

REFERENCE OF TENDER	DESCRIPTION OF TENDER	TIME PERIOD OF TENDER	DEPARTMENT/ DIVISION/UNIT REQUESTING TENDER	FEES	CLOSING DATE NOT LATER THAN 2.00PM	FOCAL PERSON
KK/188/2025/JPK(TC)	<p>THREE YEARS TERM CONTRACT FOR COMPREHENSIVE MAINTENANCE AND REPAIR OF GENERATOR SET AT SERIA HEALTH CENTRE, SUNGAI LIANG HEALTH CENTRE AND SUKANG HEALTH CENTRE, KUALA BELAIT</p> <p><b><u>Eligibility for Tenderers:</u></b> Registered with Ministry of Health and Ministry of Development [Kontraktor yang pakar dalam menyediakan perkhidmatan penyelenggaraan set penjana (Generator Set) dan berdaftar dengan kementerian kesihatan layak untuk menyertai jemputan tender ini]</p> <p><b>Class :</b> II and Above <b>Category :</b> M03, E01, E02 DAN KPME03</p>	3 years	Department of health services	\$10.00	22 <sup>nd</sup> July 2025	<p>Suriana binti Haji Daud Pemangku Ketua Pengurusan Estet Hospital Suri Seri Begawan, Kuala Belait Negara Brunei Darussalam Contact No: 3335331 ext 3276 email: suriana.daud@moh.gov.bn</p>

**TENDER REFERENCE NO.: KK/188/2025/JPK(TC)**

**MINISTRY OF HEALTH  
NEGARA BRUNEI DARUSSALAM**

**THREE YEARS TERM CONTRACT FOR COMPREHENSIVE  
MAINTENANCE AND REPAIR OF GENERATOR SET AT  
SERIA HEALTH CENTRE, SUNGAI LIANG HEALTH  
CENTRE AND SUKANG HEALTH CENTRE, KUALA BELAIT**

**TENDER FEES : \$10.00**

**RECEIPT NO. :**

**CLOSING DATE : ON TUESDAY, 22nd JULY 2025**

**TIME : 2.00 PM**

**FOA :**

**THE CHAIRMAN  
MINI TENDER BOARD, TENDER BOX  
GROUND FLOOR, MINISTRY OF HEALTH  
COMMONWEALTH DRIVE  
BANDAR SERI BEGAWAN BB3910  
NEGARA BRUNEI DARUSSALAM**

**(CLUSTERING)**

## SECTION 2

### SPECIFICATIONS

REF. NO.: KK/188/2025/JPK(TC)

**INVITATION TO TENDER  
THREE YEARS TERM CONTRACT FOR COMPREHENSIVE MAINTENANCE AND REPAIR OF  
GENERATOR SET AT SERIA HEALTH CENTRE, SUNGAI LIANG HEALTH CENTRE AND  
SUKANG HEALTH CENTRE, KUALA BELAIT**

### SCOPE OF WORKS

#### **1. GENERAL**

- 1.1 Tenderers are sought from suitably qualified contractors who wish to be considered for the comprehensive maintenance and repair (hereinafter referred to ("Maintenance Services")) of Generator Set as set out in **Schedule I – List of Equipment**, Ministry of Health for a duration of Three (3) years.
- 1.2 The Contractor shall provide Maintenance Services for the system inclusive of all necessary spare parts and replacement parts ensure that the system is kept in good working order and condition and functioning efficiently within the manufacturer's specification. The Maintenance Services consist of:
- Preventive Maintenance
  - Corrective Maintenance
- 1.3 All prices to be quoted shall include labor, parts and transport charges.
- 1.4 The tenderer shall also ensure that technical services shall be available twenty-four (24) hours a day for the convenience of the Government to provide assistance for any emergency service. In the event that any attended calls are made during the preventive maintenance period, there shall not be any charges for the replacement of parts.

#### **2. MAINTENANCE SERVICES**

##### **2.1 PREVENTIVE MAINTENANCE**

- 2.1.1 Scheduled or routine preventive maintenance, which includes testing and inspection, on the system shall be performed during Government working hours (07.45 am – 12.15 pm and 01.30 pm – 04.30 pm).
- 2.1.2 Preventive maintenance shall be performed in accordance with the maintenance schedules set out in **Schedule 'II' – Plan Preventive Maintenance Schedules (PPM)** recommended by the manufacturers' service manuals.
- 2.1.3 Although the maintenance schedules may not include instructions for every component of each item of the equipment, the Tenderer is expected to carry out the usual maintenance process in accordance with the normal trade practices and to meet specific requirements of the respective equipment's manufacturer's recommendations.
- 2.1.4 The frequencies of the preventive maintenance may be adjusted by mutual agreement, to suit the duty and conditions of operation of the system's equipment.
- 2.1.5 Where follow – up work is considered necessary and involves further repairs the Tenderer shall notify the Superintendent Officer of the extent of the repairs before proceeding with the work.
- 2.1.6 The Tenderer shall ensure that downtime of any of the equipment within the system is kept to

a minimum. The maximum period for which any equipment to be continuously out-of service shall be **One (1) day**. A penalty of **B\$100.00 per day** shall be imposed if the said time period is exceeded and that, it is in the opinion of the Superintendent Officer, the system ought reasonably to have been put back to service.

- 2.1.7 The tenderer is also required to submit monthly report covering details of periodic inspection servicing and repairs. The monthly report shall include, but not limited to, a log showing time when fault notice was received, nature of fault, time when rectification works was initiated, actual time taken for repair, materials and parts used.

## **2.2 CORRECTIVE MAINTENANCE**

- 2.2.1 Corrective Maintenance shall be performed at **ANY TIME (inclusive of public holiday)** upon notification by the Superintending Officer or his representative.
- 2.2.2 The Tenderer shall dispatch his competent mechanics/technician to a site specified by the Superintending Officer or his representative within 30 minutes (hereinafter "Response Time") after being notified in writing or telephone that a fault is reported via a "Service Call Slip" which the Tenderer shall collect prior to commencing the repair or replacement works. This Service Call Slip must be certified by the Superintending Officer or his representative with an official stamp, time in, time out and date.
- 2.2.3 If the response Time is exceeded, a **penalty of B\$50.00 per hour** upon the Tenderer for every hour or part thereof that the Response time is exceeded.
- 2.2.4 The mechanics/technician shall complete any repair or replacement of parts within seven (7) days from the time the mechanics/technician arrives at the specified site. A **penalty of B\$100.00 per day** shall be imposed if the said downtime is exceeded and that, it is in opinion of Superintending Officer, the system ought reasonably to have been put back to service.
- 2.2.5 Any breakdown report(s) shall be forwarded to the respective Estate Management Section on the next working day of approval of EMS's Superintending Officer.

## **2.3 ADDITIONAL SERVICES**

- 2.3.1 The Tenderer shall service the existing panels such as tightening the cable, terminations, replacement of fused indicating lights, faulty meters, tidying up the internal wirings, relays, components and boards.
- 2.3.2 The Tenderer is also required to provide necessary protection against the existing plants and equipment in the adjacent working areas while carrying out the Maintenance Services.

## **3 SPARE PARTS**

- 3.1 The Tenderer shall maintain sufficient spare parts which are commonly used to ensure and enable all preventive maintenance to be carried out and to replace any parts which may reasonably be expected to be needed due to breakdown.
- 3.2 The Tenderer shall submit a price list of all parts or item as listed out in **Schedule III – Schedule of Rates**. This list shall be inclusive of all duties, taxes, labour charges, transport charges and maintained for five years.
- 3.3 Tenderer shall remove and replace any parts supplied which are damaged, defective or do not meet the respective specification. Failure to do so within the **stipulated time** by the Superintending officer may result in the removal of the part/s by the Superintending Officer and replaced by others. The Government reserves the right to recover all costs and expenses incurred for such removal and replacement.
- 3.4 A grace period of **two (2) weeks** for repairs which are outstanding due to unavailability of spare parts or awaiting spare parts, after which penalty of **B\$100.00 per day or part thereof**

shall be imposed. A written notice will be given to the Tenderer seven (7) days prior to expiry of the grace period and start of the penalty.

