



## **ENERGY FIJI LIMITED**

# **TECHNICAL SPECIFICATION FOR SUPPLY OF NON-TENSION BOLTED ALUMINUM CONNECTORS BY PREFERRED SUPPLIER**

**MR 388/2018**

## Revision History & Document Control

Rev no.	Notes	Prepared By	Reviewed By	Date of Issue
1	Prepared	M. Zainal		29/11/17
2	Reviewed		Rajiv Singh	25/10/18

## Next Scheduled Revision

Date of Next Revision	Notes	Revision By	Revision Approved By
September 2021			

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## 1.0 Introduction

Energy Fiji Limited [EFL] is responsible for generation, transmission and distribution of electricity in Viti Levu, Vanua Levu, Ovalau and Taveuni in Fiji. By the end of 2017, EFL had 182,439 customers. This includes residential, commercial and institutional customers.

EFL is requesting proposal for the Preferred Supplier to supply item listed below for EFL's consumption to carryout repair, Construction and maintenance of Power line Network in Fiji.

The preferred Supplier arrangement will be for a period of 3 (three) years from the date of signing of the contract. The award of this Tender may be split and awarded to more than one successful bidder.

This document outlines the technical requirements for non-tension bolted connectors for use in EFL's distribution network.

The connectors shall be used for no-load connectors of Aluminum, Copper and Galvanized Steel conductor combinations.

The items covered under this specification are tabulated below.

No.	Stock Code	Item Description	Run	Diameter	Tap	Diameter	Number of Bolt
1	I02578	Service Tap Aluminum (AC 58)	7/3.00 to 7/4.75	9mm to 14.3mm	7/1.75 to 7/3.75	5.25mm to 11.3mm	1
2	I02577	PG Aluminum Clamp (LT43-1)	7/1.35 to 7/3.75	4mm to 12mm	7/1.35 to 7/3.75	4mm to 12mm	1
3	I02579	PG Aluminum Clamp (LT75)	7/2.50 to 19/3.75	7mm to 19mm	7/2.50 to 19/3.75	7mm to 19mm	1
No.	Stock Code	Item Description	Run Conductor Range		Service Connector Range		
			Minimum	Maximum			
4	I02586	Service Tee Connector (STC2-1)	7/2.25 Ø 6.75mm	19/3.75 Ø 18.75mm	3 Conductors 7/1.70 each leg		

This Specification covers the general requirements of design, manufacture, testing, supply and delivery of non-tension bolted connectors for overhead distribution systems.

## 2.0 References

### 2.1 Applicable Standards

The item shall be designed, manufactured and tested in accordance with the latest edition of the Standards specified below and all amendments issued prior to the date of closing of tenders except where varied by this specification.

AS 1110	ISO metric precision hexagon bolts and screws
AS 1111	ISO metric commercial hexagon bolts and screws
AS 1154	Insulator and conductor fittings for overhead power lines
AS 1214	Hot-dip galvanized coatings on threaded fasteners
AS 1275	Metric screw threads for fasteners
AS 1444	Wrought alloy steels - Standard, hardenability (H) series and hardened and tempered to designated mechanical properties
AS 1531	Conductors - Bare overhead - Aluminum and aluminum alloy
AS 4680	Hot-dipped galvanized coatings on ferrous articles
AS 1789	Electroplated coatings - Zinc on iron or steel
AS 2837	Wrought alloy steels - Stainless steel bars and semi-finished products
AS 2848	Aluminum and aluminum alloys - Compositions and designations
AS 3607	Conductors - Bare overhead, aluminum and aluminum alloy - Steel reinforced
AS 4169	Electroplated coatings - Tin and tin alloys
AS/NZS 4325	Compression and mechanical connectors for power cables with copper or aluminum conductors
AS/NZS ISO 9001	Quality management systems -Requirements

Should inconsistencies be identified between standards and/or this specification, the tenderer shall immediately refer such inconsistencies to EFL for resolution.

## 3.0 System Conditions

### 3.1 Environmental Conditions

The Non-tension bolted connectors shall be suitable for installation outdoors and shall be designed to withstand the following service conditions.

