SCOPE OF SERVICES – CLIMATE RISK AND ADAPTATION

1. **Background**
	1. The Commonwealth’s National Climate Resilience and Adaptation Framework and Strategy articulates Australia’s commitment to build resilient communities, economy and environment.
	2. The Defence White Paper 2016 identifies that climate change will result in risks to the sustainment of the Defence estate.
	3. Impacts from climate risks include:
		1. inundation and erosion of coastal bases and training areas;
		2. structural damage to critical infrastructure and capability equipment;
		3. increased frequency and intensity of flooding events;
		4. changes to the number of available training days;
		5. reduced water availability;
		6. increased maintenance and repair requirements;
		7. increased stress on Indigenous and natural heritage values and protected species; and
		8. changes to disease, pest and weed management practices.
	4. The Commonwealth requires the Consultant to provide independent advice and assistance to manage the risks associated with climate change and natural hazards, through the identification of risks and opportunities to build resilience (adapt) and reduce emissions (mitigate).
2. **Commonwealth Objectives**
	1. The objective of the Services is to support the inclusion of climate risk management into business processes and decision making, including the:
		1. Provision of policy advice relating to climate risk management, adaptation and emissions reduction and associated reporting.
		2. Identification and prioritisation of climate related risks and opportunities, developed in a method consistent with existing risk frameworks and based on reliable, consistent and up-to-date data sources.
		3. Identification and analysis of climate risk adaption options and emissions reduction options, based on best practice and innovation.
		4. Assurance that climate risk management processes have been delivered according to Statutory Requirements, based on appropriate checks and balances.
		5. Monitoring and verification of the outcomes of climate risk management across time and providing recommendations to improve, based upon evidence.
	2. The scope of Services for an Engagement will depend on the circumstances that arise at the point in time and will range across strategy, program and project levels. The level (strategy, program or project) at which the Services will be required will be determined by any resultant Engagement.
3. **Skills and Qualifications**
	1. The Commonwealth requires suitably skilled persons to be offered by the Consultant, matched to the specific needs of the Services.
	2. The Consultant must have and maintain for the term of the Engagement an in-depth understanding of the following climate change adaptation and mitigation areas:
		1. The United Nations Framework Convention of Climate Change;
		2. The United Nations Sustainable Development Goals;
		3. The Paris Agreement and Australia’s 2030 Emissions Reduction Target;
		4. The *National Greenhouse and Energy Reporting* *Act* 2007;
		5. The National Climate Resilience and Adaptation Framework and Strategy;
		6. Australian and international standards and building codes in existence, or which may be created, that relate to climate change and natural hazards;
		7. Climate data providers and research agencies, including the Intergovernmental Panel on Climate Change, CSIRO and the Bureau of Meteorology; and
		8. Other contemporary Commonwealth Statutory Requirements and policy guidance that relates to climate change mitigation and adaptation.
4. **Strategic, Advisory and Policy**
	1. The Consultant must provide strategic, advisory or policy services in accordance with the timeframes outlined by the Commonwealth's Representative. These Services may include the provision of policy development, review and advice relating to "climate risk management". "Climate risk management" encompasses:
		1. climate risk identification, including secondary risks such as legal, financial and operational risks;
		2. climate adaptation pathways; and
		3. greenhouse gas emissions reduction.
5. **Services**
	1. The Consultant must provide the following Services in accordance with the timeframes outlined by the Commonwealth's Representative:
		1. Provide climate risk management servicesin relation to:
			1. Estate planning;
			2. Infrastructure designs, construction, operations and maintenance;
			3. Utility design, supply, security and resiliency;
			4. ICT project designs and operational maintenance;
			5. Land management and maintenance activities;
			6. Cultural and historic management;
			7. Work health and safety;
			8. Emergency management;
			9. Supply chain logistics;
			10. Military equipment and platform designs;
			11. Military training activities;
			12. Military training operations;
			13. Military humanitarian aid and disaster response;
			14. Military preparedness and planning; and
			15. Environmental security threats and vulnerabilities.
		2. Identify and prioritise climate related risk and opportunities, developed in a method consistent with existing risk assessment processes and based on reliable and up-to-date data sources.
		3. Identifygreenhouse gasemissions sources, developed in a method consistent with the latest national greenhouse account factors, and based on reliable and up-to-date data sources.
		4. Identify and analyse climate adaption options, based on evidence and best practice.
		5. Identify and analyse climate emission reduction options, based on evidence and best practice.
		6. Adjust, develop and/or consolidate monitoring and reporting, including:
			1. Identified and emerging climate risks;
			2. The outcomes of implemented adaptation solutions; and
			3. Greenhouse gas emissions.
		7. Adjust and/or develop anassurance process to monitor and verify the outcomes of climate risk management across time, including the provision of recommendations to improve the system.
		8. Provide assurance that climate risk management processes have been delivered according to Statutory Requirements, based on appropriate checks and balances.
		9. Develop and/or provide professional training services relevant to climate risk management.
		10. Develop desktop and/or detailed climate risk analysis, assessments and adaptation strategies.
		11. Developdesktop and/or detailed greenhouse gas emissions profiles and reduction strategies.
		12. Review and provide advice about climate risk management and emission reduction options.
		13. Advise, adjust and/or develop business products to include climate risk management, including:
			1. Infrastructure business case templates;
			2. Military equipment business case templates;
			3. Cost-benefit analysis methods;
			4. Multi-criteria analysis methods;
			5. Return on investment analysis methods;
			6. Risk assessment criteria;
			7. Management procedures;
			8. Data capture and analysis methods; and
			9. Reporting methods.
		14. Advise, adjust and/or develop business guidance and tools to support end users to implement climate risk management, including:
			1. Climate change and natural hazard profiles;
			2. Climate change and natural hazard maps;
			3. Climate change and natural hazard models;
			4. Emission calculators and analysis tools;
			5. Climate risk, adaptation and emission reduction summaries;
			6. ‘How to’ guides to perform a climate risk assessments and adaptation strategies;
			7. Case studies; and
			8. Environmental security indexes.
6. **Meetings**
	1. The Consultant may be required to attend and participate in meetings as specified for a particular Engagement including project team meetings and meetings with stakeholders.
	2. The Consultant may be required to travel to Defence sites or other locations as part of delivering the Services.
7. **Deliverables**
	1. As specified for a particular Engagement including reports, presentations, papers, reviews and advices.
8. **Interpretation**

Unless the context otherwise requires, capitalised terms in the Scope of Services or Brief will have the meaning given to them by the Defence Infrastructure Panel - Environment, Heritage and Estate Engineering 2020 - 2027 Terms of Engagement, Panel Conditions, Official Order, or the meaning given to them by the Commonwealth as published on the Defence website (<https://www.defence.gov.au/business-industry/procurement/panel-arrangements/dip-ehee>), from time to time.