RESERVE BANK OF FIJI

REQUEST FOR TENDER

BRS Generator Replacement.

1. OBJECTIVE

a. Remove the existing Generator, ATS and Wiring accessories
b. Supply and install a standby generator at the Business Resumption Site (BRS) building, 353 Princess Road, Tamavua, Suva
c. Test and commission the standby generator.

2. INTRODUCTION

a. The proposed generator location is on site at BRS.
b. The specification (Annexure 1) details the requirements for the supply, installation, testing and commissioning of the Generator Services for BRS.

3. SCOPE OF WORK

The scope of works comprises the removal of the existing generator and supply, installation, testing, commissioning, maintenance and defect liability services of materials, labour and equipment for the completed New Generator Services installation for the BRS.

This shall include all necessary work required to implement the intent and meaning of this scope of work and specification.

Whether or not the words "supply and install" appear in this scope and specification, unless clearly excluded, all items of equipment for the complete installation are required, shall be supplied, and installed.

The work shall include but will not be limited to the following main items:

1. Inspection and examine the site where the generator will sit and main switchboard.
2. Measure the available plinth area where the generator will be seated.
3. Remove existing generator, ATS and wiring accessories from the existing location.
4. Supply and install one of 100KVA standby rated diesel generator enclosed set completed with weatherproof acoustic surround and removeable panel doors.
5. Supply and installation of generator automatic transfer switch (ATS)
6. Supply and installation of stainless-steel exhaust system (including support system for exhaust).
7. Supply and install strobe light to indicate generator is running.

Additional Work:
The work shall include but will not be limited to the following main items:

1. Coordination work with Energy Fiji Limited.
2. Coordinate work with Fijian Competition & Consumer Competition.
3. Provision of shop Drawings.
4. Testing, Commissioning, warranty, and preventative Maintenance of the completed generator installation.
5. Provision of As Installed drawings.
6. Provision of installation and maintenance manuals.
7. Maintenance and attendance work during the defect's liability period (12 months).

Compliance with Rules, Regulations and Codes.

All work performed under this section of the contract shall be carried out by the generator contractor and shall comply in all respects with this specification, regulations and By-laws of the appropriate Authorities including:

a. The building Regulations applying to the project
b. Current issue of relevant Australian and New Zealand Standards.
c. The national Building code of Fiji
d. Local Public utility authority regulations – Energy Fiji Limited
e. Ministry of Labour OHS regulations.
f. Local Authority council
g. Fijian Competition & Consumer Commission
h. Any other regulations that apply directly or indirectly to such regulations in the locations. Materials, manufactured articles, and workmanship shall conform to the relevant standards. Where Authorities so require, items shall be stamped with their approval.

Samples

The Generator contractor must submit for approval by RBF samples of cabling, distribution boards, circuit breakers and other fittings and materials to be used in the works.

Authorities and Fees

1. Make application to the Energy Fiji Limited for permits to carry out the work. The EFL fees will be paid by the client.

2. Make application to the Fijian Competition & Consumer Commission. The generator contractor shall submit for approval and pay all relevant fees associated with the Fijian Competition & Consumer Commission.

Approval Certification.

1. Provide to RBF with a copy of the signed and stamped Energy Fiji Limited completion certificate prior to the commencement of the Defect Liability Period.

Work Program.

The Contractor to Submit to RBF a work plan detailing the tasks involved in completing the project.

4. PRELIMINARY AND GENERAL

Tenderer to Inform Himself Fully

1. Each Tenderer shall inspect and examine the site, its surroundings, and shall satisfy himself before submitting his tender, as to the nature of the ground and subsoil, the form and nature of the site, the quantities and nature of the works and materials necessary for the completion of the Works, and the means of access to the site, the accommodation he may require, the availability, conditions and rates of pay of labour and in general shall himself obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect his Tender.
2. Each Tenderer shall make all allowances he deems necessary to ensure the Works are completed within the Contract time, including all over time, double time, weekend work and other incidental allowances as required.

3. If a Tenderer has any doubt as to the meaning of any portion of the Works, he shall, when submitting his tender include a statement of the interpretation upon which he relies and upon which his tender has been prepared and submitted.
4. The Tenderers are to comply with the tender documents.
5. Tenderers also have the chance to propose a variant solution to the design specifications.

