that their bids have been unsuccessful.
12. Signing of Contract Agreement	At the same time that he notifies the successful bidder that its bid has been accepted, the Purchaser will send the bidder the Form of Contract Agreement provided in the bidding documents, incorporating all agreements between the parties. Within 7 days of receipt of the Form of Agreement, the successful bidder shall sign the Form and return it to the Purchaser

**13. Corrupt or
Fraudulent
Practices**

The Purchaser requires that the Contractor observe the highest standard of ethics during the procurement and execution of such contracts. In Pursuance of this policy, the Purchaser:

- (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) "corrupt practice" means behaviour on the part of officials in the public or private sectors by which they improperly and unlawfully enrich themselves and/or those close to them, or induce others to do so, by misusing the position in which they are placed, and it includes the offering, giving, receiving or soliciting of anything of value to influence the action of any such official in the procurement process or in contract execution; and
 - (ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Purchaser, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Purchaser of the benefits of free and open competition;
- (b) Will reject a proposal for award if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question.

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Section 2: Technical Specification

1 General Description

The Energy Fiji Limited invites sealed tenders from reputable companies with the relevant experience, for the Fabrication and Supply of 132kV Monopole Tower Support Rings and Portable Step Assemblies.

This document specifies the requirements for the design, manufacture and supply of 132,000 Volts 132kV Monopole Tower Support Rings and Portable Step Assemblies for the 132kV Transmission network.

2 Scope

This specification defines the minimum technical requirements for the design, engineering, testing, fabrication, supply, and delivery of a portable step assembly system and removable support rings for twin-tail lanyard attachment. The system will be used by line workers to climb 132kV overhead line monopole steel structures safely.

2.1 Estimated quantities

The following table shows the Purchaser's total estimated requirement.

No	Item	Quantity
1	Support Rings	75
2	Portable Step Assemblies	24
3	8.8 grade M30 x 70mm bolt	24

3 Service Conditions

The Monopole Tower Support Rings and Portable Step Assemblies's shall be capable of satisfactory operation outdoors in a tropical environment, which has high solar radiation and varies from hot dry and dusty to hot and humid and subject to cyclonic wind. The following conditions apply:

1. Air Temperature

Extreme maximum 45 °C

Average maximum 35 °C

Average minimum 18 °C

Extreme minimum -5 °C

2. Relative Humidity

Maximum 93%

3. Solar Radiation

Maximum 1.1kW/m²

4. Wind Loading

Wind loading shall be assessed in accordance with AS 1170.2–2011, for Region C (Tropical Cyclone)

4 Manufacturer's Qualification/ Certification

4.1 Certification

Every bidder shall include the manufacturer's supply experience list, year of supply, type and quantity of supplied, and full name of user.

Manufacturer shall have sufficient supply and manufacturing experience with ISO certification of fabrication for at least ten (10) years. Certificates from customers with satisfactory usage shall be provided with the supply record.

5 Technical Requirements for the 132kV Monopole Tower Support Rings and Portable Step Assemblies Design and Material Requirements

5.1 Galvanising

All ferrous parts shall be hot dip galvanised as per AS/NZS 4680 and other standard listed.

5.2 Portable Step Assembly

- Step Capacity: Each portable step must safely support a minimum point load of 1.5 kN (150kg) acting vertically at the outermost edge to account for a fully equipped line worker.
- Deflection Limits: Under peak working load, elastic deflection must not exceed 2mm, with zero permanent residual deformation.
- Ergonomics: Step width must be at least 250mm with a clear standoff distance of 250mm from the monopole face.
- Slip Resistance: Steps must feature a deeply serrated, self-cleaning anti-slip surface to shed mud and grease.
- Attachment Mechanism: Steps must securely clamp or slot into pre-engineered monopole anchor points without slipping, twisting, or vibrating loose under dynamic foot movement.
- The portable step assembly shall have threaded whole towards the end of the assembly as one and the front of the whole should be plain.
- 8.8 graded M30 x 70mm bolt should also be supplied with the portable step assembly. Thread length of the bolt should be 35mm and grip length should be 35mm.

