



**TENDER FOR THE “UPGRADE OF THE
AUTOMATED CONTROL SYSTEM FOR WARTSILA GENERATORS AT
EFL’S KINOYA & VUDA POWER STATIONS”.**

1. 2 X 18V32 WARTSILA GENERATOR PLC CONTROL SYSTEM –
VUDA POWER STATION
2. 2 X 18V38 WARTSILA GENERATOR PLC CONTROL SYSTEM –
KINOYA POWER STATION

TENDER NO. MR 147/2024

Tender Submission - Instruction to bidders

It is mandatory for Bidders to upload an electronic copy of their bid in the **EFL TENDER LINK**, Electronic Tender Box no later than 4:00pm, on Wednesday 22nd May, 2024.

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 **tenders@efl.com.fj**

Only Electronic Tender Bids will be accepted and should be uploaded in the EFL Tender site as per above Tender Link. Tenders should be addressed as

**Tender – MR 147/2024 – UPGRADE OF THE AUTOMATED CONTROL SYSTEM
FOR WARTSILA GENERATORS AT EFL'S KINOYA & VUDA POWER
STATIONS.**

**The Secretary Tender
Committee Energy Fiji
Limited
Head Office Suva
Fiji**

Tenders received after **4:00pm** on the closing date on Wednesday 22nd May, 2024 will not be considered.

SITE VISIT

A site visit is compulsory for Bidders and is schedule;

1. Kinoya Power Station – Monday 29th April 2024, 10am.
2. Vuda Power Station – Tuesday 30th April 2024, 10am.
3. Other Bidders that are familiar with these Generator Controls and cannot attend shall contact EFL of their intentions.
4. Bidders that send their local agent to this site visit will be not considered.

1 INSTRUCTIONS TO TENDER

1.1 GENERAL

The Energy Fiji Limited is a statutory body vested with the responsibility for the provision of electricity supply throughout Fiji. The EFL is currently implementing an upgrade of the Wartsila Generator Control Systems. The scope for this tender is for the supply of upgraded equipment, installation and commissioning.

1.2 TYPE OF TENDER

The Tenderer shall submit a fixed price tender. This requirement shall apply equally to the conforming tender as well as any alternative tender.

1.3 COMPLIANCE WITH INSTRUCTIONS

The Tender shall be submitted in accordance with these Instructions and the letter of invitation to tender. All the necessary forms and schedules need to be completed and submitted with the tender.

1.4 ADDENDA TO TENDER

Where the EFL finds it necessary to make amendments to or clarify the requirements of the tender documents during the period of tendering three copies of each Addendum will be forwarded. In the Appendix to Tender shall state the reference number and description of each of the aforesaid Addenda which has been considered during preparation of the Tender.

1.5 COMPLIANCE WITH SPECIFICATION

The tender shall be based on the equipment upgrade and work specified and shall be in accordance with the Technical Specification. It should be noted that unless departures from specifications are detailed in the Technical Specification, the tender would be taken as conforming to the Specification in its entirety. The Tenderer shall tender for the whole of the Works included in the Specification.

1.6 DELIVERY PERIODS

The Tenderer shall submit their tender Bids on the basis which will permit the Scope of Supply to be completed under normal circumstances by the delivery dates stated in “2.4 Price and Delivery Schedule” of the Technical Specification. The Upgraded Control and required Hardwares, should be supplied CIF Lautoka Port.

1.7 CURRENCY AND CURRENCY EQUIVALENT

The tenders shall be in the currency of the Tenderer's home country. For Tender comparison purposes the currency or currencies in which the tender is offered will be valued in terms of Fijian dollars at the exchange rate quoted for the sale of the foreign currency for Fijian dollars quoted by the Reserve Bank of Fiji on the day the tenders are opened. All local companies registered in Fiji shall bid in VIP and Duty inclusive.

1.8 SIGNATURE OF TENDERER

A tender submitted by a Partnership shall be signed by one of the members of the Partnership and shall be accompanied by a certified authorization of all the partners authorizing the individual partner to sign on behalf of the Partnership. A tender submitted by a Corporation to the Contract and shall be accompanied by a certified resolution of the Board of Directors authorizing the individual to sign on behalf of the Corporation.

