SCOPE OF SERVICES – CONTAMINATION REMEDIATION WORKS

1. **Background**
   1. Defence has a legacy of contaminated sites from past industrial and military practices that require considered management using a risk-based approach. As part of the national risk-based program to manage contamination risks across the estate, Defence undertakes active contamination management and remediation action as required and based on risk. Experienced civil remediation works contractors implement these management and remediation actions to assist Defence in mitigating the contamination risks to human health and the environment.
2. **Commonwealth Objectives** 
   1. Contamination of the environment can have a range of legal, environmental, economic, social and planning implications for the Commonwealth and the wider community. The presence of contamination can limit the uses that the Commonwealth may have for its property and has the potential to significantly increase costs for redevelopment and day-to-day management.
   2. Contamination of Defence terrestrial and marine environments, like that on sites historically used for industrial purposes, is principally due to past practices, a lack of adequate planning to improve processes and/or an inadequate appreciation of the infrastructure or technology required to manage potentially contaminating activities. Many sites date back to World War II, when managing these issues was not recognised as a priority. Today, where contamination is identified, Defence applies appropriate management in order to safeguard human health, protect the environment and limit Commonwealth and taxpayer liabilities.
   3. As part of the national risk-based program to manage contamination risks across the estate, Defence undertakes active contamination management and remediation action as required. Experienced civil remediation works contractors implement these management and remediation actions to assist Defence in mitigating the contamination risks to human health and the environment.
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. The Consultant must have and maintain for the term of the Engagement an in-depth understanding of all relevant Statutory Requirements and policy frameworks for the Services, including any relevant applicable Australian and international standards.
   2. The Consultant must maintain for the Term of the Engagement personnel that satisfy the specific requirements outlined below in the skills matrix:

Table 1: Minimum skills Matrix for Service Category

| **Standard** | **Experience** | **Accreditation** |
| --- | --- | --- |
| Project Director | Minimum 10 years in the contamination remediation industry | N/A |
| Senior Project Manager | Minimum 8 years in the contamination remediation industry | N/A |
| Project Manager | Minimum 5 years in the contamination remediation industry | N/A |
| Senior Site Manager | Minimum 8 years in the contamination remediation and/or civil works industry | N/A |
| Site Manager | Minimum 5 years in the contamination remediation and/or civil works industry | N/A |
| WHS Supervisor | Minimum 5 years in the contamination remediation and/or civil works industry | Relevant State Accreditation (as required for an Engagement or under any relevant Statutory Requirement) |
| Asbestos Supervisor | Minimum 5 years in the contamination remediation and/or civil works industry | Relevant Licence (as required for an Engagement or under any relevant Statutory Requirement) |

1. **Strategic, Advisory and Policy** 
   1. The Consultant must work within the remediation design as provided from time to time. This may also include participation in design scope to assist and identify practical changes to the scope to achieve remediation outcomes.
2. **Services**
   1. The Consultant must provide the following Services in accordance with the timeframes outlined by the Commonwealth's Representative:
      1. Undertake remediation civil works (i.e. any physical remediation or associated works) including:
         1. Decommissioning, removal and validation of above ground and underground storage tanks;
         2. Sediment and erosion control works;
         3. Geophysical surveys;
         4. Onsite capping and containment;
         5. Excavation and offsite disposal;
         6. Soil treatment including thermal desorption, soil washing, immobilisation/stabilisation, oxidation, acid leaching and air sparging;
         7. Bioremediation and phytoremediation;
         8. Permeable reactive barriers;
         9. Pump and treat;
         10. Multiphase contaminant extraction;
         11. Soil vapour and/or solvent extraction;
         12. Hazardous materials identification, removal and disposal from buildings; and
         13. Identification and clean up, disposal and/or treatment of asbestos in soil.
      2. Reinstate remediated sites, including:
         1. refilling excavations with stockpiled clean material or validated imported backfill;
         2. topsoiling; and
         3. revegetation.
   2. Undertake remediation works design and validation, including the requirement to conduct all aspects of siting, design, method of works, approvals/licences/compliance certificates from relevant issuing authorities, insurances, operation, waste classification and treatment of contaminants and materials, waste tracking and controls, site management and access control and decommissioning activities.
   3. The Consultant must identify risks arising from or associated with the delivery of the Services and eliminate those risks so far as is reasonably practicable and if elimination is not possible, minimise those risks so far as is reasonably practicable.
3. **Meetings**
   1. The Consultant will 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.
4. **Deliverables**
   1. As specified for a particular Engagement including reports, presentations, papers, reviews and advices.
5. **Technical Requirements**
   1. See the minimum skills requirements in paragraph 3.2.
6. **Interpretation**
   1. 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 - 2025 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.