## Installation of Landslide Monitoring System:

Bogahamadiththa, Badulla

In collaboration with USGS

## Installation of second instrument at Bogahamadiththa, Badulla district

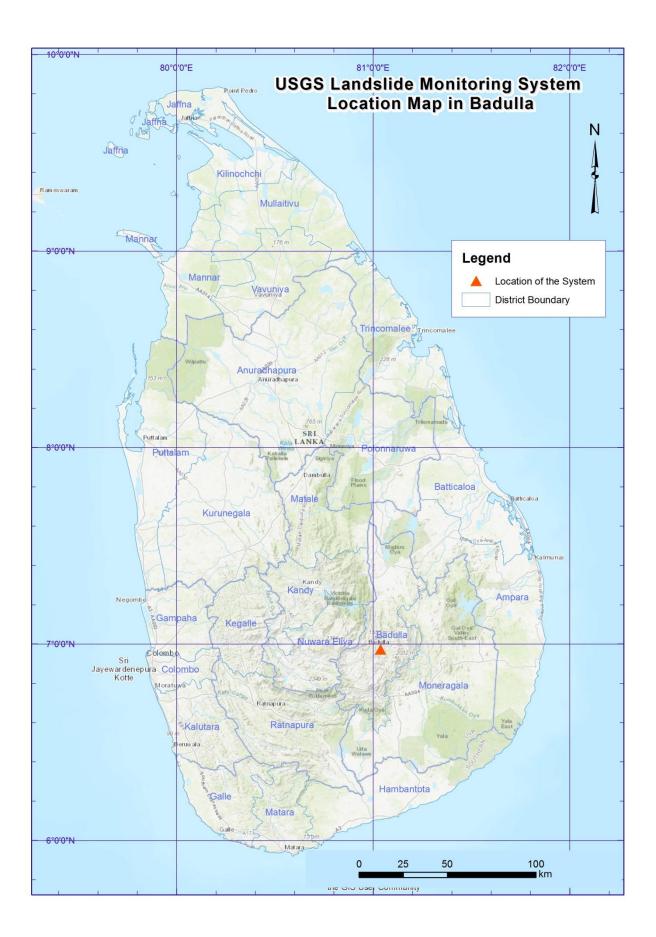
Since 2018, Office of Foreign Disaster Assistance (OFDA) of the United States Agency for International Development (USAID) has been working with National Building research Organization (NBRO) for landslide risk reduction in Sri Lanka.

In line with this cooperation, United States donated landslide monitoring equipment to Sri Lanka in 2019. Engineers and geologists from the United States Geological Survey (USGS) visited Sri Lanka in November 2019 and held a training program for NBRO scientists on installing the donated equipment and analyzing the data generated from the equipment. For this purpose, the USGS team spent several days on the field with a NBRO scientist group at the pilot site of Pahiyangala (Nikgaha) in Kalutara District. The equipment, installations and the research exchange were supported by the OFDA/USAID.

In October 2020, the second set of donated landslide monitoring equipment was successfully installed by the NBRO team themselves, at a selected site in Bogahamadiththa, Badulla district (details in table and figures given below). The previous experience and technical knowledge gained by the joint work sessions with the USGS served most valuable for a smooth installation of the new system.

These monitoring systems enable NBRO to remotely monitor parameters including soil moisture, pore water pressure, air temperature and real time rainfall at the installed sites. Data thus received by NBRO will be used for research purposes such as derivation of different parameter thresholds for the initiation of landslides in the area. NBRO further wishes to publish research papers on findings of the data analysis. The ultimate aim of this work is to issue targeted localized and regional landslide early warnings to the communities living in landslide prone areas, and in doing so, save more lives from the likely landslide incidents that their localities may incur in the future.

			Location			
Station No. / (Name)	Bog	Bogahamadiththa Installation Date		e	3/10/2020	
Acess Road to the site	Hali	Haliela- Badulla Road				
District	Bad	Badulla Town Haliela				
DS Division	Hali	ela	GN Division	Bc	ogahamadiththa	
Coordinates	<sup>0</sup> N	°N 6.9706			81.0371	
Altitude	810	810m above MSL				
Land owned by	Que	Queston Estate				
		Con	tact Persons			
Land Administrator	Mr.	Mr. Subhash Kuruppu, manager				
Contact Address	Yelv	Yelvaton Division, Bogahamadiththa				
Telephone or email	7613	761383253				
Other Contact persons - 1	Mr.	Mr. Serasinghe, 0767848200				
Other Contact persons - 2	Mr.	Mr. Eranda - NBRO , Badulla office, 0717723411				
		S	ite Details			
Maintenance Road	Exis	Exists				
(exist or non-existence) Mobile signal field intensity (check with Smart phone or	4G	4G				
Selected Location :	-	Bogahamdiththa potential landslide (body) moving area close to Mr. Serasinghe's residence				
Permissions :	verb	verbally provided by estate management				
Investigators:	1	1 Dr. K.P.G.W. Senadeera		2	Mr. M.S.M. Aroos	
	3	Mr. D.M.L. Banc	lara	4	Mr. R.M.S.A.K. Rathnayaka	
	5	Mr. W.A.K.S. Ar	iyakumara			
1. Consider the rain gauge loc		-				
2. To be distributed as evenly						
3. Location close to where the		rence of road se	ediment disaster	is est	timated	
4. Easy place to have mainten 5. School, temple, public facili					NBRO	



## Some photos showing the field work

