

SAVING MANESAR'S FORESTS AND RECHARGING OUR GROUND WATER SYSTEM



Amina Shervani

Gen. Sec. Womens Action Forum
VP - Peoples Voice
VP - Grahak Sahayak
Exec. Mem. MIWA

THE PRESENT LAYOUT OF THE AREA WITH FEATURES

30 KM

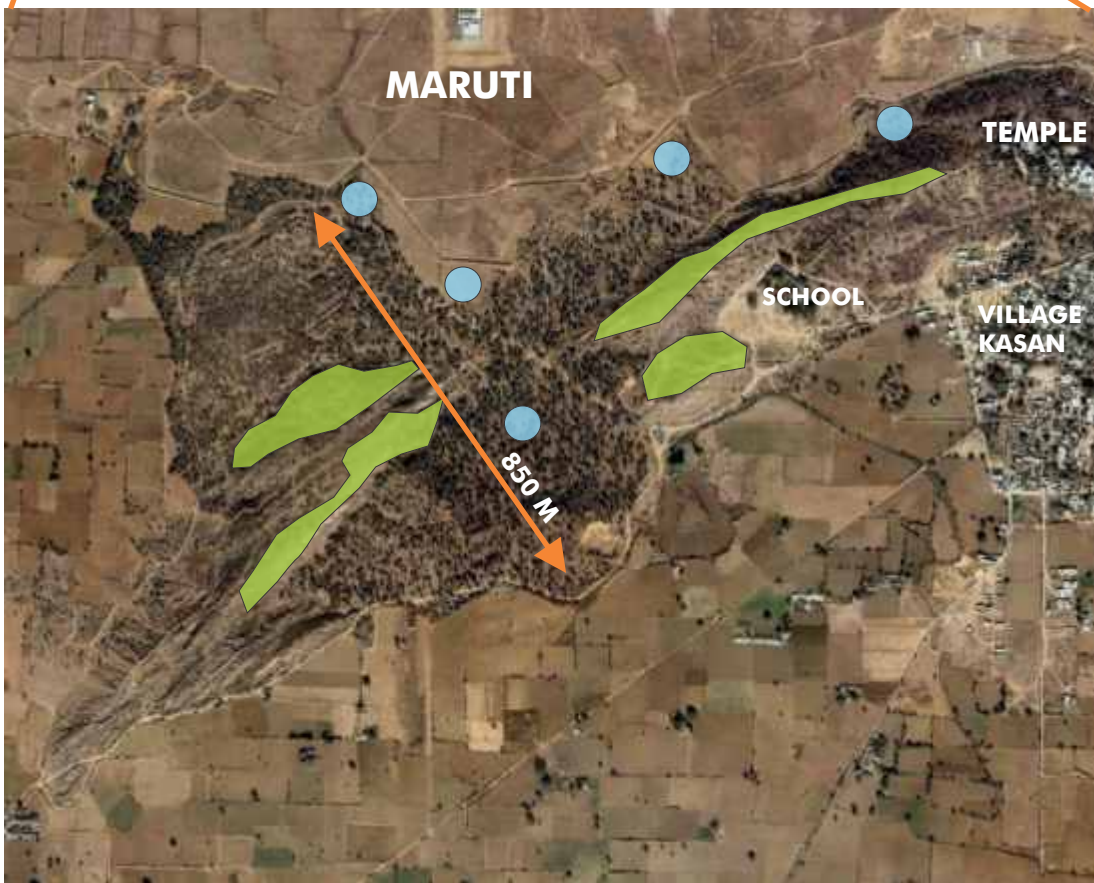




The renewable ground water area from traps in the hills could extend 25 kms in a circle as indicated in blue on the satellite image from 35KM altitude. The hills run in an L shaped path for approximately 7 KM and have an altitude ranging from 200 to 300 feet above the manesar area which lies approximately 750 feet above sea level..

