

## MEMORANDUM OF UNDERSTANDING (MOU)

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between

Ministry of Health & Medical Services Government of Solomon Islands

and

The Secretariat of the Pacific Islands Regional Environment Programme (SPREP)

(together the Parties)

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**Ministry of Health & Medical Services** is the Ministry in Solomon Islands with responsibility to lead, improve and strengthen the Solomon Island health system in service to the Government and the people to deliver quality health service, reduce sickness, prevent the loss of young lives and relieve suffering.

**SPREP** is a regional, intergovernmental organisation comprising 26 members consisting of 21 Pacific Island Countries and Territories and 5 developed countries with direct interests in the Pacific Islands Region. SPREP's mandate is to promote co-operation in the Pacific Islands Region and to provide assistance in order to protect and improve its environment and to ensure sustainable development for present and future generations.

#### Whereas

The Parties have mutual interests in relation to the protection of the environment and developing and strengthening systems, institutions, organisations and individuals concerned with environmental protection in Vanuatu as well as the Pacific Islands Region.

The Parties agree as follows:

#### 1. Purpose

This MOU recognises the intent of **SPREP** and **Ministry of Health and Medical Services representing the Solomon Islands Government** to work together on the re-establishment of healthcare waste Management at the following:

- i. Honiara Referral Hospital;
- ii. Helena Goldie Hospital, Western Province;

The purpose of this MOU is to provide a framework of cooperation between the Parties in the field of waste management in Solomon Islands.

## 2. Objectives

The objective of this MOU is to develop a partnership between **Ministry of Health & Medical Services** and **SPREP** that will, as far as possible, and without limitation:

1. Enhance waste management and pollution control resulting from appropriate healthcare waste management;

## 3. Collaborative activities

The Parties agree, to the extent possible, to collaborate in those areas identified in Section 2 above, to:

1. Implement joint activities and projects where **SPREP** has been funded by donors to manage or implement projects;
2. Invite each other to participate in relevant project steering committees, technical advisory panels and other project related meetings;
3. Actively engage and assist the implementation of all donor funded projects which **Ministry of Health & Medical Services** is participating in, providing logistical and jurisdictional support where required;
4. Collect and manage data in accordance with agreed data strategies and standards;
5. Share information and resources that will improve the effectiveness of both Parties and the wider Pacific Islands region;
6. Collaborate on, participate in and support special events at regional and global levels relating to the above;
7. Collaborate to enhance capacity and promote best practice in environmental policies and their implementation in Solomon Islands and in the Pacific Islands region to ensure international, regional and national environmental objectives and commitments are met;
8. **SPREP** will undertake repairs on the healthcare waste incinerators located at the following sites:
  - a) National Referral Hospital located in Honiara, Guadalcanal Province;
  - b) Helena Goldie Hospital located in Western Province;

with the understanding that **Solomon Islands** will ensure the ongoing funding for maintenance and operational requirements to keep the healthcare waste incinerator operating efficiently; and

9. Cooperate in such other fields as the Parties may agree to add.

## 4. Agreements

Specific collaborative work, and especially donor-funded project activities, shall, once agreed, be implemented through service level agreements, letters of agreement or other instruments or modalities as may be agreed by the parties.

## 5. Nature of the MOU

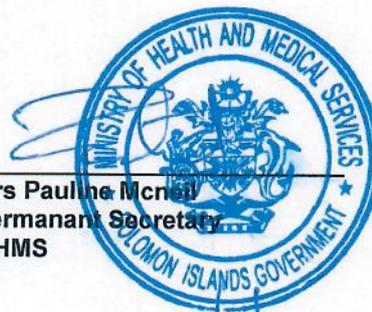
- i) This MOU constitutes an expression of shared commitment of the Parties to achieve their shared objectives relating to the protection of the environment and strengthening the capacity of systems, institutions, organisations and individuals concerned with environmental protection in the Pacific region.
- ii) Unless otherwise agreed, each Party's actions under this MOU shall be considered to be that Party's sole and separate action for all purposes, including liability, and neither Party shall claim to be acting on behalf of, or as agent for, the other Party to this MOU.
- iii) This MOU is not governed by international or domestic law and does not constitute, nor is it intended to be a legally binding arrangement, contract or relationship. It does not create any legally binding or enforceable obligations, express or implied. It serves only as a record of each Party's separate intention pending execution of specific agreements governing the undertaking of activities as contemplated by this MOU.
- iv) This MoU constitutes an expression of mutual good faith by the Parties who commit to carrying out their responsibilities to the best of their abilities. Nothing in this MoU shall render either Party liable for any debts or obligations incurred by the other. Neither Party may make representations on behalf of the other.