- 3.5 If, in the opinion of the Superintending Officer, any of the parts supplied are not in accordance with the specifications, the Superintending Officer reserves the right to submit the part/s to expert examination and/or test. All costs in connection therewith shall be done by the Tenderer unless such examination and/or test show that the said part/s is/are in accordance with its specification/s.
- 3.6 The service engineer shall complete any repair or replacement of parts within fourteen **(14) days** from the time the service engineer arrives at the site.
- 3.7 The contractor shall supply all replacement part, spare parts and materials necessary for the proper operation, routine preventive maintenance and breakdown repairs of the system.
- \* These shall be genuine parts and materials approved by the system manufacturers and where new parts or materials are to be used, the Superintendent Officers approval shall be in advance.
- 3.8 The contractor shall give (9) months warranty period to all replacement parts and repair after complete works done

#### **4 PERSONNEL**

- 4.1 To ensure the proper and efficient execution of the maintenance services, the Tenderer shall provide and employ qualified and competent workers to perform the Maintenance Services as follows:
- One (1) registered Engineer
  - One (1) registered technician/supervisor
  - Two (2) tradesmen
- 4.2 Failure to provide the required personnel to carry out the Maintenance Services will result in an imposition of the following charges:
- Engineer - **B\$100/day**
  - Supervisor/Technician - **B\$75.00/day**
  - Tradesman - **B\$50.00/day**
- 4.3 The Tenderer shall ensure that such personnel are properly trained and employed (if they are employed outside of Brunei Darussalam) by the Tenderer throughout the three years duration.
- 4.4 The Tenderer is required to submit a list of names, addresses, qualification, experiences and other relevant information that the Superintending Officer may require, of all persons that shall be employed for the performance of the Maintenance Services in the format set out in Section 3 of this invitation to Tender. Any amendments made to the list shall be submitted in writing within five (5) days upon knowledge that any person has been added or deleted from the list during the three-year duration.
- 4.5 The superintending Officer reserves the right to remove, reject or replace any persons employed by the Tenderer, who in the opinion of the Superintending Officer is not competent to execute the maintenance Services and shall direct the tenderer to replace such person/s.
- 4.6 All personnel employed by the Tenderer shall be neatly and properly attired in uniforms and equipped with proper tools and safety equipment to enable them to carry out their work safely, accurately and without any risk of causing damage to the system or any of the building at respective Kuala Belait Health Centres.

#### **5 INSURANCE**

- 5.1 The Tenderer shall warrant that he will maintain at his own expenses, comprehensive general

liability, errors and omissions, worker's compensation, public liability, property damage and automobile liability insurance. The Tenderer shall note that all insurance should cover throughout the contract period of three (3) years and, any approved extension of time.

## **6 LOG BOOKS AND REPORTS**

- 6.1 A record of the work done on each maintenance visit for each location in **Schedule I** shall be noted in a log book by the Tenderer.
- 6.2 The log book must show the date, time and duration of work performed; a description of work performed and the name of the Tenderer's personnel responsible for performing the work.
- 6.3 Completion of the maintenance visit shall be affixed via the technician's signature and shall be confirmed in writing by the Superintending Officer or his representative.
- 6.4 The log book must be available for inspection by the Government at any time.
- 6.5 The Tenderer shall also submit Maintenance Service Reports in a format acceptable the Government and shall include the following information.
- Reference number of any equipment of the system;
  - Job number;
  - Date of completion of job;
  - Date, time and total time any equipment of the system is made unavailable to the Government;
  - Name of Tenderer's technician/personnel responsible for carrying out the job; and
  - Comments of the person requesting the Maintenance Services.
- 6.6 Any verbal reports made by the EMS on any breakdown shall be made available to the Superintending Officer or his representative within twenty-four (24) hours of receiving the complaint. Such report must state the nature of the fault, work done and whether any further work is required.

## **7 EQUIPMENT AND TOOLS**

- 7.1 The Tenderer shall insure that all technicians working on site are equipped with adequate equipment and/or tools to enable them to carry out their work safely, accurately and without risk of causing any damage to the system or any of the buildings. Such equipment and tools include but are not limited to the following:
- Multitester
  - Insulation Tester
  - Test pin
  - Fuse
  - General Tool kit

## **8 CONTRACT PRICE AND PAYMENT**

- 8.1 The tenderer shall quote the cost of an annual service contract which shall consist of the maintenance services charges and the cost of parts replaced (if any), upon receipt of:
- Three (3) copies of invoice;
    - 1 Original invoice
    - 1 Duplicate invoice
  - Service call Slip; and
  - A detailed Maintenance service Report
- 8.2 The tenderer shall submit the invoice of the previous month **within first week of the following month**. All claims shall be addressed to respective:

***Head of Estate Management Section  
Estate Management Section  
Belait District  
Negara Brunei Darussalam***

- 8.3 Payment will be made within forty-five (45) days after submission of the invoice and other related documents, subject to any deduction under the Contract and satisfactory certification by the Government during the preceding month.

**9 USE OF SITE**

- 9.1 The contractor shall not use the site for any purpose other than that of carrying works in connection with the performance of the contract.
- 9.2 The contractor shall at all times keep the site clear and free from all surplus materials, rubbish, debris arising from the execution of the works and shall keep the site in a clean condition.

**10 TWO-WAY RADIO FOR COMMUNICATIONS**

The contractor shall provide (4) numbers of two-way radio communications (walkie-talkie) OR other approved equivalent alternative type of effective communication for use of the S.O. and his staff as mean of communication. All charge associated with commissioning, licensing and maintenance shall be borne by the contractor.

**11 HEALTH AND SAFETY, PRECAUTION AGAINST CONTROL**

The contractor shall provide all necessary measure, comply with all occupational health and safety regulations and rules that are force, and comply with all orders and instructions given to him from time to time by the Superintending Officer in regard to occupational health and safety persons in the vicinity of the site and including safety and other regulation in force in the Hospital/Health Centre/Clinics and any requirements of local Authority and/or Public Service Authority. No claim by the contractor for additional payment shall be allowed on the grounds of any misunderstanding or misinterpretation due lack of knowledge of these conditions, regulations and requirements.

RATES OF MAINTENANCE VISIT

ITEM NO.	LOCATION	QTY	MAKE		CAPACITY (KVA)	TASK A (MONTHLY)		TASK B (QUARTERLY)		TASK C (6 MONTH)		TASK D (ANNUALLY)	
			ENGINE	ALTERNATOR		Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
1.	SUKANG HEALTH CENTRE	1	CUMMINS		38								
2.	SUNGAI LIANG HEALTH CENTRE	1	CUMMINS		150								
3.	SERIA HEALTH CENTRE	1	VOLVO PENTA		200								
	TOTAL BROUGHT FORWARD TO THE SUMMARY OF PRICES												

SCHEDULE I

LIST OF EQUIPMENT AND SITE LOCATION

**SCHEDULE NO. 1**

**SCHEDULE OF EQUIPMENT AND RATES FOR MAINTENANCE VISIT PER EQUIPMENT**

(TO CARRY OUT MAINTENANCE CHECK AND SAFETY INSPECTION AS DETAILED AT  
APPENDIX I AND II)

## **SCHEDULE II**

### **PLAN PREVENTIVE MAINTENANCE SCHEDULE**

#### **SCHEDULE II: FREQUENCY**

##### **1.0 General**

The maintenance schedule under this contract has been classified generally into four (4) categories as follows:

- a) Monthly Maintenance (class A task)
- b) Quarterly Maintenance (class B task)
- c) Every 6 Month Maintenance (class C task)
- d) Yearly Maintenance (class D task)

##### **2.0 Plant Room**

The plant room shall be maintained in a clean and tidy at all the times (inclusive of the external valve chambers) and no waste or scrap materials are to be allowed to accumulate. No items will be stored in any plant room unless specifically required for a task within said plant room. Plant rooms are to be locked after each visit.