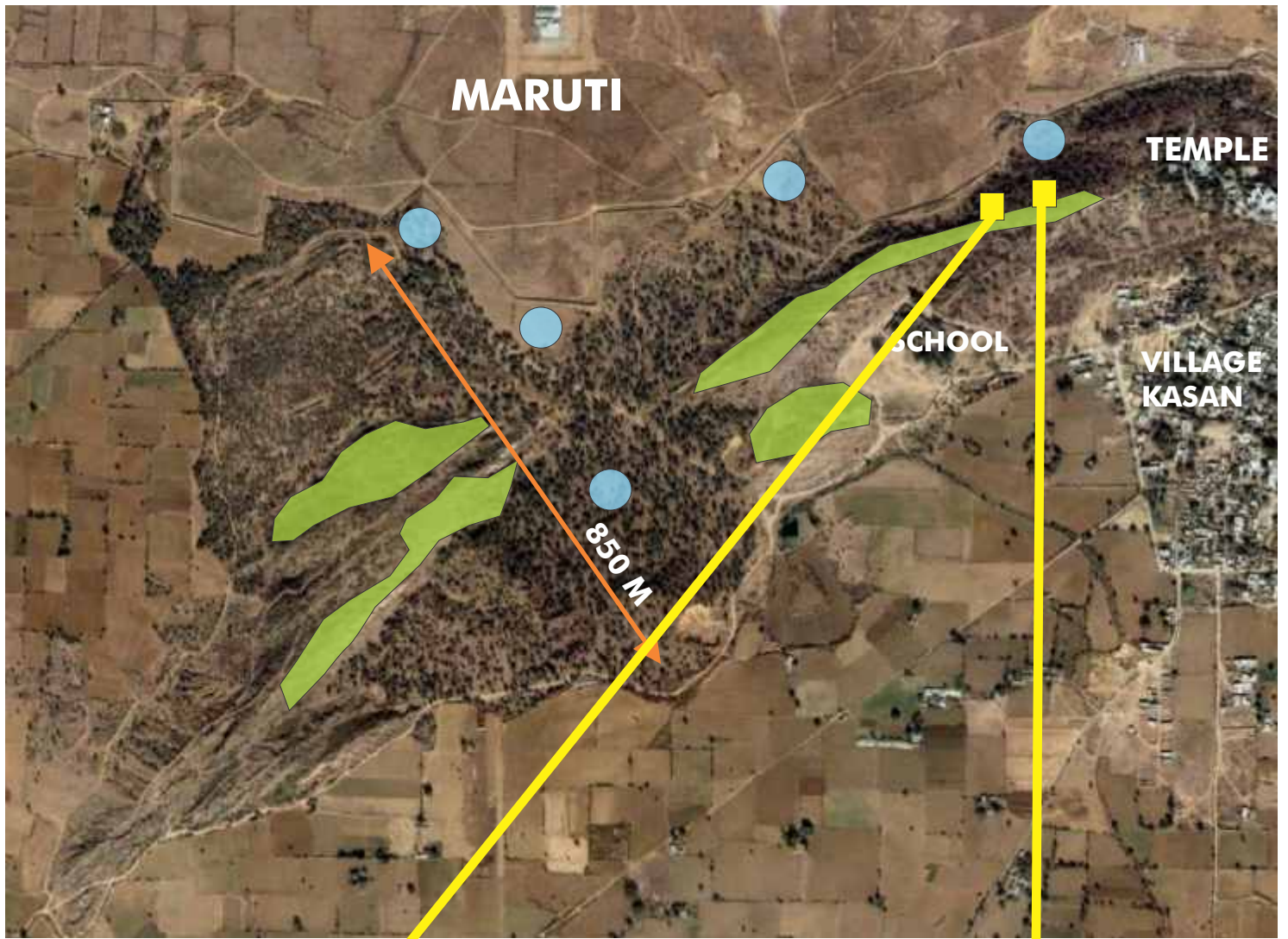
The coverage could extend to more than 15 villages with their fields, an industrial area and housing colonies in the vicinity. The benefit of this increased ground water advantage could extend to more than 400,000 citizens.