## 6. Operational Provisions

- i) This MOU shall enter into force on the date the last Party signs.
- ii) This MOU may be amended by agreement in writing between the Parties.
- iii) This MOU shall endure until such time as amended or terminated by the Parties.
- iv) Any dispute, controversy or difference as to the interpretation of this MOU will be settled amicably by mutual consent between the Parties.
- v) Either Party may terminate this MOU by giving three months' written notice to the other.
- vi) Termination of this MOU will not incur liability for either Party and will not affect any separate agreements or other legally binding arrangements in place between the Parties.
- vii) Each Party will name, and keep updated, focal points to co-ordinate the cooperation called for in this MOU and its Annexed projects.



Date: 8/02/2021



Date: 24/1/21

## Annex 1: PacWastePlus Programme

### Programme Background

The European Union funded PacWastePlus programme, is working with 14 countries in the Pacific region and Timor-Leste, to improve and enhance waste management activities and the capacity of governments, industry and communities to manage waste to reduce the impact on human health and the environment.

### Programme Objectives

PacWastePlus seeks to generate improved economic, social, health and environmental benefits for Pacific Island Countries arising from stronger regional economic integration and the sustainable management of natural resources and the environment. The programme activities will be designed to assist Countries to ensure the safe and sustainable management of waste with due regard for the conservation of biodiversity, reduction of marine litter, health and well-being of Pacific island communities, and climate change mitigation and adaptation requirements.

### Programme Activities

PacWastePlus will work with participating countries, the waste industry and the agencies from the Council of Regional Organisations of the Pacific (CROP) to address three waste streams and eight sub-waste stream types.

- hazardous wastes: asbestos, e-waste, healthcare waste
- solid wastes: recyclables, organic waste, disaster waste, and bulky waste
- related solid wastes found in wastewater.

### Programme Deliverables

The programme aims to deliver quality outcomes through four main programme delivery areas:

1. Improved data collection, information sharing, and education and awareness
  - Collate and review existing data on waste and pollution at the regional and national level and identify key areas where further data needs to be collected.
  - Establish an INFORM data portal for waste related data.
  - Establish and implement national waste monitoring programmes for routine data collection and reporting that creates good baselines for measuring performance, as well as creating comprehensive country waste profiles for dissemination in all countries.
  - The development of a model regional education and awareness raising plan to guide national delivery of relevant programmes.
  - Establish a Research Advisory Group (RAG), based on representation inclusive of women and younger researchers, to develop a practical research agenda.
2. Policies and regulatory frameworks developed and implemented
  - Assist in developing:
    - a regional legislative framework with integrated policies and institutional arrangements for waste management
    - national policies, legislation and implementation strategies to transition to a comprehensive and sustainable waste management system
    - developing mechanisms such as national licencing and certification for waste management service providers and pilot in one - three countries.

- Advocate for change at regional and international meetings to influence the decision making of the Pacific and world leaders to support good environmental governance and action.

### 3. Best practices, including enhanced private sector engagement and infrastructure development, implemented

- Assist countries in:
  - solid waste management through the implementation of prevention and reduction programmes that promote schemes to minimise the waste generated from imported products and nearly expiring perishable products.
  - disaster waste management through preparedness, response, recovery and reconstruction to assist countries in dealing with the generation of large volumes of waste.
  - implementing legislation that enables best practice in waste management, including minimising the waste generated by imported products such as prevention of the import of nearly expiring perishable products; along with guidelines to assist businesses in complying with this legislation.
- Provide support to manage waste and pollution sustainably through the implementation of preferred sustainable financing options such as polluter pays, buy-back schemes, and Container Deposit Legislation for difficult waste streams and collected wastes, and extended producer responsibility programmes for imported goods, where feasible such as imported cars.
- Develop and expand the spatial scope and continue to roll out existing programmes to dispose of legacy and hazardous wastes and remediate contaminated sites such as asbestos, healthcare waste and E-waste.
- Implement feasible resource recovery initiatives with private sector involvement.
- Improve and/or construct appropriate small scale waste management infrastructure to facilitate good practice in waste management.
- Develop and implement agreements and incentives for private sector participation in waste management.
- Support atoll nations export some wastes to regional recycling hubs.
- Implement programmes to assist Pacific Island Countries to build national and local capacities in designing bankable projects that can then be supported through the Pacific Regional Infrastructure Facility (PRIF) and/or Green Climate Fund (GCF).
- Complete selected PacWaste activities related to asbestos management and healthcare waste management.

### 4. Human Capacity Enhanced

- Undertake a national capacity needs assessment of all countries to identify the current standards being implemented for waste on governance, management and enforcement against required competency levels to prioritise the training requirements of Pacific Island Countries.
- Conduct specialised national and regional capacity building on identified priority areas based on capacity needs assessment.
- Consider mainstreaming waste management into primary and secondary education in suitable countries by using the Regional Environment Centre approach and expanding on the Cleaner Schools Project which has been successfully conducted in a number of countries.
- Affiliate and collaborate with a regional university or other education institution offering waste management courses with competency-based assessments and hands-on modules towards accreditation.
- Promote capacity building exchanges among all SPREP members and Timor-Leste in the public and private sector.

