**TERMS OF REFERENCE FOR INDIVIDUAL CONSULTANTS AND CONTRACTORS**

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| **Title**: **National Consultant** for designing pipe network water supply systems in Rakhine State and Magwe Regions | **Funding Code:** 100% from **SC200848** Government of Japan for Rakhine (31 Dec 2022) | **Type of engagement**[ ]  Consultant [ ]  Individual Contractor Part-Time[x]  Individual Contractor Full-Time | **Duty Station**:Nay Pyi Taw (With frequent travel to Rakhine & Magwe. For in-country travel requirements / frequencies, see in “Scope of Work” section below) |

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| **Purpose of Activity/Assignment:** With the support of Government of Japan, UNICEF is implementing climate resilient community managed water supply systems in Rakhine State in 2021 and the activities will be completed in December,2022. In addition, UNICEF has been implementing Climate resilient water supply systems under the “Accelerating Sanitation and Water for All II (ASWA II)” from 2018 to 2022 which is ending March 31, 2022. The focus at this stage is to provide technical support in the field in implementation community managed climate resilient water supply systems at selected communities in Rakhine State and Magwe Regions. * To support WASH team in UNICEF Myanmar CO and UNICEF Field offices in the implementation and monitoring of community managed water supply systems for people in targeted rural communities
* To coordinate and work closely with Water User Committees at community level and to provide technical support for pipe network design, distribution of pipes & pumping systems and implementation of water supply systems with high quality standards and in a timely manner

In close collaboration with UNICEF Myanmar CO and Field offices, the national consultant will provide technical support for construction/upgrading of community managed water supply systems for a total of 63 communities in 8 townships with below specific tasks: 1. Carry out field work, feasibility study, survey, design and Bill of Quantity for gravity fed system and other feasible water supply systems
2. Assist in plumbing of pipe network systems
3. Under the guidance of the supervisor, provide technical advice to take necessary actions to implement water supply related activities with high quality standards and in a timely manner and inputs for donor reports
4. Provide oversight in the implementation and monitor the progress of construction / upgrading of water supply systems
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| **Scope of Work:**Through implementation of this Climate Resilience Water Supply System at 63 communities in 8 Townships, approximately **50,000** people are expected to directly benefit from this project. Furthermore, it is hoped that the project model will lead to scale up which would mean indirectly benefitting neighboring communities and townships across the region. UNICEF together with Water User Committees is implementing Provision of Climate Resilient Water Supply Systems for the Rural Poor households in Natmauk, Sinbaungwe’, Kyaukpadaung, Rambee, Sittwe, MarukOo, Minbya and Buthidaung in Magwe Regions and Rakhine State. This programme in Rakhine is mainly funded by Government of Japan and project in Shan and Magway supported by FCDO which aims to support the building resilience of vulnerable populations affected by armed conflict and natural disasters in Myanmar. The key activities will be designing of gravity-fed pipe network designs of targeted communities, on-the-job training for WUCs such as plumbing of pipe network system and development of water safety plans. Milestone and deliverables by state/region will adjusted every month based on the urgency, security situation and travel authorization approval especially regard to traveling to Rakhine rural areas. Rakhine TA request will be submitted every month. The consultant is expected to travel regularly to Rakhine as and when the TA are approved to complete the field work and design at the earliest possible time. Travel to Magway will have lesser restriction and it can be made as and when needed |

**Tentative implementation plan and expected results, number of trip & duration of stay per month**

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| Sr |  | State/Regin | Township | # of System | # of Design | # systemConstructed | Trip frequency/ month | Excepted duration (days) / month |
| 1 | Mar | Rakhine | Rambee | 10 | 10 | 3 | 1 | 20 |
| 2 | Apr | Rakhine | MarukOo | 10 | 10 | 3 | 1 | 20 |
| 3 | May | Rakhine | Minbya | 2 | 2 | 2 | 1 | 5 |
|  |  |  | Sittwe | 2 | 2 | 2 | 1 | 5 |
|  |  |  | Rambee |  |   | 2 | 1 | 5 |
| 4 | Jun | Magwe | Natmauk | 18 | 10 |   | 2 | 15 |
| 5 | Jul | Magwe | Natmauk |  | 8 |   | 2 | 14 |
|  |  |  | Sinbaungwe' | 5 | 5 |   | 1 | 6 |
| 6 | Aug | Mandalay | Kyaukpadaung | 10 | 10 |   | 2 | 10 |
| 7 | Sep | Magwe | Natmauk | 10 |   | 10 | 2 | 15 |
| 8 | Oct | Magwe | Natmauk |  |   | 8 | 2 | 10 |
|  |  |  | Sinbaungwe' |  |   | 5 | 1 | 5 |
| 9 | Nov | Rakhine | Kyauktaw | 5 | 5 | 5 | 1 | 15 |
|  |  |  | Buthidaung | 2 | 2 | 2 | 1 | 10 |
| 10 | Dec | Rakhine | MarukOo |  |   | 7 | 2 | 5 |
|  |  |  | Rambee |  |   | 5 | 1 | 5 |
| 11 | Jan | Rakhine & Mandalay | Kyaukpadaung |  |   | 10 | 2 | 10 |
|  |  | Total |  | 62 | 62 | 62 |  |  |

Note-1. During the rainy season, from June to October, the activities will be implemented in dry zone.

