

DISASTER AID INTERNATIONAL  
PALU, INDONESIA REPORT

**December 10, 2018**

Started by visiting BNPB and confirming they still had 4 SkyHydrants in safe keeping. BNPB will release them when plans on how to use them are agreed.

Attended the next camp suggested by Palu PMI; the Mercy Malaysia Camp and met the Co-ordinator. A very well organised and impressive camp with 205 families. Water supplied by Palu PMI is boiled, and drinkable water supplied by BRIMOB (Army) is supplied into consumers own containers and is immediately drinkable. A number of SkyHydrants could be installed here which would remove need for BRIMOB water and infrastructure in place along with building materials. There is also a well which is operational but would require testing for minerals. They are aware this would be required.

Later attended Camp Donggala as suggested by Palu PMI but official due to meet us was called away unexpectedly without informing us. Impressive camp with tents, etc supplied by Swiss. Water from a mountain stream is pumped into the camp via 2 x 10,000 L storage bladders and then distributed as water requiring to be boiled. However, there are 4 installations of 2 x Squirts (two of which are missing). These were clearly not being used.

We re-started and confirmed, despite them being sited too low, that they were working with good flow rates. However, residents stated they had lost confidence in them after children had stomach issues, which they attribute to the Squirts. Again, possibly a good location for SkyHydrants but given reluctance to use Squirts, it may take some convincing to trust the SkyHydrants.

Plan for Tuesday:

Tents to go to Rotary Camp and pitching guidance given. Continue to service previous tasks including buckets for Sawyers, revisits to camps to ensure compliance and provide chlorine, identify tank stands.

**December 11, 2018**

Purchased 50 buckets with secured lids for the Sawyers Filters after visiting a number of outlets. Follow up visit to the Telecom Camp where a SkyHydrant GEM had been installed earlier. Residents very pleased to see us and stated that the water from SkyHydrant was being used not only by camp residents but others from nearby too. Confidence is high in the product and a man took an empty bottle filled it from the SkyHydrant and drank it. They had also sourced chlorine and confirmed that daily tests are being carried out and that weekly ones will be.

Met with the Rotary Camp Manager at his home and left 40 of the buckets for safe keeping. After receiving hospitality, attended at the Rotary store and saw the 17 Family Survival Kit boxes. He confirmed that one had been given to a local blind man and a photograph was

provided. Picked up the six tents there and took them to the Rotary Camp where we started erecting the tents and giving instruction to locals on how to erect them. Satisfied that they are now competent having erected one on their own but as we will be returning tomorrow when Dr Imam the District Governor arrives, we can confirm that and give any further advice as required. Darkness precluded further work in that respect.

Plan for Wednesday:

Attend at Rotary Camp for 0900 to meet with Mr Imam in his visit. In the afternoon we will try to have a meeting with Mr Wawan and depending on times fit other outstanding tasks around that.

### **Wednesday December 12, 2018**

Attended first thing at Camp Rotary to meet Mr Imam PDG Rotary. It turned out not to be a 'formal' visit, more that Mr Imam was working at the site. Had a good meeting and with his help we erected another tent. He has other tents to progress with his team. First residents now expected Friday. Also gave him a demo of Sawyer water filter and both he and his staff were enthusiastic 'early up-takers' drinking the filtered water.

Then met with Mr Hasan Director PDAM and had a very constructive meeting with him. He gave us two locations for potential SkyHydrant deployments and we visited the first shortly after with one of his staff and Mr Irman, and met the location manager Mr. Misfar at Mpanau, Sigi. This is close to the Rotary Camp.

Mr Hasan was very receptive and assured us that permission to deploy would be given if surveys prove suitable and seemed keen to get aid out. He had been disappointed by a Danish charity who deployed water filters at the location visited today but then removed two of three filters back to Denmark for reasons unknown. Whilst giving no promises about deploying SkyHydrants, we did assure Mr Hasan that that is not the way the DAI works and that once fitted, equipment stays.

Later in the afternoon we visited the orphanage that we had assisted earlier in the provision of a well and again were enthusiastically greeted.

Plan for Thursday

Visit second location identified by Mr Hasan at Lero. Try to meet with Mr Wawan along with outstanding tasks and follow up visits to installations.

### **Thursday December 13, 2018**

Met PDAM (water) at their office and drove to Lero Tatari Camp. This is a semi -permanent camp with buildings in the process of being finished off. Appeared suitable for SkyHydrants and will be well used for a lengthy period. On return met with Mr Hasan who after discussion agreed that in return for providing a SkyHydrant for each of Lero and Biromaru (aka Mpanau, Sigi ) he would provide the necessary tanks stands and other material and the staff to assist with installation and ongoing maintenance. In light of his disappointment re the Danish equipment

(note 12 December) he is preparing a document of agreement. It is proposed that one filter will be installed on Saturday 15th and the other on Sunday 16th.