5.3 Support Rings (Anchorage Points)

- Load Rating: Individual single-point anchors must be manufactured to AS 5532 standards, providing a certified rating of 15 kN for single-person use or 21 kN for two-person use.
- Clearance: Rings must feature an internal diameter of at least 50mm to allow easy, single-handed hitching of large fall-arrest carabiners and scaffold hooks.

5.4 Materials, Fabrication & Corrosion Protection

To achieve the mandatory 20-year maintenance-free lifecycle, all structural and metallurgical components must comply with stringent anti-corrosion and welding baselines.

5.4.1 Metal Fabrication

Structural Steel: All structural steel components must be fabricated from high-strength structural grades matching or exceeding ASTM A36 or EN 10025 S355 Jr.

Welding Standards: All welding must be executed by certified structural welders in accordance with AWS D1.1 or ISO 9606-1. 100% visual inspection and a minimum of 10% Non-Destructive Testing (NDT) via Magnetic Particle Testing (MPI) are required on critical load-bearing joints.

5.4.2 Galvanizing & Protective Painting System (20-Year Lifecycle)

To prevent atmospheric rust and galvanic corrosion resulting from contact with the 132kV monopole structure, a duplex coating system must be applied:

Topcoat: Polyurethane Finish (UV Resistant, High-Vis)

Intermediate Coat: Epoxy Barrier (High-Build Protective)

Base Metal Protection: Hot-Dip Galvanizing (AS/NZS 4680)

Hot-Dip Galvanizing: All steel parts must be hot-dip galvanized after fabrication according to AS/NZS 4680, achieving a minimum local coating thickness of 85µm.

- Duplex Painting (C5 Environment Rated): Surface preparation must involve a light sweep blast followed by a C5-M high-durability marine-grade paint system conforming to ISO 12944-5:
 - Prime/Base: Galvanized layer substrate.
 - Intermediate Coat: High-build epoxy barrier coat ($\geq 100\mu\text{m}$ DFT).
 - Topcoat: Aliphatic polyurethane finish ($\geq 50\mu\text{m}$ DFT) in high-visibility safety yellow or international orange, featuring long-term UV stabilizers.

5.5 Mechanical Strength

Each individual Tower Support Rings and Portable Step Assemblies shall be capable for withstanding the rated mechanical terminal loads and electromagnetic forces, without effecting the operation and current carrying properties. The mechanical strength of the Tower Support Rings and Portable Step Assemblies shall be submitted with the bid.

5.6 Specifications and standards

The bidder shall provide an original copy of the specification sheet of the Monopole Tower Support Rings and Portable Step Assemblies and all attachments. The standards used for each aspect shall also be cited.

5.7 Marking and Identification

Each portable step and support ring must be permanently stamped, etched, or laser-engraved with:

- Manufacturer's name or logo
- Year of manufacture
- Maximum rated working load (21kN)
- Applicable standard compliance markings (e.g., CE, ANSI)
- Unique serial number for asset tracking and annual inspections

5.8 Quality Assurance (QA) Testing

The manufacturer must supply comprehensive testing documentation prior to shipment:

- Type Test Certificates: Documented destructive load testing demonstrating a 2x safety factor (3.0kN static step test without collapse).
- Mill Test Certificates: Material traceability certificates matching EN 10204 Type 3.1 for all steel batches used.
- Coating Thickness Log: Electronic dry film thickness (DFT) reports proving compliance with the minimum paint and zinc profiles.

6 Warranty

The supplier and/or manufacturer shall provide warranty of a minimum of 3 Years from the date Energy Fiji Limited receives the equipment.

