



MR 120/2015

**SUPPLY OF 2 X 2MVA 415V/11kV 3 PHASE
TRANSFORMERS**

TRANSFORMER DETAILS:

- 2 x 2MVA 3Phase 11-6.3kV/415V YNd11
- Transformer Voltage ratios: 11000-6.35/415volts
- Off circuit tapchanger, with tappings of -2.5% to +7.5% in 2.5%.
- Padlockable Tap-changer.
- Oil filled and hermetically sealed transformer tank with dry air for long life.
- HV Connections – 33kV DIN Bolted 630A Bushings*
- Stainless steel transformer rating plate.
- 25 NB Drain & Filler Valves
- Oil sight Glass with 15 degree C mark is an ETEL Standard item
- HV and LV Cableboxes welded to the tank, with aluminium gland plates
- Pressure Relief Device
- Oil Temperature Indicator
- Zinc Spray with Underseal Paint System

PERFORMANCE:

The transformers offered are to meet the guaranteed (where applicable) performance values in accordance with the latest edition of AS2374. All transformers are to be fully routine tested in accordance with the latest edition of AS2374 and each unit is supplied with a test certificate.

Type tests results are to be submitted in the Tender Bids.

OIL TYPE:

All Transformers are filled with Standard Mineral oil to BS148 (1998) or AS1767.

INTERLAYER INSULATION:

Diamond dotted epoxy coated calendered presspaper to Grade 3.

INTERWINDING INSULATION:

Calendered transformer pressboard to Grade 3.

CONDUCTORS HV AND LV:

6.6kV, 11kV, 22kV, winding: Polyesterimide Grade 2 enamel covered winding wire.

240V, 250V, 415V, 433V, 690V winding: Sheet aluminium, Electrical grade 1350 or better.

TEMPERATURE RISES:

Maximum average winding temperature rise:	65°C
Maximum top oil temperature rise:	60°C
Maximum Ambient Temperature:	40°C

CONSTRUCTION METHOD:

Coils are to be manufactured with layer windings with diamond dotted thermosetting resin coated presspaper interlayer insulation and pressboard interwinding insulation. The coils are to be rectangular in cross-section to match the core shape and are sized and cured to make a solid homogeneous finished coil. Both the HV and LV windings on most transformers (100kVA and above use sheet Aluminium) are wound with PEI Grade 2 enamel covered Aluminium winding wire.

All cores are to be distributed gap wound type cores, with a rectangular shaped cross-section enabling a single slit width of raw material. The core raw material is Grain Oriented Silicon Electrical steel, chosen for Low Loss qualities and high Quality.

SURFACE TREATMENT SYSTEM:

Mild Steel are to be used for the construction material of these transformer tanks. To further enhance the surface protection system a 100% hot zinc spray primer will be used, along with the following Anti-Graffiti system to AS/NZS 2312:2002.

Primer Zinc Coating	: Hot Zinc Spray - 75 microns
Primer	: High Build Epoxy - 200 microns
Finish Coating	: Polyurethane Gloss - 50 microns
Finish Colour	: G15 Rain Forest Green

Tender Submission - Instruction to bidders

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 22nd July, 2015.**

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

For further information contact The Secretary Tender Committee, by e-mail TDelairewa@fea.com.fj

In addition, hard copies of the tender, one original and one copy must be deposited in the tender box located at the FEA Head Office, 2 Marlow Street, Suva, Fiji no later than **4:00pm, on Wednesday 22nd July, 2015**- Addressed as

Tender – MR 120/2015 – Tender Name – Supply of 2 x 2MVA 415V/11kV 3 Phase Transformers

**The Secretary Tender Committee
Fiji Electricity Authority
Head Office
Suva
Fiji**

- **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 it is dispatched before the closing date and time.**
- Tenders received after **4:00pm** on the closing date of **Wednesday 22nd July, 2015** 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.**

TENDER SUBMISSION CHECK LIST

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

Tender Number _____

Tender Name _____

1. Full Company 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 Registration Certificate – Local Bidders Only)
9. Company Registration Number: _____
(Attach copy of the Business License)
10. FNPF Employer Registration Number: _____
(For Local Bidders only)
11. Contact Person: _____

I declare that all the above information is correct.

Name: _____ Position: _____ Sign: _____

Date: _____