Then attended the BPBD local office to take possession of 2 SkyHydrants with the approval of Mr Presley. Mr Presley was initially reluctant to release any SkyHydrants and then was going to release one but in the end released two. He is naturally concerned that his area, Palu City is serviced but after telling him that the final two would be going to the Mercy Malaysia Camp, he conceded that Palu was getting it's fair share and became amenable. Two of the SkyHydrants are now in our possession ready for installation at the weekend.

Being in the area we attended at the Tondo Pepisir Camp where SkyHydrant #3 is situated. On arrival we found that the residents are fully utilising the SkyHydrant which they are delighted with. They also have plans to move the unit into a disused toilet adjacent to the installation, thus providing even more security. Not only that, Mr Zainudin also showed us the bins that previously were used to boil water. They are now used as storage for 2 L plastic water bottles which are being sold to nearby students who are happy to pay 1,000 R instead of 7,800 R and thus not only are the residents of the camp enjoying safe water but they are also benefiting financially which will stimulate growth and funds for maintenance of the equipment.

Being close by we attended at Camp Batu Tela the site of SkyHydrant #1. We immediately noted that the unit did not look right in that a section of grey threaded tube was visible below the cleaning handles and above the clean water out tap. It appears that the cleaning handles may have been loosened excessively and that the unit will not backflush. We consulted with Phil Gribble and he kindly phoned us back with contact details for us to progress the matter and get appropriate advice from SkyJuice and this is ongoing. We will progress the repair asap and give corrective advice to the users.

Finally, we took the opportunity to have a full debrief with our guide and interpreter and produced a Mindmap which we have shared. We believe it makes it easier to understand the agencies and individuals involved. Further contacts will be added as required.

Plan for Friday December 14

Contact Mr Razak re a list of people who are to receive tents and filters at the Rotary Camp. Mr Wawan is still in Jakarta but if available will be consulted. Once advice is received from SkyJuice we will attempt to fix SkyHydrant #1 and a number of other outstanding tasks will be fitted around these priorities.

### **December 14, 2018**

Admin, including additional plumbing supplies and banking.

Attended at location of SkyHydrant #1 and after taking photos and video, took it apart but unable to fix. Discussed in phone call with SkyJuice who thinks the cleaning handles have been unscrewed so far that the cup has been in contact with the white lid and as the turns have

continued this has stripped threads and in turn damaged internal threads on shaft. He thinks it needs a new shaft and white lid. To be discussed with DAA.

Compliance check at Camp Pesisir. SkyHydrant #4 and they have moved their SkyHydrant into the covered disused toilet as previously advised.

Met Mr Imam at Rotary Camp to ensure plans in place for reception of people moving into tents and camp and for us to obtain a list of recipients. Also met some families who are moving in.

Plan for Saturday 15 Dec.

Install filter # 5 at Biromaru Camp. Other tasks as able including meeting with Mr Wawan if available.

### **Saturday December 15, 2018**

Fitted SkyHydrant # 5 at Camp Biromaru with assistance of BPBD staff. SkyHydrant is inside concrete building, protected from elements and has a feed from a well, drawn by a diesel engine. Clean water is accessed from a tank in front of the building. Operator on site 24 hours and staff fully trained. Appropriate photographs obtained.

Then attended nearby Rotary Camp and met with Mr Imam, Mr Razak and other visiting Rotarians and were enthusiastically received. They are staying in our tents tonight ahead of ceremonies for first residents tomorrow. A number of health surgeries and workshops taking place in the morning with opening ceremony in afternoon which we will attend

Checked out an installation site suggested by Mr Bambang but not suitable, particularly in terms of numbers of nearby residents who would benefit from SkyHydrant.

Attended at site of SkyHydrant # 2 Camp Kawatuna but SkyHydrant was not in use and was empty of water. Re-started same and after backwashing and clearing dirty water, SkyHydrant available for use. Holding tank had no lid. Tried to speak to staff but no appropriate person present. We will follow this up.

Mr Wawan still not available, he spoke with our translator who said he was ill.

Plan for Sunday 16th

Attend Camp Lero with staff from BPBD and install SkyHydrant #6. Then attend Rotary Camp and demo train and distribute Sawyer filters to new residents. Follow up SkyHydrant #2 but possibly more likely Monday.