On the contrary, if the bidder cannot warranty for 3 years then a preferred warranty period shall be given by the bidder

7 Drawings

The bidder shall outline dimension drawings for each component, general arrangement drawing showing component layout and a complete drawing of each Monopole Tower Support Rings and Portable Step Assemblies item with different drawings of variable components.

8 Quality and Environment Assurance

The quality assurance system of design, manufacture, and inspection shall conform to ISO 9001.

Quality assurance certificate according to ISO 9001 issued by an authorized inspection agency shall be submitted with the bid.

The environment management system of manufacture shall confirm to ISO 14001.

Environment assurance certificate according to ISO 14001 issued by an authorized inspection agency shall be submitted with the bid

Bids will not be considered if the manufacturer's experience or quality assurance system does not meet the above requirements.

9 Standards

Specification Domain	AS/NZS Standard	Title / Description of Compliance Requirement
System Integrity & Line Engineering	AS/NZS 7000	<i>Overhead line design - Detailed procedures</i> (Ensures the step assembly anchors integrate safely onto 132kV structures without compromising structural pole integrity).
Load Testing & Structural Design	AS 4100 / NZS 3404	<i>Steel structures</i> (Governs the calculations for point loading, bending moment stress, and maximum deflection limits under the mandatory load profile).

Support Rings / Anchors	AS 5532:2025	<i>Manufacturing requirements for single-point anchor devices used for harness-based work at height</i> (Mandates static and dynamic load testing for the hooks and support rings).
High-Strength Fasteners	AS/NZS 1252	<i>High-strength steel bolts with associated nuts and washers for structural engineering</i> (Applies if steps use structural clamping or bolted lock-pins).
Workshop Fabrication Quality	AS/NZS ISO 3834.2	<i>Quality requirements for fusion welding of metallic materials (Comprehensive)</i> (Ensures the fabrication facility runs an approved quality loop for critical life-safety hardware).
Welding Personnel & Procedures	AS/NZS 1554.1:2014	<i>Structural steel welding - Part 1: Welding of steel structures</i> (Mandates WPS, WPQR, and structural welder certifications required for the step and ring joints).
Non-Destructive Testing (NDT)	AS/NZS ISO 9712	<i>Non-destructive testing — Qualification and certification of NDT personnel</i> (Ensures technicians verifying the load welds with MPI or UT possess standard qualifications).
Base Metal Galvanizing	AS/NZS 4680:2025	<i>Hot dip galvanized coatings on fabricated iron and steel articles</i> (Mandates minimum average local zinc mass profile for long-term corrosion resistance).
Galvanized Fasteners	AS/NZS 1214	<i>Hot-dip galvanized coatings on threaded fasteners</i> (Ensures threads on mounting pins are protected against rust without cross-threading).
20-Year Duplex Coating System	AS/NZS 2312.2	<i>Guide to the protection of structural steel against atmospheric corrosion - Part 2: Hot dip galvanizing</i> (Provides engineering maps to confirm a 20-year lifespans in C5 environments).

10 Site Visit

Bidder to ensure a mandatory site visit is carried out on Wednesday 26/08/2026 at EFL's Koronubu Substation at 0900 hours.

11 Compliance

The Supplier shall state in writing that their offer complies with the relevant Standards and this specification. If the Supplier is offering equipment manufactured to an equivalent standard, full details of that standard must be given including a copy written in English.

12 Samples

12.1 Production Samples

Samples of items may be required during the tender assessment period. Samples would normally only be required from tenderers who have previously not supplied the items to the purchaser at no cost to the purchaser.

12.2 Sample Delivery

When samples are required, production samples shall be delivered freight free, suitably packaged and labelled including reference to the Contract Number.

The EFL may at its discretion either purchase the samples at the tendered price or return the samples to the respective tenderer after the contract has been awarded. Samples shall be supplied within 7 days of official request.

Section 3: Pricing Schedule

1 Incoterms

All pricing shall be done on Cost, Insurance and Freight (CIF) basis, delivered to Lautoka wharf, Fiji.