##### **3.0 Stand-by Plant**

Where stand-by unit is installed, the unit shall be changed over each month in order that the stand by unit becomes the duty unit and its operating performance can be checked. This will also ensure that all plant items are subjected to equal working times.

##### **4.0 Service Report**

Service reports shall be submitted to the S.O. within two working days at a service being carried out. The service report is to show full detail of the service and is to state the exact condition of the machine inspected. Any defects found during the inspection are to be clearly described on the service report.

##### **5.0 Maintenance Schedule List**

The list of maintenance schedule is outlined in schedule of equipment. The contractor shall adhere closely to the procedures for the scheduled maintenance in the systems. The list is by no means exhaustive and has intended to serve as an essential guide and the contractor shall have engaged competent specialists familiar with the nature of works and prepare such procedures and maintenance programs wherever necessary for the proper execution of the works. These procedures and maintenance programs are to be properly formulated and prepared for the engineer's comments and approval within fourteen (14) days upon award of the total maintenance service contract.

##### **6.0 StandBy Generator & Mechanical System**

The procedures compiled below are intended only as a guide and cover only the MAJOR equipment used in the system. All related system components which are not listed below should be maintained.

##### **7.0 Engine, Radiator and Alternator.**

The maintenance schedule shall be in accordance to the manufacturer's recommendations.

##### **Cooling and Air Intake**

- a) To be checked for any water leak, hose and any connection at the cooling system.
- b) To be checked air intake and air cleaner, when necessary change air cleaner element.

##### **V-Belt Drive**

- a) To be checked for the correct tension and signs of wear.
- b) Tension to be adjusted where necessary

**NOTE:** Do not tighten V-Belts. As a guide V-belt tension should be 19mm to 32mm deflection. If in doubt, please refer to manufacturer's guidelines.

- c) Worn belts to be reported.

#### **Pulley**

- a) To be checked for the secure fixing and if found loose to be tightened. Misalignment of pulley is indicated by excessive wear on one side of the drive belts.
- b) Alignment of pulleys to be checked and adjusted as necessary. Using either a straight edge or string line.

**NOTE:** After adjustment, re-check tension of V-Belts.

#### **Motor and Fan Bearings**

- a) To be checked for wear, noise and lubrication. For instance, the average life of the maintenance free bearings of lithium base grease used.
- b) Lubricate bearing if dry.

**NOTE:** Do not over lubricate. Failed bearings that are over lubricated will be replaced at the contractor's expense.

- c) Noise / wear to be investigated and reported. If found to be severe, unit should be left switched off and reported immediately.
- d) Shaft couplings if fitted to be checked for wear and secure fitting.

#### **Fans and Fan Housing**

- a) Fan blades to be inspected for any signs of damage, looseness and reported if found.
- b) To be checked for secure fitting.

#### **Electrical Connection**

- a) To be checked for damage or looseness, repair or tightened as required. Record readings of motors running current.
- b) Clean any dust build-up on fan motor.

#### **Condense**

- a) Trays, pans and drain lines to be cleaned as necessary.
- b) Check for water leaks, damage to pan, drain line and repair or report.

#### **Insulation**

- a) Internal and external to be checked for damage and looseness. Fix back or report

#### **Panels**

- a) To be checked for secure fixing.
- b) Replace any missing screws.
- c) Check panel seals and report if leaking.

#### **Damages or Corrosion**

- a) Check wire brush and repaint damaged areas with red oxide paint / cold galvanizing and other with two (2) layer of finishing coats. Report any damage.

#### **Cleanliness**

- a) Keep plant room and the external surface of the equipment clean and tidy.

**8.0 Monthly Maintenance (Class A tasks)**

- a) All items listed under monthly Maintenance (Class A Tasks and Schedule in Appendix I).

**9.0 Quarterly Maintenance (Class B Tasks)**

- a) All items listed under Quarterly Maintenance. (Class A Tasks and Schedule in Appendix 1 & II)

**10.0 6 Month Maintenance (Class C Tasks)**

- a) All items listed under monthly and quarterly Maintenance (Class A & B Tasks and Schedule in Appendix I & II).
- b) Change all V-belts.
- c) Dry base of unit and paint internally with anti-rust paint or coating as per manufacturer's guidelines.

**Electrical Panel**

- a) Random check of electrical connection for damage and security retighten as necessary or report.
- b) Check control operation.
- c) Check for noisy contactors
- d) Check timer and change over relays and overloads and record settings.
- e) General cleaning of electrical panel.
- f) Electrical connections to be checked for damaged and looseness. Repair or tighten as required. Record motor running amps.

**11.0 Yearly Maintenance (Class D Tasks)**

- a) All items listed under weekly and monthly Maintenance (Class A, B, C and Tasks and Schedule in Appendix I & II).
- b) Motor. Clean vents as necessary.
- c) Electrical Connections. To be checked for damaged and looseness. Repair or tighten as required. Record motor running amps.

**MAINTENANCE SERVICING CHECK LIST**

Clinet Department : \_\_\_\_\_ Engine Model : \_\_\_\_\_  
 Location : \_\_\_\_\_ Alternator Model : \_\_\_\_\_  
 Quarterly Servicing No. : \_\_\_\_\_ Date : \_\_\_\_\_

S/N	ENGINE	REMARKS
1	Checks engine oil level. Top up if engine oil is low	
2	Check lube oil filter	
3	Check fuel oil filter	
4	Check tension of V-belt. Adjust if necessary	
5	Check condition of V-belt. Replace if damage or worn out.	
6	Check air filter. Change or clean if necessary.	
7	Check leakage for fuel pipes to engine. Tighten if necessary.	
8	Check fuel pump.	
9	Check lube oil cooling pipes. Tighten if necessary.	
10	Check water temperature switch. Replace if damage.	
11	Check lube oil pressure switch. Replace if damage.	
12	Check starter motor connection. Tighten if necessary.	

S/N	RADIATOR	REMARKS
1	Check radiator water level. Top up if level is low.	
2	Check radiator leakage.	
3	Check cooling water pipes connected to engine. Tighten if necessary	
4	Check tension of V-belt. Adjust if necessary	

S/N	ALTERNATOR	REMARKS
1	Check alternator to engine flywheel housing securing bolts. Tighten if necessary.	
2	Check alternator guard. Tighten if necessary.	
3	Check inside of alternator if necessary.	
4	Check connection on terminal box of alternator. Tighten if necessary.	

S/N	SKIDBASE	REMARKS
1	Check engine holding down bolts. Tighten if necessary.	
2	Check alternator holding down bolts. Tighten if necessary.	
3	Check radiator holding down bolts. Tighten if necessary.	
4	Check spring isolator mounting bolts. Tighten if necessary.	

S/N	BATTERY	REMARKS
1	Check battery condition	
2	Check battery water level. Top up if water level is low.	
3	Check battery terminal connection.	
4	Clean and grease battery terminal.	

S/N	DAILY FUEL TANK	REMARKS
1	Ensure all valves are open	
2	Check for leakage	
3	Check fuel oil capacity. Top up if fuel level is low.	

S/N	AMF PANEL	REMARKS
1	Press lamp test button, check for bulb blow. Replace if necessary	
2	Check damage or crack on all indicating meter. Replace if necessary.	
3	Check all wiring connection. Tighten if loose.	
4	Check all fuses. Replace if necessary.	
5	Check inside of AMP panel. Clean if necessary.	
6	Check battery charger condition.	

S/N	START UP CHECK (AMF PANEL)	REMARKS
1	Ensure selector switch is at 'manual' and breaker is at 'Off' mode and 'Start' the gen-set	
2	Check all meters for functionally.	
3	Check battery charger for malfunction.	
4	Test protective device for high water temperature trip.	
5	Test protective device for low lube water temperature trip.	
6	Test protective device for over speed trip.	
7	Test protective device fail to start.	