1.9 INFORMATION FORMING PART OF THE TENDER

The Tenderer shall supply with each set of the tender copies of the technical, price and information schedules of the Tender Documents duly completed with all missing information and shall also supply any requisite drawings. A copy of the Tenderer's covering letter (if any) shall be submitted with each tender and each tender shall be accompanied by a full set of supporting matter which the Tenderer wishes to have considered by the Authority as supporting information for his tender. It is a mandatory requirement to submit the following documents as part of the tender proposal:

1. Tender Covering Letter with signature/seal of EFL signatory
2. Price & Payment Schedule
3. List of Experience
4. Confirmation of Insurance Policies

1.10 CONFORMING AND ALTERNATIVE TENDERS

No alternative bids shall be accepted.

1.11 NON CONFORMING TENDERS

A tender which does not comply with the Conditions of Tendering or in which the technical price information schedules requiring information to be inserted by the Tenderer have not been completed in all respects may be considered informal will be rejected for these reasons.

1.12 VALIDITY PERIOD OF TENDERS

Tenders shall remain valid for acceptance within **180 days** from the date of opening of tenders and a Tenderer shall not withdraw or amend his tender prior to the expiration of the Validity Period. In exceptional circumstances prior to expiry of the original tender validity period, the Authority may request the Tenderer for an extension in the period of validity. The request and the response thereto shall be in writing. A tenderer agreeing to the request will not be permitted to amend his tender price.

1.13 EXTENSION OF CLOSING TIME FOR TENDERS

The right is reserved to amend the date set for the opening of tenders to any late date. If it is decided to extend the time for submission of tenders all prospective Tenderers to whom tender documents have been issued will be promptly notified.

1.15 DEADLINE FOR SUBMISSION OF BIDS

Only Electronic Tender Bids will be accepted and should be uploaded in the EFL Tender site as per above Tender Link no later than 1600 hours (Fiji Time) on Wednesday 22nd May, 2024.

1.16 SITE VISIT

A site visit is compulsory for Bidders and is schedule;

1. Kinoya Power Station – Monday 29th April 2024, 10am.
2. Vuda Power Station – Tuesday 30th April 2024, 10am.
3. Other Bidders that are familiar with these Generator Controls and cannot attend shall contact EFL of their intentions.
4. Bidders that send their local agent to this site visit will be not considered.

1.17 TENDER EVALUATION

After a preliminary analysis to ascertain whether or not the tender is in accordance with the requirements of the tender documents each tender will be considered with particular reference to its eligibility as being a manufacturer, offer testing facilities in its workshop, price, completion date, design capability, evidence of past performance on contracts of a similar nature, supply of reliable quality equipment and all other matters affecting the Tenderers ability to complete the Contract in accordance with the Authority's requirements.

1.18 ADJUSTMENT OF ERRORS

The Authority reserves the right to adjust arithmetical or other errors in the Tender. Any adjustments made by the Authority to a Tender will be stated to the Tenderer prior to acceptance of the Tender. In the event of discrepancies appearing between words and figures in the Tender, the words shall prevail.

1.19 ACCEPTANCE OF TENDERS

The Authority shall not be bound to accept the lowest or any tender not to assign any reason for the rejection of a tender and reserves the right to waive any informality in a tender. No tender shall be deemed to have been accepted unless such acceptance is notified to the Tenderer by notice in writing either by handing such notice to the representative of the successful Tenderer or by sending such notice by e-mail, facsimile or airmail post. Such notice shall include any essential identifying details of the tender. The date of acceptance of Tender shall be the date on which the above mentioned notice is given or posted or e-mailed.

1.20 LANGUAGE OF TENDER

All Tenders together with any documents submitted by the Tenderer as part of any Tender shall be written in the English language.

1.21 PAYMENT SCHEDULE

The contract shall be on a lump sum fixed price basis and as per attached payment "2.3 Price Schedule".

1.22 CONDITIONS OF CONTRACT

The Conditions of Contract shall be the AS/NZS 4911:2003 - General Conditions of Contract for the Supply of Equipment, Installation and Commissioning.