Description		Conditions
Atmosphere Pollution Level	:	Very heavy (IEC 815), corrosive and dusty
Ambient Temperature	:	Peak: 40°C 24 Hour Average: 30°C Annual Average: 22°C Minimum: 10°C
Relative Humidity (Average)	:	85%
Rainfall	:	Annual Average: 2663mm
Isokeraunic (Thunder day) level	:	60 thunder days per year
Seismic	:	To a maximum of 7 on the open-ended Richter Scale

**Note:** Fiji is situated in a region where cyclones are experienced frequently. All plant and equipment shall be designed and constructed to withstand these extreme conditions.

### 3.2 Service Conditions

Nominal Voltage	240V/ 415V	11kV	33kV
System Highest Voltage	660V	12kV	36kV
System Frequency	50Hz	50Hz	50Hz
Number of Phases	1 or 3	3	3
System Earthing	Effectively Earthed	Effectively Earthed	Effectively Earthed
Impulse Withstand Voltage (peak)	-	95kV	200kV
Short Duration Power Frequency Withstand Voltage (rms)	15kV	28kV	70kV

## 4.0 Design and Construction

Equipment offered by the bidders will need to conform to this Specification.

### 4.1 Design

The connectors shall be of two part design and shall allow the attachment to the largest conductors without total removal of any component of the connector. Belleville washers shall be used to maintain the stability of contact pressure. Keeper bars or thrust plates are **NOT** acceptable.

The connector surfaces in contact with the conductors shall be grooved in a direction transverse to the conductor axis to penetrate the oxide layer on the surface of the conductor.

The connectors shall be supplied with either M8, M10 or M12 bolts with head dimensions in accordance with the relevant Australian Standards

Connectors of a single-bolt type shall be designed so as to prevent the clamp components from rotating out of alignment during installation (for example interlocking claws). The claws will also assist in holding the conductors captive within the clamp body during installation.

Connectors shall be suitable for installation and removal by live line techniques.

### 4.2 Connector Material

The connectors shall be made of materials which are resistant to corrosion and parts of the connector which are in direct contact with the conductor shall be of the same material in the form of an alloy or of a material which does not cause interface corrosion.

Parts of the connector which must exhibit elastic expansion and contraction to maintain design contact pressure, **MUST** be manufactured by the forging process. Cast or extruded parts are **NOT** acceptable.

The materials used for the construction of the connectors shall be in accordance with part 1 of AS 2848.

### 4.3 Screws, Nuts and Spring/ Belleville Washers

All nuts, screws and Belleville washers shall be non-corrosive, compatible with the body of the connector

Suitable materials for the screws, nuts and washers include galvanized steel in accordance with AS 1214, stainless steel in accordance with AS 2837. Hexagonal head screws shall be in accordance with AS 1110 and shall have uniform threads throughout, which are free running, and of commercial tolerance 8g in accordance with AS 1275. Hexagonal head nuts shall also have free running threads of tolerance 6H in accordance with AS 1275.

Stainless steel bolts and nuts if provided shall be suitably greased to prevent binding. The connector shall be designed so that the screw head does not bind on the surface of the connector during tightening.

The tenderer shall advise the minimum and maximum recommended tightening torques as well as the specified tightening technique/procedure.



## **4.4 Surface Finish and Corrosion Protection**

Connectors shall be designed, manufactured and finished so as to avoid sharp radii of curvature, ridges and other imperfections which may cause radio interference or harmful corona discharge or employee injury.

Connectors tendered with pre-applied grease and individually packaged shall use a greasing compound with a high stability, high viscosity, water repellent property and a minimum drop point temperature of 130°C. Further, the grease shall NOT contain any conducting material e.g. graphite.

The junction point of the aluminum to copper connectors is to be protected against corrosion by a permanent layer or covering of insulating material applied to the exposed bi-metal interface or by other methods which from tests indicate negligible susceptibility to corrosion. Any protective material must have a service life equivalent to that of other materials used in the connector.

## **5.0 Quality Assurance**

The manufacture shall submit evidence that the design and manufacture of Non-tension Bolted Connectors are in accordance with AS/NZS ISO 9001 and shall include the Capability Statement associated with the Quality System Certification.

## **6.0 Performance and Testing**

### **6.1 Type Tests**

The non-tension bolted connectors supplied shall be type tested in accordance with the following standards:

- a) The electrical type test shall be in accordance with AS 1154, part 1 for non-tension connectors.
- b) The mechanical type test shall be in accordance with AS 1154, part 1 for non-tension connectors.

The type test shall clearly indicate the name of the manufacturer and the technical parameters of the non-tension bolted connector set tested.

