

FIJI ELECTRICITY AUTHORITY

BIDDING DOCUMENT

MR 174/2017

SUPPLY OF 33kV AIR BREAK SWITCHES (ABS)

Section 1: Instructions to Bidders

1. Scope of Bid The Fiji Electricity Authority (hereinafter referred to as "the purchaser"),

wishes to receive bids for supply of Air Break Switch as specified in these

bidding documents (hereinafter referred to as "ABS").

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 ABS to be supplied under the Contract shall have their origin from reputable companies from various countries. At the Purchaser's request, bidders may be required to provide evidence of the origin of various parts of

the ABS.

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. Sealing and Marking of Bids

Bidders are required to submit only Electronic copies of the Bid in

the electronic tender box.

<u>Tender Submission - Instruction to bidders: Electronic</u> Submission of Bids

It is mandatory for Bidders to upload an electronic submission their bid in the **TENDER LINK** Electronic Tender Box no later than the Deadline for the Submission of Bids

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

Tenders received after the closing date shall not be considered.

Lowest bid will not necessarily be accepted as successful bid.

7. Deadline for Submission of Bids

Bids must be received by the Employer before 4:00pm Fiji Time (UTC +12), on Wednesday, 2nd of August, 2017

The purchaser may, at its discretion, extend the deadline for submission of bids by issuing an addendum, in which case all rights and obligations of the

purchaser 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 Employer prior to the deadline for submission of bids. A withdrawal notice may also be sent by fax but must be followed by a signed confirmation copy. No bid may be modified by the bidder after the deadline for submission of bids.

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

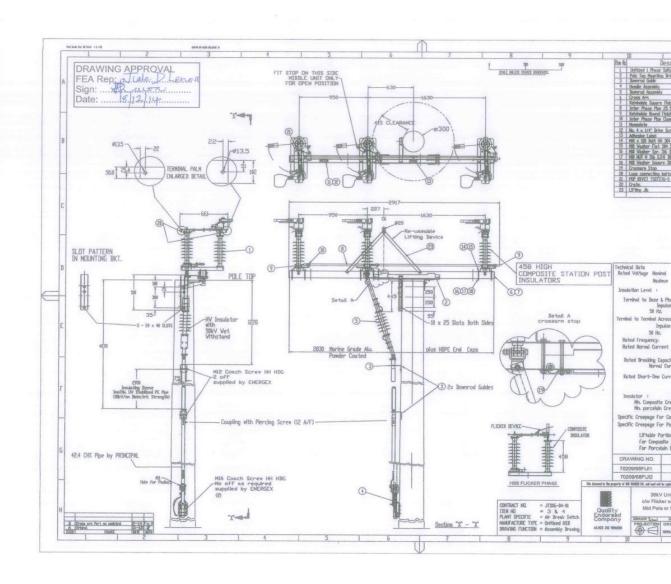
The Purchaser requires that the Contractor observe the highest standard of ethics during the procurement and execution of such contracts. In Pursuance of this policy, the Purchaser:

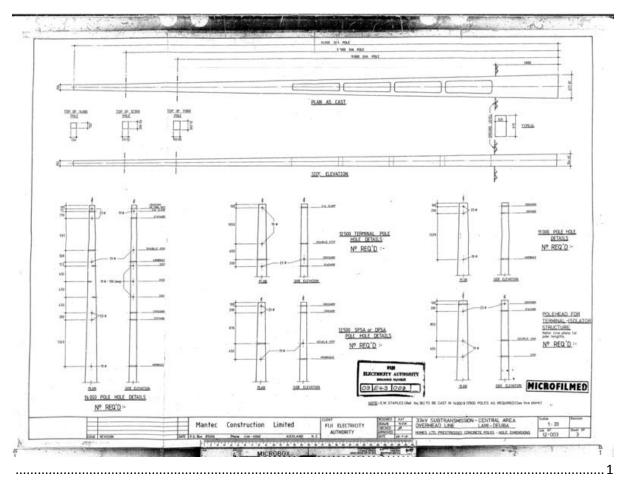
- (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) "corrupt practice" means behavior on the part of officials in the public or private sectors by which they improperly and unlawfully enrich themselves and/or those close to them, or induce others to do so, 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 noncompetitive 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.

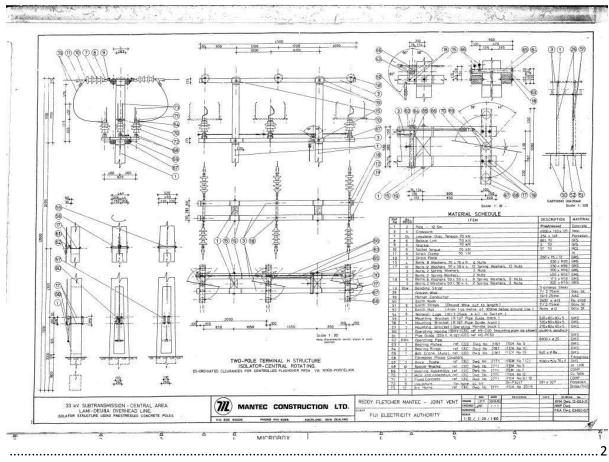
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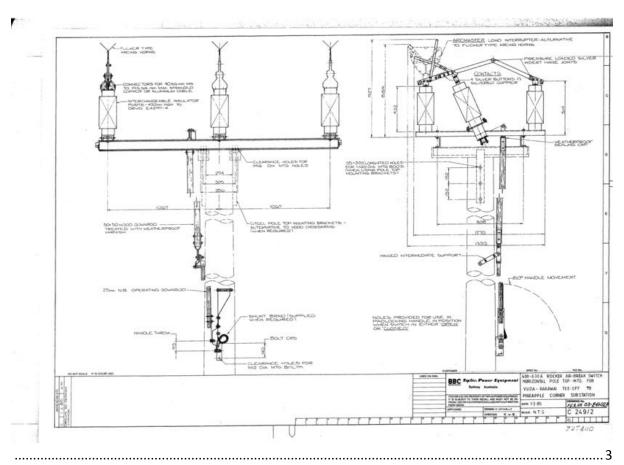
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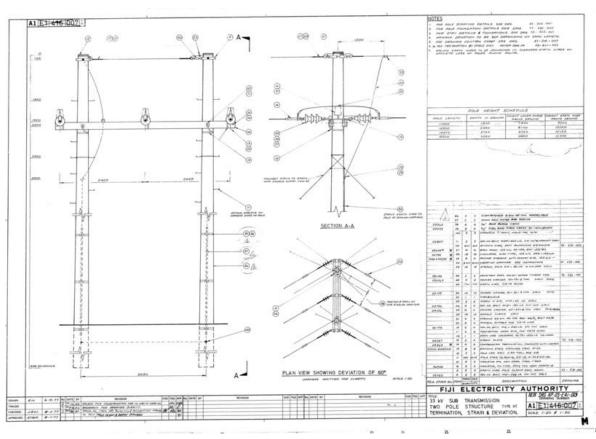
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Section 2: Technical Specification for Air Break Switches (ABS)