S/N	START UP CHECK (GENERATOR SET)	REMARKS
1	Check for lube oil leakage.	
2	Check for water leakage.	
3	Check for fuel leakage.	
4	Check for abnormal running sound from turbo-charger.	
5	Check for excessive vibration.	
6	Check for governor linkage.	
7	Check AVR voltage stability.	
8	Check for dark exhaust smoke if any.	
9	Continue gen-set running for 15 minutes.	

S/N	STANDBY CHECK (AMF PANEL)	REMARKS
1	Ensure selector switch is at 'Auto' and breaker is at 'On' mode.	

Contractor / Company Name

Confirm and Accepted by

.....  
Service Engineer / Technical.....  
Client Department Representative

Print Name : .....

**SPECIFICATION FOR PAINTING****1. WORKMEN**

- 1.1 None other than skilled workmen are to be employed, except apprentices and laborers. A properly qualified foreman is to be constantly on the job whilst the work is proceeding.

**2. SCAFFOLDING**

- 2.1 All the necessary scaffolding, tools and appliances and everything else required for the execution of the work are to be supplied by the contractor.

**3. FITTINGS**

- 3.1 All metal fittings as directed by the MWSS are to be removed before the preparation processes are commenced, cleaned and re-fixed in position on completion to the satisfaction of the ESTATE MANAGEMENT SECTION.

**4. DUST SHEET**

- 4.1 Clean dustsheets are to be provided for the adequate protection of floors, fixtures and surfaces not to be painted.

**5. MATERIALS**

- 5.1 All paints described in this specification are to be the products of **Imperial Chemical Industrials (ICI)** or equal and approved manufacture.

**6. MIXING**

- 6.1 All paints shall be thoroughly mixed before use, unless there is a specific instruction to the contrary by the manufacture on the container, e.g. "do not stir".

**7. THINNING**

- 7.1 Paints shall not be thinned without specific approval, but when necessary, thinning shall be carried out with the type of thinner and in the proportions recommended by the manufacturers of the paint.

**8. COLOURS**

- 8.1 All colors and finishes are to be selected or approved by the ESTATE MANAGEMENT SECTION. No consecutive coats of paint are to be of the same shade except in the case of white. Where doubt exist appropriate alternative shades should be ascertained from the manufacturer.

**9. PREPARATION**

- 9.1 Generally. All loose and flaking paint shall be removed by means of an approved chemical paint remover, scraping or wire brushing as approved by the ESTATE MANAGEMENT SECTION.
- 9.2 Metal work. All sound paints shall be cleaned with white spirit if greasy or detergent and water if dirty. Corroded areas shall be cleaned to bare metal by wire brushing and / or abrasion and cleaned with white spirit followed as quickly as is feasible by the specified primer. The first protective coat shall be applied as soon as the primer is hard dry not withstanding paragraph 11 below.

- 9.3 Cement render and screeds. Loose and defective paint, efflorescence, fungi, lichen and moss shall be removed by wire brushing. All loose, weak and defective and screed shall be hacked off and replaced by similar or suitable material approved by the ESTATE MANAGEMENT SECTION. Large cracks shall be cut out with edges undercut and filled with the same, fine cracks shall be filled using an approved proprietary exterior quality filler. All repaired work shall be allowed at least **two weeks** to dry prior to the application of emulsion paint and **one month** before application of oil or epoxy paint.
- 9.4 Additional specific preparation processes shall be carried out as detailed in the painting schedule.
- 10. APPLICATION**
- 10.1 All materials are to be applied in accordance with the manufacture instructions and normal good practice. Surfaces must be free from condensation and dusted or wiped with a tack rag to ensure freedom from dust or dirt.
- 11. INSPECTION**
- 11.1 Painting shall not be started until the preparatory work has been completed to the satisfaction of the EMS. No subsequent coat shall be applied until the previous coat has hardened and been similarly approved except insofar as is necessary to comply with manufacturers specific recommendation as to the correct interval between coats. No paint shall be applied to a material having excessive moisture content.
- 12. PRIMED SURFACES**
- 12.1 Exposed primed or undercoated surfaces shall not be allowed to deteriorate before final coating.
- 13. CLEARING UP**
- 13.1 All spills and spots of paint shall be completely removed from unpainted surfaces. All rubbish shall be cleared frequently. All glass shall be cleaned and overlapped paint brought to a clean straight edge. The contractor shall make good at his own expenses any damage to the structure, glass, decoration equipment or fittings resulting from his operations, and shall leave the premises and equipment and fittings clean and fit for operation.

## PAINTING SCHEDULE

SURFACE	PREPARATION (See Legend)	PRIMER	UNDERCOAT	FINISHING COATS
Metal	1	Dulux grey Green chromate Metal primer	Dulux speed undercoat	2 x dulux gloss
Galvanised metal	1 & 2	Dulux green Green chromate Metal primer	Dulux speed undercoat	2 x dulux gloss
Rendered walls	3	Dulux alkali Resistant wall Primer sealer	Dulux speed undercoat	2 x ICI Pentalite emulsion paint
Concrete screeds	3	Million no. 1A Concrete Primer	Retan no. 2000 undercoat	1 x Retan no. 2000 enamel

### **Legend**

1. See paragraphs 9.1 and 9.2 of specifications.
2. 1 coat of ICI long life etch primer before application of grey green chromate metal primer.
3. See paragraphs 9.1 and 9.3 of specification.

### **SCHEDULE III**

#### **SCHEDULE OF RATES**

##### **Notes for Completion of the Schedule of Rates**

1. The attached schedule is to be fully completed by the tenderer. Any omissions may render the tender inadmissible.
2. The prices offered by the tenderer in the schedule of rates for supply and fix items are to be fully inclusive at all costs to carry out each item as detailed, i.e. transportation, de-mounting of unserviceable items, purchase of spares, installation etc. no additional claims for costs however incurred, by the Tenderer in respect of Schedule of rates prices will be accepted.
3. The prices offered by the tenderer in the schedule of Rates of monthly. Quarterly and yearly maintenance to be fully inclusive of all cost necessary to carry out the maintenance and servicing of the complete equipment/ system detail as per Appendices inclusive of all the associated components and accessories of the equipment / system which may not be tabulated out as such in the Appendices.
4. Any additional schedule of rate will be agreed between the S.O. and the contractor.
5. The labour rates quoted for non-schedule item are to be fully inclusive of transportation costs, profit, etc.
6. The supply of spare parts not included in the schedule of rates will be priced. By the Tenderer at cost of supply to the Tenderer plus a percentage, as quoted, to cover all overheads, profit, etc

### 38KVA TO 100KVA GENERATOR

SOR No.	Description	Quantity	Rate	Amount
1	Oil Filter	1 No		
2	a. Fuel Filter b. Water Filter	1 No 1 No		
3	a. Air Filter b. Air Cleaner Set	1 No 1 No		
4	Injector Coup Servicing & Calibration	1 No		
5	Fan Belt	1 No		
6	Alternator Belt	1 No		
7	24V DC Relay	1 No		
8	240V AC Relay	1 No		
9	DC Relay Timer (0 - 30 sec)	1 No		
10	DC Relay Timer (0 - 15 sec)	1 No		
11	DC Relay Timer (0 - 10 sec)	1 No		
12	Starter solenoid	1 No		
13	Engine Governer	1 No		
14	315A Charger over contactor	1 No		
15	a. Automatic voltage regulator b. EFC with frequency adjustment	1 No 1 No		
16	a. Starter motor b. Starter c. Digital IDMTL earth fault realy curve 3/10 d. Digital IDMTL overcurrent realy extremely inverse	1 No 1 No 1 No 1 No		
17	a. Fuel solenoid valve b. Fuel pump c. Water pump for cooling system d. Generator power relay	1 No 1 No 1 No 1 No		
18	Gasket rooker cover	1 No		
19	Thermostat and gasket, seal	1 No		
20	a. Oil pressure switch b. Manual hand pump c. Diesel hose	1 No 1 No 1 M		

