

Scope of Work

Project/Consultancy Title	: Consultant for AWLR Installation
Project Location (s)	: Palu – Central Sulawesi

BACKGROUND

Mercy Corps Indonesia is currently implementing Managing Risk through Economic Development (MRED) program (MRED) 13 villages located in South Dolo and Kulawi Subdistrict in Sigi District. This program aims to improve community's knowledge and capacity in disaster risk reduction efforts and livelihood resilience. One of the activities for disaster risk reduction in the MRED program is community disaster preparedness through an early warning system for floods.

Mercy Corps Indonesia through the MRED program had installed early warning systems in several assisted villages. The early warning system that has been built consists of 3 units of Automatic Weather Station (AWS) which consists of Automatic Rain Gauge (ARG), temperature and humidity measurement tools. In the previous phase, Mercy Corps Indonesia had installed 14 units of sirens, 1 unit of Automatic Water Level Recorder (AWLR) and 10 units of data server monitor display website (<http://ews.sigikab.go.id>). The early warning system is considered insufficient to accommodate the needs of several villages by considering the distance and disaster risk in each village. Therefore, MRED program plans to add sirens and AWLRs as early warning tools for disasters.

PURPOSE

The purpose of the Automatic Water Level Recorder (AWLR) installation in the Early Warning System (EWS) in Kulawi District are as follows:

1. Installing 1 unit of Automatic Water Level Recorder (AWLR) to detect river water level in MRED intervention villages.
2. Integrating AWLR data into the dashboard ews.sigikab.go.id
3. Training KSBs or Village Technicians on the Repair and Maintenance of Automatic Water Level Recorder (AWLR) equipment.

OUTPUT

The outputs of this activity are as follows:

1. 1 unit of Automatic Water Level Recorder (AWLR) installed to detect river water level in MRED intervention villages.
2. Integration of AWLR data into the ews.sigikab.go.id dashboard.

3. Improved ability of KSBs or Village Technicians related to Repair and Maintenance of Automatic Water Level Recorder (AWLR) tools.

DELIVERABLES

The consultant will prepare and procure 1 unit of Automatic Water Level Recorder (AWLR) for flood early warning system in Kulawi Subdistrict which consists of;

1. Ultrasonic water level sensor
2. Data logger
3. Internet source
4. Solar panel
5. Inverter
6. Safety controller box
7. Software system
8. Power source/Power charger/power battery
9. One year internet data
10. Cable as needed.
11. Other supporting tools and equipment

RESPONSIBILITY

The selected consultant is institutions or individuals working as a team, working under the direction of Mercy Corps Indonesia's MRED program coordinator. The consultant is responsible for developing a strategic plan for the implementation of activities, implementing and managing activities, documenting activities, monitoring activities, completing activities, and creating activity reports. Specifically, the consultant will:

1. Install 1 unit of Automatic Water Level Recorder (AWLR) in Boladangko Village, Kulawi Subdistrict, Sigi District. The selection of river to be installed with AWLR refers to the results of the assessment and consideration of flood impacts.
2. Integrate Automatic Water Level Recorder (AWLR) data into the ews.sigikab.go.id dashboard which will be carried out together with the Sigi District Government and BMKG.
3. Train village KSBs to repair and maintain Automatic Water Level Recorder (AWLR) equipment.
4. Submit a report one week after the activity is completed.

QUALIFICATION

The expected qualifications of this consultant are:

1. Graduate from a university in a science-related field or relevant field

2. Have experience in installing Automatic Water Level Recorder (AWLR) in the community.
3. Prepare a drawing plan of the Automatic Water Level Recorder (AWLR).
4. Have a legal business entity
5. Minimum 3 years of experience in consulting services
6. Have experience installing early warning systems with a 95% success history
7. Have knowledge and experience of community-based programs
8. Knowledge of facilitation and good communication skills
9. Have knowledge and experience working on disaster risk reduction and resilience programs
10. At least 3 years of work experience in NGO(s)
11. Able to write reports in English and Indonesian
12. Experience working in Central Sulawesi Province is preferred

SCHEDULE

NO	ACTIVITY	Mar		Apr				Mei				Juni				July			
		III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
1	Vendor Recruitment																		
2	Vendor selection																		
3	System development																		
4	Shipping																		
5	Installation																		
6	Maintenance training																		

The Consultant will report to:

Program Manager : Dewi Hanifah
 Program Coordinator : Upi Gufiroh

Scope of Work

Project/Consultancy Title	: Consultant for AWLR Installation
Project Location (s)	: Palu – Central Sulawesi

BACKGROUND

Melalui program mengelola risiko melalui pembangunan ekonomi (MRED) Mercy Corps Indonesia melaksanakan program di 13 desa yang berada di 2 kecamatan, yaitu Kecamatan Dolo Selatan dan Kulawi di Kabupaten Sigi. Program ini bertujuan untuk meningkatkan pengetahuan, kemampuan masyarakat dalam upaya pengurangan risiko bencana dan ketangguhan mata pencaharian. Salah satu kegiatan untuk pengurangan risiko bencana pada program MRED adalah kesiapsiagaan masyarakat terhadap bencana melalui system peringatan dini terhadap bencana banjir.

