Annex 1 to the Contract

**Procedure of implementing the public contract**

**The subject of the public contract** is the development of complete project documentation - **five Detail Designs for five community water supply systems** - and their approval by the partner organization Sidama Zones Water, Mines and Energy Department (SZWMED). The Detail Designs will subsequently serve for the selection of Suppliers of the construction of five new water supply systems in Dale, Bensa and Bona Zuriya woredas in Sidama Zone within the project „Improving quality of life by ensuring availability and sustainable management of water resources in Sidama Zone“.

**Outputs:**

* Five Detail Designs for five community water supply systems prepared in English language;
* Approval of all Detail Designs by SZWMED through a letter of consent;
* Handover of all finalized Detail Designs to SZWMED and to the Czech Development Agency documented by a handover protocol.

The Detail Designs must be **fully in compliance with Ethiopian legislation** on the construction of water supply systems, applicable bylaws and local regulations and all other regulations and laws valid in place, and must contain all documents essential for acquiring construction permits and all other permits necessary for the implementation of the construction of water supply systems in compliance with Ethiopian regulations.

The Supplier shall prepare five Detail Designs on the basis of five Preliminary Designs prepared by SZWMED (Attachments no. 1 - 5 of this document) and the following **biding parameters**:

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| --- | --- | --- | --- | --- |
| **Location** | **Casing outer diameter (inch)** | **Safe capacity of  a submersible pump (l/s)** | **Pumping position (m)** | **Protection zone (m)** |
|
| Tula,  Dale woreda | 8 5/8” | **11** | 105 | 38.37 |
| Shoye/Dageya,  Dale woreda | 8 5/8” | **6** | 135 | 15.10 |
| Hamesho,  Besna woreda | 8 5/8” | **4** | 130 | 11.11 |
| Woreta Woyo,  Bona Zuriya woreda | 8 5/8” | **1.5** | 145 | 3.00 |
| Awaye Keraro,  Bona Zuriya woreda | Spring catchment – needs to be specified by the Detail Design. | | | |

*Note: The Supplier must adopt the values of parameters as mentioned in the table on page no. 1, even if they are different from the values used in the Preliminary Designs prepared by SZWMED (e.g. safe capacity of pump for Tula must be 11 l/s only,   
not 16 l/s as stated in the Preliminary Design!).*

The Detail Designs must take into account all issues concerning hydraulic design, minimization of water loss, minimization of overall construction costs, avoidance of adverse environmental and social impacts, safety and occupational health during construction and operation of the water distribution systems.

**Each Detail Design will include, at minimum, all of the following:**

1. Detail Design Report prepared on the basis of the preliminary study, topographic and baseline surveys, including:
   * summary;
   * baseline assessment (population census, existing water sources, location and accessibility, administration, socio-economic survey etc.);
   * design objectives, methodology and criteria;
   * demand assessment (population growth and projection, water demand analysis for upcoming 20 years etc.);
   * design of the water supply system and its components: water source requirement; reservoir capacity; pump capacity and power requirement; electromechanical part (transformer, generator, generator house); pressure and distribution pipe lines, specification of fittings; location of anchor blocks, valve chambers and water points/taps etc.;
   * implementation plan.
2. Hydraulic Calculation
3. Specification and Bill of Quantity:

* project summary;
* supply and installation of pipes and fittings;
* construction of generator and guard house;
* material requirement and cost estimate of electromechanical equipment;
* valve chambers for reservoir and pipe network;
* construction of reservoir, water point with six faucets, water point with two faucets, school water point with sinks;
* specification of pressure break tank, anchor blocks;
* all other components of the water supply system.

1. Cost Breakdown
2. Design Drawings Album:

* general map of the project area;
* general layout of pressure main and distribution system;
* pressure main and distribution system profiles;
* reservoir layout with fence (roof plan and section);
* detail pipe connection at the reservoir;
* generator house (general layout, ground plan and section);
* distribution system fittings detail;
* water point with six faucets and fence (plan, section and schematic pipe connection);
* water point with two faucets and fence (plan, section and schematic pipe connection);
* school water point with sinks (plan, section and schematic pipe connection);
* pressure break tank;
* valve chamber;
* anchor block;
* other standard typical drawings (pipe trench, river and road crossing, air release and flash device etc.).

During the preparation of the Detail Designs the selected Supplier shall communicate with a representative of the partner organization SZWMED who will be informed on the selection of the Supplier by a Czech Development Agency representative. The language of communication between the Supplier and the partner organization shall be English and/or Amharic.

Each Detail Design shall be discussed with SZWMED prior to its completion.