1 General Description

This document specifies the requirements for the design, manufacture, testing and supply of Ten (10) 33,000 Volts – Rated Air Break Switch (ABS) for the installation in the Authority's 33kV subtransmission network.

The supplier shall provide options to retrofit possible high current (arcing horn, expulsion tube, vacuum, etc.) load breaking attachments with this bid.

2 Application

The Air break Switch (ABS) shall be installed on the 33,000 Volts sub-transmission network, with the load breaking and load closing duty for normal or emergency switching purposes.

3 Service Conditions

The equipment 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 100%

3. Solar Radiation

Maximum 1.2kW/m2

4. Wind Loading

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

4 Operational Parameters

PARAMETERS	SPECIFIED VALUE FOR HIGH VOLTAGE SYSTEM
Rated Voltage (kV rms)	33
Highest System Voltage (kV rms)	36
Rated Frequency (Hz)	50

5 Technical Requirements

The offer shall include various model options (based on the range of high current interrupting capability @ 33kV) of air-breaking switch attachments for high current load breaking which shall be fixed at the top-most section of the main contact to control the electrical arc during load breaking switching activity.

#	Details	Requirement	Details to be furnished by bidder
1.	No. of poles	Three	
2.	Rated Frequency	50 Hz	
3.	Nominal Voltage rating	33kV	
4.	Maximum Voltage rating	36 KV	
Insul	ation Level		
5.	Terminal to phase and phase to phase:		
	Impulse withstand	200kV	
	50Hz withstand	70kV	
6.	Terminal to Terminal across isolating Distance		
	Impulse withstand	230kV	
	50Hz withstand	80kV	
7.	Rated Normal Current In =	630A @ 39°	
	In =	800A @ 59°	
8.	Rated Short Time Current		
	1s	20kA	
	Peak	50kA	
9.	Insulator		
	Min Composite Creepage Ls =	1030mm	
	Min Porcelain Creepage Ls =	950mm	
10.			
	Specific creepage for composite Ls/U =	28.6mm/kV	
	Specific creepage for porcelain Ls/U =	26.4/kV	
11.	Liftable portion weight – Composite	68kg	
12.	Liftable portion weight – Composite Liftable portion weight – Porcelain	124kg	
13.	Galvanised earth Mat	1500mm x 1000mm	

6 ABS Characteristics

The bidders proposal shall address all functional and performance requirements within the specification and shall include sufficient information and supporting documentation in order to determine compliance with this specification without further necessary inquiries.

The characteristics of ABS are to be provided under this specification as follows:

6.1 Operating Mechanism

The operating mechanism shall be suitable for manual operation from ground level by one person with ease and shall be designed that all the three phases open or close simultaneously. The switches shall be robust in construction and shall be protected against over travel or straining that may adversely affect any of its parts. The load break switch shall be fitted with self-contained arc extinguishing devices example, interrupter heads with independent manual operation.

The operating rod shall be 1 $\frac{1}{2}$ " galvanised pipe which shall be of correct length to be installed on power poles ranging from 15 meters – 17 meters. The switch shall be operated with a torsional operating handle, which opens the switch when rotated counter clockwise and the handle shall be installed as the standard practice from man hip-height level at ground.

- The switch blades shall be assembled that all three phases operate in synchronism. Fixed guides shall be provided for proper seating of the contacts even when a blade is out of alignment to a minor extent
- A suitable arrangement for accelerating the opening of contacts shall be provided to avoid excessive sparking
- There should not be any play or backlash to produce non-uniform travel of the blades of the three phases and all the three phases shall make simultaneous closing with closed electrical conductivity
- Live parts shall be designed to avoid sharp point edges and other corona producing surfaces as far as possible
- The ABS switches shall be capable of withstanding in their closed position the dynamic and thermal effects of the short circuit current specified in the section on technical requirements. The switches shall be constructed that the blades do not open or close under the influence of a short circuit, gravity, wind pressure, vibration, shocks or accidental breaking of the operating shaft.

6.2 Insulators

High strength polymer insulators shall be used for supporting and insulating the fixed contacts and the moving blades.

The fiberglass core of the polymer insulators shall be protected with a rubber housing which shall be made of a silicone elastomeric compound having a minimum 30% silicon (or having a Si-O chemical backbone with fumed silica and tracking control filler, ATH). The housing shall be directly moulded on the core through high temperature vulcanization (HTV) process and shall be seamless, smooth and free of imperfections. Moulding in multiple steps may cause flaws and residual stress in the joining seams and, therefore, shall not be applied. The weather sheds shall provide an open aerodynamic profile without any under ribs.

