

TERMS OF REFERENCE FOR INDIVIDUAL CONSULTANTS

Title:	Duty Station:
Engineering Consultant (National)	<i>Home-based</i>
Purpose of Activity/Assignment:	
To support UNICEF, partners, and the Indonesian government in improving the water, sanitation, and hygiene (WASH) services in healthcare facilities (HCFs) by providing engineering solutions to enable upgrading of WASH facilities with climate, gender and disability aspects.	
Background:	
<p>Improved water, sanitation, and hygiene (WASH) services in healthcare facilities (HCFs) are crucial to ensure infection prevention and control (IPC) practices, reduce healthcare-associated infections (HAI), and to promote the human rights and dignity of patients, visitors and health workers. Poor WASH services can lead to increased health risks, including neonatal deaths and sepsis. The Indonesian government has committed to improving WASH in HCFs, and the national Healthcare Facilities Survey (Rifaskes) monitors the availability and adequacy of WASH in HCFs. UNICEF will support the government in enhancing the awareness and capacity of sub-national governments and healthcare facilities to improve and monitor WASH facilities and services in HCFs, especially in seven focus provinces.</p> <p>To achieve this, UNICEF will provide stimulants to selected healthcare facilities, improve standard operational procedures (SOP) for hand hygiene, environmental cleanliness and medical waste management; and embed climate resilience and gender equality, disability, and social inclusion (GEDSI) into the program planning and implementation. Additionally, UNICEF will build partnerships with local CSOs to achieve Country Programme 2021-2025 output 2.2 Elimination of Open Defecation. Good data, strong national leadership, and coordination are crucial to direct resources and actions towards improving WASH in HCFs in Indonesia.</p>	
Scope of Work:	
<p>UNICEF Indonesia is planning to hire an individual national consultant who can deliver engineering services to the project. The objective of the proposed assignment is to improve WASH facilities in health centers, leading to reduced transmission of COVID-19 and other infectious diseases. The scope of work includes providing customized engineering solutions to upgrade WASH infrastructure in health centers, and ensuring that they are compliant with climate, gender, and disability aspects.</p> <p>Several key components are aimed at improving the water, sanitation, and hygiene (WASH) services in healthcare facilities (HCFs) in Indonesia. It includes compiling and reviewing existing designs and documents of water, sanitation, and hygiene facilities in health centers. This will be done to ensure that these facilities are compliant with climate, gender, and disability aspects. The consultant will develop a manual that includes technical drawings, detailed specifications, bill of quantities, and costing for WASH infrastructure components. In addition, district officials and partners will be trained on integrating climate, gender, and disability compliant infrastructure. This will be achieved through seven one-day training programs in seven provinces, two-day field visits in seven provinces, and two-day monitoring visits in seven provinces. The consultant will also develop a detailed monthly monitoring framework and submit monthly monitoring reports.</p> <p>The second part of the scope of work involves providing customized engineering solutions to field construction issues. This includes developing designs, drawings, specifications, quality standards, and incorporating climate and GEDSI aspects. The consultant will also communicate regularly with the engineering teams of the Ministry of Health, Ministry of Public Works, and other relevant stakeholders in harmonizing designs and standards related to health centers. Additionally, periodic customized reports will be prepared as necessary.</p>	

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<p>Some of the key tasks included in this assignment are:</p> <ul style="list-style-type: none"> - Compile and review the existing designs and documents of WASH facilities in health centers - Develop Climate, Gender and Disability compliant manual - Train the district officials and partners - Develop detailed monthly monitoring framework - Desk Review of all Infrastructure development plans with estimates and costing of each Puskesmas - Provide customized engineering solutions to field construction issues - Document the technical information, processes, and costs of infrastructure upgrades 		
Supervisor: WASH Specialist	Start Date: 01 Jun 2023	End Date: 29 Feb 2024
<p>Important Note: Individuals engaged under a consultancy or individual contract will not be considered “staff members” under the Staff Regulations and Rules of the United Nations and UNICEF’s policies and procedures and will not be entitled to benefits provided therein (such as leave entitlements and medical insurance coverage). Their conditions of service will be governed by their contract and the General Conditions of Contracts for the Services of Consultants and Individual Contractors. Consultants and individual contractors are responsible for determining their tax liabilities and for the payment of any taxes and/or duties, in accordance with local or other applicable laws.</p> <p>The selected candidate is solely responsible to ensure that the visa (applicable) and health insurance required to perform the duties of the contract are valid for the entire period of the contract. Selected candidates are subject to confirmation of fully-vaccinated status against SARS-CoV-2 (Covid-19) with a World Health Organization (WHO)-endorsed vaccine, which must be met prior to taking up the assignment. It does not apply to consultants who will work remotely and are not expected to work on or visit UNICEF premises, programme delivery locations or directly interact with communities UNICEF works with, nor to travel to perform functions for UNICEF for the duration of their consultancy contracts.</p> <p>UNICEF offers reasonable accommodation for consultants with disabilities. This may include, for example, accessible software, travel assistance for missions or personal attendants. We encourage you to disclose your disability during your application in case you need reasonable accommodation during the selection process and afterwards in your assignment.</p>		
Work Assignment Overview		
Tasks/Milestone	Deliverables/Outputs	Timeline
Compile existing designs and documents of WASH facilities in health centers; review and revise as appropriate by including Climate, Gender and Disability aspects.	Report of Existing Documents and Designs (about 10 pages)	5 days, due date 30 June 23
Develop Climate, Gender and Disability compliant manual with technical drawings, detailed specifications, bill of quantities and costing- for water, sanitation, and hygiene infrastructure components	Engineering Manual for WASH in Health Facilities (with minimum 15 types) (about 50 pages with detailed drawings and specifications)	30 days, due date 30 Sep 23
Train the district officials and partners on integrating Climate, Gender and Disability compliant infrastructure <ul style="list-style-type: none"> - 7 one-day Training Programs in 7 Provinces (1 day for reporting) - Two-day Field Visits in 7 provinces (1 day for reporting) 	7 Training Reports (June- Dec) (5 pages including agenda and training content) 7 Field Visit Reports (June- Dec) (2 page reports including action plan)	35 days, due date 30 Dec 23