### 38KVA TO 100KVA GENERATOR

SOR No.	Description	Quantity	Rate	Amount
21	Radiator water coolant	1 Litre		
22	a. Turbo charger b. 24V DC charger	1 No 1 No		
23	High temperature water hose	1 M		
24	Complete water pump unit	1 Set		
25	a. AVR card b. Auto start module (AMF) analog type c. Auto start module (AMF) digital type	1 No 1 No 1 No 1 No		
26	Lead acid battery N200	1 No		
27	Distilled water	1 Litre		
28	Neon indication lamp c/w cover and bulb	1 No		
29	<b>PUSH BUTTON</b> a. Start/Stop button b. Fault alarm reset button c. Lamp test button	1 No 1 No 1 No		
30	<b>SWITCHES</b> a. Selector switch b. Automatic transfer switch c/w manual bypass	1 No 1 No		
31	<b>METER</b> a. Ammeter b. Voltmeter c. HZ meter d. KW meter e. Under over voltage electronics device	1 No 1 No 1 No 1 No 1 No		
32	Fuses (any type, make or size) or MCB 1 pole (2A - 32A)	1 No		
33	To carryout top overhaul (comprehensive) including to disconnect and removal of existing defective parts and fix new spare parts and reconnection, testing and commissioning system and associated equipment etc. <b>a. CAPACITY RANGE 38KVA</b>	1 Set		
34	<b>CONSUMABLE ITEMS</b> To supply and top up diesel fuel price per liter including transportation, labour, safety, insurances & other related chargera. 1 drum / 159 literb. 200 gallon / 900 literc. 100 gallon /450 literd. 50 gallon / 225 liter	1 Liter1 Liter1 Liter1 Liter		
35	<b>TOP UP NEW LUBRICATION OIL (price per liter) WITH LABOUR CHARGES</b> a. 60 gallon / 270 liter b. 30 gallon / 135 liter	1 Liter 1 Liter		

# 38KVA TO 100KVA GENERATOR

SOR No.	Description	Quantity	Rate	Amount
	c. 10 gallon / 45 liter d. 5 gallon / 22.5 liter	1 Liter 1 Liter		
36	<b>THOROUGHLY FLUSH OUT LUBRICATION OIL SYSTEM (price per liter)</b> a. 60 gallon / 270 liter b. 30 gallon / 135 liter c. 10 gallon / 45 liter d. 5 gallon / 22.5 liter	1 Liter 1 Liter 1 Liter 1 Liter		
37	Contractor to dispute the use of water oil to the wasted area designated S.O	1 Lot		
38 A	SPARE PARTS AND ASSOCIATED EQUIPMENT CABLE, CABLE LUGS, GLANDS AND WIRING PVC INSULATED SINGLE CORE CABLE (ANY COLOR) PRICE PER METER a. 1.5mm <sup>2</sup> b. 2.5mm <sup>2</sup> c. 4.0mm <sup>2</sup> d. 6.0mm <sup>2</sup> e. 10.0mm <sup>2</sup> f. Battery termination flexible cable 70mm <sup>2</sup> c/w cable lugs and battery termination links	1 M 1 M 1 M 1 M 1 M 1 M		
B	XLPE/SWA/PVC Armour cable laid on G.S cable tray/ pvc cable duct/ underground c/w all termination. Price per meter, per cable lug & cable gland a. 10.0mm <sup>2</sup> x 1 core b. 16.0mm <sup>2</sup> x 1 core c. 25.0mm <sup>2</sup> x 1 core d. 35.0mm <sup>2</sup> x 1 core e. 50.0mm <sup>2</sup> x 1 core f. 70.0mm <sup>2</sup> x 1 core g. 95.0mm <sup>2</sup> x 1 core	1 M 1 M 1 M 1 M 1 M 1 M 1 M		
C	a. 10.0mm <sup>2</sup> x 3 core b. 16.0mm <sup>2</sup> x 3 core c. 25.0mm <sup>2</sup> x 3 core d. 35.0mm <sup>2</sup> x 3 core e. 50.0mm <sup>2</sup> x 3 core f. 70.0mm <sup>2</sup> x 3 core g. 95.0mm <sup>2</sup> x 3 core	1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M		
39	<b>PAINTING</b> Carryout painting to equipments and plant room in accordance with the specification (Annex 111). Price per square meter) a. Painting of metal b. Painting of gaivanized metal c. Painting of rendered wall d. painting of concrete screed	1 M <sup>2</sup> 1 M <sup>2</sup> 1 M <sup>2</sup> 1 M <sup>2</sup>		

### 38KVA TO 100KVA GENERATOR

SOR No.	Description	Quantity	Rate	Amount
40	Liason with other for Load Test Installation Testing and Installation.  a. Provide for the duration of the project a qualified project Liason Officer who will liase and co-ordinate the work with the EMS other authorities Department or Ministry.	1 Lot		
41	a. Dismantle, takedown and remove the existing unserviceable mechanical/ electrical items to depot store or designated by S.O. Daily cleaning, remove refuse items from site, all necessary hacking and chasing for concealed conduit or underground pipe sleeves, makes good, distracted areas to match existing finishes.  Any cost incur to repair or replace of defective usable M & E items during removing/ transporting and delivery shall be borne by the contractor	1 Lot		
42	LABOUR RATES FOR NON-SCHEDULE ITEMS. PRICE PER HOURa. ENGINEERb. SUPERVISOR/FOREMANc. ELECTRICIANd. TRADESMAN	1 Hrs 1 Hrs 1 Hrs 1 Hrs		
43	To supply, deliver, install c/w all necessary accessories. New busbar, modifications. All cost include wirings, timers, relays and prepare Autocad softcopy drawings.  a. To service 2000A D-Pro ACB b. To service 1600A D-Pro ACB c. D-Pro motorized 1600A ACB c/w bowden/ interlocking plates d. D-Pro ACB motorized control tray e. To repair motorized ACB f. To supply and install D-Pro motor with limit switches, control cables and accessories g. D-Pro Nelson DPB-32 realy (multi characteristic multi time, multi curve IDMTL relays h. Siemens 230RC PLC with program 8 outputs i. Siemens 230RC PLC extended module with 12 outputs	1 Lot 1 Lot 1 Set 1 Lot 1 Lot 1 Lot 1 Lot 1 Lot 1 Lot		
44	Moulded case circuit breakers c/w busbar, shunt trip coils and other electrical related works 400A MCCB TPN	1 No		
45	Air Circuit Breaker with new busbar, shunt trip coil and all charges included 2000A 4 poles Air Circuit Breaker	1 No		
46	To dismantl existing faulty pandora device, to supply and install 7 new electronic type pandore equiped with fuel controller, frequency adjustments, speed controller from engine to produce correct RPM and all related wiring.	1 Lot		
47	To dismantl existing ECU, to supply and install new ECU c/w new program to suit existing engine and with a new software version for old engine to operate all sensor, acknowledgement and all singanle and warning for faults created in the engine of mechanical side plus electrical side.	1 Lot		

38KVA TO 100KVA GENERATOR

SOR No.	Description	Quantity	Rate	Amount
48	Cost of supply spare parts not included in the schedule of rate @ plus ----- percent ( %) to cost supply item to contractor	1 Lot		
	TOTAL AMOUNT			