Mercy Corps Indonesia melalui program MRED telah memasang sistem peringatan dini di beberapa desa dampingan. Sistem peringatan dini yang telah dibangun terdiri dari 3 unit *Automatic Weather Station* (AWS) terdiri dari *Automatic Rain Gauge* (ARG), suhu dan kelembaban. Pada fase sebelumnya Mercy Corps Indonesia telah memasang 14 unit sirene, 1 unit *Automatic Water Level Recorder* (AWLR) dan 10 unit tampilan monitor server data website ews.sigikab.go.id. Sistem peringatan dini tersebut dinilai belum mencukupi untuk mengakomodir kebutuhan beberapa desa dengan mempertimbangkan jarak dan risiko bencana di masing-masing desa. Oleh karena itu program MRED berencana menambah sirene dan AWLR sebagai alat peringatan dini kebencanaan.

PURPOSE

Tujuan instalasi *Automatic Water Level Recorder* (AWLR) pada *Early Warning System* (EWS) di Kecamatan Kulawi ini adalah sebagai berikut:

1. Melakukan instalasi 1 unit alat *Automatic Water Level Recorder* (AWLR) untuk mendeteksi ketinggian air sungai pada desa intervensi MRED.
2. Melakukan pengintegrasian data AWLR kedalam dashboard ews.sigikab.go.id
3. Melatih KSB atau Teknisi Desa terkait Perbaikan dan Perawatan alat *Automatic Water Level Recorder* (AWLR)

OUTPUT

Output dari kegiatan ini adalah sebagai berikut:

1. Terpasangnya 1 unit alat *Automatic Water Level Recorder* (AWLR) untuk mendeteksi ketinggian air sungai pada desa intervensi MRED.
2. Terintegrasinya data AWLR kedalam dashboard ews.sigikab.go.id
3. Meningkatnya kemampuan KSB atau Teknisi Desa terkait Perbaikan dan Perawatan alat *Automatic Water Level Recorder* (AWLR)

DELIVERABLES

Konsultan akan menyiapkan dan mengadakan 1 unit *Automatic Water Level Recorder* (AWLR) untuk sistem peringatan dini banjir di Kecamatan Kulawi yang terdiri dari;

1. Ultrasonic water level sensor
2. Data logger
3. Internet source
4. Solar panel
5. inverter
6. Safety controller box
7. Software system
8. Power source/Power charger/power battery
9. One year internet data
10. Cable as needed.
11. Other supporting tools and equipment

RESPONSIBILITY

Konsultan yang dipilih adalah lembaga atau individu yang bekerja sebagai tim, bekerja dibawah arahan program coordinator project MRED Mercy Corps Indonesia. Konsultan bertanggung jawab untuk mengembangkan rencana strategis untuk pelaksanaan kegiatan, melaksanakan, dan mengelola kegiatan, mendokumentasikan kegiatan, memantau kegiatan, menyelesaikan kegiatan, dan membuat laporan kegiatan. Secara khusus, konsultan akan:

1. Melakukan instalasi 1 unit *Automatic Water Level Recorder* (AWLR) di Desa Boladangko, Kec. Kulawi, Kab. Sigi, pemilihan sungai yang akan dipasang AWLR ini mengacu pada hasil assessment dan pertimbangan dampak banjir.
2. Mengintegrasikan data *Automatic Water Level Recorder* (AWLR) ke dalam Dashboard ews.sigikab.go.id yang akan dilakukan bersama Pemerintah Kabupaten Sigi dan BMKG.
3. Melatih KSB desa untuk perbaikan dan perawatan alat *Automatic Water Level Recorder* (AWLR)
4. Menyerahkan laporan satu minggu setelah kegiatan selesai.

QUALIFICATION

Kualifikasi yang diharapkan dari konsultan ini adalah :

1. Lulusan dari perguruan tinggi bidang terkait sains atau bidang relevan.
2. Memiliki pengalaman memasang *Automatic Water Level Recorder* (AWLR) dikomunitas
3. Menyiapkan gambar rencana *Automatic Water Level Recorder* (AWLR)
4. Memiliki badan usaha yang berbadan hukum
5. Pengalaman bidang jasa konsultan minimal 3 tahun
6. Memiliki pengalaman pemasangan system peringatan dini dengan riwayat keberhasilan 95%
7. Memiliki pengetahuan dan pengalaman tentang program berbasis masyarakat
8. Memiliki pengetahuan dalam memfasilitasi dan keterampilan komunikasi yang baik
9. Memiliki pengetahuan dan pengalaman mengerjakan program pengurangan risiko dan ketahanan bencana.
10. Memiliki pengalaman kerja di NGO minimal 3 tahun atau lebih
11. Memiliki kemampuan penulisan laporan dalam Bahasa Inggris dan Bahasa Indonesia
12. Memiliki pengalaman bekerja di Provinsi Sulawesi Tengah lebih diutamakan

SCHEDULE

NO	ACTIVITY	Mar		Apr				Mei				Juni				July			
		III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
1	Perekrutan Vendor																		
2	Pemilihan dan penentuan vendor																		
3	Pengembangan sistem																		
4	Pengiriman																		
5	Installation																		
6	Pelatihan perawatan																		

The Consultant will report to:

Manager MRED : Dewi Hanifah

Program Coordinator : Upi Gufiroh