1.23 INSURANCE

The Contractor is to confirm that they have in effect the insurance policies below:

1. Public and Products Liability Insurance
2. Industrial Special Risk Insurance

2 TECHNICAL SPECIFICATIONS

2.1 INTRODUCTION

Energy Fiji Ltd, needs to upgrade the PLC Controls for 2 x Wartsila 18V32 Generators at the Vuda Power Station and 2 x Wartsila 18V38 Generators at the Kinoya Power Station. The parts for the existing plc controls are now obsolete thus the requirement for these upgrades.

The PLC and HMI Controls system for the two sites are identical and the scope of works are more the same otherwise specified in the work scope below. The existing Control System Philosophy should be maintained in the new upgrade control system.

The listed scope of works are a guideline to the required upgrade where the Bidders are required to submit a workable, economical and safe system to ensure the safe operation of these four generators.

The Bidders are also required to add to these Scope of Works, any works they think is required but missed out in the of listed works to ensure the safe operation of these Wartsila Generators.

Any deviation from these required Tender Scope of Works may be considered by EFL provided it maintained the existing generator control philosophy, workable, economical and safe for the operation of these Wartsila generators.

2.2 SCOPE OF WORK "A"

These scope of works is for the Wartsila Generators 18V32, G3 and G4 at the Vuda Power Station.

UPGRADE OF CONTROL PLC SYSTEM FOR 2*18V32 GENSETS AT VUDA POWER STATION

A. CFA901 COMMON CONTROL PANEL

TOTAL QTY:1

- l. A new control panel to replace the existing CFA901 control panel; Upgraded and modified with 'Schneider Electric Modicon M580' PLC (To be installed in the control room)
 1. Fully wired Common Control Panel (Rittal cabinet 2200*800*600mm), including below:
 - a. New 'Schneider Electric Modicon M580' PLC Processor with X80 I/O
 - b. 'Schneider M580' CPU Level 20+MEM card 1pc
 - c. Ethernet backplane, 4 slots 1pc
 - d. Power supply module X80 1pc
 - e. BMXAMI0810 'Analog Input' card with 3m cord set 1pc
 - f. BMXDDI6402K 'Digital Input' card with Telefast I/O interfaces 1pc
 - g. Westermo Lynx L210-F2G Ethernet switch 1pc
 - h. Mimic based on existing
 - i. Metering & switches
 - j. Synchronization system hardware
 - k. Necessary power units and MCBs
 2. Existing WOIS & PLC application software modification

B. 1 x COMMON

- Upgrade Existing sWOIS to V3.1.3 (Redundant Server Solution) and hardware.
- Upgrade Reporting Station (Dream Report for Wärtsilä 32 Gensets) and Hardware
-

C. CFC0_1 GENSET CONTROL PANEL

TOTAL QTY:2

- l. A new control panel to replace the existing CFC0_1 panel; Upgraded and modified with 'Schneider Electric Modicon M580' PLC (To be installed in the control room)
 1. Fully wired Genset Control Panel (Rittal cabinet 2200*600*600mm), below materials listed per CFC0_1:
 - a. New 'Schneider Electric Modicon M580' PLC Processor with X80 I/O
 - b. 'Schneider M580' CPU Level 20+MEM card 1pc
 - c. Ethernet backplane, 8 slots 1pc
 - d. Power supply module X80 1pc
 - e. BMXDDI3202K 'Digital Input' card with Telefast I/O interfaces 1pc
 - f. BMXDDO3202K 'Digital Output' card with Telefast I/O interfaces 1pc
 - g. Westermo Lynx L210-F2G Ethernet switch 1pc
 - h. FO converter for CFC-CFE
 - i. Metering & switches
 - j. ARCTEQ 'Power Monitoring IED' AQ P215
 - k. Multifunctional Protection Relay; ARCTEQ 'Generator Protection IED with Differential Protection' (Combined Differential + Generator Protection) AQ G257
 2. Existing WOIS & PLC application software modification.

