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| ***Section A*** |  |
| Title: | WASH in Emergency Consultancy |
| Duty Station:  | Beirut | Type of Engagement: | Consultant |
| Request for: | New Contract  |  |
| Requesting Section: | WASH | Focal Person: | Rania Ali Abdalla |
| Budget Year: | 2022 | Funding Code: |  |
| Start Date: | 1-Mar-22 | End Date:(when extension, enter new end date)  | 31-Dec-22 | Number of Days (working):  | 210 |
| Included in AWP/RWP:  | **Yes** |  |
| **Work Assignment:** |
| UNICEF started in 2018 a project funded by Bill and Melinda Gates Foundation. This project aims at demonstrating the efficiency of treatment of selected sanitation technology. Once the successful system is identified the system will be developed and constructed in Lebanon with SME’s support.With the support of 7 of its partners, UNICEF had installed 32 pilots in the country, and 70 are planned for 2022These pilots have tested a combination of different technologies: Anaerobic Baffled Reactors, Anaerobic filters, Trickling Filters, Biological Aerated Filters, Conventional Wetland, Aerated Wetland, slow sand filter, Ultra violets…As a result, UNICEF and its partners have been able to identify two different product profile enabling the treatment of the Wastewater generated by the people living in Informal settlements. Those systems are meant to be put at scale by a selected company in country. In parallel, all the design are open source and the DFM report will be shared with the Global TwiG. Since 2020 – UNICEF WASH section has been developing a water and a sanitation Action plan to ensure improving the cost effectiveness of the water trucking and desludging activities. Those plans are proposing to optimize those unsustainable cost with critical investment to ensure a turnaround over five years.**Scope of Work:**Under the overall supervision of the Emergency WASH Specialist, and in close collaboration with the Water Sector and UNICEF WASH Officer, the Consultant will update and ensure proper implementation of the Water and Sanitation Action Plans to be reviewed and approved by the Ministry of Energy and Water, in addition to identification of aninnovative solution including a strong Public Private Partnership.Regarding sanitation, the aim of the Action Plan is to establish a roadmap of investments required to reducerisks of pollution from Informal Settlements. The Action Plan should inform on most efficient and cost-effective wastewater facilities to be installed in all the Informal Settlements according to national guidelines, geographical specificities, pedological and hydrogeological data, local acceptance, and local capacities to treat the sludge. The Consultant will update the list of priority measures at national level, and per area or site, directed at ensuring the provision of equitable access to sanitation in informal settlements. S/he will provide technical monitoring of the different phases for the implementation of the actions.In parallel, the Consultant will ensure the Water action plan is updated and in place confirming the cost-effectiveness and control of the provision of safe drinking water through tanker trucks to the Syrian refugees living in Informal Settlements.Such plan should guide a coordinated and focused implementation of WASH activities in informal settlements.Duties include:- Regularly launch Wastewater sampling campaigns to monitor the efficiency of treatment of the decentralized WWTP- Support on the Identification of a company for DFM report - Support the evaluation consultants for the Learning and evaluation framework - Regularly prepare WAP progress dashboard updates- Lead the Sanitation Technical Thematic group- Facilitate of the installation of the Omni-processor at Iaat WWTP and support in selection of the operator and in the monitoring of the activities.- Follow up on the operationalization of the Sanitation Action Plan- Validate the Batch 3 design by the results of the WWTP.