2 Currency

All pricing shall be in USD, AUD, NZD or FJD.

3 Taxation

The pricing shall be EXCLUSIVE of any type of taxation that needs to be paid in Fiji.

4 Pricing breakdown

The prices quoted will be fixed and NOT variable.

5 Validity

The pricing shall be valid for 90 days.

6 Price Breakdown

#	Monopole Tower Support Rings and Portable Step Assemblies	Quantity	Unit Price	Total Price
1	Support Rings	75		
2	Portable Step Assemblies	24		
3	8.8 grade M30 x 70mm bolt	24		
			Currency	
			Grand Total	

Section 4: Bid Documentation

The Bidder shall furnish, as part of the bid, documents establishing the Bidder's eligibility to bid and its qualifications to perform the contract if its bid is accepted.

The documentary evidence of the bidder's qualifications to perform the contract of its bid is accepted will establish to the purchaser's satisfaction.

- a) that the Bidder has the financial, technical, and production capability necessary to perform the contract ;
- b) That the Bidder meets the qualification criteria listed in Section 2.

1 Documents establishing equipment conformity to Bidding documents

The Bidder shall furnish as part of its bid, documents establishing conformity to the bidding documents of the Monopole Tower Support Rings and Portable Step Assemblies Item, which the Bidder proposes to supply under the contract.

The documentary evidence of conformity of the Monopole Tower Support Rings and Portable Step Assemblies to bidding documents may be in the form of literature, drawings, and data, and will consist of:

- a) A detailed description of the essential technical and performance characteristics of the Monopole Tower Support Rings and Portable Step Assemblies.
- b) The bidder should specifically mention about furnishing the test certificates and a specimen form of test certificate should be furnished along with the bid.
- c) A commentary on the purchaser's Technical specifications demonstrating substantial responsive-ness of the Monopole Tower Support Rings and Portable Step Assemblies and services to those specifications, or a statement of deviations and exceptions to the provisions of the technical specifications.

For purpose of the commentary to be furnished pursuant to above, the Bidder shall note that standards for workmanship, material, and equipment, as well as references to brand names or catalogue numbers designated by the Purchaser in its Technical Specifications, are intended to be descriptive only and not restrictive.

The Bidder may substitute alternative standards, brand names, and/or catalogue numbers in their bid, provided that it demonstrates to the Purchaser's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.

2 Tender Evaluation Criteria

The following shall be provided in the bid submission:

Criteria	Points	Requirement	Bidders Response
1. Manufactures name	10	Bidder to state	
2. Place of manufacture	10	Bidder to state	
3. Origin of materials used for manufacturing	10	Bidder to state	
4. Type test certificates provided and sample routine test reports; (Yes/No)	10	Bidder to state	
5. Mill Test Certificates	10	Bidder to state	
6. Item-by-item commentary on the purchaser's Technical specifications	10	Bidder to state	
7. Minimum Failing Load	10	Bidder to state	
8. Descriptive literature giving full technical details of item offered;	10	Bidder to state	
9. Outline dimension drawing for each component, general arrangement drawing showing component layout;	10	Bidder to state	
10. Detailed reference list of customers already using equipment offered during the last 5 years with particular emphasis on units of similar design and rating;	10	Bidder to state	
11. Details of manufacturer's quality assurance standards and programme and ISO 9000 series or equivalent national certification;	10	Bidder to state	
12. Supplier experience details	10	Bidder to state	
13. Deviations from this specification (if any).	10	Bidder to state	
14. Certificates of annual failure rate	10	Bidder to state	
15. Standards Compliance and Listing	10	Bidder to specify if their product are in compliance with all the compliance listed in Clause 9.	
16. Complying and Completed pricing schedule	10	Bidder to state	

3 Submission Requirements

All tenderers are required to complete and submit a copy of the submission requirements with their bid submissions.