Note-2. At Buthidaung, at least TWO system will be implemented, and the number may increase.

Note-3. Currently Travel Authorization in Rakhine allows only in urban areas and camp except Buthidaung. No restriction at planned townships in Magwe and Mandalay Regions

Note-4. UNICEF staff members had been met with communities of planned communities

Note-5. At least one UNICEF staff will join with consultant during designing in each project township for starting activities.

Note-6 Preparation of Pipe network design is main responsibility consultant and only supervision will be required for construction of systems

Note-7. The list of planned communities and township map will be shared to interested consultant in request.

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| **Child Safeguarding** Is this project/assignment considered as “[Elevated Risk Role](https://unicef.sharepoint.com/sites/DHR-ChildSafeguarding/DocumentLibrary1/Guidance%20on%20Identifying%20Elevated%20Risk%20Roles_finalversion.pdf?CT=1590792470221&OR=ItemsView)” from a child safeguarding perspective?        [ ]    YES    [x]    NO     If YES, check all that apply:                                                                                                                                                    **Direct contact role**[ ]  YES     [x]   NO  If yes, please indicate the number of hours/months of direct interpersonal contact with children, or work in their immediately physical proximity, with limited supervision by a more senior member of personnel:

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 **Child data role**[ ]  YES    [x]   NO   |

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| **Budget Year:** | **Requesting Section/Issuing Office:** | **Reasons why consultancy cannot be done by staff:** |
| 2022 | Water, Sanitation and Hygiene (WASH) Section | This assignment is needed to hire a consultant because under the current situation we cannot work with the de-facto authorities who used to provide support in carrying out feasibility study, survey, design and bill of quantities calculation. Technical support with field presence is needed. UNICEF staff can only make short field visit. This task will need a person who can be based in the field with strong technical skills to prepare gravity-fed pipe network designs starting from profile survey through preparation of pipeline designs, preparation of BoQ, on-the-job training on plumbing to closely working with Water User Committees of selected communities and supervision in construction works at community level. Another major task is to provide training on O & M water systems for sustainable manner. This is really crucial for WASH sector because this will help to contribute for climate resilient, sustainable community managed pipe network systems in protracted conflict/hard to reach areas. In addition, this task will be field work and he/she will have to be present in the field most of the time. The consultant will have to extensively travel to the selected communities in Magwe, Rakhine regions and spend 80% of his/her time in the field. The consultant will work closely with Water User Committees and UNICEF staff to provide sustainable and climate resilience water systems in selected areas. WASH Section, therefore, needs a full-time one national consultant for 11 months (1 March2022 to 1 Jan 2023). |

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| **Included in Annual/Rolling Workplan***:* [x] Yes [ ]  No, please justify:**Outcome reference:** By 2022, families, learning centres and health facilities in high burden states and regions have equitable access to and utilize safe, affordable, adequate and equitable WASH services across the lifecycle, especially the most vulnerable children and women**Output references:** #001: By 2022, deliver equitable, safe, gender sensitive and climate resilient drinking water supply services to vulnerable populations in targeted States and Regions at scale.W2: Affected populations have safe and equitable access to and use a sufficient quantity and quality of water to meet their drinking and domestic needs. The specific activities are;-Support implementation of model community managed water supply systems in select townships /communities-Establish community climate resilient water supply systems in targeted communities |

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| **Consultant sourcing:**[x]  National [ ]  International [ ]  Both**Consultant selection method:** [ ]  Competitive Selection (Roster)[x]  Competitive Selection (Advertisement/Desk Review/Interview) | **Request for:**[x]  New SSA – Individual Contract[ ]  Extension/ Amendment |
| **If Extension, Justification for extension:** |  |

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| **Supervisor:** | **Start Date:** | **End Date:** | **Number of Days (working)** |
| ***Direct supervisor****: WASH Officer (Water Supply) NPT Office with support and guidance from Section Chief WASH****Technical supervisor:*** *Technical support from WASH Officers from NayPyiTaw CO and Rakhine Field Offices*  | *1st March 2022* | *31st January 2023* | *11 months, Full-time Regular Office Hours* |

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| If yes, please indicate the number of hours/months of manipulating or transmitting personal-identifiable information of children (name, national ID, location data, photos):  |
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| More information is available in the [Child Safeguarding SharePoint](https://unicef.sharepoint.com/sites/DHR-ChildSafeguarding/SitePages/Amendments-to-the-Recruitment-Guidance.aspx) and [Child Safeguarding FAQs and Updates](https://unicef.sharepoint.com/sites/DHR-ChildSafeguarding/DocumentLibrary1/Child%20Safeguarding%20FAQs%20and%20Updates%20Dec%202020.pdf) |