The housing shall be manufactured of 100 percent silicone rubber before fillers are added. The housing shall be in one-piece without any rubber-to-rubber joint in any part of the housing. The end fittings (electrodes) shall not be covered with the housing to prevent electrical puncture through the housing.

The housing shall be directly bonded to the FRP core. The interface between the housing and FRP rod shall be chemically bonded to prevent contaminants and moisture ingress. The strength of core-to-housing interface shall be greater than the tearing strength of the housing material itself. The thickness of the housing shall be no less than 3.0 mm.

The colour of the housing material shall be grey, and uniform and consistent.

Polymer insulators shall be designed to withstand high-pressure water washing of 3800kPa (570 psi), with a nozzle diameter of 6mm (1/4 inch) at a distance of 3 meters (10 feet) from the nozzle to the polymer insulator.

The core shall be a high quality fibre reinforced plastic (FRP) rod. To reduce the risk of brittle fracture, the insulator FRP core shall be made of corrosion-resistant ECR glass.

The insulator core shall be mechanically and electrically sound, free of visible voids, foreign substances, and other manufacturing flaws.

6.3 Contacts

All the current carrying parts shall be made of tin plated electrolytic copper of 99.98% purity. The contacts shall be silver plated to thickness of not less than 30 microns. However, the fixed or female contacts for the spring loaded pressure type shall be a firm contact with proper alignment. The springs shall not carry any current.

The fixed contact element shall be made of rolled extruded electrolytic grade copper flat and with flexible ends, where required shall be made from soft electrolytic grade copper sheet. The contacts assembly shall be so designed that while carrying the rated continuous current. The contact shall be self-release jaw-type and suitable stainless steel springs of sufficient pressure, shall be provided to ensure proper contact in the closing position.

6.4 Base, Mounting and Installation

The ABS shall be designed to be mounted on Pole top with phase centres to meet system and clearance requirements. Pole brackets shall be available with fixing at the side of the pole suitable for:

- 1. Type 1: 15 meter or 17 meter wooden H-Pole Structures (Vuda Rarawai Line)
- 2. Type 2: 15 Meter Concrete H-Pole Structures (Wailekutu Deuba Line)

The bidders shall design and submit a complete installation package of the Air Breaker Switch on the attached sub-transmission pole designs.

6.5 Padlocking

Suitable padlocking arrangement shall be provided for locking the operating handle both in the ON and in the OFF position.

6.6 Earthing Terminal

Two earthing terminals having clamping bolts with minimum diameter of 12mm, with nuts, washers and spring washers shall be provided on the frame. The earthing terminals shall be of electroplated brass and of adequate size to carry full short circuit current.

6.7 Load Breaking

Load breaking shall be self-resetting; where the tripping speed on the load break shall be independent of the switch operating speed. No component shall make contact with the closing switch blade prior to main switch contact engagement.

Alternatively, fabricated mechanically spring loaded arc rods, installed across the main contact, to control the electric arc during the load breaking switching may be offered with details on the load breaking capability.

Bids on the offers shall be considered and technically and economically evaluated for a decision to award to the best offer.

6.8 Galvanising

All ferrous parts except springs shall be hot dip galvanised as per the standard listed.

6.9 Terminal Connectors

The terminal pad shall be made of rolled/extruded electrolytic grade copper flat having a cross sectional area equal to that of the blade. It shall be so constructed that an intimate contact with the contact element is ensured. That connector shall be suitable for ACSR conductor. The aluminium connectors of appropriate size shall be supplied for each and for each phase of the switch.

6.10 Bearing

The rotating stack shall be supported with ball bearings/ bearing to ensure smooth operation.

Each rotating insulator stack shall have thrust roller bearings and shall rotate into gun metal bush bearings contained in a suitable weather proof housing. The housing shall be fitted with the greasing nipple.

6.11 Mechanical Strength

The isolating switches shall be capable for withstanding the rated mechanical terminal loads and electromagnetic forces, without effecting the operation and current carrying properties. The switches, complete with the operating mechanism should not come out of their own in closed position due to the effect of gravity, wind pressure, vibrations and reasonable shocks. Their construction should be such that they do not under any influence of short circuit currents.

6.12 Bolts & Nuts

The required bolts, nuts, washers etc., for assembling the complete air-break switch for fixing the insulators to the metallic parts of AB switch at both top and bottom and for fixing the AB switch to the structures shall be supplied with the equipment at no extra cost. Bolts and nuts shall be provided with lock-washers and lock nuts wherever required.

6.13 Specifications and standards

The bidder shall provide an original copy of the specification sheet of the Air Break Switch, insulators and all attachments. The standards used for each aspect shall also be cited.

7 Testing

7.1 Sample Test Reports

A sample record of all factory acceptance tests results shall be submitted with the bid documents. The test reports shall be signed by the testing engineer and the engineer witnessing the tests.

The following tests shall be carried out and results given along with certification as appropriate in the Technical Data Schedule and Test Certificates Schedules of this specifications:

- 1. Type testing
- 2. Routine testing

7.2 Type Tests

The following type tests are required:

- Visual examination
- Verification of dimensions
- Visible discharge tests
- Dielectric test (impulse and one minute power frequency withstand test, dry and wet)
- Temperature cycle test
- Short time current and peak current withstand test
- Mainly active load breaking capacity test
- Line charging current breaking capacity test
- Cable charging current breaking capacity test
- Short circuit making capacity test
- Mechanical strength tests for insulator
- Operational and mechanical endurance test
- Tests for galvanisation of ferrous parts
- Porosity test on insulators
- Impulse withstand voltage test
- Power frequency-voltage dry test on main circuits.
- Power frequency-voltage wet test on main circuits.
- Temperature rise test of the main circuits.
- Measurement of the resistance of the main circuits.
- Test to prove capability of carrying the rated peak short circuit current and the rated short time current.
- Operation test
- Mechanical endurance test

Note: All the above tests shall be conducted as per the relevant IEEE, IEC, ANSI or AS/NZS specification and a copy of the test report shall be furnished along with the tender.