In addition, the Ageing/high current test shall be carried out in accordance with AS 4325.1.

The vendors shall supply duly certified copies of the routine test performed on the non-tension bolted connectors.

### **6.2 Batch and Routine Tests**

Routine test are intended to eliminate defective units and shall be carried out during the manufacture of connectors.

### **6.3 Witnessing of Tests**

The EFL reserves the right to witness all testing. The Supplier shall give FEA reasonable notice of when testing will be carried out and one (1) EFL engineers to be invited to witness the testing.

### **6.4 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.

## 7.0 Additional Requirements

### 7.1 Packaging and Marking

The supplied items shall be appropriate packaged to avoid damage during transportations and storage and fit for use. Pre-greased items shall be individually packed in sealed plastic bags. The vendor shall be responsible for nominating standard pack quantities and standard packs shall be clearly marked with the following:

1. Manufacturer's name
2. Purchase Order Number, Contract Number and EFL Stock Number
3. Compliance standards
4. Item description
5. Package weight

### 7.2 Storage

The equipment shall be capable of being stored without deterioration within the temperature range of 10°C to 40°C for no less than 24 months.

## 8.0 Technical Information to be supplied

The following information shall be supplied with the offer:

- a) List showing similar equipment supplied to or on order for other utilities for at least the past 3-5 years
- b) Completed schedule as provided in Appendix
- c) Catalogue describing the items and indicating the model number
- d) Constructional features and material used for components
- e) Electronic drawings of item to be supplied in AutoCAD format
- f) End of service life disposal method
- g) Origin of materials used in manufacture of connectors
- h) Quality assurance certificate as per clause 5.0
- i) Type and routine test certificates as per clauses 6.1 and 6.2

Offers of vendors who fail to furnish above particulars shall be rejected.

## 9.0 Stock Availability

The bidder is required to show the size of his/her stock holding and the ability to meet the required estimate quantity per annum. The movement of the non-tension bolted connectors will depend on EFL's project works and for operation and maintenance purposes. An estimate movement of the item are outlined in the table below but it will not be purchase as a lump sum quantity at once. Hence, the successful bidder will be required to carry a consignment / safety stock at times to meet EFL's demand within the three year contract period.

No.	Stock Code	Item Description	Approximate 3 Year Stock Movement
1	I02578	Service Tap Aluminum (AC 58)	16777
2	I02577	PG Aluminum Clamp (LT43-1)	2533
3	I02579	PG Aluminum Clamp (LT75)	29874
4	I02586	Service Tee Connector (STC2-1)	27774

## **10.0 Product Warranty Period**

The bidder is required to provide the warranty period as part of the proposal. A minimum warranty period of twenty-four (24) months from time of dispatch from factory shall be provided.

## **11.0 Environmental Considerations**

Suppliers are required to comment on the environmental soundness of the design and the materials used in the manufacture of the items tendered. In particular, comments should address such issues as recycling and disposal at the end of service life.

## **12.0 Reliability**

Suppliers are required to comment on the reliability of the equipment and the performance of the materials tendered for a service life of 35 years under the specified system and environmental conditions.

## **13.0 Samples**

### **13.1 Production Samples**

Samples of items may be required during the tender assessment period. Samples would normally be required from tenderers who have previously not supplied the items to EFL.

### **13.2 Sample Delivery**

When samples are required, production samples shall be delivered freight free (Delivery Duty Paid (DDP)), suitably packaged and labelled including reference to the Tender Number.

Samples shall be supplied within 7 days of official request.

## **14.0 Training**

Training material in the form of drawings, instructions and/or audio visuals shall be provided for the items accepted under the offer.

This material shall include but is not limited to the following topics:

- Handling
- Storage
- Application
- Installation
- Maintenance
- Environmental performance
- Electrical performance
- Mechanical performance
- Disposal

## 15.0 Appendix

### 15.1 Price Schedule

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

No.	Stock Code	Item Description	Price
1	I02578	Service Tap Aluminum (AC 58)	
2	I02577	PG Aluminum Clamp (LT43-1)	
3	I02579	PG Aluminum Clamp (LT75)	
4	I02586	Service Tee Connector (STC2-1)	

### 15.2 Technical Data - Non-tension Bolted Connectors

All tenderers are required to complete and submit a copy of this form with their bid submissions.