150KVA GENERATOR

SOR No.	Description	Quantity	Rate	Amount
49	Oil Filter	1 No		
50	a. Fuel Filter b. Water Filter	1 No 1 No		
51	a. Air Filter b. Air Cleaner Set	1 No 1 No		
52	a. Injector Coup Servicing & Calibration	1 No		
53	Fan Belt	1 No		
54	Alternator Belt	1 No		
55	24V DC Relay	1 No		
56	240V AC Relay	1 No		
57	DC Relay Timer (0 - 30 sec)	1 No		
58	DC Relay Timer (0 - 15 sec)	1 No		
59	DC Relay Timer (0 - 10 sec)	1 No		
60	Starter solenoid	1 No		
61	Engine governor	1 No		
62	To supply, install c/w modification of busbar and all related works for 315A change over contactor	1 Set		
63	a. Automatic voltage regulator b. EFC with frequency adjustment	1 No 1 No		
64	a. Starter motor b. Starter c. Digital IDMTL earth fault realy curve 3/10 d. Digital IDMTL overcurrent realy extremely inverse	1 No 1 No 1 No 1 No		
65	a. Fuel solenoid valve b. Fuel pump c. Water pump for cooling system d. Generator power relay	1 No 1 No 1 No 1 No		
66	Gasket rooker cover	1 No		

# 150KVA GENERATOR

SOR No.	Description	Quantity	Rate	Amount
67	Thermostat and gasket, seal	1 No		
68	a. Oil pressure switch b. Manual hand pump c. Diesel hose	1 No 1 No 1 M		
69	Radiator water coolant	1 Litre		
70	a. Turbo charger b. 24V DC charger	1 No 1 No		
71	High temperature water hose	1 M		
72	Complete water pump unit	1 Set		
73	a. AVR card b. Auto start module (AMF) analog type c. Auto start module (AMF) digital type	1 No 1 No 1 No 1 No		
74	Lead acid battery N200	1 No		
75	Distilled water	1 Litre		
76	Neon indication lamp c/w cover and bulb	1 No		
77	<b>PUSH BUTTON</b> a. Start/Stop button b. Fault alarm reset button c. lamp test button	1 No 1 No 1 No		
78	<b>SWITCHES</b> a. Selector switch b. Automatic transfer switch c/w manual bypass	1 No 1 No		
79	<b>METER</b> a. Ammeter b. Voltmeter c. HZ meter d. KW meter e. Under over voltage electronics device	1 No 1 No 1 No 1 No 1 No		
80	Fuses (any type, make or size)	1 No		
81	To carryout top overhaul (comprehensive) including to disconnect and removal of existing defective parts and fix new spare parts and reconnection, testing and commissioning system and associated equipment etc. <b>a. CAPACITY RANGE 150KVA</b>	1 Set		
82	<b>CONSUMABLE ITEM</b> To supply and top up diesel fuel price per liter including tranportation, labour, safety, insurances & other related chargera. 1 drum /	1 Liter1 Liter1		

150KVA GENERATOR

SOR No.	Description	Quantity	Rate	Amount
	159 literb. 200 gallon / 900 literc. 100 gallon /450 literd. 50 gallon / 225 liter	Liter1 Liter		
83	<b>TOP UP NEW LUBRICATION OIL (price per liter) WITH LABOUR CHARGES</b> a. 60 gallon / 270 liter b. 30 gallon / 135 liter c. 10 gallon / 45 liter d. 5 gallon / 22.5 liter	1 Liter 1 Liter 1 Liter 1 Liter		
84	<b>THOROUGHLY FLUSH OUT LUBRICATION OIL SYSTEM (price per liter)</b> a. 60 gallon / 270 liter b. 30 gallon / 135 liter c. 10 gallon / 45 liter d. 5 gallon / 22.5 liter	1 Liter 1 Liter 1 Liter 1 Liter		
85	Contractor to dispute the use of water oil to the wasted area designated by S.O	1 Lot		
86 A	<b>SPARE PARTS AND ASSOCIATED EQUIPMENT CABLE, CABLE LUGS, GLANDS AND WIRING PVC INSULATED SINGLE CORE CABLE (ANY COLOR) PRICE PER METER</b> a. 1.5mm <sup>2</sup> b. 2.5mm <sup>2</sup> c. 4.0mm <sup>2</sup> d. 6.0mm <sup>2</sup> e. 10.0mm <sup>2</sup> f. Battery termination flexible cable 70mm <sup>2</sup> c/w cable lugs and battery termination links	1 M 1 M 1 M 1 M 1 M 1 M		
B	XLPE/SWA/PVC Armour cable laid on G.S cable tray/ pvc cable duct/ underground c/w all termination. Price per meter, per cable lug & cable gland a. 10.0mm <sup>2</sup> x 1 core b. 16.0mm <sup>2</sup> x 1 core c. 25.0mm <sup>2</sup> x 1 core d. 35.0mm <sup>2</sup> x 1 core e. 50.0mm <sup>2</sup> x 1 core f. 70.0mm <sup>2</sup> x 1 core g. 95.0mm <sup>2</sup> x 1 core h. 120mm <sup>2</sup> x 1 core i. 140mm <sup>2</sup> x 1 core	1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M		
C	a. 10.0mm <sup>2</sup> x 3 core b. 16.0mm <sup>2</sup> x 3 core c. 25.0mm <sup>2</sup> x 3 core d. 35.0mm <sup>2</sup> x 3 core e. 50.0mm <sup>2</sup> x 3 core f. 70.0mm <sup>2</sup> x 3 core g. 95.0mm <sup>2</sup> x 3 core	1 M 1 M 1 M 1 M 1 M 1 M 1 M		

## 150KVA GENERATOR

SOR No.	Description	Quantity	Rate	Amount
		1 M 1 M		
87	PAINTING Carryout painting to equipments and plant room in accordance with the specification (Annex 111). Price per square meter) a. Painting of metal b. Painting of gaivanized metal c. Painting of rendered wall d. painting of concrete screed	1 M <sup>2</sup> 1 M <sup>2</sup> 1 M <sup>2</sup> 1 M <sup>2</sup>		
88	Liason with other for Load Test Installation Testing and Installation. a. Provide for the duration of the project a qualified project Liason Officer who will liase and co-ordinate the work with the EMS other authorities Department or Ministry.	1 Lot		
89	a. Dismantle, takedown and remove the existing unserviceable mechanical/ electrical items to depot store or designated by S.O. Daily cleaning, remove refuse items from site, all necessary hacking and chasing for concealed conduit or underground pipe sleeves, makes good distracted areas to match existing finishes. Any cost incur to repair or replace of defective usable M & E items during removing/ transporting and delivery shall be borne by the contractor	1 Lot		
90	LABOUR RATES FOR NON SCHEDULE ITEMS. PRICE PER HOUR a. ENGINEER b. SUPERVISOR/FOREMAN c. ELECTRICIAN d. TRADESMAN	1 Hrs 1 Hrs 1 Hrs 1 Hrs		
91	To supply, deliver, install c/w all necessary accessories. New busbar, modifications. All cost include wirings, timers, relays and prepare Autocad softcopy drawings. a. To service 2000A D-Pro ACB b. To service 1600A D-Pro ACB c. D-Pro motorized 1600A ACB c/w bowden/interlocking plates d. D-Pro ACB motorized control tray e. To repair motorized ACB f. To supply and install D-Pro motor with limit switches, control cables and accessories g. D-Pro Nelson DPB-32 realy (multi characteristic multi time, multi curve IDMTL relays h. Siemens 230RC PLC with program 8 outputs i. Siemens 230RC PLC extended module with 12 outputs	1 Lot 1 Lot 1 Set 1 Lot 1 Lot 1 Lot  1 Lot  1 Lot 1 Lot		

150KVA GENERATOR

SOR No.	Description	Quantity	Rate	Amount
92	Moulded case circuit breakers c/w busbar, shunt trip coils and other electrical related works 400A MCCB TPN	1 No		
93	Air Circuit Breaker with new busbar, shunt trip coil and all charges included 2000A 4 poles Air Circuit Breaker	1 No		
94	To dismantle existing faulty pandora device, to supply and install 7 new electronic type pandore equipped with fuel controller, frequency adjustments, speed controller from engine to produce correct RPM and all related wiring.	1 Lot		
95	To dismantle existing ECU, to supply and install new ECU c/w new program to suit existing engine and with a new software version for old engine to operate all sensor, acknowledgement and all singanle and warning for faults created in the engine of mechanical side plus electrical side.	1 Lot		
96	Cost of supply spare parts not included in the schedule of rate @ plus ----- percent ( %) to cost supply item to contractor	1 Lot		
	TOTAL AMOUNT			

