



Primary Health Centers in Nandurbar

A project executed by Gram Oorja Solutions

Supported by ICICI Bank



Initial Survey in August 2015

Commissioned in February 2016

11 Primary Health Centers

42 KWp Installed

6 off grid PHCs



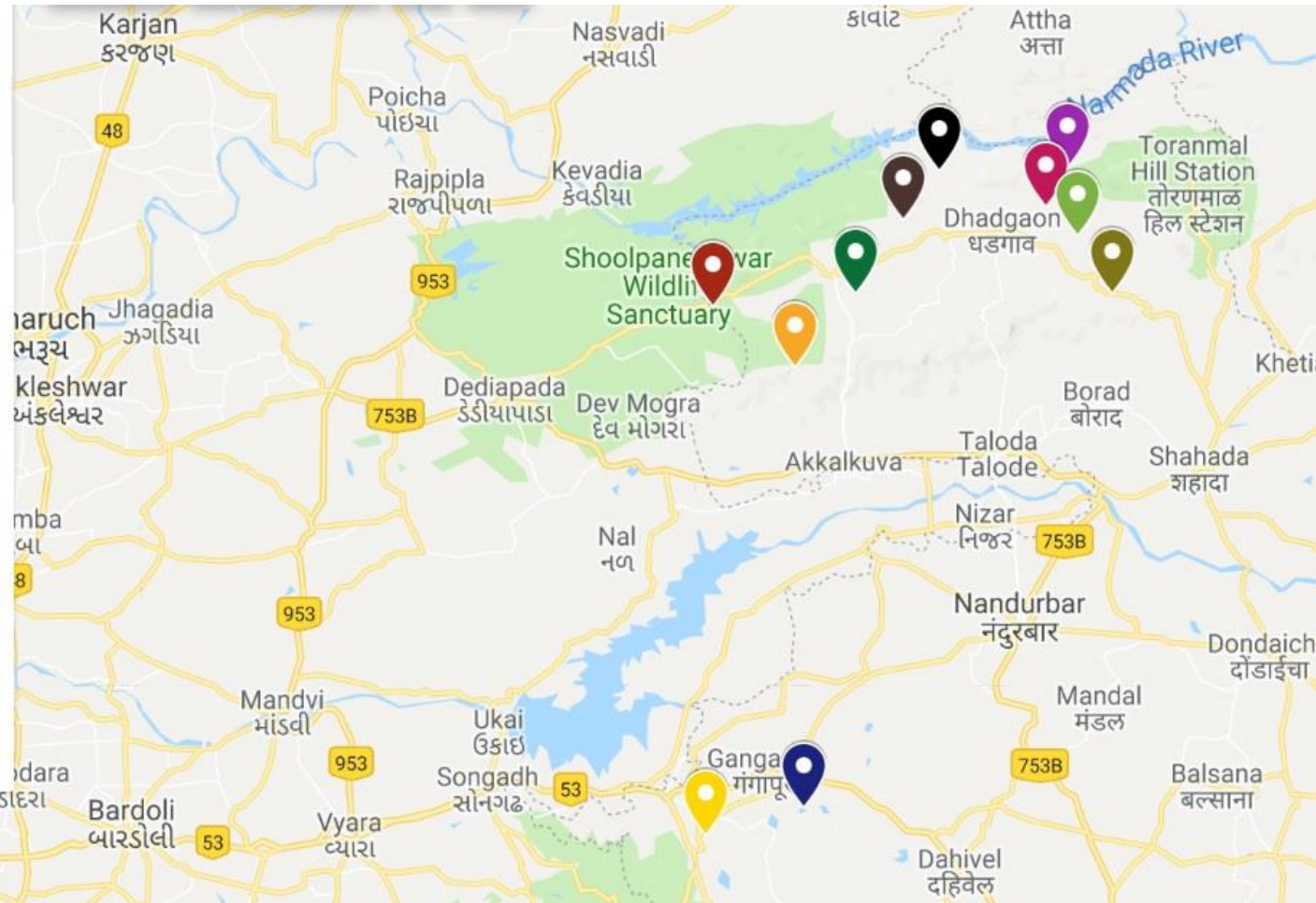
This Project focused on Electrification of Government run Primary Health Centers in Nandurbar District, Maharashtra using Solar PV based systems.

Many of these hospitals did not have any sort of grid connectivity, or were supported by a weak and unreliable grid. As a result, storage of vaccines was their biggest issue. Complementing this system, efficient and well supported lights and fans were also provided to the institutes.

Project Location

Locations of Primary Health Centers:

- Wadfali
- Veli
- Dhanrat
- Gatadi
- Bilgaon
- Kakarda
- Katri
- Rajbardi
- Telkhedi
- Roshmal



The health centers were in Dhadgaon, Akkalkua and Navapur Talukas of Nandurbar District. Nandurbar district has 69.3% tribal population (as per Census data, 2011). Tribes such as Pawra and Bhills reside in this region. The terrain is hilly and accessibility is an issue. These Primary Health Centers are the only healthcare service in this remote area.

Project Rationale and Project details

Reliable electricity was a very big issue for all the health centers. Due to the absence of reliable electricity, vaccines could not be stored in the hospitals. Lighting in hospitals was also an issue while examining patients. Most of these hospitals did not have complete infrastructure.

In hospitals having operation theater, operations could not be performed because of unreliable electricity. Even deliveries were carried out in dark.



Gram Oorja designed systems that were able to power medical equipment like ILR, Deep freezer, refrigerator and nebulizer. Electrical wiring, fans and lights along with its fitting was also a part of the project. Hospitals where operation theater as a part of infrastructure was available had a bigger system design. In those hospitals, all basic equipment operating on smaller system can run. Additionally, equipment like, shadow less lamp, fumigation machine, suction machine and fetal monitor can also run on the system. The hospitals now have assured 24x7 supply of electricity because of this system.

Staff was provided with training on handling the system. Foreseen situations were provided to them and necessary actions were explained.

System Details

Panels: Anchor by Panasonic

Inverter: Studer

Charge Controller: Studer

Lights: Havells 18W LED tube lights

Fans: Havells 50W

Battery: Amara Raja & Exide

3 kW – 9 Systems

6 kW – 2 Systems



Moving ahead

This Project has managed to create a tremendous positive impact in the lives of many villagers. Doctors are more comfortable and are able to give better healthcare for the villagers. Powering these Primary Healthcare Centers helps serving a very large population who do not have access to good healthcare facilities.

We would like to take our learnings from this project and work towards ensuring uninterrupted power for healthcare services.



Project Funded by



Project Executed by



Thank You!

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