- Definition of financial needs and securing funds commitment for the production of the different units. - Contractor selection for the production of the systems (for mold production and unit commercialization) - Launch discussion with BMGF regarding the CN of Co-composting creation and development of this new market- Gradually transfer of the responsibility for the monitoring of the Sanitation action plan to the UNICEF Field Officers- Report recommendation and proposition to regulate the Desludging vendors and National legislation - Prepare the Final BMGF technical report.The consultant shall support the sector while ensuring regular coordination with Government of Lebanon (MoEW & MoE) and ensuring continuous consultation with field coordinators and sector IM.If needed, the consultant will also support the Ministry of Energy and Water to finalize and/ or update the different guidelines related to water and wastewater interventions in informal settlements.The Consultant maybe requested to undertake additional roles and duties for other projects as required.**Performance Indicators:**Consultant’s performance will be evaluated based on the following indicators:* Quality and timeliness of the completed tasks and deliverables specified in the Tors and reflected in the monthly reports
* Analysis and report on Informal settlements WASH vulnerability Assessment
* Action Plan for WASH intervention update in informal settlements. Conformance of the updated plan to Lebanon context, norms, standards, regulations and specifications. Identification of priority actions bases on analysing of existing data.
* At least 70 new sites in Governorates of Bekka, Baalbek, North/ and or Akkar and Nabatiyeh/ South have access to an innovative sustainable treatment technology.
* Submission of an updated case study report presenting the findings on the effectiveness of treatment for each pilot and every batch intervention.
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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     [ ]   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    [ ]   NO  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)  |
| **Reasons why consultancy cannot be done by staff:** | No such specific expertise in the WASH team |
| **Consultant sourcing:** |[ ]  National |[x]  International |[ ]  Both (National & International) |
| **Consultant selection method:**  | Competitive Selection (Advertisement/Desk Review/Interview) |
| **Evaluation Criteria – Please specify** (indicate point weightage below) |
| **Point system:****(i.e. 70/30)** | a | Technical | 75 | **Supervisor of the Consultancy/Contractor:** | Rania Ali Abdalla |
|  | b | Financial | 25 |  |  |
| **Minimum Qualifications Required:** | Advanced University Degree in Engineering, water and sanitation or environmental health and appropriate graduate qualifications | If Other,Enter Disciplines: |  |
| **Years of Experience required:** | 8 to 10 years |
| **Knowledge/Expertise/Skills required:** | * Eight to ten years’ experience in the WASH sector development, including experience in emergency response and humanitarian development nexus
* Previous experience in conducting water and sanitation sector needs assessments and ability to design and implement innovative and cost-effective solutions in protracted emergency context.
* Technical design and supervision experience in WASH construction (mainly in Water quality and Wastewater treatment)
* Previous work experience in implementing and coordinating WASH programmes in Lebanon and understanding of country policies and procedures is an asset.
* O&M system developed/ updates and implemented defining the separate responsibilities of all stakeholders (IS, Private sector, Water Establishments/municipalities and NGOs) for all ISs identified as cost efficient.
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***Section B***