Temporary Services & Conveniences

1. The Contractor shall provide and arrange for all temporary services required for the works.
2. The Contractor shall be able to use water and electrical services in the existing premises during the construction of the works. For sanitary services will be provided by RBF.
3. RBF will provide all power and water necessary and power for the construction and amenities for all Contractors, free of charge. These services are located close to the area of work and the Contractor shall keep all services in a clean and tidy state.

Notices & Fees

1. The Contractor shall observe and adhere to all by-laws and give all Notices.
2. Similarly, he shall comply with all Regulations. The Contractor shall arrange all inspections and approvals by such Authorities like EFL and Fijian Competition & Consumer Commission as may be necessary.

Hours of Work

1. The Contractor shall provide a schedule stating the hours of work when submitting their tender. Hours of work likely to be approved by RBF is 8:30am till 5pm on working days Monday to Fridays and Saturdays with no work on Sundays. If the Contractor requires to work outside of these hours, he shall make specific application in writing no less than 2 full working days before additional access is needed. State the areas involved, the periods for which additional access is required in each area, and the exceptional circumstances necessitating the application. Approval will be dependent on the exceptional circumstances and will be subject to availability RBF supervisory and/ or security personnel for the areas.

Protection in General

1. Care shall be taken to protect all existing services, plant, furniture, doors, paintwork, and other features from any damage. The Contractor shall be liable for any damage to the building structure or components.

Site Inspection Schedule:

No	Schedule	Time
1st site inspection	18th September 2024	9am – 10am
2nd site inspection	25th September 2024	9am – 10am

Contact Personnel:

Name:	Mervyn Wesley	Mehul Raniga
Contact:	9988027	9984761
Email:	mervyn@rbf.gov.fj	mehul@rbf.gov.fj

5. TENDER SUBMISSION

All Submissions to be e-mailed to Board Secretary, Subrina Hanif subrina@rbf.gov.fj and Manager General Administration Services, Melania Tamaue melania@rbf.gov.fj**.**

Incomplete and late submissions will not be considered. Lowest or any tender may not necessarily be accepted. Both successful and unsuccessful submissions will be notified by formal correspondence.

6. PERIOD OF PERFORMANCE

The period of performance for this project shall depend on the contractor's period provided in the quotation. All work must be scheduled to be completed within the mentioned period. The actual engagement on site should be mindful of the critical nature of the risk involved and public safety. Any modifications or extension should be requested to the Reserve Bank of Fiji based on necessity.

7. WORK REQUIREMENTS

As part of this Project the contractor will be responsible for performing tasks throughout various stages of this project. The following is a list of these tasks which will result in the successful completion of this project:

- Site meeting(s).
- Project plan from the contractor on how the project will be executed.
- Updating RBF on the works.
- The work must be carried out with an extremely prominent level of professionalism.
- RBF needs to be advised if the contractor is or may face any difficulty in fulfilling the requirements of this project.
- Proper housekeeping needs to be carried out daily.
- Upon completion of the project, a detailed project completion report needs to be submitted to RBF both a soft and hard copy is to be submitted.

8. OHS AND SECURITY RESPONSIBILITY

The Contractor shall strictly observe and comply with the Occupational Health & Safety Regulations in Fiji and will be required to comply with the Employers Health and Safety Procedures and requirements as well.

9. ADMINISTRATIVE REQUIREMENTS

The Contractors should provide the following valid documents in their tender submissions:

1. Valid Tax compliance certificate.
2. Valid FNPF compliance certificate.
3. Company profile with clientele listing. Provide a client list where recent generator replacement was carried out with contact details.
4. Public liability cover.
5. Insurance cover.
6. Completed Trade Summary.

10. TENDER PROCESS

The steps below provide a brief outline of the Reserve Bank of Fiji's tender process.

1. Interested vendors can liaise with the Reserve Bank of Fiji to clarify any issues before submitting their tenders.

2. Vendors must submit tenders within the time specified.
3. Analysis of the submitted tender will be done by the Reserve Bank of Fiji.
4. Clarification of tender items, if necessary.
5. Awarding of tender.
6. Meeting with selected vendor regarding project delivery and preparation of the contract terms and conditions
7. Contract Signing.