Requirements	Response from Bidders
Completed technical details (Clause 5) (Yes/No)	
Validity of bid (90 days required) (Yes/No)	
Payment conditions.	
Delivery Term. (CIF preferred)	
Price review period after award of tender. (months)	
Bidders company profile outlining financial, technical and production capabilities.	
Detailed reference list of customers already using equipment offered during the last 5 years with particular emphasis on units of similar design and rating.	
Quality management system used in the production of Monopole Tower Support Rings and Portable Step Assemblies, attached certificate.	
Minimum warranty period from time of acceptance of Monopole Tower Support Rings and Portable Step Assemblies.	
Disposal method after service life.	
List of Type test certificates provided. (As per Clause 5.6)	

Name of Tenderer: _____

Signature of Tenderer: _____

Date: _____

TENDER CHECKLIST

The Bidders must ensure that the details and documentation mention below must be submitted as part of their tender Bid

Tender Number _____

Tender Name _____

1. Full Company / Business Name: _____

(Attach copy of Registration Certificate)

2. Director/Owner(s): _____

3. Postal Address: _____

4. Phone Contact: _____

5. Fax Number: _____

6. Email address: _____

7. Office Location: _____

8. TIN Number: _____

(Attach copy of the VAT/TIN Registration Certificate - Local Bidders Only (Mandatory)

9. FNPF Employer Registration Number: _____ **(For Local Bidders only) (Mandatory)**

10. **Provide a copy of Valid FNPF Compliance Certificate (Mandatory- Local Bidders only)**

11. **Provide a copy of Valid FRCS (Tax) Compliance Certificate (Mandatory Local Bidders only)**

12. **Provide a copy of Valid FNU Compliance Certificate (Mandatory Local Bidders only)**

13. Contact Person: _____

I declare that all the above information is correct.

Name: _____

Position: _____

Sign: _____

Date: _____

4 Tender Submission - Instruction to bidders

Bidders are requested to upload electronic copies via Tender Link by registering their interest at: <https://www.tenderlink.com/efl>

EFL will not accept any hard copy submission to be dropped in the tender box at EFL Head Office in Suva.

This tender closes at 4.00pm (1600hrs) on Wednesday 09th September, 2026.

For further information or clarification please contact our Supply Chain Office on phone **(+679) 3224360** or **(+679) 9992400** or email us on tenders@efl.com.fj

The bidders must ensure that their bid is inclusive of any other Taxes payable under Fiji Income Tax Act.

The lowest bid will not necessarily be accepted as the successful bid.

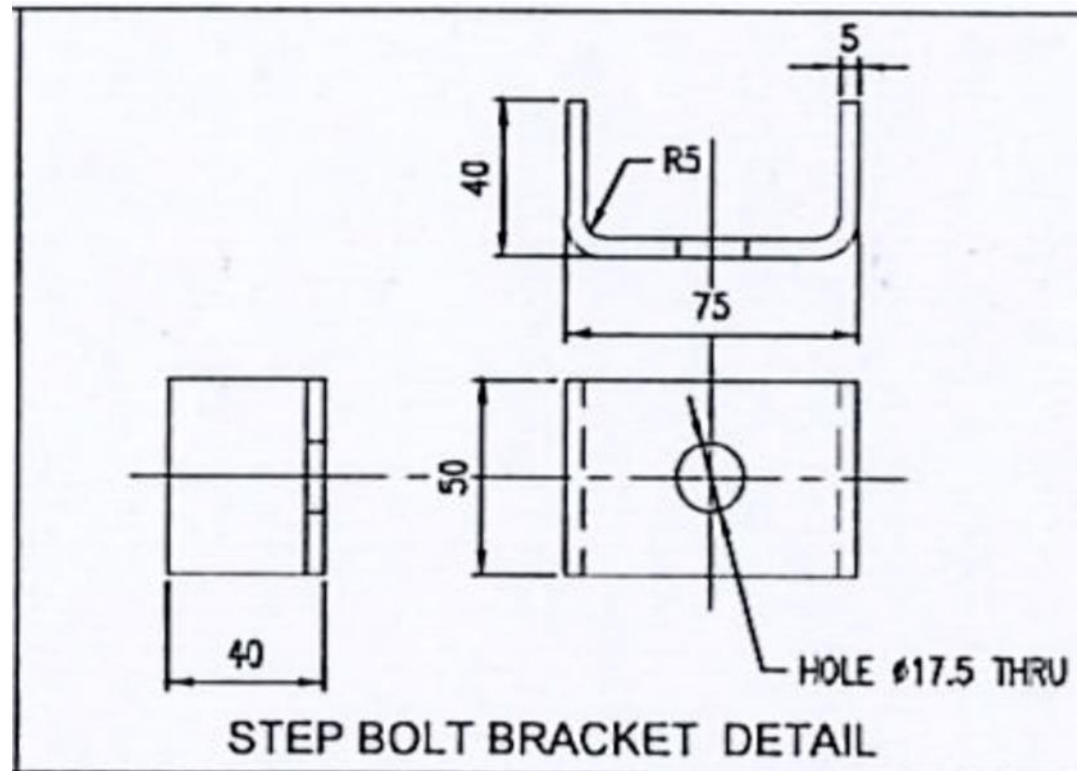
The Tender Bids particularly the “Price” must be typed and not hand written.