D. CFE0_1 LOCAL GENSET CONTROL PANEL

TOTAL QTY:2

- l. A new control panel to replace the existing CFE0_1 panel; Upgraded and modified with 'Schneider Electric Modicon M580' PLC (To be installed near Genset)
 1. Fully wired Local Genset Control Panel (Rittal cabinet 2200*1000*800mm), below materials listed per CFE0_1:
 - a. Ethernet backplane, 8 slots 1pc
 - b. Power supply module X80 1pc
 - c. BMXDDI6402K 'Digital Input' card with Telefast I/O interfaces 1pc
 - d. BMXDDO3202K 'Digital Output' card with Telefast I/O interfaces 1pc
 - e. BMXAMI0810 'Analog Input' card with 3m cord set 1pc
 - f. BMXAMO0410 'Analog Output' card with spring connector 1pc
 - g. Weidmuller remote I/O for PT100/TC sensors 1pc
 - h. Beijer X2 pro 7 7" HMI 1pc
 - i. FO converter for CFC-CFE

- j. Metering & switches
- 2. Existing WOIS & PLC application software modification.

E. UPGRADE E&A CONTROL SYSTEMS_2*18V32 GENSET

TOTAL QTY:2

- I. The existing control systems to be upgraded with the new systems in each 18V32 Genset. CFC0_1 & CFE0_1 panel are to be integrated with the new 'COM-10' (Communication Module), 'ESM-21' (Engine Safety Module) and 'AVR-1020' (Automatic Voltage Regulator).
 - 1. The existing speed/load controller to be replaced with the 'COM-10', UNIC 2nd generation speed/load controller. Contractor to supply the required speed sensors. Other than speed sensors, current Genset-mounted instrumentations will remain unchanged.
 - 2. The current AVR to be replaced with 'UNITROL' 1020 AVR.
 - 3. The existing speed monitoring system (SPEMOS) to be replaced with 'ESM-21'.
 - 4. Existing generator protection relays and power monitoring unit will be replaced with a new multifunctional protection relay; ARCTEQ 'Generator Protection IED with Differential Protection' (Combined Differential + Generator Protection) AQ G257 & ARCTEQ 'Power Monitoring IED' AQ P215.

F. CONNECT COMMON & 2*18V32 GENSETS WITH EXISTING SWOIS

- I. A new Thin Client for 2*18V32 Gensets to be linked to the existing sWOIS server. Modified with 'Windows Server 2016' (To be installed 18V32 control room)
 - 1. Thin Client, including configuration + Monitor, same as existing in W18V32 control room
 - a. InTouch 2017 60k with I/O RDS Conc (Upgrade) 1pc
 - b. WW Historian Client 2017 1pc
 - c. Windows User CAL 1pc
 - d. Windows Server 2016 User RDS CAL 1pc
 - 2. Existing WOIS software modification.

G. COMMUNICATION AMONG CFC0_1-CFE0_1-CFA901

- I. There should be an Ethernet switch in CFC0_1 & CFE0_1 with FO connection, which will communicate with AVR, located in the CFE cabinet through Ethernet. HMI of CFE will be connected to the switch through Ethernet.
- II. There should be a separate NRP card for Schneider with built-in FO ports in CFC0_1 & CFE0_1, which will be separated from the general Ethernet network with its own FO connection.
- III. The communication between CFC0_1 & CFE0_1 will be redundant. All communication,

i.e., RJ45 Ethernet and FO cables considered in Wärtsilä's scope of supply.

H. CFA902 FUEL TREATMENT / REMOTE CONTROL PANEL TOTAL QTY:1

- a. A new control panel to replace the existing CFA902 control panel; Upgraded and modified with 'Schneider Electric Modicon M580' PLC (To be installed in the 18V32 fuel treatment room)
 - i. Fully wired Fuel Control Panel (Rittal cabinet 1400*8000*500mm), including below:
 1. New 'Schneider Electric Modicon M580' PLC Processor with X80 I/O
 2. 'Schneider M580' CPU Level 20+MEM card 1pc
 3. Ethernet backplane, 8 slots 1pc
 4. Power supply module X80-110VDC 1pc
 5. BMXAMI0810 'Analog Input' card with 3m cord set 1pc
 6. BMXDDO3202K 'Digital Output' card with Telefast I/O interfaces 1pc
 7. BMXDDI3202K 'Digital Input' card with Telefast I/O interfaces 2pcs
 8. Westermo Lynx L210-F2G Ethernet switch 1pc
 9. Beijer X2 pro 7 7" HMI 1pc
 10. Mimic based on existing
 11. Metering & switches
 12. Necessary power units and MCBs
 - ii. Existing WOIS & PLC application software modification