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| **Work Assignment Expected Results** |
| Tasks/Milestone: | Deliverables/Outputs: | Timeline | Estimate Budget |
| **Month 1:*** Wastewater sampling campaign to monitor the efficiency of treatment of the decentralized WWTP
* Identification of company for DFM report
* Support the evaluation consultants for the Learning and evaluation framework
* Presentation of the technical solution in Al-Ostuan Workshop
* WAP 2022 progress dashboard
* Sanitation Thematic group
* facilitate of the installation of the Omni-processor
* support the selection of the Operator of the OP.
* Follow up on the operationalization of the Sanitation Action Plan
 | * 1 WAP Dashboard
* 1 TG meeting
* 1 presentation to Workshop
* 1 company selected for the DFM report
 | 21 days and before end of March 2022 |  |
| **Month 2:** * Validation of the Batch 3 design by the results of the WWTP. Or adaptation.
* Send the specification for DFM report
* Support the evaluation consultants for the Learning and evaluation framework
* Development of a proposal for a wider support of LARI in the wider commercialization and development of an inoculum,
* Promotion of reuse of treated WW for the irrigation - FAO + Ministry of Agriculture

  | * Analysis report and design specification to be sent to the Company in charge of the DFM report.
* 1 proposal for the larger development of the inoculum
 | 21 days and before end of April 2022 |  |
| **Month 3:*** Definition of financial needs and securing funds commitment for the production of the different units. UNICEF will commit to a minimum quantity of systems produced and procure to the different ISs.
* WAP 2022 progress dashboard
* Sanitation Thematic group
* facilitate the Audit of the Omni-processor performance.
* Follow up on the operationalization of the Sanitation Action Plan
 | * 1 DFM report (mold design)
* 1 WAP Dashboard
* 1 TG meeting
 | 21 days and before end of May 2022 |  |
| **Month 4:*** Contractor selection for the production of the systems (for mold production and unit commercialization)
* (only one company have so far shown interest in the development of our activities)
* Support the creation of an FSM alliance UN/NGO/Private partners
* Launch discussion with BMGF regarding the CN of Co-composting creation and development of this new market
* Gradual transfer of the responsibility for the monitoring of the Sanitation action plan to the UNICEF Field Officers
* Follow up of the progress of the water action plan and meeting with the NLWE and BWE for further expansion of the methodology.
 | * Production of the mold is launched.
* Creation of an alliance
* 1 assessment of the expansion of the Water action plan.
* 1 report on the possible shift to treated Wastewater reuse in agriculture
 | 21 days and before end of June 2022 |  |
| **Month 5:*** Workshop Water Safety plans for ISs and Lebanese Community with the Water Quality Thematic group
* Sanitation Thematic group
* Define recommendation and proposition to regulate the Desludging vendors
* Follow up on the operationalization of the Sanitation Action Plan
* Follow up on the expansion of the Water Action Plan
 | * 1 workshop of the Water Safety plan for ISs.
* 1 TG meeting
 | 21 days and before end of July 2022 |  |
| **Month 6:*** Report recommendation and proposition to regulate the Desludging vendors and National legislation
* WAP 2022 progress dashboard
* Follow up on the operationalization of the Sanitation Action Plan
* Follow up on the expansion of the Water Action Plan
 | * 1 report for the desludging vendors regulation + inclusion of any additional initiative (i.e. Decantra…)
* 1 WAP Dashboard
 | 21 days and before end of August 2022 |  |
| **Month 7:*** Identification of large water users interested in Reuse of Treated WW. (i.e. non food grade factories…)
* WAP 2022 report
* Sanitation Thematic group
* Follow up on the operationalization of the Sanitation Action Plan
* Follow up on the expansion of the Water Action Plan
 | * 1 draft report WAP report
* 1 TG meeting
 | 21 days and before end of September 2022 |  |
| **Month 8:*** Beginning of the production and installation of the different systems in the prioritized sites.
* Presentation of the entire project to the Global FSM TWIG
 | * 1 FSM TWIG Global dissemination of the findings
 | 21 days and before end of October 2022 |  |
| **Month 9:*** Inclusion of technology to UNICEF Supply in Copenhagen catalogue for global dissemination/availability
* Sanitation Thematic Group
 | * 1 TG meeting
 | 21 days and before end of November 2022 |  |
| **Month 10:**BMGF Final report | * Final report of the BMGF project
 | 21 days and before end of December 2022 |  |
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| **Estimated Consultancy fee:** |  |
| **Other Expenses:** |  |  |  |
| Travel International (if applicable) |  |  |  |
| Travel Local (please include travel plan) |  |  |  |
| DSA (if applicable) |  |  |  |
| In case of Individual Contracts, Annual Leave (1.5/month) and Holidays |  |  |  |
| **Total estimated consultancy costs[[1]](#endnote-2)** |  |

***Section C***

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| **Administrative details** |  |  |  |  |
|[ ]  Visa assistance required |[x]  Office Based |
|[ ]  Transportation arranged by the office |[x]  If office based, seating arrangement identified |
|[ ]  Home Based  |[x]  UNICEF email account required |
| [ ]  | Ministry Based |  |[ ]  IT and Communication equipment required |
| **Request Authorised by Section Head:** |  | **Request Verified by HR:** |
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| *Approval of Deputy Representative (if Programme)* | *Approval of Deputy Representative Operations (if Operations)* |
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| *Representative (in case of single sourcing/or if not listed in Consultant Plan)*  |
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1. Costs indicated are estimated. Final rate shall follow the “best value for money” principle, i.e., achieving the desired outcome at the lowest possible fee. Consultants will be asked to stipulate all-inclusive fees, including lump sum travel and subsistence costs, as applicable.

Payment of professional fees will be based on submission of agreed deliverables. UNICEF reserves the right to withhold payment in case the deliverables submitted are not up to the required standard or in case of delays in submitting the deliverables on the part of the consultant [↑](#endnote-ref-2)