Use of traditional trap and shallow bore systems can be cost effective and cover numerous rainwater run-off points along these hills. Plantation of local species of trees can also conserve the ground water capacity of these hills. We receive most of our rainfall in just 100 to 200 hours out of a total of 8,760 hours in the year.

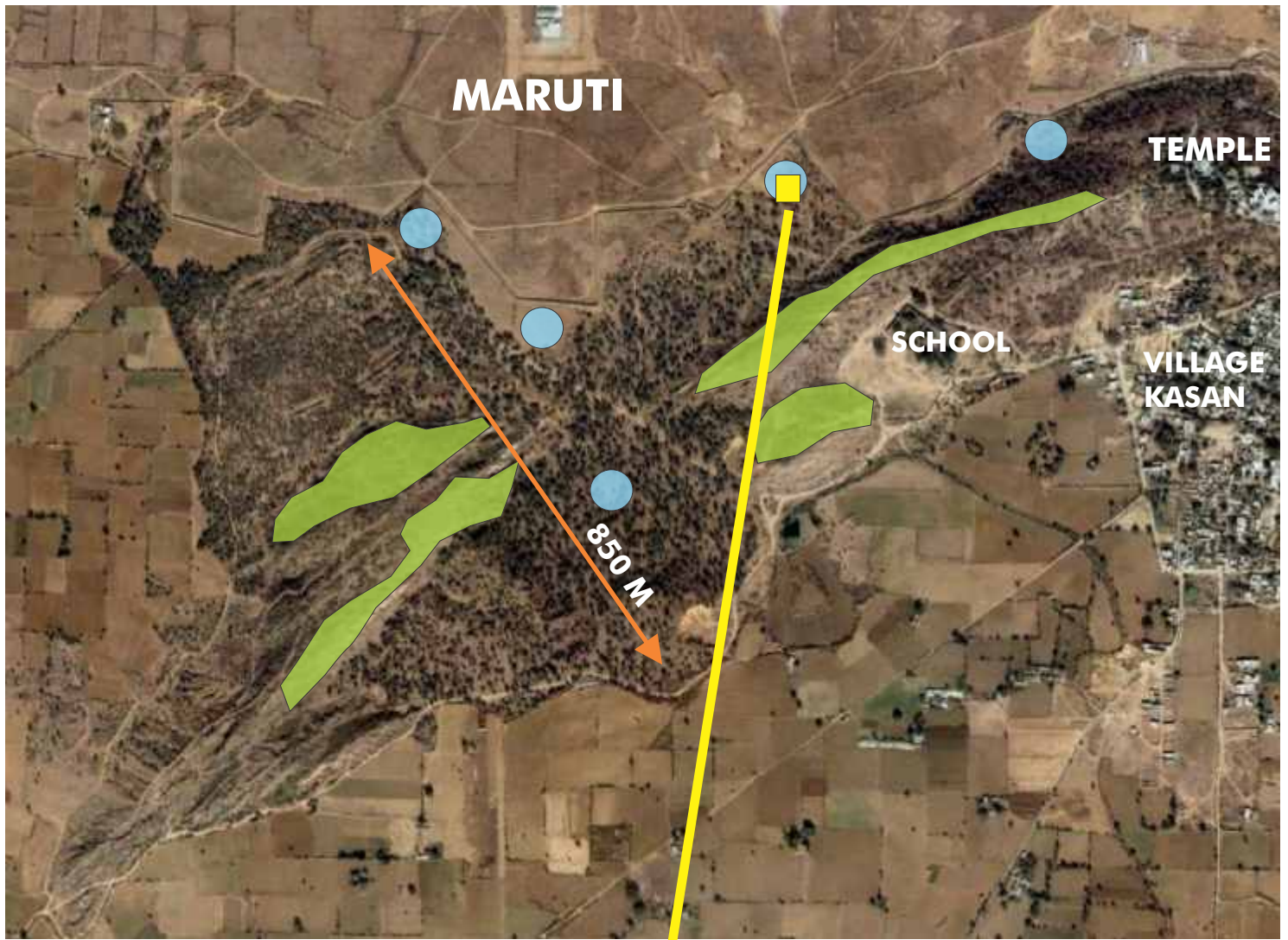
This area classified as semi-arid in terms of rainfall collection receives approximately 400 to 500 mm of rainfall. In this scenario, one hectare - 10,000 sq meters can conserve 5 million liters of rain water, if we organise and implement rain water harvesting solutions.