Any request for the extension of the closing date must be addressed to EFL in writing 1 week prior to the tender closing date.

Tender Submission via email or fax will not be accepted.

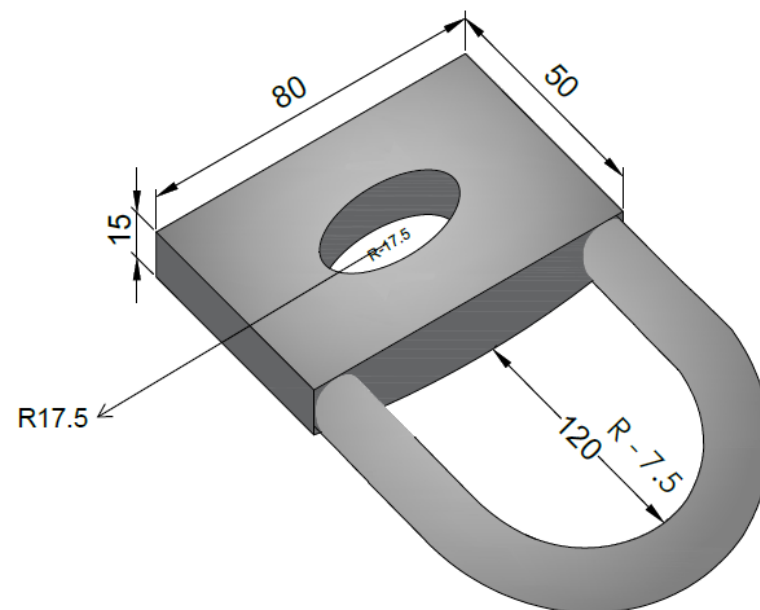
5 APPENDIX

1. Step Bolt Plate Sizes and Dimensions that is existing onto the 132kV Monopole Tower.



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NOTE: ALL MEASUREMENTS ARE IN MILLIMETERS.

