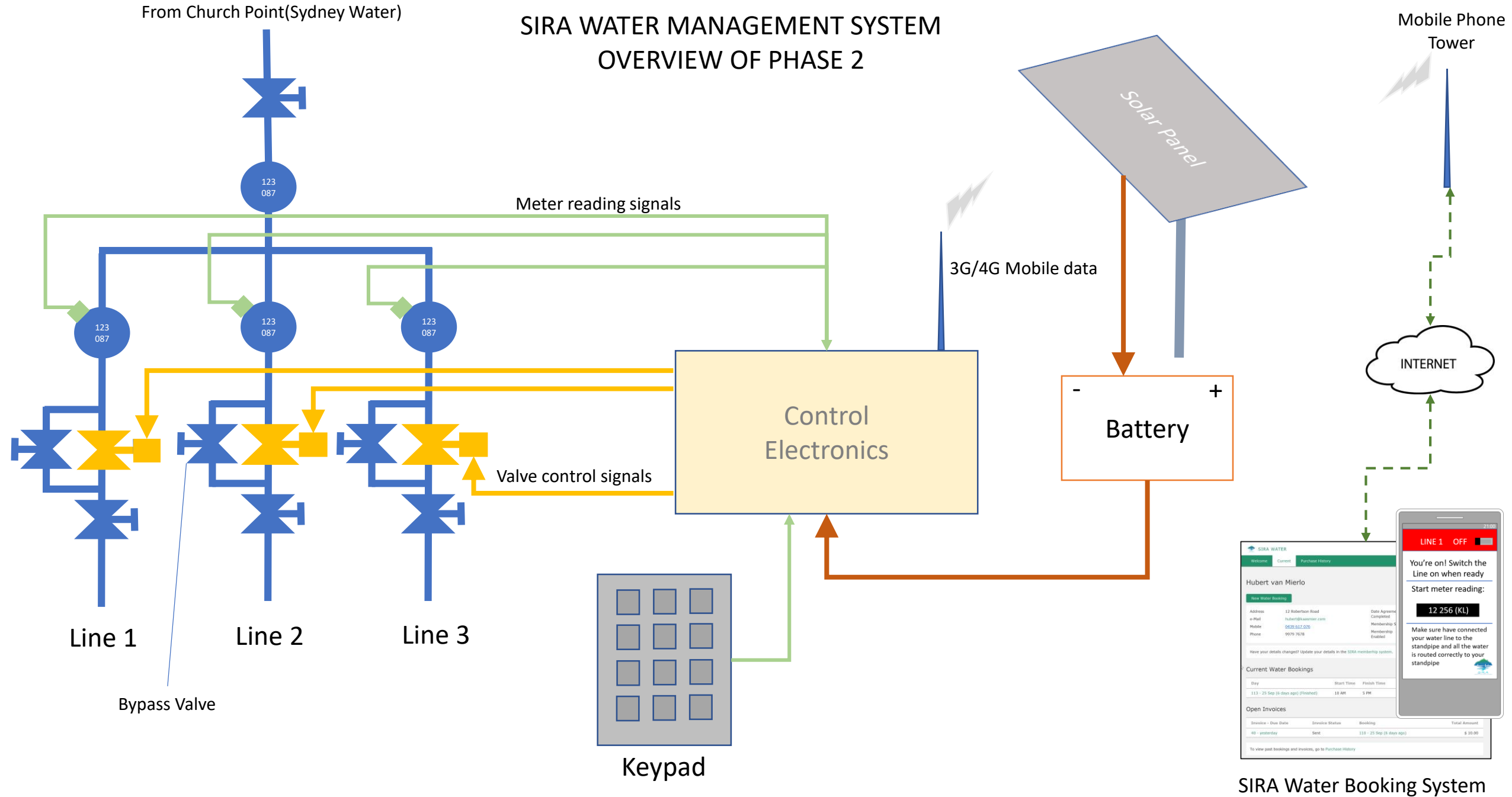SIRA WATER MANAGEMENT SYSTEM
OVERVIEW OF PHASE 2

From Church Point(Sydney Water)