-  Area that needs plantation
-  Water body development

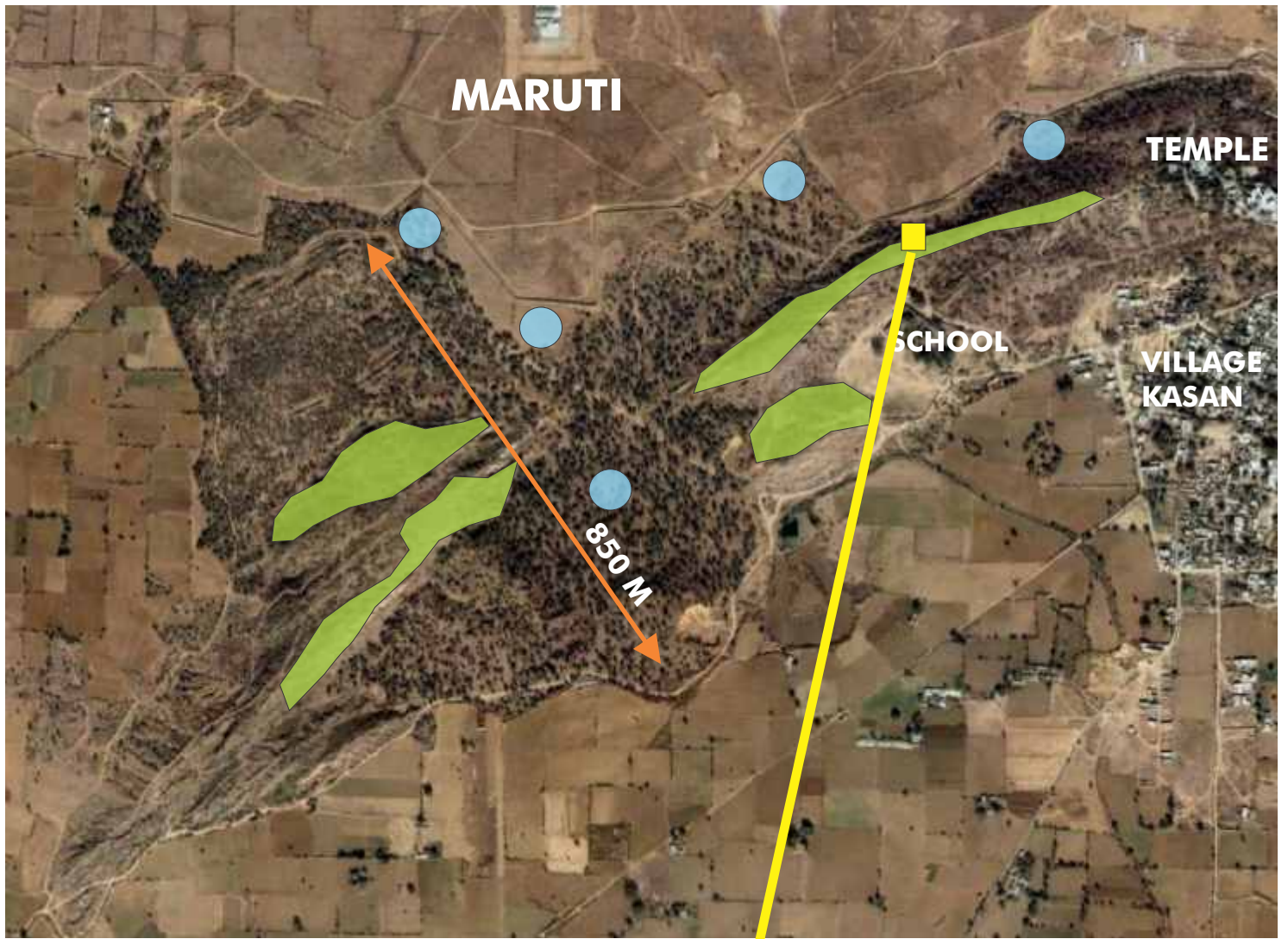


Existing anti-soil erosion walls, these can be the start points for the plantation drive.