200KVA GENERATOR

SOR No.	Description	Quantity	Rate	Amount
97	Oil Filter	1 No		
98	a. Fuel Filter b. Water Filter	1 No 1 No		
99	a. Air Filter b. Air Cleaner Set	1 No 1 No		
100	a. Injector Coup Servicing & Calibration	1 No		
101	Fan Belt	1 No		
102	Alternator Belt	1 No		
103	24V DC Relay	1 No		
104	240V AC Relay	1 No		
105	DC Relay Timer (0 - 30 sec)	1 No		
106	DC Relay Timer (0 - 15 sec)	1 No		
107	DC Relay Timer (0 - 10 sec)	1 No		
108	Starter solenoid	1 No		
109	Engine governor	1 No		
110	315A change over contactor	1 No		
111	a. Automatic voltage regulator b. EFC with frequency adjustment	1 No 1 No		
112	a. Starter motor b. Starter c. Digital IDMTL earth fault realy curve 3/10 d. Digital IDMTL overcurrent relay extremely inverse	1 No 1 No 1 No 1 No		
113	a. Fuel solenoid valve b. Fuel pump c. Water pump for cooling system d. Generator power relay	1 No 1 No 1 No 1 No		
114	Gasket rooker cover	1 No		

## 200KVA GENERATOR

SOR No.	Description	Quantity	Rate	Amount
115	Thermostat and gasket, seal	1 No		
116	a. Oil pressure switch b. Manual hand pump c. Diesel hose	1 No 1 No 1 M		
117	a. Radiator water coolant	1 Litre		
118	a. Turbo charger b. 24V DC charger	1 No 1 No		
119	High temperature water hose	1 M		
120	Complete water pump unit	1 Set		
121	a. AVR card b. Auto start module (AMF) analog type c. Auto start module (AMF) digital type	1 No 1 No 1 No 1 No		
122	Lead acid battery N200	1 No		
123	Distilled water	1 Litre		
124	Neon indication lamp c/w cover and bulb	1 No		
125	<b>PUSH BUTTON</b> a. Start/Stop button b. Fault alarm reset button c. Lamp test button	1 No 1 No 1 No		
126	<b>SWITCHES</b> a. Selector switch b. Automatic transfer switch c/w manual bypass	1 No 1 No		
127	<b>METER</b> a. Ammeter b. Voltmeter c. HZ meter d. KW meter e. Under over voltage electronics device	1 No 1 No 1 No 1 No 1 No		
128	Fuses (any type, make or size) or MCB 1 pole (2A - 32A)	1 No		
129	To carryout top overhaul (comprehensive) including to disconnect and removal of existing defective parts and fix new spare parts and reconnection, testing and commissioning system and associated equipment etc. <b>a. CAPACITY RANGE 200KVA</b>	1 Set		
130	<b>CONSUMABLE ITEM</b> To supply and top up diesel fuel price per liter including tranportation, labour, safety, insurances & other related chargera. 1 drum / 159 literb.	1 Liter1 Liter1		

200KVA GENERATOR

SOR No.	Description	Quantity	Rate	Amount
	200 gallon / 900 literc. 100 gallon /450 literd. 50 gallon / 225 liter	Liter1 Liter		
131	<b>TOP UP NEW LUBRICATION OIL (price per liter) WITH LABOUR CHARGES</b> a. 60 gallon / 270 liter b. 30 gallon / 135 liter c. 10 gallon / 45 liter d. 5 gallon / 22.5 liter	1 Liter 1 Liter 1 Liter 1 Liter		
132	<b>THOROUGHLY FLUSH OUT LUBRICATION OIL SYSTEM (price per liter)</b> a. 60 gallon / 270 liter b. 30 gallon / 135 liter c. 10 gallon / 45 liter d. 5 gallon / 22.5 liter	1 Liter 1 Liter 1 Liter 1 Liter		
133	Contractor to dispute the use of water oil to the wasted area designated S.O	1 Lot		
134 A	SPARE PARTS AND ASSOCIATED EQUIPMENT CABLE, CABLE LUGS, GLANDS AND WIRING PVC INSULATED SINGLE CORE CABLE (ANY COLOR) PRICE PER METER a. 1.5mm <sup>2</sup> b. 2.5mm <sup>2</sup> c. 4.0mm <sup>2</sup> d. 6.0mm <sup>2</sup> e. 10.0mm <sup>2</sup> f. Battery termination flexible cable 70mm <sup>2</sup> c/w cable lugs and battery termination links	1 M 1 M 1 M 1 M 1 M 1 M		
B	XLPE/SWA/PVC Armour cable laid on G.S cable tray/ pvc cable duct/ underground c/w all termination. Price per meter, per cable lug & cable gland a. 10.0mm <sup>2</sup> x 1 core b. 16.0mm <sup>2</sup> x 1 core c. 25.0mm <sup>2</sup> x 1 core d. 35.0mm <sup>2</sup> x 1 core e. 50.0mm <sup>2</sup> x 1 core f. 70.0mm <sup>2</sup> x 1 core g. 95.0mm <sup>2</sup> x 1 core	1 M 1 M 1 M 1 M 1 M 1 M 1 M		
C	a. 10.0mm <sup>2</sup> x 3 core b. 16.0mm <sup>2</sup> x 3 core c. 25.0mm <sup>2</sup> x 3 core d. 35.0mm <sup>2</sup> x 3 core e. 50.0mm <sup>2</sup> x 3 core f. 70.0mm <sup>2</sup> x 3 core g. 95.0mm <sup>2</sup> x 3 core	1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M		
135	PAINTING Carryout painting to equipments and plant room in			

200KVA GENERATOR

SOR No.	Description	Quantity	Rate	Amount
	accordance with the specification (Annex 111). Price per square meter) a. Painting of metal b. Painting of gaivanized metal c. Painting of rendered wall d. painting of concrete screed	1 M² 1 M² 1 M² 1 M²		
136	Liason with other for Load Test Installation Testing and Installation. a. Provide for the duration of the project a qualified project Liason Officer who will liase and co-ordinate the work with the EMS other authorities Department or Ministry.	1 Lot		
137	a. Dismantle, takedown and remove the existing unserviceable mechanical/ electrical items to depot store or designated by S.O. Daily cleaning, remove refuse items from site, all necessary hacking and chasing for concealed conduit or underground pipe sleeves, makes good distracted areas to match existing finishes.  Any cost incur to repair or replace of defective usable M & E items during removing/ transporting and delivery shall be borne by the contractor	1 Lot		
138	LABOUR RATES FOR NON SCHEDULE ITEMS. PRICE PER HOURa. ENGINEERb. SUPERVISOR/FOREMANc. ELECTRICIANd. TRADESMAN	1 Hr1 Hr1 Hr1 Hr		
139	To supply, deliver, install c/w all necessary accessories. New busbar, modifications. All cost include wirings, timers, relays and prepare Autocad softcopy drawings. a. To service 2000A D-Pro ACB b. To service 1600A D-Pro ACB c. D-Pro motorized 1600A ACB c/w bowden/interlocking plates d. D-Pro ACB motorized control tray e. To repair motorized ACB f. To supply and install D-Pro motor with limit switches, control cables and accessories g. D-Pro Nelson DPB-32 realy (multi characteristic multi time, multi curve IDMTL relays h. Siemens 230RC PLC with program 8 outputs i. Siemens 230RC PLC extended module with 12 outputs	1 Lot 1 Lot 1 Set 1 Lot 1 Lot 1 Lot  1 Lot  1 Lot 1 Lot		
140	Moulded case circuit breakers c/w busbar, shunt trip coils and other electrical related works 400A MCCB TPN	1 No		
141	Air Circuit Breaker with new busbar, shunt trip coil and all charges included 2000A 4 poles Air Circuit Breaker	1 No		
142	To dismantle existing faulty pandora device, to supply and install 7 new electronic type pandore equiped with fuel controller, frequency adjustments, speed controller	1 Lot		

200KVA GENERATOR

SOR No.	Description	Quantity	Rate	Amount
	from engine to produce correct RPM and all related wiring.			
143	To dismantle existing ECU, to supply and install new ECU c/w new program to suit existing engine and with a new software version for old engine to operate all sensor, acknowledgement and all singanle and warning for faults created in the engine of mechanical side plus electrical side.	1 Lot		
145	Cost of supply spare parts not included in the schedule of rate @ plus ----- percent ( %) to cost supply item to contractor	1 Lot		
	TOTAL AMOUNT			

# **SUMMARY OF PRICES**

## SUMMARY OF PRICES

### PRELIMINARIES

Allow sum for preliminaries to comply with the condition of contract, specification and other requirements such as insurances, etc.