11. PRICING

- All prices should be in FJD and VIP.
- Prices should be valid for 60 days (about 2 months).
- Retention of 10% will be held as per the warranty provided by the vender.
- Provisional Tax of 5% will be deducted for any contract over $1000 per annum.
- For overseas companies who does not have any office/business locally, 15% withholding tax will be deducted from contract amount.

12. TENDER SELECTION

Tender may not necessarily be awarded to the lowest bidder. The Bank, when analyzing the tender, will keep in mind the delivery and support services provided by the chosen company.

Annexure 1: Specification

1. Standby Diesel Generator Requirements

1.1. General Requirements

Supply, deliver, install, test and commission the industrial diesel engines direct coupled to the alternators and mounted on a common base frame and complete with all accessories. The generator set shall be installed where identified during the site visit. The generator set shall comprise the following main items:

a. Weather protected sound attenuated enclosure
b. Fuel oil system
c. Engine cooling system
d. Exhaust piping and silencers
e. Test and alarm facilities
f. All electrical and/or mechanical control and switchgear equipment is complete with wiring and all other work and equipment necessary to ensure the safe and efficient operation of the generating set.
g. Operation and Maintenance Manuals.

1.2. Environmental Conditions

a. Temperature – at any ambient temperature from 15 deg. C to 50 deg. C.
b. Humidity – Any relative humidity that may occur because of the atmospheric conditions on site, within the range of ambient temperatures given in "clause 1.2.a" above.
c. Altitude – The set shall operate at full capacity 300m above sea level.
d. Existing site conditions – The site is subject to extreme heat, humidity, and corrosion because of its location in a tropical and coastal environment.

1.3. Basic Requirements

a. Standard Products

The diesel alternator set, and associated component parts of the equipment shall be essentially the standard products of the manufacturer or his supplier, so that prompt and continuing service and delivery of spare parts may be assured. The manufacturer shall be represented by a competent agency in Fiji to facilitate regular preventative inspection, maintenance, and break-down service of the generator.

b. Materials and Workmanship

All materials and workmanship shall be of the best accepted standards for this class of equipment and shall be designed to give reliable service, subject to reasonable maintenance.

c. Mass and Size

Mass and size shall be kept to the minimum possible for this class of equipment.

d. Vibration

The diesel generator set shall operate with the minimum of vibration consistent with this class of equipment and shall have low out-of-balance forces.

e. Noise

The diesel generator set shall operate with the minimum of audible noise for this class of equipment because of the proximity to adjacent buildings. Noise levels of the diesel generator set including the ventilation system, shall not exceed the limits set down in Standard AS/NZS 1359.

f. Resistance to Natural Conditions

All components, particularly those of electrical, fuel, lubrication and exhaust system shall be of corrosion resistant materials or alternatively painted to withstand conditions set out in this Specification. The Generator Contractor shall allow to de-rust and repaint to the approved standards any corrosion on the enclosure of the generator during the Defects Lability period.

g. Painting

The generator set shall be painted in accordance with the Supplier's standard requirements considering the environmental conditions.

h. Vibration

The diesel generator set shall operate with the minimum vibration consistent with this class of equipment and shall have low out of balance forces.

1.4. Engine Requirements:

The engine shall be a diesel engine in accordance with Australian Standard AS 1359 and thoroughly reliable in the duties required. The engine shall be capable of continuously driving an alternator having an output of the specified rating. The engine shall be of the vertical type operating on the four-stroke principle at 1,500 R.P.M.

a. Rating

The engine rating shall be de-rated to comply with the specified operating conditions, including all due allowances for engine driven auxiliaries.

b. Governing Controls

The engine shall be fitted with an approved type of electronic governor.

c. Lubrication

The engine shall be equipped with a positive pressure system for lubrication to working parts.

There shall be no moving parts which require hand lubrication prior to starting the engine or whilst in operation.

Drain plug (s) shall be in accessible position (s) and extended by piping, as necessary. The oil shall not be drained into the oil drip tray. The Generator Contractor shall supply the first fill of lubricating oil.

d. Lubricating Oil Filters

Filters shall be of the full flow type and shall be capable of removing all foreign matter above a particle size of 10 microns.