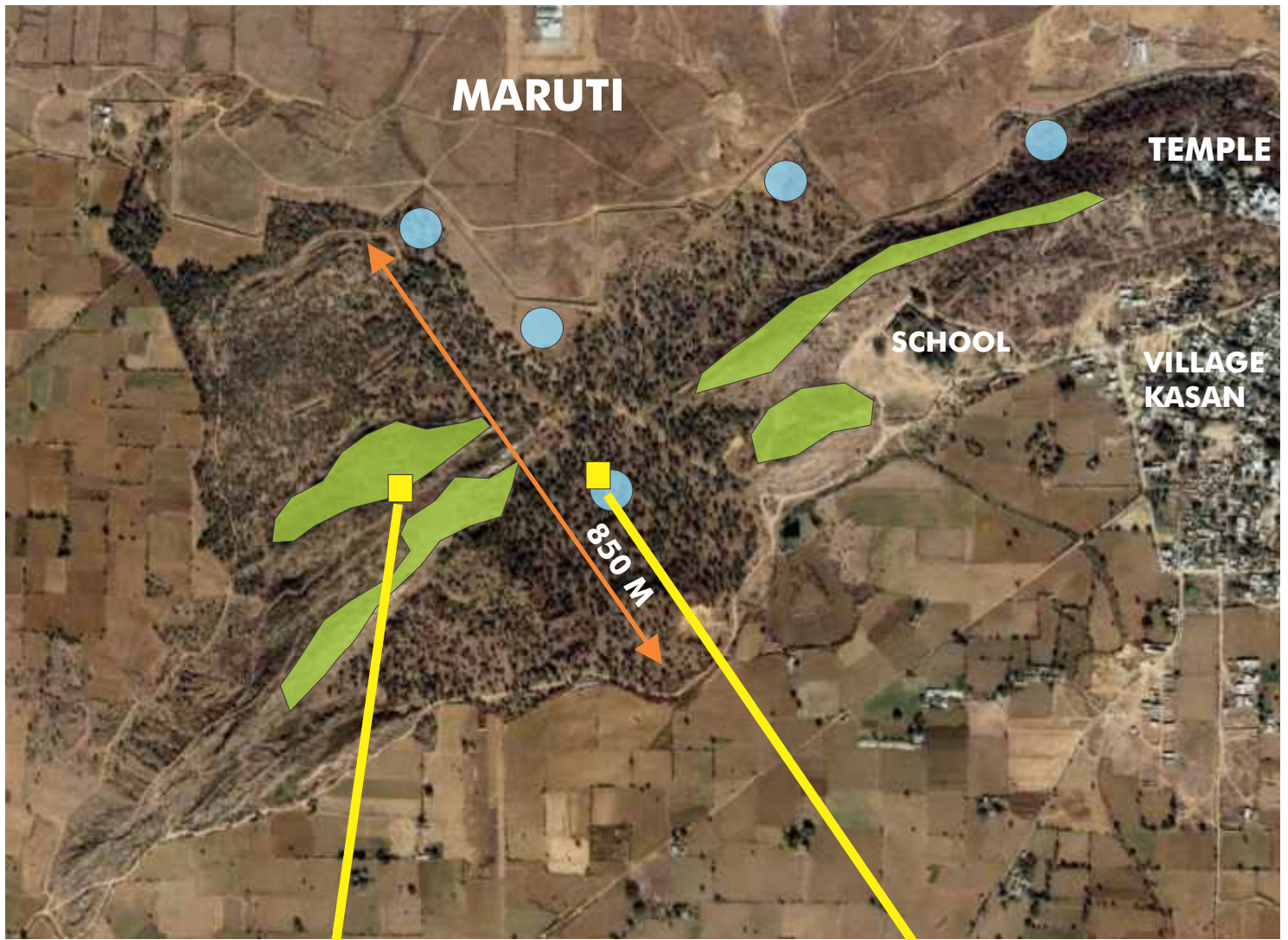


The location has many shallow points where there is considerable water flow along these shallow paths and ravines. These locations are ideal for a small water body, and can be created with a minimum of effort involving some bunding and shallow well digging.