## Programme Commitment

### Solomon Islands Ministry of Health & Medical Services will:

- a. Assist **SPREP's** contractors to undertake approved works to repair or undertake approved maintenance activities on the healthcare waste incinerators in the aforementioned locations.
- b. Cover all additional costs related to any non-approved maintenance or repair activities (including relocating the healthcare waste incinerators from its current location)
- c. Ensure on-going recurrent funding is allocated to ensure efficient operation of the healthcare waste incinerator (e.g. funding to purchase fuel etc.)
- d. Ensure on-going recurrent funding necessary to undertake routine maintenance and replacement parts
- e. Ensure hospital staff are trained in the safe use and operation of the healthcare waste incinerator, including new staff as they are employed.
- f. Cover travel costs for provincial hospital staff to attend training at either Honiara Referral Hospital or Helena Goldie Referral Hospital

### SPREP will undertake the following one-off actions at the Honiara Referral Hospital:

Item	Action
<b>Incinerator Service</b>	<ul style="list-style-type: none"> <li>• Remove, inspect and clean both primary and secondary chamber burners. Replace the burner nozzles and other required components with new items. Lubricate and check operation of the secondary burner modulating air damper.</li> <li>• Check operation of both under fire air and secondary combustion air fans. If required remove fans and clean dust build up from impellers.</li> <li>• Clean incinerator under fire combustion air holes.</li> <li>• Lubricate all incinerator door hinges.</li> <li>• Check condition of Refractory structure</li> <li>• Check condition of Stainless steel stack.</li> <li>• Supply, install and configure a replacement Omron E5AC Secondary Burner Controller and ensure the burner modulates between low to high fire in accordance with the controller set value.</li> </ul>
<b>Incinerator Trial Burns and Operation</b>	<ul style="list-style-type: none"> <li>• At the conclusion of the incinerator service a minimum of two trial burns over two separate days must be performed. These burns shall ensure that the incinerator controls are correctly configured so that the incinerator operates in an effective smoke free and environmentally sound manner.</li> <li>• If the waste properties and quantities have changed from the initial commissioning and the incinerator smokes then the primary and secondary combustion air settings may need to be modified accordingly. This shall require knowledge and the ability to modify the existing Omron PLC program and also the fixed speed settings of the Siemens V20 series variable speed drives. Any changes made shall be documented and a final soft and hard copy of the PLC program provided to the hospital as a component of a detailed site service and inspection report.</li> </ul>
<b>Incinerator Theory and</b>	<ul style="list-style-type: none"> <li>• A minimum of 2 OFF training sessions for a duration of not less than 60 Minutes duration shall be performed for the incinerator operational staff Staff from Honiara Referral Hospital are the key recipients of this on-the-job</li> </ul>

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<b>Operational Training</b>	<p>training, additional staff from other provincial hospitals can attend free of charge, but travel and related costs are to be borne by MHMS.</p> <ul style="list-style-type: none"> <li>• These training sessions shall be performed simultaneously with the incinerator trial burns. Training shall address the theory of operation of the incineration plant. Identification and maintenance of all incineration plant controls and components and finally the operation of the incineration plant in an effective and environmentally sound manner.</li> </ul>																											
<b>Provision of spare parts</b>	<table border="1"> <thead> <tr> <th>Parts</th> <th>Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td rowspan="4">Primary &amp; Secondary Burner Parts</td> <td>Oil Nozzle</td> <td>2 sets per burner</td> </tr> <tr> <td>Oil Valve, Oil Pump &amp; Coupling</td> <td>1 set per burner</td> </tr> <tr> <td>Diffuser, Blast Tube &amp; Ignition Electrodes</td> <td>1 set per burner</td> </tr> <tr> <td>Burner Motor, Capacitor &amp; Fan Impellar</td> <td>1 set per burner</td> </tr> <tr> <td rowspan="4">Common Burner Parts</td> <td>Burner Controller</td> <td>1 off</td> </tr> <tr> <td>Flame Sensor</td> <td>4 off</td> </tr> <tr> <td>Burner Heat Switch</td> <td>2 off</td> </tr> <tr> <td>Temperature Controller</td> <td>1 off Omron E5AC, 240 VAC</td> </tr> <tr> <td>Thermocouples</td> <td>Secondary Chamber Thermocouple</td> <td>2 off</td> </tr> <tr> <td>Door Sealing Ceramic Rope</td> <td>-</td> <td>1 set</td> </tr> </tbody> </table>	Parts	Description	Quantity	Primary & Secondary Burner Parts	Oil Nozzle	2 sets per burner	Oil Valve, Oil Pump & Coupling	1 set per burner	Diffuser, Blast Tube & Ignition Electrodes	1 set per burner	Burner Motor, Capacitor & Fan Impellar	1 set per burner	Common Burner Parts	Burner Controller	1 off	Flame Sensor	4 off	Burner Heat Switch	2 off	Temperature Controller	1 off Omron E5AC, 240 VAC	Thermocouples	Secondary Chamber Thermocouple	2 off	Door Sealing Ceramic Rope	-	1 set
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<b>Provision of Personal Protective Equipment</b>	<ul style="list-style-type: none"> <li>• 4 sets of Leather Gloves &amp; Full-face shields</li> </ul>																											