Filters shall have replaceable elements.

e. Crank Case Breather

The crank case breather shall be fitted with a fine filter in the cap to prevent entry of dust into the sump.

f. Air Filter

Engine air intake shall be fitted with an efficient dry cartridge type air filter capable of functioning for prolonged periods between services.
Filters shall have replaceable elements.

g. The cooling System

The cooling system for the diesel engine shall consist of an approved engine coolant jacket circuit of the pressurised type. Provide low water level alarm indication and overheating on the generator control panel.

h. Generator Fuel Tank

The diesel generator set shall be supplied with base frame fuel tank with a capacity for approximately twelve (12) hours running. The tank shall be supplied complete with a content's indicator, fuel fill cap with breather, fuel feed and return lines to the engine and drain plug. The Generator Contactor shall supply the first fill of diesel oil at full capacity.

1.5. Engine Start and Protective Equipment

a. Engine Starting

The diesel generator set shall be on automatic start type with facilities for key starting or buttons.

b. Automatic Protective Equipment

The following protective equipment shall be provided

Overload

- The generator set shall stop on alternator overload or output failure.

High Jacket Coolant Temperature

- The engine shall stop if jacket water reaches a temperature which would be detrimental to the engine.

Low Lubricating Oil

- The engine shall stop on failure of lubricating oil pressure.

Over speed

- The engine shall shut down on occurrence of over speed.

Coolant Level

- The engine shall not start when the coolant level is low

1.6. Alternator

a. General

The alternator shall be of self-exciting self-regulating brushless design. The alternator shall be direct coupled to the respective diesel engine and mounted on a common base frame.

b. Ratings

The alternator and exciter shall have a standard rating of not less than 0.8 PF lagging, three-phase, four wire 415/240 volt, 50Hz

c. Automatic Voltage Regulator (AVR)

The AVR shall maintain the voltage within the limits of +/-1% from no load to full load including cold to hot variations at any power factor between 0.8 lagging and unity and inclusive of a speed variation of 5%

d. Insulation System

The insulation system shall be Class H.

e. Terminal Box

Alternator output and control terminals shall be enclosed in terminal boxes of adequate size suitable for top or bottom cable entry mounted in an accessible position on the alternator frame and marked in accordance with Australian Standard AS 1359.

Sealed covers shall give access to the terminals.

1.7. Wiring

Supply and install the following wiring:

a. Control and alarm wiring within the control panel.
b. All earthing conductors associated with this installation.
c. All wiring shall comply with the requirements of AS/NZS 3000.

1.8. Instruction plate

A plate shall be provided adjacent to the control panel giving brief instruction how to start, stop and attend to the set when operated manually.

1.9. Generator set control panel

A steel cubicle shall be provided to house all diesel engine control equipment, switching equipment and distribution equipment. The panels shall contain all equipment necessary for the fully automatic operation of the generator set.

The following indicators and control shall be incorporated for the generator set.

a. Safety Devices
   - Low lubricating oil pressure alarm shutdown and open circuit breaker.
   - High engine temperature alarm, shutdown, and open circuit breaker.
   - Overspeed alarm, shutdown, and open circuit breaker.

b. Instruments
   - Start pushbutton (located on engine).
   - Engine oil pressure.
   - Engine water temperature.
   - Amperage reading for the three phases
   - Voltage readings for three phase and single phase.
   - Frequency reading
   - Generator running hours
   - RPM

1.10. Testing

Supply the necessary test apparatus and materials, including fuel and lubrication supplies of the correct grades and carry out the specified tests on the complete generator set assembly including auxiliary systems and control panel.

a. Preliminary Trials

After completion of the installation on site and before carrying out main trials, preliminary trials shall be conducted in the presence of RBF personnel. Such trials shall include the checking and the adjustment of the crankshaft alignment (when cold), the insulation resistance of stator, rotor and exciter windings, and the air gap between each stator and rotor.

A check shall be made on effectiveness of the radio suppressors, the satisfactory operation of the exciters, hand-operated field rheostat and automatic voltage regulator, also, the satisfactory operation of all auxiliary motors and their starting and switching gear. Preliminary trials shall also include a check on the satisfactory operation of control equipment and all auxiliaries supplied with the set.

b. Commissioning Tests

Test run the completed installation and demonstrate that the installation, including components and equipment, operates correctly and meets the performance requirements under normal running conditions.