This has been selected as our pilot project where we will plant trees and create small water holding bunds with wells.



View of the maruti land from the top of the hill near the school, the wall is blocking the water flow system that existed here for centuries.

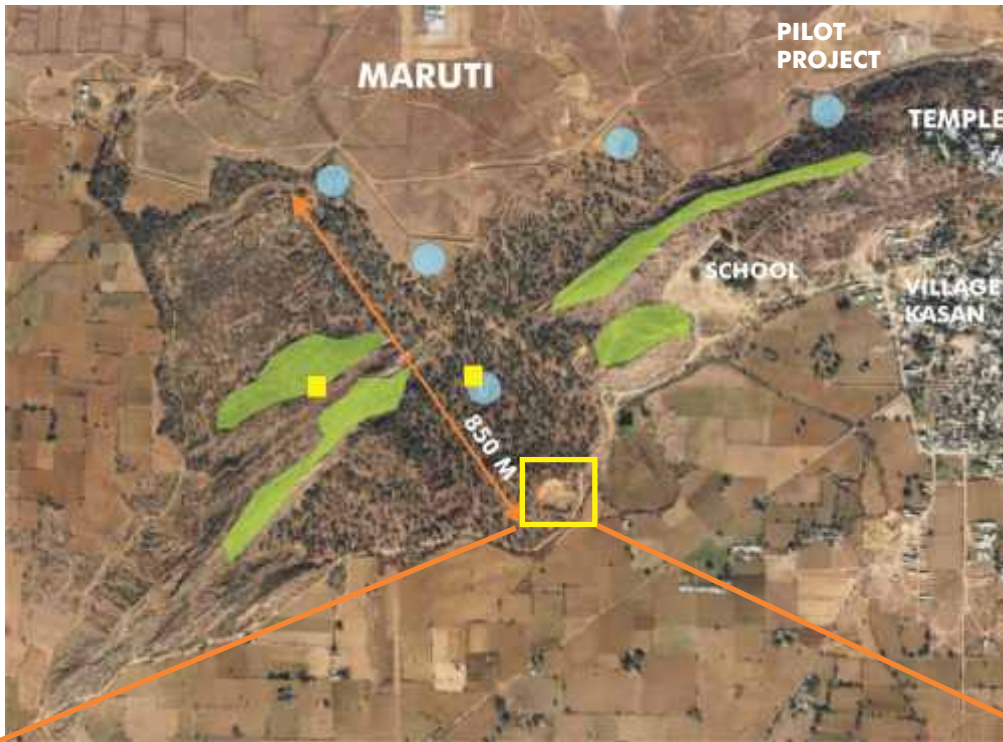


View from top of hill towards Maruti, the hills and the valleys here could use a lot of trees.



This is the lowest part of the location and is ideal to set up some water bodies as well as local tree plantation.