- a. Public Liability B\$.....
- b. Workmen's Compensation B\$.....
- c. Fire Insurance B\$.....

### MAINTENANCE VISIT

1. Schedule of Equipment, Schedule No.1, Rates for Preventive Maintenance visits item number 1 to 3 inclusive.

- a. Total of 1 No. Task 'A' inspection for all item.  
B\$ ..... (BRUNEI DOLLAR .....  
.....)
- b. Total of 1 No. Task 'B' inspection for all item.  
B\$ ..... (BRUNEI DOLLAR .....  
.....)
- c. Total of 1 No. Task 'C' inspection for all item.  
B\$ ..... (BRUNEI DOLLAR .....  
.....)
- d. ANNUAL COST OF MAINTENANCE VISIT  
Total of Task 'A', Task 'B', Task 'B', Task 'C' plus Task 'D' inspection for all items.  
B\$ ..... (BRUNEI DOLLAR .....  
.....)

### REPLACEMENT ITEMS

2. Schedule of Rates, Schedule No.2, Rates for replacement items, Serial Number 1 to 145 (i) inclusive.
  - a. Total for item 1 to item 145 (i) inclusive.  
B\$ ..... (BRUNEI DOLLAR .....  
.....)

## **CONTENTS**

**SCHEDULE 1 TENDER FORM**

**SCHEDULE 2 INFORMATION SUMMARY**

**SCHEDULE 3 SUB-CONTRACTS**

**SCHEDULE 4 COMPANY'S BACKGROUND**

**SCHEDULE 5 REFERENCES**

**SCHEDULE 6 LETTER OF DECLARATION**

## SCHEDULE 1 – TENDER FORM

To:

TENDER REF. NO.: KK/188/2025/JPK(TC)

**INVITATION TO TENDER**  
**THREE YEARS TERM CONTRACT FOR COMPREHENSIVE MAINTENANCE AND REPAIR OF**  
**GENERATOR SET AT SERIA HEALTH CENTRE, SUNGAI LIANG HEALTH CENTRE AND**  
**SUKANG HEALTH CENTRE, KUALA BELAIT**

**TENDER OF (*name of tenderer*)**

Company/Business Registration No \_\_\_\_\_

Tender Closing Date: \_\_\_\_\_

**MAINTENANCE VISIT**

1. Schedule of Equipment, Schedule No.1, Rates for Preventive Maintenance visits item number 1 to 3 inclusive.

- a. Total of 1 No. Task 'A' inspection for all item.  
B\$ ..... (BRUNEI DOLLAR .....)  
.....)
- b. Total of 1 No. Task 'B' inspection for all item.  
B\$ ..... (BRUNEI DOLLAR .....)  
.....)
- c. Total of 1 No. Task 'C' inspection for all item.  
B\$ ..... (BRUNEI DOLLAR .....)  
.....)
- d. Total of 1 No. Task 'D' servicing for all generator set cost.  
B\$ ..... (BRUNEI DOLLAR .....)  
.....)
- e. ANNUAL COST OF PREVENTIVE MAINTENANCE VISIT  
Total of Task 'A', Task 'B', Task 'C' and Task 'D'.  
B\$ ..... (BRUNEI DOLLAR .....)  
.....)

**REPLACEMENT ITEMS**

2. Schedule of Rates, Schedule No.2, Rates for replacement items, Serial Number 1 to 145 (i) inclusive.

- a. Total for item 1 to item 145 (i) inclusive.  
B\$ ..... (BRUNEI DOLLAR .....)  
.....)

1. We offer and undertake on your acceptance of our Tender to provide the above mentioned services in accordance with your Invitation To Tender.
2. Our Tender is fully consistent with and does not contradict or derogate from anything in your Invitation To Tender. We have not qualified or changed any of the provisions of your Invitation To Tender.
3. We shall execute a formal agreement in the appropriate form set out in Section 4 – Contract of the Invitation to Tender together with such further terms and conditions, if any, agreed between the Government and us.
4. OUR OFFER IS VALID FOR **SIX (6)** CALENDER MONTHS FROM THE TENDER CLOSING DATE.
5. When requested by you, we shall extend the validity of this offer.
6. We further undertake to give you any further information which you may require.

Dated this                      day of                      20 \_\_\_\_

\_\_\_\_\_  
**Signature of authorised officer of Tenderer**

Name:

Designation:

Tenderer's official stamp:

## **SCHEDULE 2 – INFORMATION SUMMARY**

2.1 Tenderers shall provide in this Schedule the following information:

- (a) Management summary
- (b) Company profile (including Contractor and sub-contractor(s), if any)
- (c) Years of experience (as of the Tender Closing Date) of the Contractor and sub-contractor(s) in the:
  - *Provision of maintenance services for Standby Generator Set*
- (d) Other information which is considered relevant

### SCHEDULE 3 – SUB-CONTRACTS

- 3.1 Tenderers shall complete Table 3.1 with information about all the companies involved in the provision of the services and items specified in this tender. This shall include details about the Contractor and each sub-contractor involved, as well as their respective responsibilities.
- 3.2 Tenderers shall also indicate in Table 3.1 any alliance relationship established with each sub-contractor. An alliance is defined as a formal and binding business relationship between the allied parties.

Table 3.1                      Responsibility Table

Company Name	Responsibility Description	Alliance Relationship between Contractor and Sub-contractor(s)		
		Alliance Exists? (Y/N)	Date Established	Alliance Description
Contractor				
		Not Applicable	Not Applicable	Not Applicable
Sub-contractor(s)				

#### **SCHEDULE 4 – COMPANY’S BACKGROUND**

- 4.1 Each of the companies involved in this tender, including Contractor and sub-contractor(s) (if any), shall provide information on the company's background, scope of operations, financial standing and certified copy of its Certificate of Incorporation or Certificate of Registration (as the case may be).

## SCHEDULE 5 – REFERENCES

- 5.1 Tenderers shall submit a list of customers in Table 5.1 to whom the Contractor has provided similar services and items as specified in this tender in the recent 5 years as of the Tender Closing Date.

Table 5.1 References of previous customers

Customer Name and Address	Customer Type (Govt or Quasi Govt)*	Contact Person	Title	Contact Number, Fax Number and E-mail Address

**\*Note:** Tenderers shall indicate whether the customer is a Government or Quasi Government organisation. A Quasi Government is defined as an organisation which (1) is managed and controlled by the Government; or (2) has at least 50% shares being held by the Government. Please leave the column blank if the customer is neither a Government or Quasi Government organisation.

- 5.2 The Ministry of Health shall treat all the information submitted under this schedule in strict confidence.
- 5.3 The Ministry of Health reserves the right to contact the references for tender assessment purposes.

**SCHEDULE 6**

**PENGAKUAN PENENDER  
*TENDERER'S DECLARATION***