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| **Work Assignment Overview** |
| Tasks/Milestone: | Deliverables/Outputs: | Timeline | Estimate Budget  |
| Provide technical assistance to Sittwe UNICEF Field office / NayPyiTaw CO and water user committees in planning, designing and calculation of bill of quantity (BoQ) for 10 water supply systems (Rakhine State and or Magwe Region) and supervise construction of 3 water supply systems. | **At least 10 village water supply** **systems** design, BoQ prepared and or constructed**Supervise construction of 3 Systems** | 1st month |  |
| Provide technical assistance to Sittwe UNICEF Field office / NayPyiTaw CO and water user committees in planning, designing and calculation of bill of quantity (BoQ) for 10 water supply systems (Rakhine State and or Magwe Region) and supervise construction of 3 water supply systems. | **At least 10 village water supply** **systems** design and BoQ prepared **Supervise construction of 3 Systems** | 2nd month |  |
| Provide technical assistance to Sittwe UNICEF Field office / NayPyiTaw CO and Water User Committees in planning, designing and calculation of bill of quantity (BoQ) for 4 water supply systems (Rakhine State and or Magwe Region) and supervise construction of 6 water supply systems | **At least 4 village water supply** **systems** design, BoQ prepared and constructed**Supervise construction of 6 Systems** | 3rd month |  |
| Provide technical assistance to NayPyiTaw CO and Water User Committees in planning, designing and calculation of bill of quantity (BoQ) for 10 water supply systems (Magwe Region). | **At least 10 village water supply systems** design, BoQ prepared and constructed | 4th month |  |
| Provide technical assistance to NayPyiTaw CO and Water User Committees in planning, designing and calculation of bill of quantity (BoQ) for 5 water supply systems (Magwe Region). | **At least 13 village water supply** **systems** design, BoQ prepared and constructed | 5th month |  |
| Provide technical assistance to NayPyiTaw CO and Water User Committees in planning, designing and calculation of bill of quantity (BoQ) for 10 water supply systems (Mandalay Region). | **At least 10 village water supply systems** design, BoQ prepared  | 6th month |  |
| Provide technical assistance to NayPyiTaw CO and Water User Committees in planning, designing and calculation of bill of quantity (BoQ) for 10 water supply systems (Magwe Regions). | **Supervise construction of 10 village water supply systems**  | 7th month |  |
| Provide technical assistance to NayPyiTaw CO and Water User Committees in supervision of (BoQ) for 13 water supply systems (Magwe Regions). | **Supervise construction of 13 village water supply systems**  | 8th month |  |
| Provide technical assistance in planning, designing and calculation of bill of quantity (BoQ) for 7 water supply systems and supervise construction of 7 water supply systems(Rakhine State). | At least **7 village water supply systems** design and BoQ prepared **Supervise construction of 7 Systems**  | 9th month |  |
| Provide technical assistance in planning, designing and calculation of bill of quantity (BoQ) for 12 water supply systems (Rakhine State). | **Supervise construction of 12 Systems**  | 10th month |  |
| Provide technical assistance to Sittwe UNICEF Field office and Water User Committees in construction supervision of 10 water supply systems (Rakhine State and Mandalay Region) | **Supervise construction of 10 Systems**   | 11th month |  |

*The order of the deliverables is not rigid, and the consultant will need to be flexible to provide technical assistance at Rakhine, Magwe, NPT and other location as the ground situation evolves.*

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| **Minimum Qualifications required:** | **Knowledge/Expertise/Skills required:** |
| [ ]  Bachelors [x]  Masters [ ]  PhD [ ]  Other **Enter Disciplines** Advanced university degree in one of the disciplines relevant to the following areas: Civil or Mechanical Engineering, Water Supply or Environmental Engineering, Public Health or other specialist field related to WASH is required. A first university degree in a relevant field combined with 2 additional years of professional experience may be accepted in lieu of an advanced university degree. | **Work Experience*** At least five years of relevant professional work experience in WASH
* Knowledge of WASH-related technical guidelines, standards and indicators
* Experience in designing and implementation of pipe network design system in rural areas
* A minimum of five years of experiences in humanitarian assistance will be an asset.
* Community mobilization, coordination and facilitation experiences.

**Language Proficiency**• Native Myanmar language Speaker • Fluency in English is required (oral and written) |
| **Administrative details:**Visa assistance required: [ ] Transportation arranged by the office: [ ]  |  [x]  Home Based [ ]  Office Based:If office based, seating arrangement identified: [ ]  only 5 % or less in Nay Pyi Taw and visit UNICEF office when required but the consultant is expected to spend >80 percent of time in the field.IT and Communication equipment required: [ ] Internet access required: [ ]  |