I. BACKEND SCOPE OF WORK

- l. Contractor's scope of work before and after site execution:
 1. 'Project Management'
 2. Procurement & Logistic
 3. Engineering & Software modification
 - a. Revised automation layout
 - b. Updated WOIS & PLC application software based on UNIC conversion.
 - c. Updated AVR, ESM, COM, AQ G257 & AQ P215 based on Wärtsilä standard.
 4. Documentation
 - d. Documentation limited to the above scope
 - e. New drawings for CFA901, CFC0_1 & CFE0_1 panel
 - f. Manuals for new system/equipment (Soft copy)
 - g. Red pen modified drawings of relevant sheets will be provided in A4 size upon completion of the project. Updated drawings of modified upgrades will be shared later. (Documentation in English).

J. SITE EXECUTION (TESTING & COMMISSIONING)

- K. Upgrade of existing 'Automation & Control System' and connect with the present 'Workstation' type (Single) 'Server-based WOIS' (sWOIS) should be considered in Contractor's scope of supply. A single Thin Client should be

supplied for both 18V32 Gensets.

2.3 SCOPE OF WORK B

UPGRADE OF CONTROL PLC SYSTEM FOR 2*18V38 GENSETS AT KINOYA POWER STATION

EFL is also proposing the same PLC Control Upgrade for the 2 x 18V38 Gensets, G8 and G9 at the Kinoya Power Station. The Scope of works should be similar for the 2 x 18V32 Gensets for Vuda Power Station – Scope of Work A.

Listed are brief for the upgrade of the following components. The listed scope of works are a guideline to the required upgrade where the Bidders are required to submit a workable, economical and safe system to ensure the safe operation of these two generators. The existing Control Philosophy on the existing Genset should be maintained in the new Control System Upgrades.

A. 1 x COMMON

- Upgrade Existing sWOIS to V3.1.3 (Redundant Server Solution) and hardware.
- Upgrade the Reporting Station (Dream Report for Wärtsilä 38 Gensets) Software and Hardware

B. CFA901 COMMON CONTROL PANEL

TOTAL QTY:1

- l. A new control panel to replace the existing CFA901 control panel; Upgraded and modified with 'Schneider Electric Modicon M580' PLC (To be installed in the control room)
 1. Fully wired Common Control Panel (Rittal cabinet 2200*800*600mm), including below:
 - a. New 'Schneider Electric Modicon M580' PLC Processor with X80 I/O
 - b. 'Schneider M580' CPU Level 20+MEM card 1pc
 - c. Ethernet backplane, 4 slots 1pc
 - d. Power supply module X80 1pc
 - e. BMXAMI0810 'Analog Input' card with 3m cord set 1pc
 - f. BMXDDI6402K 'Digital Input' card with Telefast I/O interfaces 1pc
 - g. Westermo Lynx L210-F2G Ethernet switch 1pc
 - h. Mimic based on existing
 - i. Metering & switches
 - j. Synchronization system hardware
 - k. Necessary power units and MCBs
 2. Existing WOIS & PLC application software modification
 3. 1 Operator's Station (Thin Client for Wärtsilä 38 Gensets)

C. CFC0_1 GENSET CONTROL PANEL

TOTAL QTY:2

- a. A new control panel to replace the existing CFC0_1 panel; Upgraded and modified with 'Schneider Electric Modicon M580' PLC (To be installed in the control room)

i. Fully wired Genset Control Panel (Rittal cabinet 2200*600*600mm), below materials listed per CFC0_1:

1. New 'Schneider Electric Modicon M580' PLC Processor with X80 I/O + X80 I/O+AQG257+AQP215
2. 'Schneider M580' CPU Level 20+MEM card 1pc
3. Ethernet backplane, 8 slots 1pc
4. Power supply module X80 1pc
5. BMXDDI3202K 'Digital Input' card with Telefast I/O interfaces 1pc
6. BMXDDO3202K 'Digital Output' card with Telefast I/O interfaces 1pc
7. Westermo Lynx L210-F2G Ethernet switch 1pc
8. FO converter for CFC-CFE
9. Metering & switches
10. ARCTEQ 'Power Monitoring IED' AQ P215
11. Multifunctional Protection Relay; ARCTEQ 'Generator Protection IED with Differential Protection' (Combined Differential + Generator Protection) AQ G257
12. Existing WOIS & PLC application software modification.
13. 1 Operator's Station (Thin Client for Wärtsilä 38 Gensets)