**SPREP will undertake the following one-off actions at the Helena Goldie Hospital:**

Item	Action
<b>Fuel Tank &amp; Oil Burners</b>	<ul style="list-style-type: none"> <li>• Supply and Install Replacement Ecoflam Primary &amp; Secondary Chamber diesel Burners in accordance with OEM Specification. Each Burner is to be equipped with a pressure gauge and an inlet fuel filter.</li> <li>• Fit Burners with capillary type thermostat/Heat Switches to automatically activate the burner fan when the burner temperature exceeds 60 Degrees Celsius. Modify Control panel wiring to ensure heat switches activate burner fan even when Control Switch is in the OFF position. Replace wiring between the control panel and the burners as required. Final as built wiring diagrams must be supplied to the hospital and a laminated copy retained in the incinerator control panel.</li> </ul>

Item	Action						
	<ul style="list-style-type: none"> <li>Supply and Install a galvanized steel frame that elevates the existing diesel fuel a minimum of 1 metre above ground level.</li> <li>Supply and install flow and return piping to the primary and secondary burners from the fuel tank. All piping and fittings shall be of rigid copper or stainless steel with flexible lines permitted for use only as an immediate connection to the burner.</li> </ul>						
<b>Replacement of Incinerator Stack</b>	<ul style="list-style-type: none"> <li>Supply and Install Replacement Incinerator stack to a total height of 6 metres above ground level. The replacement stack shall be equipped with cooling air entry slots as per the design of the existing incinerator stack.</li> <li>The new stack shall be provided with guy wires and fixed to the incinerator enclosure during installation.</li> <li>The new stack shall also be provided with a cowl to prevent the ingress of water from the roof into the building enclosure</li> </ul>						
<b>Mild Steel Incinerator Body &amp; Painting</b>	<ul style="list-style-type: none"> <li>All mild steel surfaces are to be cleaned and any corrosion or paint or salt residue removed by either manual or powered wire brushing.</li> <li>Apply two coats of inorganic zinc primary followed by two coats of high temperature enamel paint using commercially available aerosols cans.</li> </ul>						
<b>Incinerator Start-Up &amp; Operation</b>	<ul style="list-style-type: none"> <li>At the conclusion of installation of all new components and prior to the incineration of any waste materials the incinerator refractory must be dried out in accordance with the original refractory curing procedure as specified by the incinerator manufacturer.</li> <li>If free water is observed within the incinerator chamber the dryout process shall be extended and the incinerator maintained at a temperature of 100 degrees Celsius until all free water is evaporated.</li> <li>Documented proof of the completion of the curing procedure in the form of a manual temperature log and timed and dated photographs of the system temperature controller must be available for review if requested by SPREP.</li> <li>At the conclusion of the refractory curing process waste incineration operations can commence. A minimum of two trial burns over two separate days must be performed. As the conclusion of this process the maximum batch size, burn time and combustion air settings must be confirmed and documented in an as commissioned data sheet which is to be provided to the hospital and SPREP for future reference.</li> </ul>						
<b>Incinerator Theory and Operational Training</b>	<ul style="list-style-type: none"> <li>A minimum of 3 OFF informal training sessions for a duration of not less than 30 Minutes duration shall be performed for the incinerator operational staff. The first session shall be performed at the conclusion of plant installation either after or during the refractory curing procedure.</li> <li>Two more training sessions shall be performed on two separate days simultaneously with the incinerator start up trial burns. Training shall address the theory of operation of the incineration plant, identification and maintenance of all incineration plant components and operation of the incineration plant in an effective and environmentally sound manner.</li> <li>Staff from Helena Goldie Referral Hospital are the key recipients of this on-the-job training, additional staff from other provincial hospitals can attend free of charge, but travel and related costs are to be borne by MHMS.</li> </ul>						
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Thermocouples	Secondary Chamber Thermocouple	2 off
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<b>Provision of Personal Protective Equipment</b>	<ul style="list-style-type: none"> <li>3 sets of Leather Gloves &amp; Full-face shields</li> </ul>	