Particulars	Units	Bidders Response			
		AC58	LT43-1	LT75	STC2-1
1. Name of Manufacture					
2. Address of Manufacture					
3. Place/country of manufacture					
4. Origin of materials used for manufacturing					
5. Dimensions					
a. Body length	mm				
b. Body width	mm				
6. Body alloy type & applicable Aust/Int Standard					
7. Screw(s) alloy type & applicable Aust/Int Standard					
8. Nut(s) alloy type & applicable Aust/Int Standard					
9. Washer(s) alloy type & applicable Aust/Int Standard					
10. Screw thread type & tolerance					
11. Nut type & tolerance					
12. Across flat dimension of bolt head	mm				
13. Recommended installation screw torque	Nm				
14. Maximum installation torque	Nm				

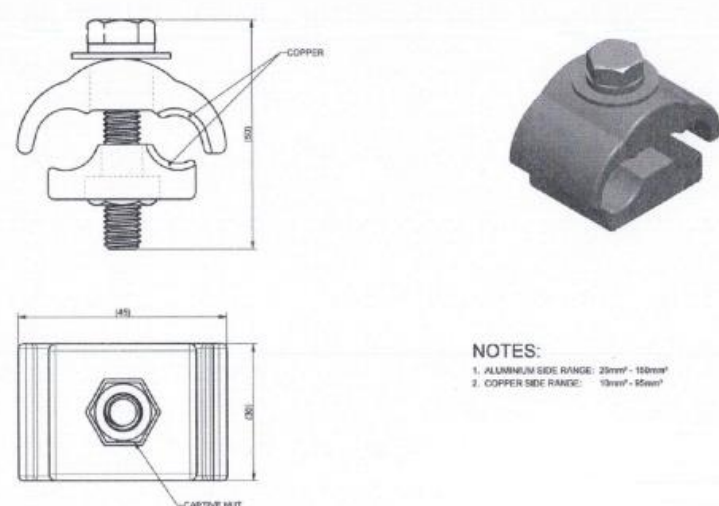

15. Galvanizing process & applicable Aust/Int Standard					
16. Type of grease used on threads					
17. Minimum thickness of galvanizing	μm				
18. Conductor Capacity (main)					
a. Minimum conductor OD	mm				
b. Minimum conductor sectional area	mm <sup>2</sup>				
c. Maximum conductor OD	mm				
d. Maximum conductor sectional area	mm <sup>2</sup>				
19. Conductor Capacity (run)					
a. Minimum conductor OD	mm				
b. Minimum conductor sectional area	mm <sup>2</sup>				
c. Maximum conductor OD	mm				
d. Maximum conductor sectional area	mm <sup>2</sup>				
20. Grease Type					
21. Grease minimum Drop point Temperature	°C				
22. Package size					
23. Package Weight	kg				

Name of Tenderer: \_\_\_\_\_

Signature of Tenderer: \_\_\_\_\_

Date: \_\_\_\_\_

### 15.3 Typical Drawing - Service Tap Aluminum (AC 58)

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 <p style="margin-top: 20px;">NOTES:  1. ALUMINIUM SIDE RANGE: 25mm<sup>2</sup> - 150mm<sup>2</sup>  2. COPPER SIDE RANGE: 10mm<sup>2</sup> - 15mm<sup>2</sup></p>																																																											
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PG ALUMINUM CLAMP		
ITEM No.	DESCRIPTION	QTY
1	TO 4 - 1/2 TOP	1
2	TO 4 - 1/2 BOTTOM	1
3	M10 x 55 1/4 IN. HEX SET SCREW - G30H	1
4	M10 IN. SPRING WASHER - G30H	1
5	M10 IN. NUT - G30H	1

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CHIEF		
DR. LIGHTMAN		
LEAD DESIGNER		
ENGINEER		
HEAD OF		
DEPARTMENT		

**ENERGY FIJI LIMITED**

PG ALUMINUM CLAMP (LT 75)

DRAWING NUMBER

A3 | 13 | E23 | 010

SCALE 1:2000

A3 13 E23 007

PG ALUMINUM CLAMPS		
ITEM No.	DESCRIPTION	QTY
1	TO 7 - 19 BOTTOM CASTING	1
2	TO 7 - 19 TOP CASTING	1
3	M12 x 65 SS Hx Hd SET SCREW - G304	1
4	M12 SS SPRING WASHER - G304	1
5	M12 SS Hx NUT - G316	1

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CHIEF		
TECHNICAL		
TEAM LEADER DESIGN & PLANNING		
ENGINEER		
HEAD OF DEPARTMENT		

**ENERGY FIJI LIMITED**

**PG ALUMINUM CLAMPS (LT 75)**

DRAWING NUMBER

A3 13 E23 007

SCALE 1:2000



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E23

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**ENERGY FIJI LIMITED**

**SERVICE TEE CONNECTOR (STC2-1)**

**DRAWING NUMBER**

A3   13   E23   008

**SCALE**   1:2000

Technical drawing of the Service Tee Connector (STC2-1) showing front, side, and detail views with dimensions.