Mobile Phone Tower

Solar Panel

Meter reading signals

123 087

3G/4G Mobile data

123 087

123 087

123 087

INTERNET

Control Electronics

- Battery +

Valve control signals

Line 1

Line 2

Line 3

Bypass Valve

Keypad
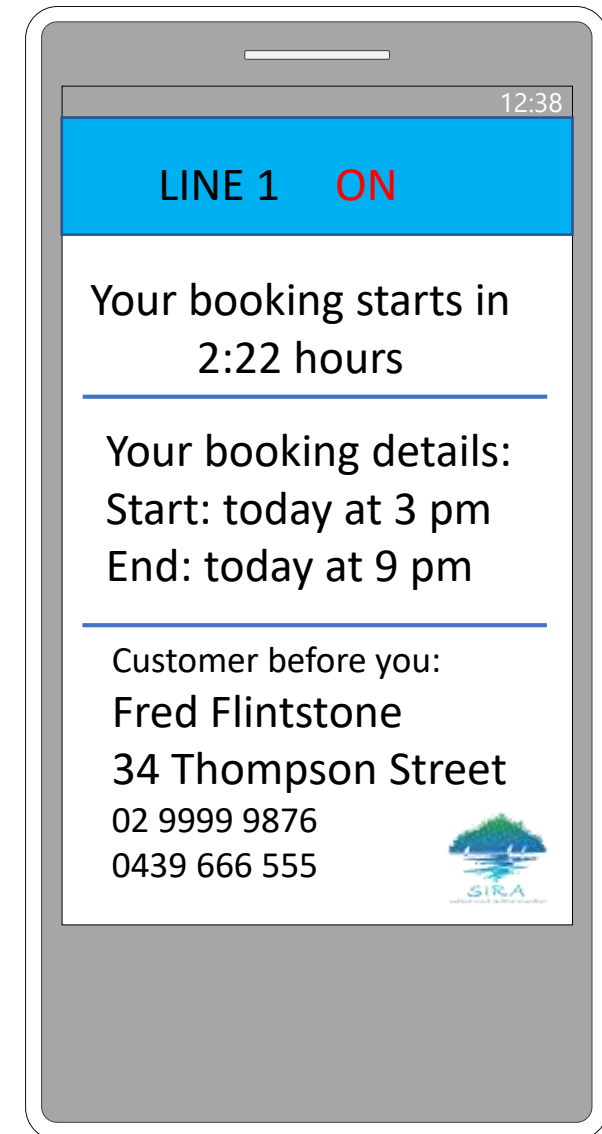
SIRA Water Booking System

Features of the SIRA Water Management System – Phase 2

- The 3 line meters are replaced with electronic ones that deliver a meter signal that can be remotely read

- 3 valves that can be remotely operated, so that each line can be switched on and off remotely. This can be done from the water booking system, programmatically or by manual action by water monitors

- The meter reading and valve control signals are routed via a radio connection to the internet and in this way connected to the water booking system.

- The equipment at Bell wharf is running on solar power.

