

Scope of Work

Project/Consultancy Title	: Consultant for Siren 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 siren installation in the Early Warning System (EWS) in Dolo Selatan Sub-district and Kulawi Subdistrict is as follows;

1. Installing 5 units of flood early warning sirens in Dolo Selatan and Kulawi sub-districts.
2. Training KSBs or Village Technicians on Repair and Maintenance of flood early warning sirens

OUTPUT

The outputs of this activity are as follows;

1. Installation of 5 units of flood early warning sirens in designated villages in Dolo Selatan Sub-district and Kulawi Sub-district.
2. Improved ability of KSBs or Village Technicians related to Repair and Maintenance of flood early warning sirens

DELIVERABLES

The consultant will prepare and procure 5 units of sirens for the flood early warning system in Kulawi and South Dolo Subdistrict which consists of;

1. 2 units of loudspeaker in one sirens
2. 2 units of rotary lamp (yellow and red) in one sirens
3. Amplifier
4. Safety controller box
5. Software system
6. Soundcard
7. Solar panel
8. Power resource/power charger/Power battery
9. Pole with 6 meters high.
10. Cable as needed.
11. Other supporting tools and equipment.
12. Arduino + Program
13. Box Cage

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. Build and install sirens in the following villages:
 - 2 units of siren in Bolapapu Village, Kulawi Subdistrict, Sigi District
 - 2 units of siren in Boladanko Village, Kulawi Subdistrict, Sigi District
 - 1 unit of siren in Wisolo Village, South Dolo Subdistrict, Sigi District.
2. Submit a report one week after the activity is completed.
3. Train KSB representatives in maintaining and repairing sirens when they are damaged.

QUALIFICATION

The expected qualifications of this consultant are:

1. Graduated from university in science-related or relevant field
2. Have experience in installing early warning sirens in the community
3. Prepare a drawing plan of the early warning siren

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. Have 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. Have experience in 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 Sirine 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 sirene pada *Early Warning System* (EWS) di Kecamatan Dolo Selatan dan Kecamatan Kulawi ini adalah sebagai berikut;

1. Melakukan instalasi 5 unit sirene peringatan dini banjir di Kecamatan Dolo Selatan dan Kecamatan Kulawi
2. Melatih KSB atau Teknisi Desa terkait Perbaikan dan Perawatan sirene peringatan dini banjir

OUTPUT

Output dari kegiatan ini adalah sebagai berikut;

3. Terpasangnya 5 unit sirene peringatan dini banjir di desa-desa yang telah ditentukan di Kecamatan Dolo Selatan dan Kecamatan Kulawi

4. Meningkatnya kemampuan KSB atau Teknisi Desa terkait Perbaikan dan Perawatan sirine peringatan dini banjir

DELIVERABLES

Konsultan akan menyiapkan dan mengadakan 5 unit sirine untuk sistem peringatan dini banjir di Kecamatan Kulawi dan Kecamatan Dolo Selatan yang terdiri dari;

1. 2 unit load speaker dalam satu sirine
2. 2 units of rotary lamp (yellow and red) dalam satu sirine
3. Amplifier
4. Safety controller box
5. Software system
6. Soundcard
7. Solar panel
8. Power resource/power charger/Power battery
9. Pole with 6 meters high.
10. Cable as needed.
11. Other supporting tools and equipment.
12. Arduino + Program
13. Box Cage

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. Membangun dan menginstalasi sirine di desa-desa berikut:
 - 2 unit sirine di Desa Bolapapu, Kec. Kulawi, Kab. Sigi
 - 2 unit sirine di Desa Boladangko, Kec. Kulawi, Kab. Sigi
 - 1 unit sirine di Desa Wisolo, Kec. Dolo Selatan, Kab. Sigi
2. Menyerahkan laporan satu minggu setelah kegiatan selesai.
3. Melatih perwakilan KSB dalam melakukan perawatan dan perbaikan sirine saat ada kerusakan

QUALIFICATION

Kualifikasi yang diharapkan dari konsultan ini adalah :

1. Lulusan dari perguruan tinggi bidang terkait sains atau bidang relevan.
2. Memiliki pengalaman memasang sirine peringatan dini dikomunitas
3. Menyiapkan gambar rencana sirine peringatan dini
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	Perektrutan 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