During commissioning perform the following:

- Confirm operation and setting for each equipment item
- Repeat the functional checks on the equipment
- Ensure that the phase rotation sequence is the same as the Energy Fiji Limited's connection.

Approval: Obtain approval before proceeding with commissioning tests.

Supply satisfactory evidence, in the form of certificates recording tests results, functional checks, calculations, and the like details showing that the generator set has met the test requirements.

1.11. Operational maintenance

a. Maintenance Period

Co-extensive with the Defects Liability Period.

b. Requirement

During the maintenance period:

- Carry out monthly inspections and perform maintenance work at the frequencies and following the procedures recommended by the generator set manufacturer
- Maintain the generator set in a condition to meet the specified performance
- Provide and maintain an anti-corrosion additive in the cooling system where necessary

- Promptly rectify faults. Replace faulty materials and equipment without charge

At the end of the maintenance period make a final service visit and upon satisfactory completion of the above procedures certify in writing that the installation is operating correctly.

Coinciding with the routine inspection visits instruct the RBF personnel the recommended methods of maintenance and control of the system.

1.12. Shop drawings

Provide manufacturer's drawings of the proposed generator set assembly.

Include the following information:
- Maximum overall dimensions of the generator set
- Maximum mass of the generator set
- Maximum mass of the generator set for transport
- Required access clearances around the generator set for operational maintenance and dismantling procedures
- Locations of terminals and fittings
- Recommended layouts of the complete installation

NUMBER OF COPIES: …...Two…...

1.13. As Installed Drawings

Before the Date of Practical Completion, provide As Installed drawings of the complete generating set assembly as installed, showing the final layout of equipment and accessories, and the route and location of interconnecting piping, exhaust ducts, wiring and the like.

NUMBER OF COPIES: …...Two…...

1.14. Manuals

Before commencement of operational instruction, provide the specified number of copies of a combined operator's manual and technical manual written in clear concise English, containing a title page listing the supplier's name, address and telephone number, a table of contents, and the following data:

Operator's Manual:
- Information necessary for the satisfactory long-term operation and regular maintenance of the installation
- Recommended maintenance periods and procedures
- Particulars of maintenance tools provided and instructions for their use

Technical Manual:
- Detailed technical description of each component or equipment items and its function, with diagrams and illustrations where appropriate
- Where necessary, procedures for dismantling and re-assembling the diesel generator set and ancillary equipment
- List the spare parts provided

- The As Installed drawings

FORM: A4 size, printed or typed on durable printing paper, each page consecutively numbered, and neatly bound in durable vinyl or similar hard covers.

NUMBER OF COPIES: …...Two…...

Prototype copy: Provide a prototype copy for approval before proceeding.

2. Testing and commissioning

2.1. General

This section of the specification covers the requirements for commissioning and acceptance tests for all the equipment and systems installed under this Contract.

The installation shall be tested to the satisfaction of RBF prior to the acceptance of the installation and the commencement of the Defects Liability Period.

The tests shall comprise a thorough inspection of the installation and the operational and performances tests.

All testing and commissioning shall be carefully preplanned and scheduled in order that they are fully co-ordinated with other relevant parties and shall be carried out in a safe and efficient manner with a minimum of inconvenience to all concerned.

The installation shall be tested progressively as the work is carried out then finally tested once it is completed to ensure compliance with the Specification, is mechanically and electrically safe and that it will operate correctly under normal, emergency and fault conditions. Control, protection and operative devices shall be checked for correct adjustment and rating.

All equipment or materials found to be faulty during testing shall either be replaced or repaired free of charge.

Should a trial or test be deemed unsatisfactory by RBF it shall be repeated at no further charge after necessary rectification, until such time as a satisfactory result is obtained.

2.2. Commissioning

Carry out all commissioning tests necessary to put the systems into use and for approval before Practical Completion is granted. Record all test results and include in the Maintenance Manual. Commissioning shall be carried out by specialists in the respective fields.

Each item of equipment individually and the complete system shall be checked and adjusted to achieve satisfactory performance.