- A keypad is provided for those users who will not use the water booking system web or mobile app.
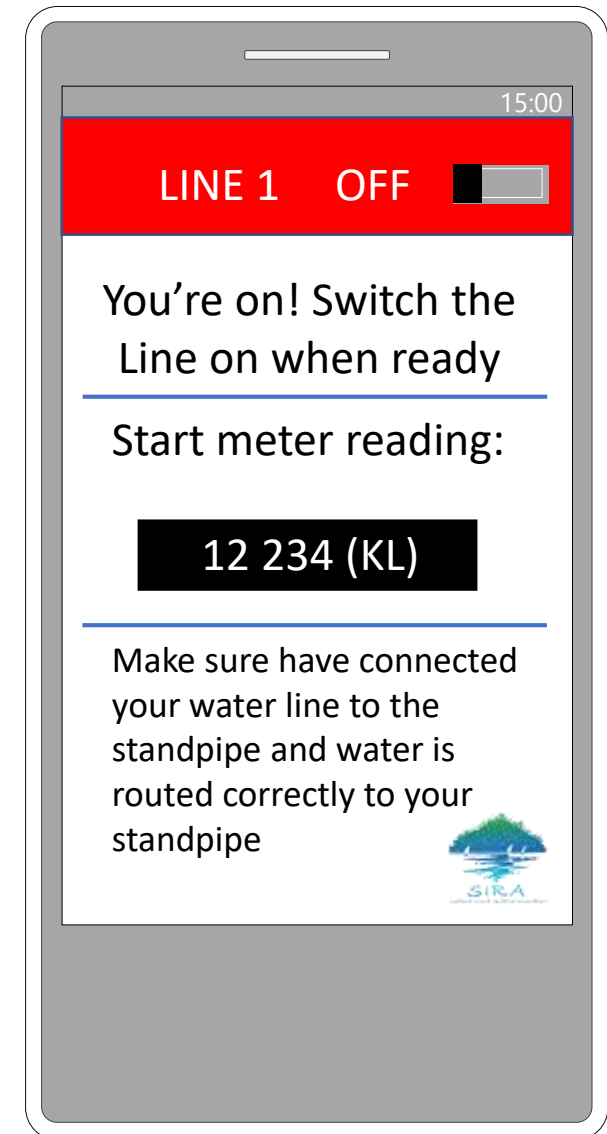
Features of the SIRA Water Management System – Phase 2

- Before the booking starts the phone app shows the current status and who is taking water before you.
- The contact details of the previous customer are shown so that you can contact them to talk about switching over.
- Once the previous customer is finished (either by the end of his/her booking slot, or when they have pushed the 'I am done' button), the system will send a push notification to the app and potentially an email and SMS as well.

12:38

LINE 1   **ON**

Your booking starts in
2:22 hours

Your booking details:
Start: today at 3 pm
End: today at 9 pm

Customer before you:
Fred Flintstone
34 Thompson Street
02 9999 9876
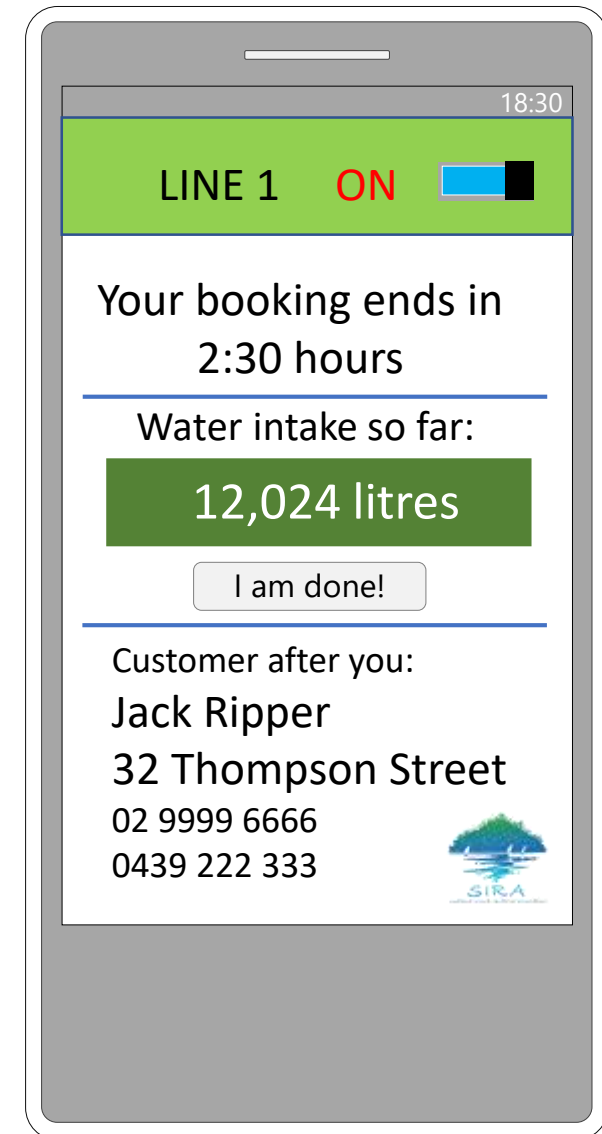0439 666 555