PG ALL LAMPS		
ITEM No.	DESCRIPTION	QTY
1	CTC - 2 BODY	1
2	CTC - 2 TOP	1
3	M10 x 50 SS Hx Hd SET SCREW - G304	1
4	M10 SS SPRING WASHER - G304	1
5	M10 SS Hx NUT - G304	1
6	B22 EXTENDED SHANK TINNED SPLIT BOLT & NUT	2

No.	REVISION	DATE	BY	CHK	PSD	APP
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CHIEF		
DESIGNER		
TEAM LEADER		
ENGINEER		
HEAD OF DEPARTMENT		

## 15.7 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 15.1) (Yes/No)	
Witnessing included as part of bid. (Yes/No)	
Validity of bid (180 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 connectors, attached certificate.	
Health, Safety and Environmental plans.	
Minimum warranty period from time of acceptance of item.	
Typical installation manual for connectors.	
Disposal method after service life.	
Complete dimensional drawing.	
List of Type test certificates provided. (As per Clause 6.1)	
Sample routine test certificates.	

Name of Tenderer: \_\_\_\_\_

Signature of Tenderer: \_\_\_\_\_

Date: \_\_\_\_\_

## 15.8 Tender Submission - Instruction to Bidders

The Energy Fiji Limited (EFL) ("The Employer") is requesting proposal for the Preferred Supplier for Tender No. **MR388/2018** for EFL's consumption to carryout repair, maintenance and Construction of Power line Network in Fiji.

The bidder shall seal the original hard copy of the technical proposal, the original hard copy of the financial proposal and each copy of the technical proposal and each copy of the financial proposal in **separate envelopes** clearly marking each one as: "ORIGINAL ", "COPY NO. 1 "etc. as appropriate.

The bidder shall seal the original bids and each copy of the bids in an inner and an outer envelope, duly marking the envelopes as "ORIGINAL" and "COPY".

The inner and outer envelopes shall be addressed to the Employer at the following address:

Tuvitu Delairewa  
General Manager Corporate Services  
2 Marlow Street, Suva, FIJI.  
Phone: 679 3224 185  
Facsimile: 679 331 1882  
Email: [TDelairewa@efl.com.fj](mailto:TDelairewa@efl.com.fj)

The envelopes shall bear the following identification:

- Bid for: **MR388/2018: Preferred Supplier for Non-tension Bolted Aluminum Connectors**
- **DO NOT OPEN BEFORE 1600hrs 28<sup>th</sup> November 2018**
- Address and contract details of bidder on the reverse of the envelope

It is mandatory for Bidders to upload a copy of their bid in the TENDER LINK Electronic Tender Box no later than 4:00pm, on Wednesday **28th November, 2018**. The uploaded tender bids shall be in two (2) separate files clearly labelled as Technical Proposal and Financial Proposal respectively.

Bids shall remain valid for a period of **180 days** after the date of opening of technical and financial proposals.

To register your interest and tender a response, view 'Current Tenders' at: <https://www.tenderlink.com/efl>

For further information contact The Secretary Tender Committee, by e-mail [TDelairewa@efl.com.fj](mailto:TDelairewa@efl.com.fj)

**Hard copies of the Tender bid will also be accepted after the closing date and time provided a soft copy is uploaded in the e-Tender Box and hard copy is dispatched to courier before the closing date and time. Please note courier submission date should be forwarded to EFL with your bid.**

**Tenders received after 4:00pm on the closing date of Wednesday 28th November, 2018:**

- Will not be considered.
- Lowest bid will not necessarily be accepted as successful bid
- It is the responsibility of the bidder to pay courier chargers and all other cost associated with the delivery of the hard copy of the Tender submission including any Duties/Taxes. Hard copies of the Tender submission via Post Box will not be considered.