Commissioning personnel shall be provided with preliminary copies of Maintenance Manuals and As Installed drawings to facilitate correct commissioning and for checking of Manuals and drawings for correctness.

2.3. Test Results

All test procedures used, and results obtained for both works and site tests shall be submitted in the form of a written Test Report.

Records shall be kept of test results and a copy shall be submitted to RBF at the completion of the work. Approval of the format required for the test results shall be obtained prior to the submission.

2.4. Notices

All tests required by the Energy Fiji Limited shall be completed in accordance with directions given by them. Copies of all approval notices including the 'Final Acceptance' notice shall be submitted prior to the claim for final payment.

3. Maintenance and Servicing

3.1. General

The Defects Liability Period will commence at the date of completion of all works required under this specification. The duration of the Defects Liability Period will be twelve (12) calendar months from the date of completion. An additional twelve (12) months defects liability may also apply, should this option be accepted, extending the Defects Liability Period to twenty-four (24) months from the date of completion.

This clause applies irrespective of the fact that such part or parts may have been previously accepted. The Generator Contractor shall warrant that all aspects of the Generator Services installation at the site, which RBF Representative has not otherwise accepted in writing, meet the requirements of this Specification. Any devices subsequently found that do not meet these requirements shall be treated as a defect and shall be rectified by the Generator Contractor as detailed below.

Within seven (7) days of the commencement of the Defects Liability Period, the RBF Representative will provide a list of defective items to the Generator Contractor. The Generator Contractor shall make good the defective items within twenty-eight (28) calendar days of the commencement of the Defects Liability Period. Defective items not rectified within the stated period will result in an extension to the Defects Liability Period equal to this delay as calculated by the RBF Representative.

During the Warranty Period, defined as the Defects Liability Period, the Generator Contractor shall undertake the following:

- Replace or make good any part or parts which may prove faulty in design, workmanship, or material.
- Rectify all faults and defects (hardware and software), which occur during the Defects Liability Period.
- Provide warranty of the entire electronic security and surveillance installation(s) including all parts, labour and peripheral equipment.

- Renew or modify any items of equipment and/or group of items and/or complete system that do not comply with the operating conditions and performance specified during the period of twelve (12) calendar months after the date of completion.
- Include for all labour and all incidental costs for the removal and replacement of defective parts or components.
- Perform the required works as instructed in writing within seven (7) days of such notices.
- Test all replaced items and show that the system operates as designed.

Failure to rectify defects found during the Defect Liability period will result in the RBF engaging others to finish the required works. The costs of these works will be deducted from payments owing or billed. At the end of the Warranty Period, the Generator Contractor shall pass on to RBF any remaining warranty from equipment manufacturers and/or suppliers. The Generator Contractor shall provide details of all warranties in the Maintenance Manuals.

3.2. Maintenance

Routine maintenance and servicing shall be carried out for a period of 12 months from the date of Practical Completion to the end of the Defects Liability Period. Routine maintenance shall be carried out monthly and emergency service shall be carried out on a 24 hour call out basis.

Maintenance procedures shall be as appropriate to ensure the safe and proper operation of all systems and shall be in accordance with current Standard requirements of the Building Act and Regulations having authority, relevant Australian Standards, Local Authority Regulations, and the schedule provided in the Installation Manual as outlined in Section 2 ‘Testing and Commissioning’ of this Specification. The Generator Contractor shall provide all miscellaneous materials required in carrying out the works. A copy of the monthly service sheets is to be posted to the RBF within a week of the work.

Routine maintenance shall be deemed to be the regular maintenance of equipment and shall include not less than:

- Checking and replacement of faulty equipment and accessories as required within the Defects Liability Period.
- Checking the operation, performing maintenance, and setting and calibration of all control components.
- Checking the enclosure for the generator for any sign of corrosion. Corroded areas shall be de-rusted and repainted to the approved standards.
- Maintaining a dated record of servicing performed on each system in a service logbook record book to be retained under RBF’s control on site.

The last maintenance visit prior to the end of the Defects Liability Period shall be a major visit for complete service. RBF shall be advised of the proposed service program for the last major visit not less than one (1) week prior to the date of the proposed last visit so that a representative may be present during the service.