SIRA

Features of the SIRA Water Management System – Phase 2

- When the previous customer is done, the app will show (and sound) a notification. The water line has been switched off automatically and you now need to ensure you are connected and water flow routed correctly.
- Once ready, switch on the water flow
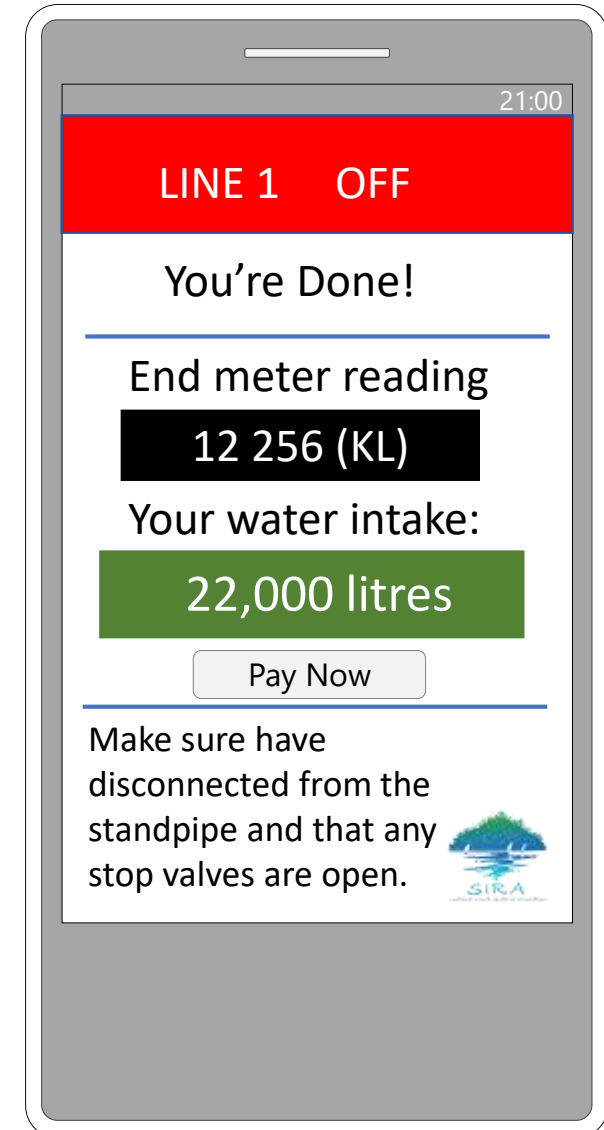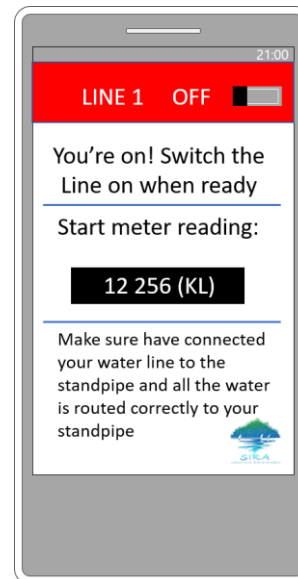- The water flow can be switched off at any time if there is an issue.

Features of the SIRA Water Management System – Phase 2

- While the booking is going, the app shows:
  - Time left to end of booking slot
  - Number of litres taken in
  - The contact details of the next customer. This enables you to contact the next customer
- If you want to take the whole time of the booking slot, you don't have to do anything until the end time. At the end time the system will switch the line off automatically. The app will show and sound a notification. Disconnect from the standpipe.
- If you are finished early, simply click the 'I am done!' button. The line will be switched off and the next customer is notified.

18:30

LINE 1   ON

Your booking ends in
2:30 hours

Water intake so far:

12,024 litres

I am done!