D. CFE0_1 LOCAL GENSET CONTROL PANEL

TOTAL QTY:2

a. A new control panel to replace the existing CFE0_1 panel; Upgraded and modified with 'Schneider Electric Modicon M580' PLC (To be installed near Genset)

i. Fully wired Local Genset Control Panel (Rittal cabinet 2200*1000*800mm), below materials listed per CFE0_1:

1. Ethernet backplane, 8 slots 1pc
2. Power supply module X80 1pc
3. BMXDDI6402K 'Digital Input' card with Telefast I/O interfaces 1pc
4. BMXDDO3202K 'Digital Output' card with Telefast I/O interfaces 1pc
5. BMXAMI0810 'Analog Input' card with 3m cord set 1pc
6. BMXAMO0410 'Analog Output' card with spring connector 1pc
7. Weidmuller remote I/O for PT100/TC sensors 1pc
8. Beijer X2 pro 7 7" HMI 1pc
9. FO converter for CFC-CFE
10. Metering & switches
11. Existing WOIS & PLC application software modification.
12. 1 Operator's Station (Thin Client for Wärtsilä 38 Gensets)

E. UPGRADE E&A CONTROL SYSTEMS_2*18V38 GENSET IN BRIEF

- The existing control systems to be upgraded with the new systems in each 18V38 Genset.
- CFC0_1 & CFE0_1 panel is to be integrated with the new 'COM-10' (Communication Module), 'ESM-21' (Engine Safety Module) and 'AVR-1020' (Automatic Voltage Regulator).
- The existing speed/load controller is to be replaced with the 'COM-10', UNIC 2nd generation speed/load controller.
- Contractor to supply the required speed sensors. Other than speed sensors, current Genset-mounted instrumentations will remain unchanged.
- The current AVR to be replaced with 'UNITROL' 1020 AVR.
- The existing speed monitoring system (SPEMOS) to be replaced with 'ESM-21'.
- SEL 700G Generator Protection relays are preferred to replace the existing ones or
- Existing generator protection relays and power monitoring unit to be replaced with a new multifunctional protection relay; ARCTEQ 'Generator Protection IED with Differential Protection' (Combined Differential + Generator Protection) AQ G257 & ARCTEQ 'Power Monitoring IED' AQ P215.
- Shark 200 Series Energy Meters are to be used as separate energy meters

F. CFA902 FUEL TREATMENT / REMOTE CONTROL PANEL TOTAL QTY:1

- a. A new control panel to replace the existing CFA902 control panel; Upgraded and modified with 'Schneider Electric Modicon M580' PLC (To be installed in the 18V38 fuel treatment room)
 - i. Fully wired Fuel Control Panel (Rittal cabinet 1400*8000*500mm), including below:
 1. New 'Schneider Electric Modicon M580' PLC Processor with X80 I/O
 2. 'Schneider M580' CPU Level 20+MEM card 1pc
 3. Ethernet backplane, 8 slots 1pc
 4. Power supply module X80-110VDC 1pc
 5. BMXAMI0810 'Analog Input' card with 3m cord set 1pc
 6. BMXDDO3202K 'Digital Output' card with Telefast I/O interfaces 1pc
 7. BMXDDI3202K 'Digital Input' card with Telefast I/O interfaces 2pcs
 8. Westermo Lynx L210-F2G Ethernet switch 1pc
 9. Beijer X2 pro 7 7" HMI 1pc
 10. Mimic based on existing
 11. Metering & switches
 12. Necessary power units and MCBs
 13. Existing WOIS & PLC application software modification.
 14. 1 Operator's Station (Thin Client for Wärtsilä 38 Gensets)
 - 15.