3.3. Rectification of Defects

All defects shall be promptly rectified. Retention moneys or Bank Guarantee will not be released until all outstanding defects notified during the Defects Liability Period have been rectified and completion of such work subsequently advised in writing to the approving Authority.

3.4. Service Logbook

Provide a logbook bound in an approved hard cover folder and containing sufficient pages to record all operational maintenance during the defects liability period. Provide a fixed holder in an approved location for the logbook.

Record in the logbook all maintenance work performed. Each log sheet shall be signed by the Serviceman responsible and shall include the date and description of work carried out. All log sheets must be countersigned by an RBF representative.

The front cover of the logbook shall be labelled with the name of the project and shall clearly note that each sheet must be countersigned. Inform the Maintenance staff and supplier′s Serviceman on the correct use of the logbook.

3.5. Defects Liability

The Defects Liability Period shall be 52 weeks from the date of Practical Completion.

During the Defects Liability Period the Generator Contractor shall be responsible for the provision of all labour, materials and other costs associated with the removal of defective components, bad workmanship and the installation, adjusting and testing of replacements and to carry out such work within a reasonable time.

Equipment replaced or repaired during the warranty period shall be provided with a warranty of 52 weeks commencing from the date of replacement or repair.

Warranty maintenance for the replaced or repaired equipment shall be limited to the 52 weeks from the date of Practical Completion.

3.6. Certification

Prior to the end of the Defects Liability period, make a final service visit and upon satisfactory completion of the above procedures certify in writing that the installation is operating correctly.

Annexure 2: Trade Summary

Below is the Trade Summary which all vendors are required to fill.

Name of the Company: _____

Workmanship Warranty: _____ Warranty on Items: _____

Period of the Entire Project: _____

Summary of Tender:

No.	Description	Project Cost (VIP)
1.	Preliminary and General.	
2.	Remove existing generator, ATS, and wiring accessories.	
3.	Supply one of 75KVA standby rated diesel generator enclosed set completed with weatherproof acoustic surround and removable panel doors.	
4.	Installation one of 75KVA 415V 50Hz standby rated diesel generator enclosed set	
5.	Supply Automatic Transfer Switch (ATS)	
6.	Installation of generator ATS	
7.	Supply and install strobe light to indicate generator is running.	
8.	First fill of diesel at full tank capacity	
9.	Supply and installation of stainless exhaust system (including support system for exhaust)	
10.	All other items are not included above. (please specify)	
11.	Supply of Shop Drawings	
12.	Testing and commissioning.	
13.	Supply of As Installed Drawings.	
14.	Supply of Installation Manuals.	
15.	Twelve (12) months Maintenance.	
	Total Tender Price (VAT exclusive) FJD	
	VAT at 15%	
	Total Tender Price (VAT Inclusive) FJD	

Summary of Schedule Rates:

The following Schedule rates shall be used as a basis to value variation and progress claims for this contract include all overheads profit:

No.	Position	Unit	Price
1.	Licensed Technician (Generator Services)	Per hour	
2.	Technician (Generator Services)	Per hour	
3.	Licensed Electrician	Per hour	
4.	Electrician	Per hour	
5.	Unskilled Labour	Per hour	
	On cost Percentage Mark-ups		
	a. Labour		%
	b. Materials		%
	c. Plant		%

Summary of Technical Data

1. **Diesel Generator Set**

   Manufacturer: ……

   Model Number: ……...

2. **Automatic Transfer Switch**

   Manufacturer: ……

   Model Number: …….

Tender Checklist:

The following Tender Checklist shall be used to verify all required information when submitting the tender price.

ITEM	DESCRIPTION	YES	NO
1	TRADE SUMMARY		
2	SCHEDULE RATES		
3	SUMMARY OF TECHNICAL DATA		
4	TENDER CHECKLIST		
5	TIME OF COMPLETION OF THE PROJECT IN CALENDAR WEEKS PROVIDED		
6	TENDER VALIDITY FOR 60 DAYS		
7	PROVIDE PRODUCT DATA SHEETS		
8	WORKING HOURS FOR THIS PROJECT PROVIDED		
9	WARRANTY STATED		
10	PAYMENT TERMS ON A PROGRESS BASIS ALLOWED FOR		
11	CLIENTETE LISTING AND CONTACTS		
12	ADMINISTRATIVE REQUIREMENTS		