7.3 Factory Acceptance Tests

The bidder shall include in the costing the Factory Acceptance Testing whereby two Fiji Electricity Authority engineers shall witness the testing being done on the Air Breaking Switches. The cost shall be all inclusive of transportation (Air and road), accommodation and meals, visa, etc. A plan for the factory acceptance test shall be submitted with the bid.

8 Standards

The ABS shall be designed and manufactured in accordance to IEC 62271-102, IEC 60694 and the requirements in this specification. The medium through which the ABS should break is air. The following table highlights the expected standards.

Standard	Description	
IEEE/ ANSI 37.32 - 1996	High voltage switches, bus supports and accessories	
IEEE/ ANSI 37.71 – 1984	Three-Phase, Manually Operated Subsurface Load Interrupting	
	Switches for Alternating-Current Systems	
IEC 265-1 1983	High Voltage Switches for rated voltages above 1kV and less	
	than or equal to 52kV	
IEC 273	Post Insulators for systems with nominal voltage above 1,000V	
IEC 61109:	Composite insulators for A.C. overhead lines with a nominal	
	voltage greater than 1000V - Definitions, test method and	
	acceptance criteria.	
IEC 60120:	Dimensions of Ball & Socket Couplings in String Insulators	
IEC 62217:	Polymeric insulators for indoor and outdoor use with a nominal	
	voltage > 1 000 V - General definitions, test methods and acceptance criteria	
AS/NZS 4680—2006	Hot-dip Galvanized (zinc) Coatings on Fabricated Ferrous	
•	Articles	
AS 1154.1- 2009	Insulator and Conductor Fittings for Overhead Power Lines –	
	Performance, material, general requirements and dimensions	
IEC 168	Test on indoor and outdoor post insulators	
ISO 1460	Hot Dip Galvanizing	
The bidder shall cite other IEEE, ANSI, AS/NZS standards us		

9 Warranty

The supplier and/or manufacturer shall provide warranty of a minimum of 3 years from the date Fiji Electricity authority receives the equipment.

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

10 Drawings

The bidder shall outline dimension drawings for each component, general arrangement drawing showing component layout and a complete drawing of the ABS assembly with different drawings of variable components.

The appendices gives a sample drawing of the ABS already installed in the 33kV sub-transmission network, thus, the bidders shall submit their bids for the products similar to this product.

11 Interchangeability

All similar materials and removable parts of similar equipment shall be interchangeable with each other. A specific confirmation of this should be furnished in the bid.

12 Quality Assurance

All the components used in the Air Break Switch as well as the assembly and construction of the switch shall comply with the ISO 9001 Quality Standard.

Section 3: Pricing Schedule

1 Incoterms

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

2 Currency

All pricing shall be in FJD / USD / AUD / NZD /GBP/ EUR currency.

3 Taxation

The pricing shall be EXCLUSIVE of any type of customs charges, duty, or taxes that needs to be paid in Fiji.

4 Pricing breakdown

The prices quoted shall be fixed and NOT variable.

5 Validity

The pricing shall be valid for 90 days.

6 Price Breakdown

Price US\$ (CIF)

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 all materials/equipment and services, which the Bidder proposes to supply under the contract.

The documentary evidence of conformity of the materials/equipment and the services 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 materials/equipment.
- 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 list giving full particulars, including available sources and current prices of spare parts, special tools etc., necessary for the proper and continuing functioning of the materials/equipment following commencement of the use of the materials/ equipment by the purchaser; and
- d) An item-by-item commentary on the purchaser's Technical specifications demonstrating substantial responsive-ness of the materials/equipment 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.