project 02 details

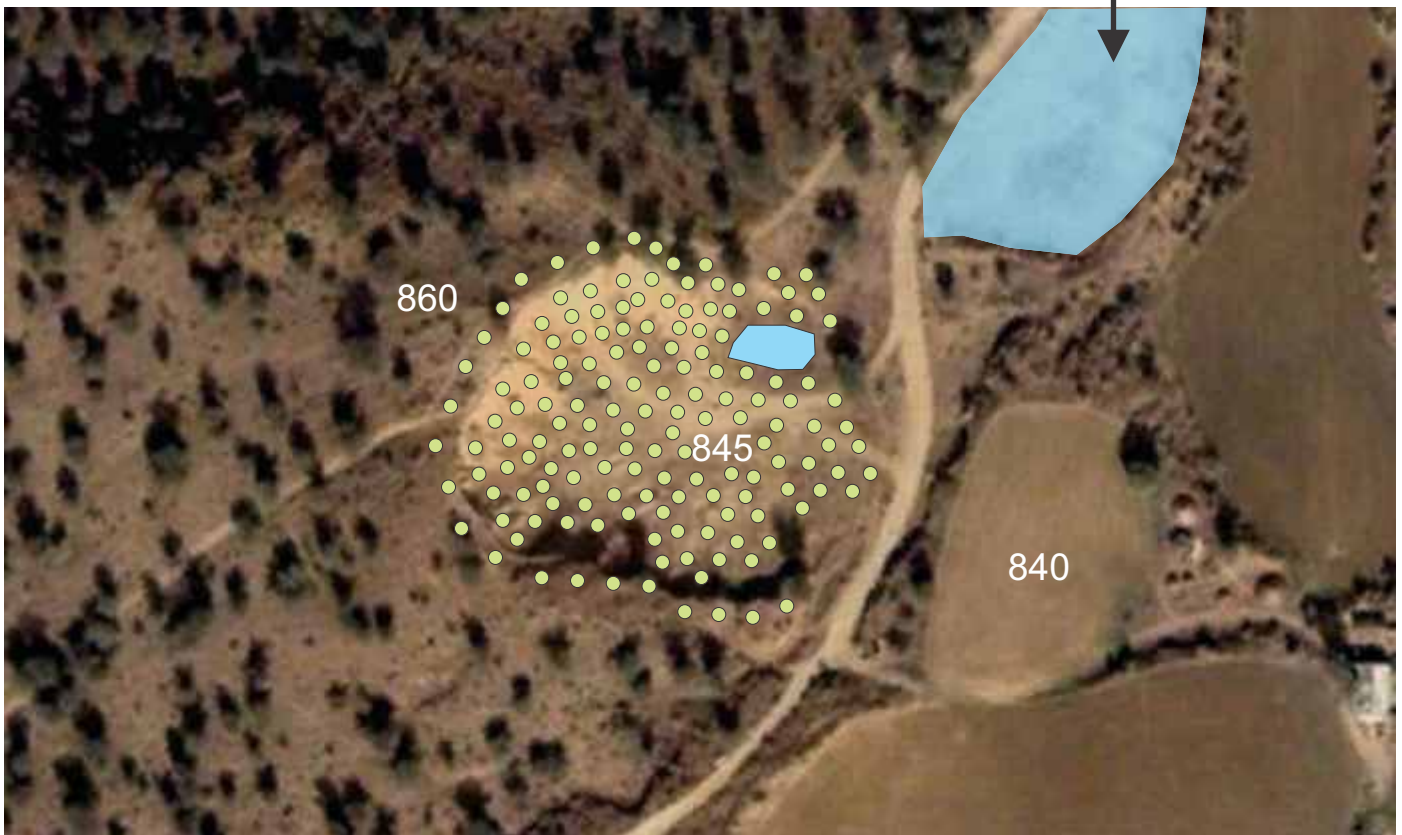


LAYOUT OF HILL WITH ALTITUDES

Area in circle is approx 1 acre and has been excavated illegally for mud by locals and IMT establishments. It had also started becoming a dumping ground for dangerous wastes from factories and local villages.

project 02 details

Existing rain fed pond



- Tree plantation area - approx 300 trees ■ water body to be created

Our plan for this area includes (31/07/2010)

1. plantation of approx. 300 trees in the hollow as well as the slopes and tops of the artificial hill created by excavation for mud. (200+ trenches have been dug and 30 trees have been planted.)
2. Creation of a small water body to help with water harvesting as well as the water hold for watering the trees during the summer and winter seasons
3. Employing approx. 10 - 15 people to dig the trenches, wells and maintain the area. We will start off paying for them ourselves and then get them registered under the NAREGA scheme of the Haryana Govt. (this process has started with 10 workers being registered). Upon completion of the trenches and the plantation we will employ 2 full time people to look after and water these trees. This care process will extend to 4 to 5 years into the trees life till it is strong and able to sustain itself through the changing seasons.