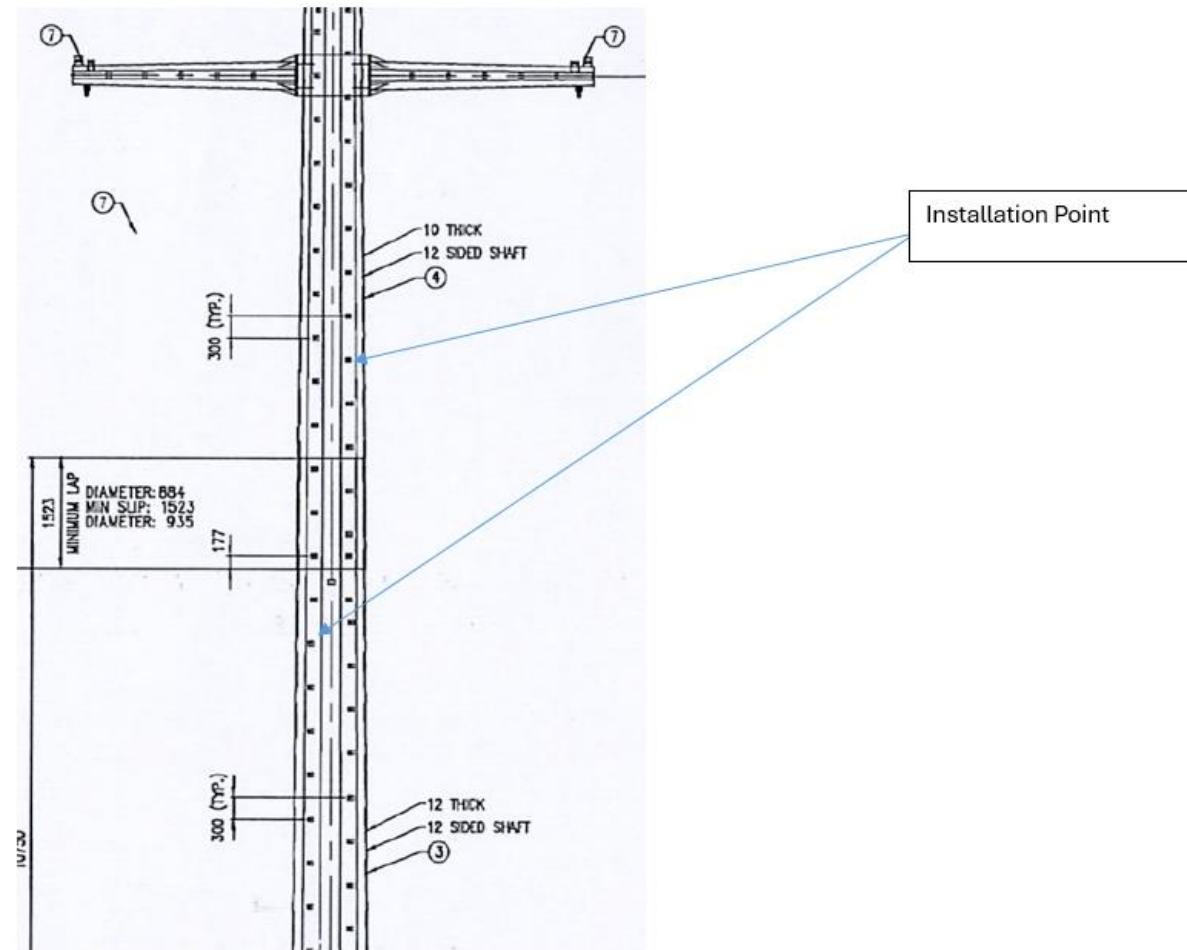


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								CHECKED		ANISHAL	18/8/26						
								GIS COORDINATOR		KELEVI.M	18/8/26	132kV MONOPOLE TOWER SUPPORT RINGS					
								for STANDARDS ENGINEER		ANISHAL	18/8/26						
	0	ORIGINAL ISSUE	18/8/26	AVI						MANAGER NETWORK DESIGN & PLANNING	M.ZAINAL	18/8/26	DRAWING NUMBER				
	No.	REVISION	DATE	BY	CHK	GIS	SE	HOD				A3	02	E39	001	0	
												SCALE NTS					