G. BACKEND SCOPE OF WORK

Contractor's scope of work before and after site execution:

- i. 'Project Management'
- ii. Procurement & Logistic
- iii. Engineering & Software modification
 1. Revised automation layout
 2. Updated WOIS & PLC application software based on UNIC conversion.
 3. Updated AVR, ESM, COM, AQ G257 & AQ P215 based on Wärtsilä standard.
- iv. Documentation
 - h. Documentation limited to the above scope
 - i. New drawings for CFA901, CFC0_1 & CFE0_1 panel
 - j. Manuals for new system/equipment (Soft copy)
 - k. Red pen modified drawings of relevant sheets will be provided in A4 size upon completion of the project. Updated drawings of modified upgrades to be provided as part of the required documentation. (Documentation in English).

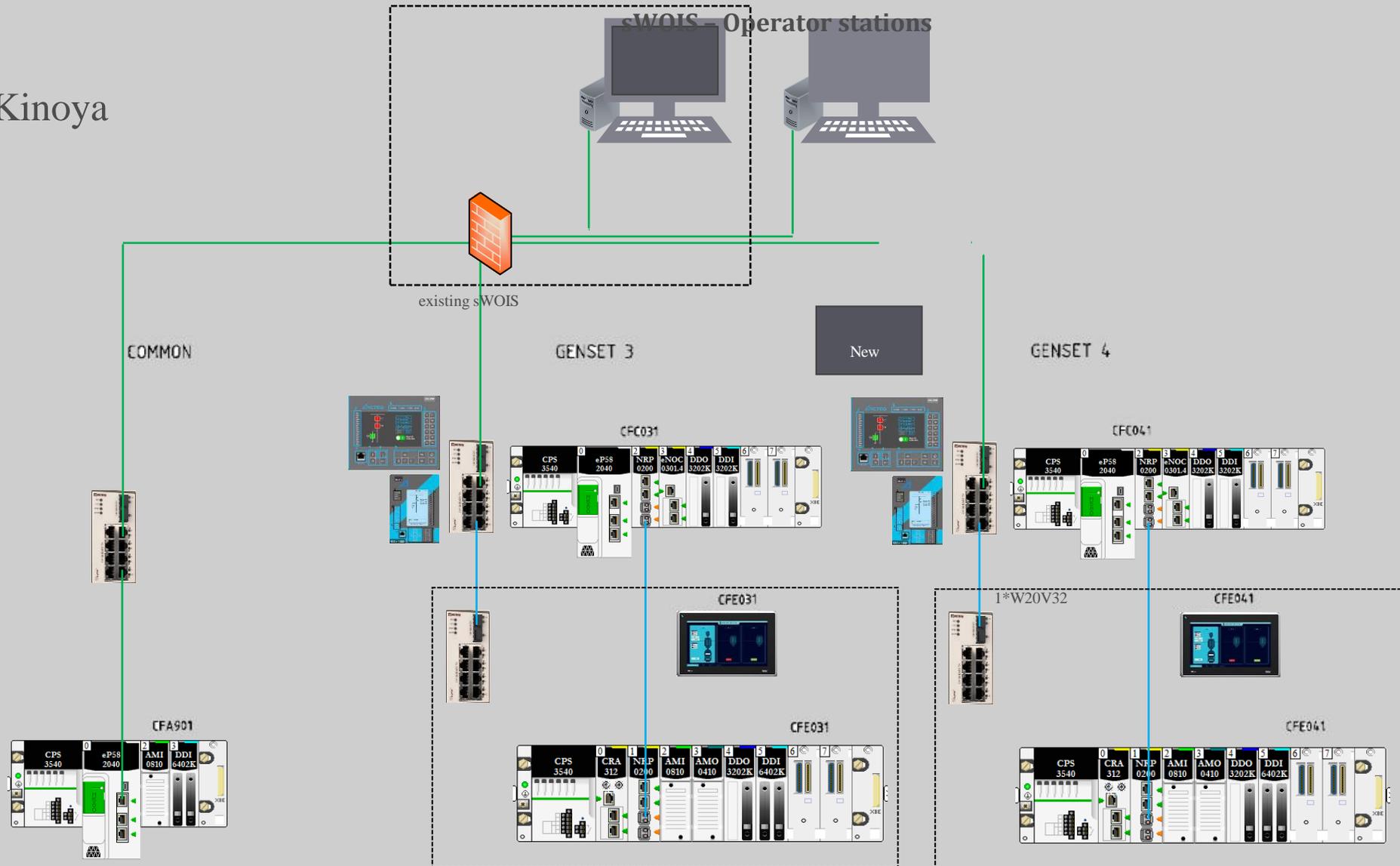
H. SITE EXECUTION (TESTING & COMMISSIONING)

- I. Upgrade of existing 'Automation & Control System' and connect with the present 'Workstation' type (Single) 'Server-based WOIS' (sWOIS) should be considered in scope of supply. A single Thin Client should be supplied for both 18V32 Gensets.