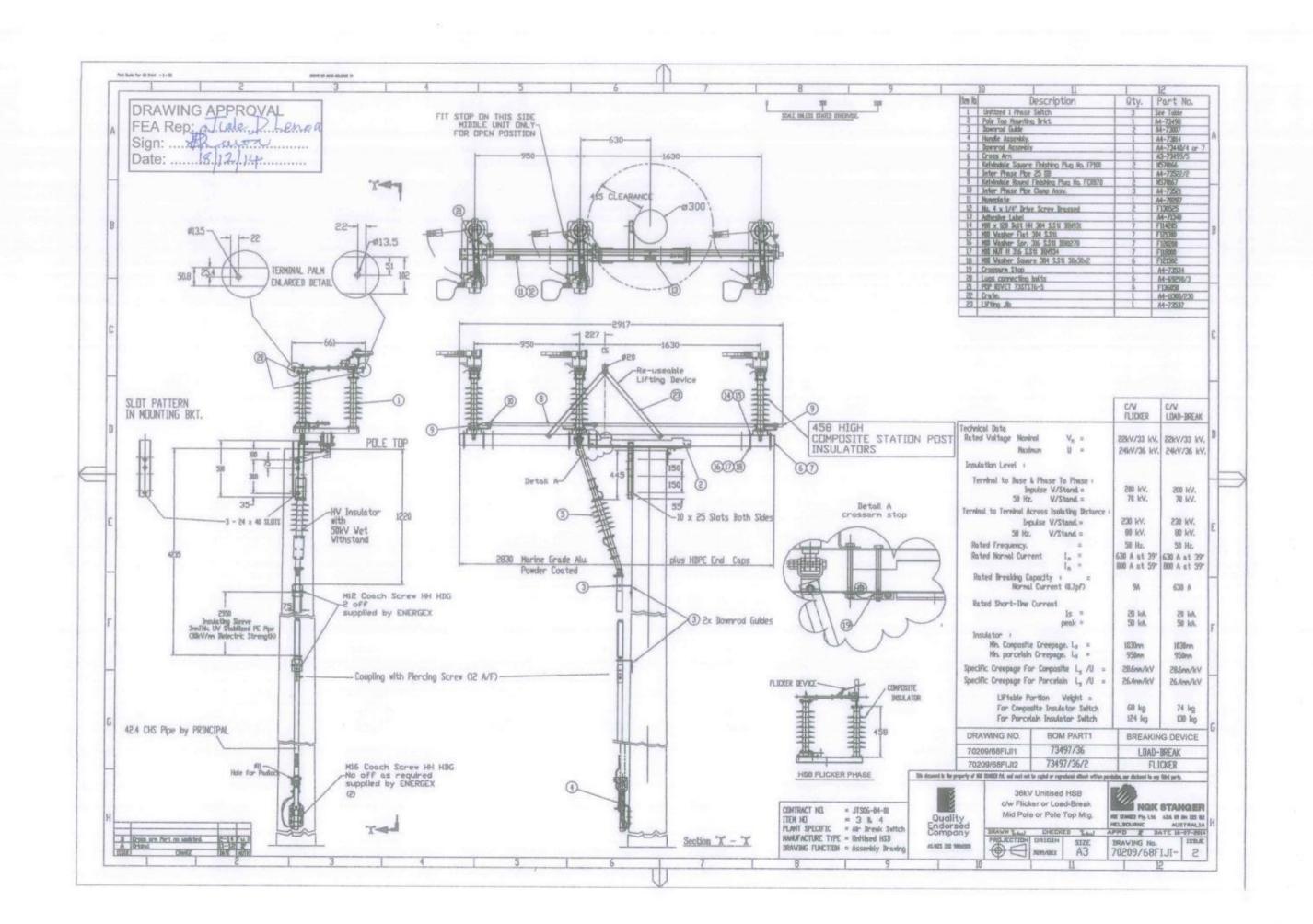
2 Submission Checklist

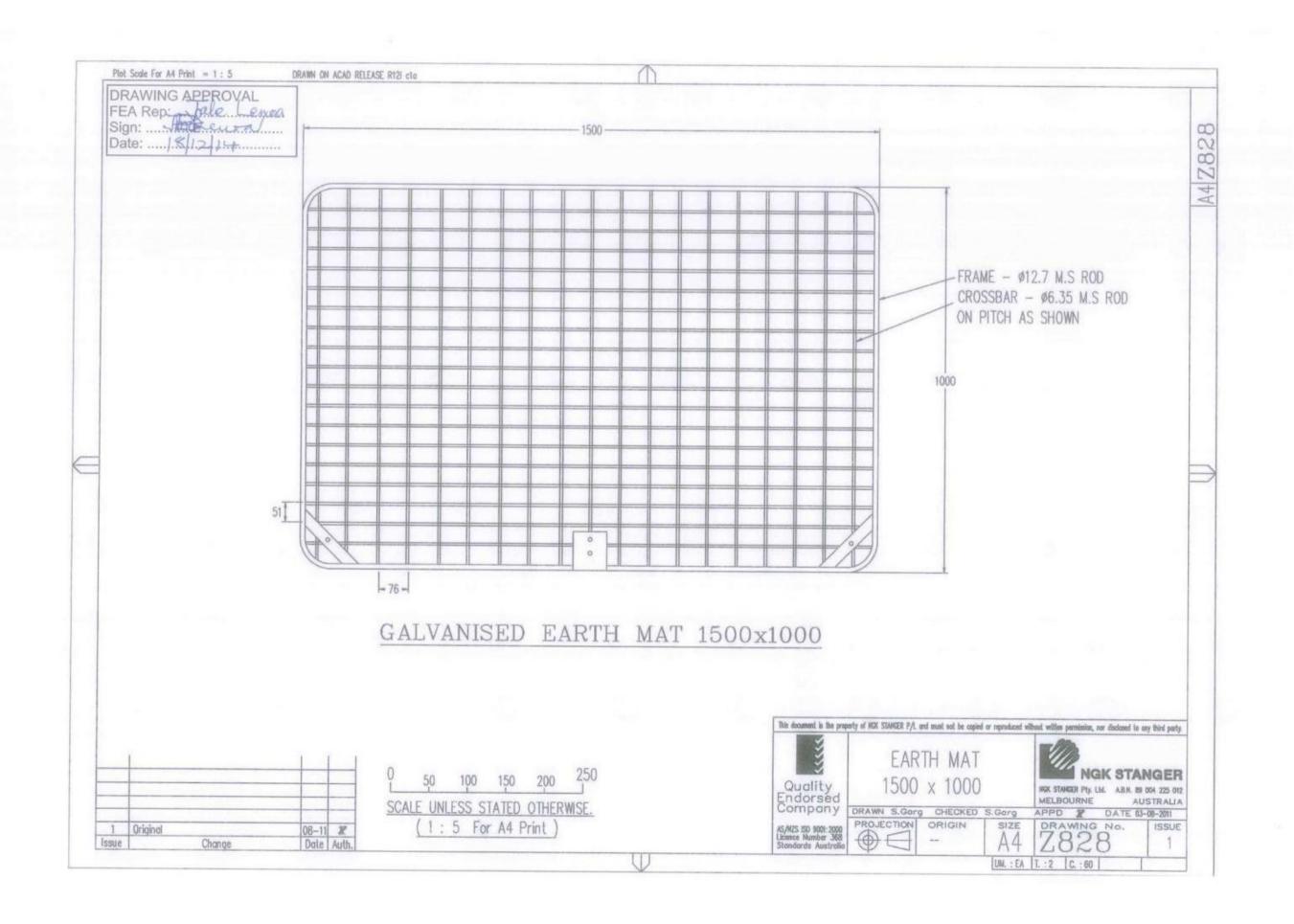
The following shall be provided in the bid submission:

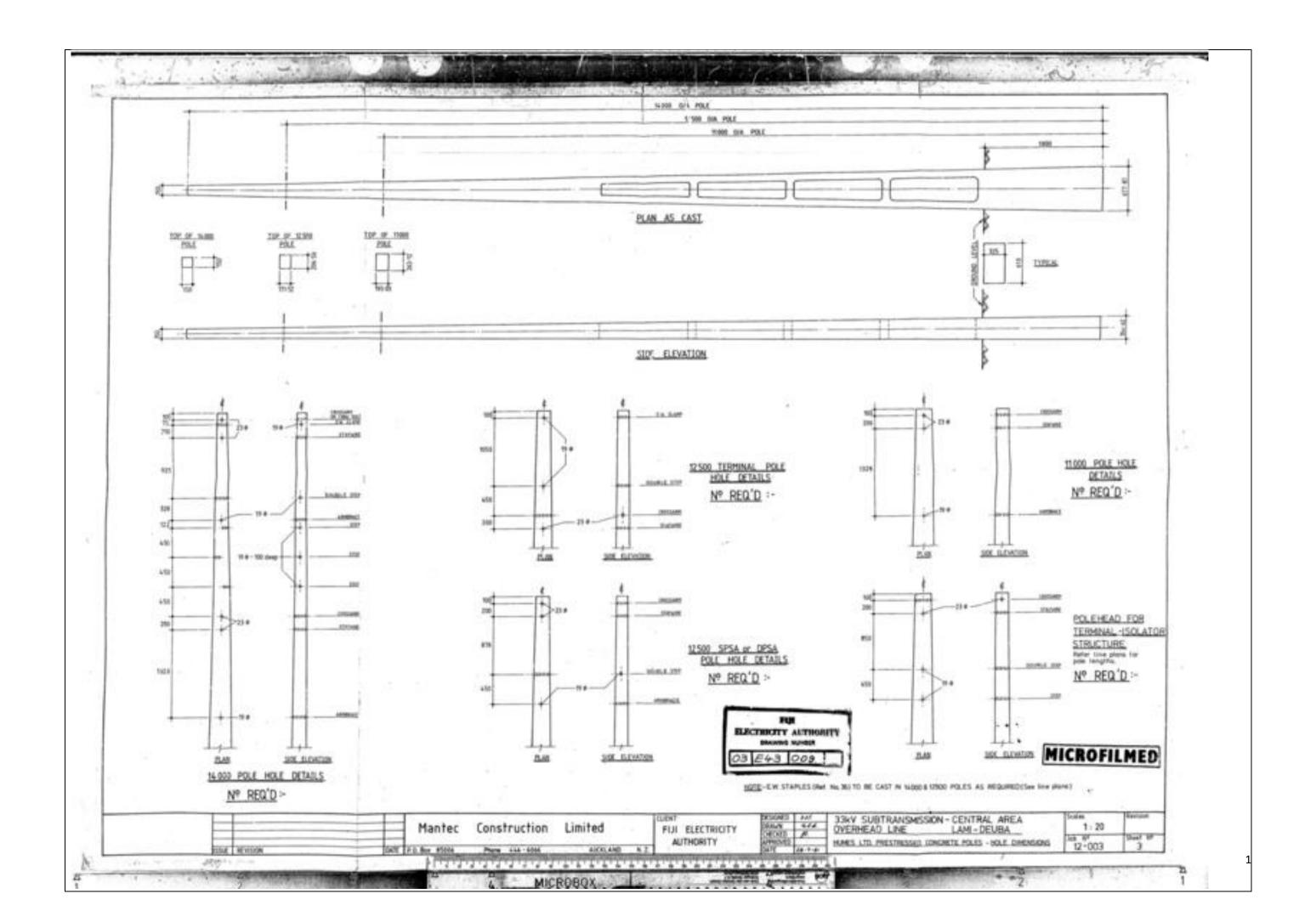
	Particulars	Yes	No
1.	Item-by-item commentary on the purchaser's Technical		
	<u>specifications</u>		
2.	Descriptive literature giving full technical details of		
	equipment offered;		
3.	Outline dimension drawing for each component, general		
	arrangement drawing showing component layout;		
4.	type test certificates and sample routine test reports;		
5.	detailed reference list of customers already using		
	equipment offered during the last 5 years with		
	particular emphasis on units of similar design and rating;		
6.	details of manufacturer's quality assurance standards and		
	programme and ISO 9000 series or equivalent national		
	certification;		
7.			
8.	Deviations from this specification (if any).		
9.	list of recommended spare parts for five years of		
	operation with prices and spare parts catalogue with		
	price list for future requirements.		
10.	Standards Compliance and Listing		
11.	Factory Acceptance Test Plan and Breakdown		
12	Completed technical data schedule;		
13.	Complying and Completed pricing schedule		
14.	Training		