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Two-day Monitoring Visits in 7 provinces (1 day for reporting)	7 Monitoring Reports (Oct- Dec) (2 page reports including action plan)	21 days, due date 31 Dec 23
Develop detailed monthly monitoring framework of the project components, and submit Progress reports	4 Progress Reports (Jun- Sep) 5 Progress Reports (Oct- Feb)	12 days, due date 30 Sep 23 15 days, due date 29 Feb 24
Prepare periodic customized reports as necessary	3 customized Reports (about 10 pages)	6 days, due date 29 Feb 24
Desk Review of all Infrastructure development plans with estimates and costing of each Puskesmas.	Approved Plans for 125 Puskesmas. (June- Sep)	15 days, due date 30 Sep 23
Provide customized engineering solutions to field construction issues, including designs, drawings, specifications, quality standards and incorporation of climate and GEDSI aspects	10 Engineering reports (June- Sep) (1-page reports on issue and solutions) 10 Engineering reports (Oct- Feb) (1-page reports on issue and solutions)	10 days, due date 30 Sep 23 10 days, due date 29 Feb 24
Communicate regularly with the engineering teams of Ministry of Health, Ministry of Public works and other relevant stakeholders in harmonizing designs and standards related to health centers.	Summary of 10 meeting minutes (June- Sep) Summary of 10 meeting minutes (Oct- Dec)	5 days, due date 30 Sep 23 5 days, due date 31 Dec 23
Document the technical information, processes, and costs of infrastructure upgrades, including a detailed record of the work before and after the upgrades, as well as the best practices and lessons learned during the process.	Final Document (Jan- Feb) (A ppt and word document with about 50 pages)	10 days, due date 29 Feb 24
	Total	179 days

Payment Schedule	List of Deliverables
First Payment- 30 Sep 2023 77 days (44% of total payment) or the actual deliverables submitted, whichever is lower	Report of Existing Documents and Designs Engineering Manual for WASH in Health Facilities 4 Progress Reports Approved Plans for 125 Puskesmas 10 Engineering reports Summary of 10 meeting minutes
Second Payment- 31 December 2023 61 days (34% of total payment) or the actual deliverables submitted, whichever is lower	7 Training Reports 7 Field Visit Reports 7 Monitoring Reports Summary of 10 meeting minutes
Third Payment- 29 February 2024 41 days (22% of total payment) or the actual deliverables submitted, whichever is lower	5 Progress Reports 3 customized Reports 10 Engineering reports Final Document

<p>Minimum Qualifications required: <input type="checkbox"/> Bachelors <input checked="" type="checkbox"/> Masters <input type="checkbox"/> PhD <input type="checkbox"/> Other</p> <p>Enter Disciplines:</p> <ul style="list-style-type: none"> - A master's degree in environmental engineering (or any other related fields) with a bachelor's degree in civil engineering. 	<p>Knowledge/Expertise/Skills required:</p> <p>Skills:</p> <ul style="list-style-type: none"> - Should be able to communicate and prepare documents in both Bahasa and English - Excellent technical skills in designing, implementing, and monitoring water, sanitation, and hygiene infrastructure components. - Strong skills in project management, including planning, implementation, monitoring, and reporting. - Ability to work effectively with diverse stakeholders, including government officials, contractors, and local communities. - Knowledge on integrating climate, gender, and disability compliant infrastructure. <p>Experience:</p> <ul style="list-style-type: none"> - At least 5 years of experience in designing, implementing, and monitoring infrastructure projects. - Experience in construction, monitoring, supervising infrastructure projects, preferably in water and sanitation. - Proven experience in developing technical manuals, specifications, and bill of quantities for infrastructure components. - Experience in providing customized engineering solutions to field construction issues, including designs, drawings, specifications, quality standards, and incorporation of climate and GEDSI aspects. - Experience of working with government, and UN agencies (desirable)
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