VUDA POWER STATION SETUP

Note:

Similar setup is for Kinoya
G8 and G9



J.

2.4 PRICE AND DELIVERY SCHEDULE

Description		Schedule Completion Dates	Percentage of Tendered Price	Total Amount Currency: ____
1	Confirm Shipping of new Control Panels & required Hardwares to Fiii	3 Months from Date of Contract Signing		
2	Installation and Commissioning of the Kinoya 2 x 18V38 PLC	4 Months from Date of Contract Signing		
3	Installation and Commissioning of the Vuda 2 x 18V32 PLC	5 Months from Date of Contract Signing		
4	Freight, transportation cost, Insurance,			
5	Retention			
TOTAL			100%	
	Warranty Duration			
	INCOTERM - CIF Lautoka, Fiji, Port			

Note:

* Please specify currency (FJD, USD, AUD, NZD)

Tender Form 1 – Letter of Tender

Name of Contract: Upgrade of the Automated Control System for Wartsila Generators at EFL’s Kinoya and Vuda Power Station.

Tender To: Energy Fiji Limited
2 Marlow St
Private Mail Bag
Suva
Republic of the Fiji Islands

1. This tender is made by _____
[insert full name and registered address of tenderer].
2. Capitalised terms used in this letter have the meaning given to them in the Instructions to tenderers dated *[insert date]* (“**Instructions**”) unless otherwise defined.
3. Having examined and understood the Tender Documents relating to the Works (including the Instructions and all documents attached thereto we, the undersigned, hereby offer to manufacture, test and deliver the equipment in conformity with the said documents for the sum of:
.....
....., (\$.....),
Exclusive of VAT, WHT or such other sum as may be ascertained in accordance with the Contract.
4. This offer is made on the terms and conditions set out in this Tender and the Instructions.
5. We attach the following documents which form part of this tender:
 - (a) Completed tender forms;
 - (b) Technical description of the plant offered;
 - (c) Proposed programme;
 - (d) Any supplementary information;
6. We agree to abide by this Tender for a period of 60 days after the Tender Closing Date and that this Tender it shall remain binding upon us and may be accepted by you at any time before the expiration of that period.
7. We confirm that you may rely upon all statements made by us in response to the Instructions or in subsequent correspondence, discussions or negotiations with you.
8. We certify that:
 - (a) The entry into, and performance of the obligations under, the Contract by us will not violate any laws provided that you obtain all consents and authorisations you are required to obtain under the Contract;
 - (b) We have corporate power to enter into and perform our obligations under the Contract and we have taken all necessary corporate action to authorise the entry into, and execution of, this offer and (if required) entry into, and execution of, the Contract;
 - (c) The rates and prices in our offer have been arrived at independently, without consultation or agreement with any other tenderer; and
 - (d) No attempt has been made, nor will be made, by us to influence any other tenderer to submit or not submit a tender or to alter the proposed content of that tenderer's tender.
9. We acknowledge that this tender, and any contract arising upon its acceptance, shall be governed by and construed in accordance with the laws of The Fiji Islands.
10. Unless and until a formal agreement is prepared and executed, this Letter of Tender, together with your written acceptance thereof, shall constitute a binding contract between us.

We understand that you are not bound to accept the lowest or any tender you may receive.

Dated this _____ day of _____ 2022

Signature _____ in the capacity of _____

duly authorised to sign Tenders for and on behalf of: _____

Witness _____

Address _____

Occupation _____

Guaranteed time from date of Purchase Order issuance to arrival in EFL Lautoka Stores _____
(days).

Signature

Name

Position

Company

Address

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: _____

Tender submission

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 22nd May, 2024.

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 all Taxes payable under Fiji Income Tax Act. Bidders are to clearly state the percentage of VAT that is applicable to the bid prices.

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 three (3) working days prior to the tender closing date.

Tender Submission via email or fax will not be accepted.