After the completion of each Detail Design, the Supplier is requested to submit the complete documentation electronically to both SZWMED and the Czech Development Agency for **comments**. After incorporating all remarks and reflecting the objections, the Supplier is requested to submit the complete documentation electronically to both SZWMED and the Czech Development Agency for the **final approval**.

The Supplier shall then handover electronically each finalized Detail Design to SZWMED and finally **submit each Detail Design – complete and without any defects** – **to the Czech Development Agency, including a letter of consent by SZWMED.**

The Detail Designs will be submitted electronically to email address: [blinka@czechaid.cz](mailto:blinka@czechaid.cz) in PDF format and also in editable format (e.g. drawings in the format ARCHICAD / AUTOCAD / MicroStation, text and table parts in MS OFFICE format, budget in Excel, etc.). The parties will confirm completion and handover of each Detail Design by signing of handover protocol.

*The tenderer may describe here in further detail the procedure of implementing the public contract. If the tenderer changes in any other way the wording of the rest of the document, the tenderer shall be excluded from the procurement procedure.  
 The tenderer will delete this text in blue in his/her tender bid.*

**Terms of works fulfillment:**

No later than 30 September 2019.

**Indicative schedule of works:**

*The tenderer must fill in the following indicative schedule of works for each Detail Design. The tenderer will delete this text in blue in his/her tender bid.*

***Tula kebele in Dale woreda:***

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| **Item no.** | **Description** | **March 2019** | **April**  **2019** | **May**  **2019** | **June 2019** | **July 2019** | **August**  **2019** | **September**  **2019** |
| 1 | Baseline survey |  |  |  |  |  |  |  |
| 2 | Detailed field survey |  |  |  |  |  |  |  |
| 3 | Detailed designing |  |  |  |  |  |  |  |
| 4 | Document preparation |  |  |  |  |  |  |  |
| 5 | Document revision and approval by SZWMED |  |  |  |  |  |  |  |

***Shoye/Dageya kebeles in Dale woreda:***

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| **Item no.** | **Description** | **March 2019** | **April**  **2019** | **May**  **2019** | **June 2019** | **July 2019** | **August**  **2019** | **September**  **2019** |
| 1 | Baseline survey |  |  |  |  |  |  |  |
| 2 | Detailed field survey |  |  |  |  |  |  |  |
| 3 | Detailed designing |  |  |  |  |  |  |  |
| 4 | Document preparation |  |  |  |  |  |  |  |
| 5 | Document revision and approval by SZWMED |  |  |  |  |  |  |  |

***Hamesho kebele in Bensa woreda:***

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| **Item no.** | **Description** | **March 2019** | **April**  **2019** | **May**  **2019** | **June 2019** | **July 2019** | **August**  **2019** | **September**  **2019** |
| 1 | Baseline survey |  |  |  |  |  |  |  |
| 2 | Detailed field survey |  |  |  |  |  |  |  |
| 3 | Detailed designing |  |  |  |  |  |  |  |
| 4 | Document preparation |  |  |  |  |  |  |  |
| 5 | Document revision and approval by SZWMED |  |  |  |  |  |  |  |

***Woreta Woyo kebele in Bona Zuriya woreda:***

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| **Item no.** | **Description** | **March 2019** | **April**  **2019** | **May**  **2019** | **June 2019** | **July 2019** | **August**  **2019** | **September**  **2019** |
| 1 | Baseline survey |  |  |  |  |  |  |  |
| 2 | Detailed field survey |  |  |  |  |  |  |  |
| 3 | Detailed designing |  |  |  |  |  |  |  |
| 4 | Document preparation |  |  |  |  |  |  |  |
| 5 | Document revision and approval by SZWMED |  |  |  |  |  |  |  |

***Awaye Keraro kebele in Bona Zuriya woreda:***

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| **Item no.** | **Description** | **March 2019** | **April**  **2019** | **May**  **2019** | **June 2019** | **July 2019** | **August**  **2019** | **September**  **2019** |
| 1 | Baseline survey |  |  |  |  |  |  |  |
| 2 | Detailed field survey |  |  |  |  |  |  |  |
| 3 | Detailed designing |  |  |  |  |  |  |  |
| 4 | Document preparation |  |  |  |  |  |  |  |
| 5 | Document revision and approval by SZWMED |  |  |  |  |  |  |  |

**Attachments:**

Attachment no. 1: Tula: Preliminary study prepared by SZWMED

Attachment no. 2: Shoye/Dageya: Preliminary study prepared by SZWMED

Attachment no. 3: Hamesho: Preliminary study prepared by SZWMED

Attachment no. 4: Woreta Woyo: Preliminary study prepared by SZWMED

Attachment no. 5: Awaye Keraro: Preliminary study prepared by SZWMED