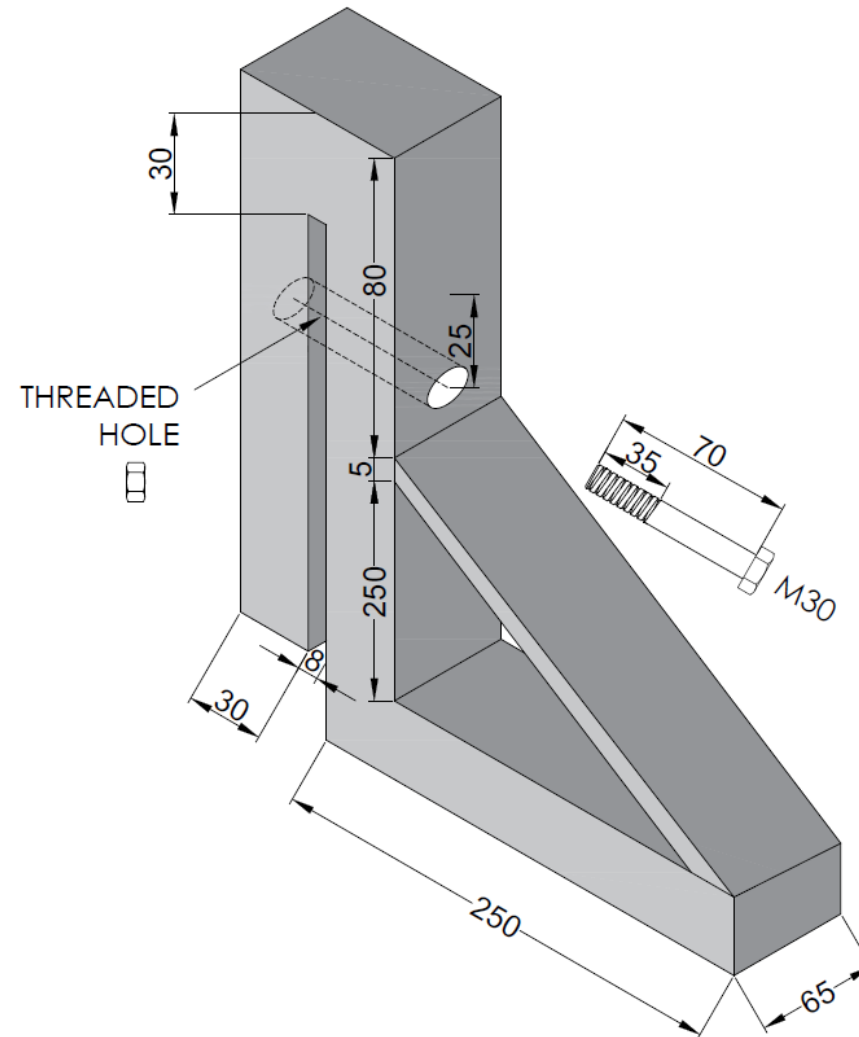


2. The above drawing shows the 132kV Monopole Tower Support ring that has to be fabricated. The drawing below shows the installation point onto the 132kV Monopole Tower.



A3	02	E39	002	0
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NOTE: ALL MEASUREMENTS ARE IN MILLIMETERS.



Note: ALL

										DRAWN	AVI	18/8/26	ENERGY FIJI LIMITED				
								CHECKED		ANISHAL	18/8/26						
								GIS COORDINATOR		KELEVI.M	18/8/26	132kV MONOPOLE TOWER PORTABLE STEP ASSEMBLY					
								for STANDARDS ENGINEER		ANISHAL	18/8/26						DRAWING NUMBER
	0	ORIGINAL ISSUE	18/8/26	AVI						MANAGER NETWORK DESIGN. & PLANNING	M.ZAINAL	18/8/26	A3	02	E39	002	0
	No.	REVISION	DATE	BY	CHK	GIS	SE	HOD					SCALE NTS				

3. The above drawing shows the 132kV Monopole Tower Portable Step Assembly that has to be fabricated. The drawing below shows the installation point onto the 132kV Monopole Tower Crossarm.