Customer after you:
Jack Ripper
32 Thompson Street
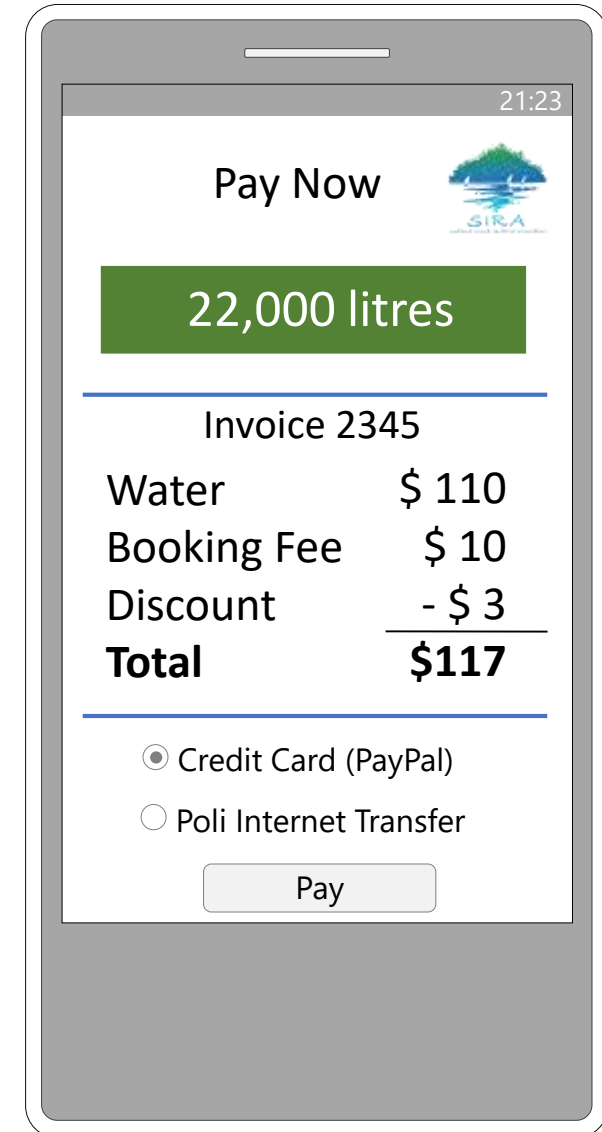02 9999 6666
0439 222 333

SIRA

Features of the SIRA Water Management System – Phase 2

- When you are done, you can instantly see your water intake.
- You will not be able to switch the water back on, this can only be done by the next customer.
- A 'Pay Now' button can be pushed to go to the bill payment screen.
- The system emails you an invoice.
- The customer after you sees this:

Right phone:

21:00

LINE 1   OFF

You're Done!

End meter reading

12 256 (KL)

Your water intake:

22,000 litres

Pay Now

Make sure have disconnected from the standpipe and that any stop valves are open.

SIRA

Left phone:

21:00

LINE 1   OFF

You're on! Switch the Line on when ready

Start meter reading:

12 256 (KL)

Make sure have connected your water line to the standpipe and all the water is routed correctly to your standpipe

SIRA

Features of the SIRA Water Management System – Phase 2

- The Pay Now screen shows the invoice. To encourage people to pay immediately, a small discount is a possibility. This should be an option that is only valid for a restricted length of time (24 hours?).
- Clicking Pay will open the payment gateway screen to handle the electronic transaction.
- Once paid, the system automatically emails you a receipt.

21:23

Pay Now

22,000 litres

Invoice 2345

Water	$ 110
Booking Fee	$ 10
Discount	- $ 3
Total	**$117**

◉ Credit Card (PayPal)
◯ Poli Internet Transfer

Pay

Features of the SIRA Water Management System – Phase 2

- What is the Keypad for?
- This is for customers who do not use the phone app or the web application.
- Shortly before their booking starts they are sent a 4 digit PIN code.
- The PIN code is used to switch the water line on, when they are ready.
- The same PIN code is used again to switch the water line off at the end of the booking.
- If they let the water run until the end of their booking slot, there is no need to use the PIN at the end of the booking as the system will switch the line off automatically.