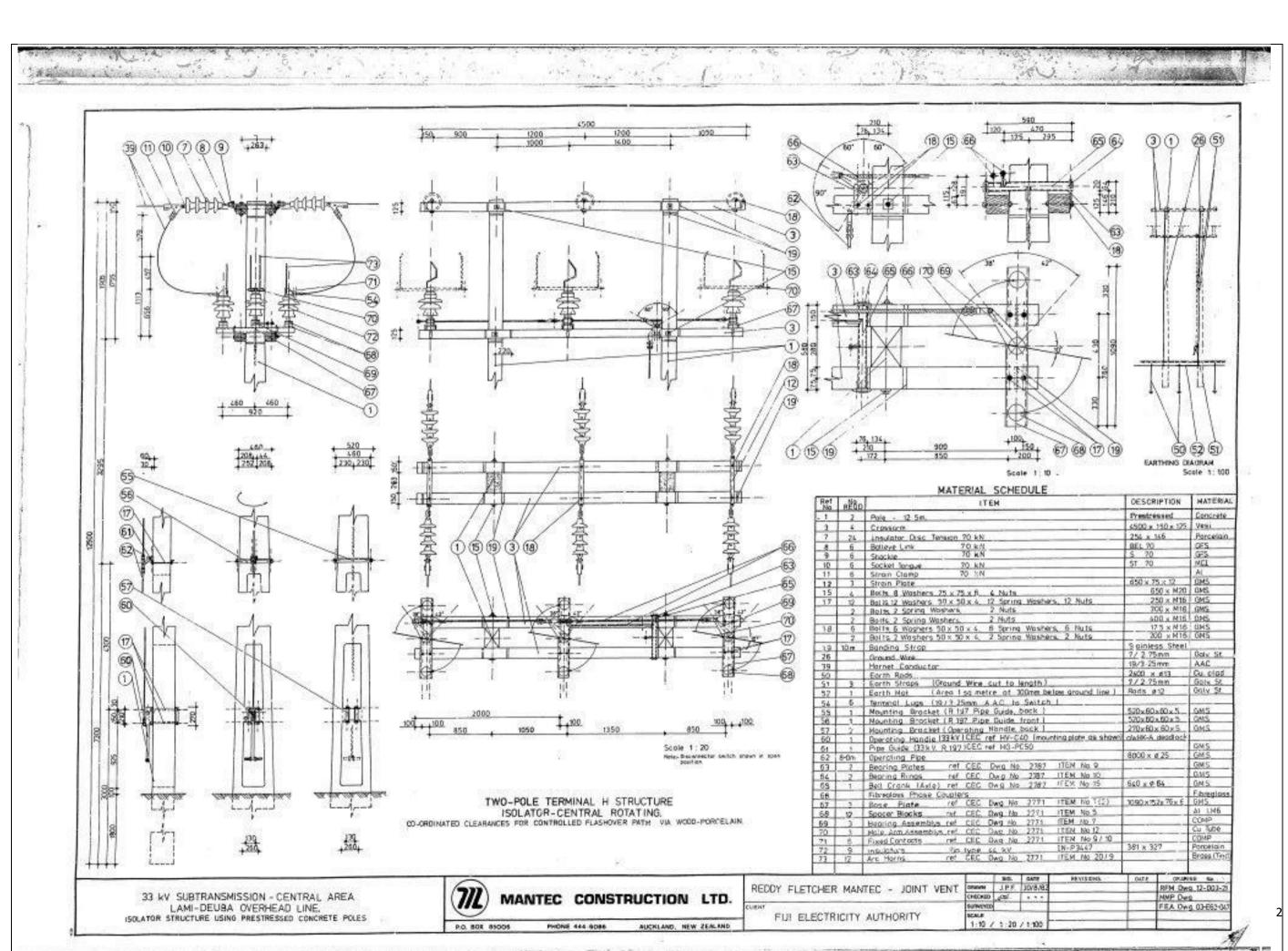
Note: The tender will be evaluated by the purchaser based on the availability of the documentation and evidence by the bidder as per the requirements of the submission checklist

Appendix: Examples of Existing Applications

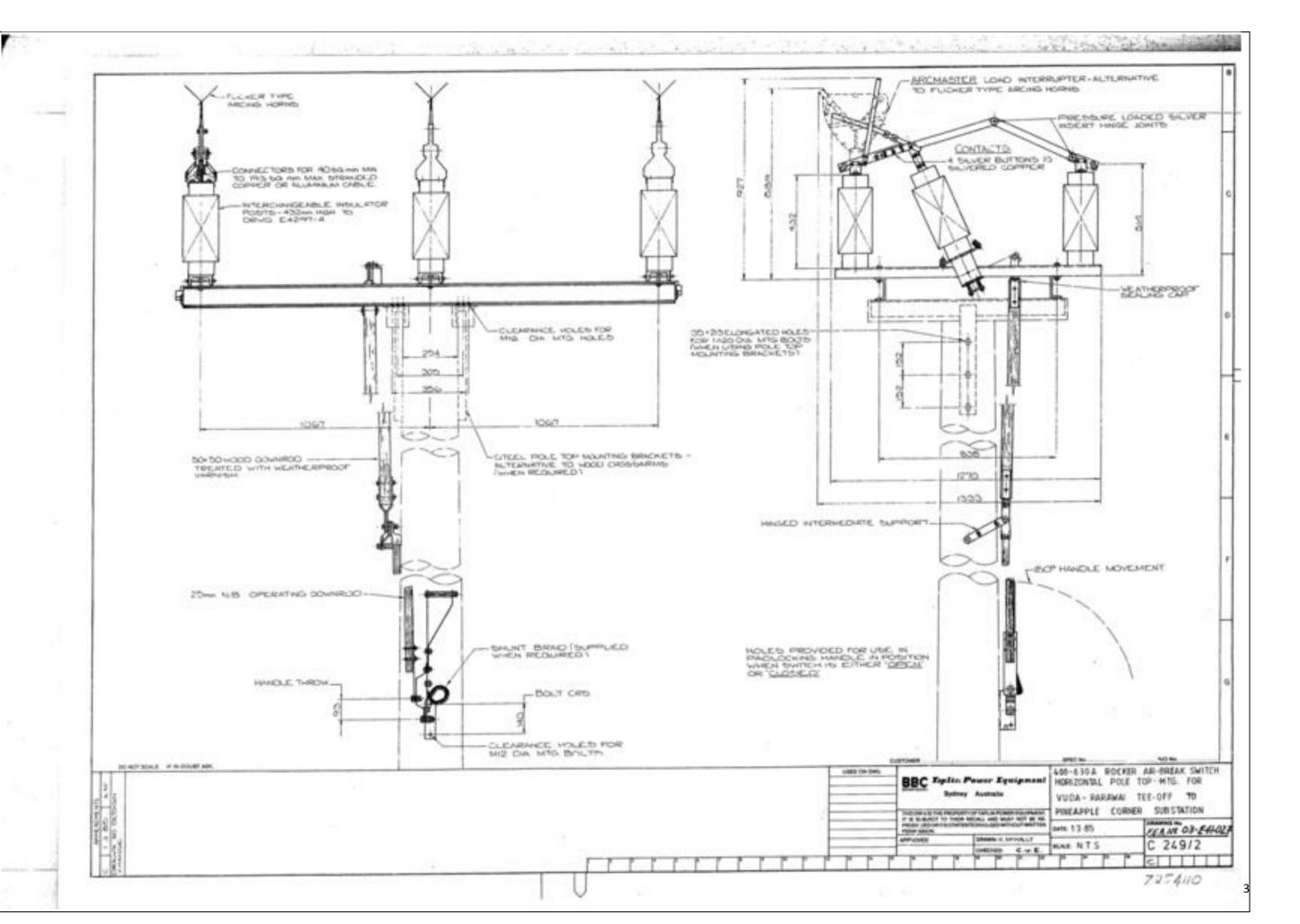


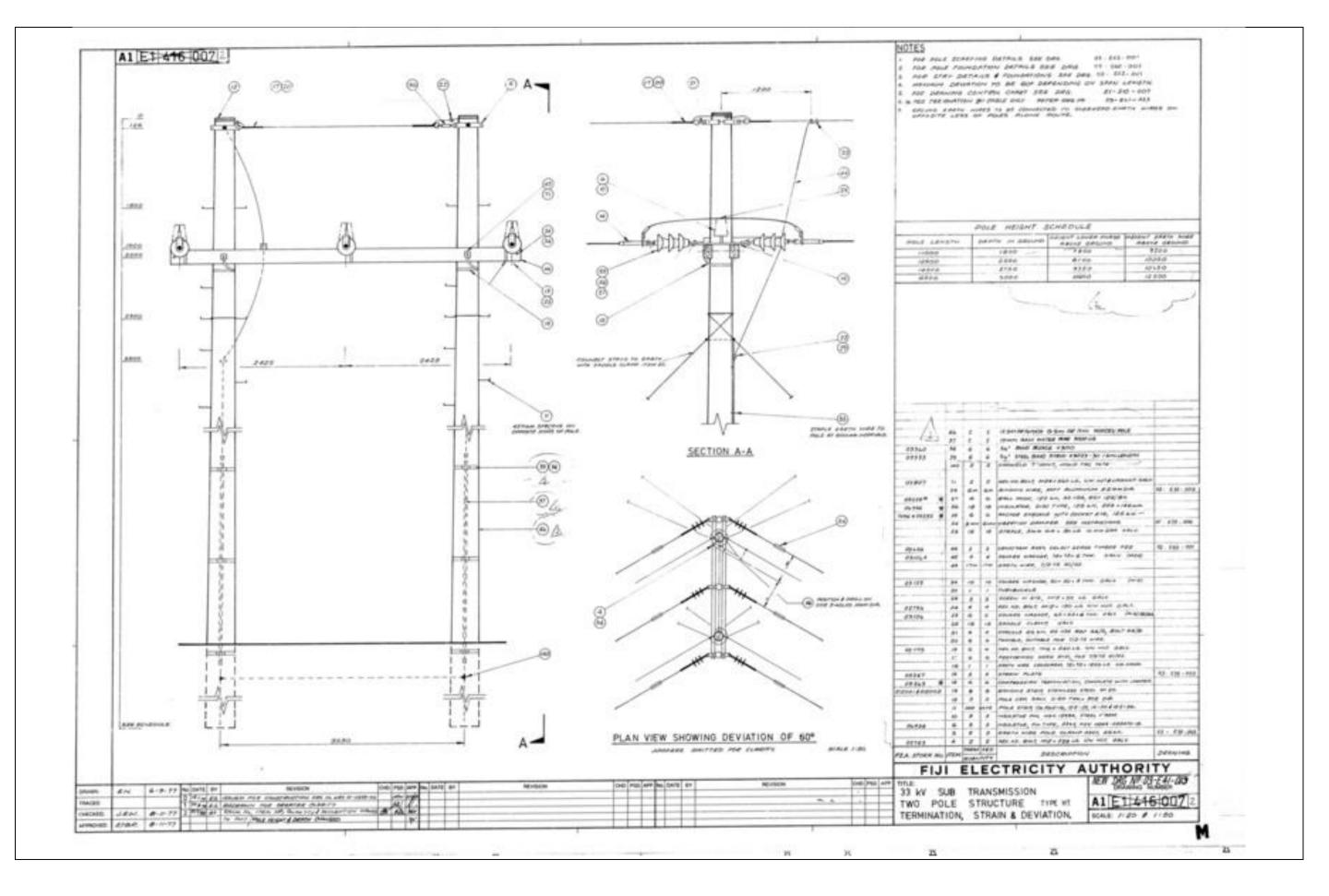






MICROROX





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 2nd August, 2017**

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.fi

In additional, 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 2nd August, 2017**- Addressed as

Tender – MR 174/2017 Preferred Supplier for 33kV Air Break Switches

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 <u>soft copy is uploaded in the e-Tender Box</u> and it is dispatched before the closing date and time.

Tenders received after 4:00pm on the closing date of Wednesday 2nd August, 2017

- 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.