



PROPOSALS (TECHNOLOGY DEVELOPMENT)
Upper Cap Funding Rs.1,00,000



SEG Name	:	Water Resource Management
SEG Contact Details	:	Prof. Manoj Kumar Tiwari, Indian Institute of Technology, Kharagpur
Proposal Id	:	C-15745/MH/SOL/WRMT/1LAKH/1
Title of the Technology	:	Solar Operated RO water plantt
Amount Requested For	:	100000
Date of Proposal Submitted	:	14-07-2023
PI Contact Details	:	Swanand Gajanan Kulkarni, swanand293@gmail.com, 7875212835
State	:	Maharashtra
District	:	Solapur
Village Name	:	Gardi
Current Status	:	Forward to SEG

Proposal submitted by	Skn Sinhagad Colleg of Engineering Korti Tal Pandharpur Dist-Solapur	RCI	Indian Institute of Technology, Bombay (AISHE Code:-U-0306)
Name of College/Institution	Skn Sinhagad Colleg of Engineering Korti Tal Pandharpur Dist-Solapur (AISHE Code:-C-15745)	State	Maharashtra
District	Solapur	Village Name	Gardi
Block		Date of submission	14-07-2023
Coordinator Name	Swanand Gajanan Kulkarni	Email ID	swanand293@gmail.com
Mobile No	7875212835	Principal Investigator	Dr Swanand Kulkarni
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Proposal Overview

Subject Expert Group:	Water Resource Management
Title Of Technology:	Technology Development
Village where it is to be implemented	Gardi

Objective	Contaminated water and poor sanitation are linked to transmission of diseases such as cholera, diarrhoea, dysentery, hepatitis A, typhoid and polio. Absent, inadequate, or inappropriately managed water and sanitation services expose individuals to preventable health risks. Also, drinking contaminated, or unclean, water can make you sick with diarrhea, vomiting, and stomach pain. You can get sick if you use contaminated water for cooking, washing food, preparing drinks, making ice, or brushing teeth. Contact with contaminated water, such as wading or swimming, can also lead to illness. Waterborne illnesses can cause a variety of symptoms. While diarrhea and vomiting are the most commonly reported symptoms of waterborne illness, other symptoms can include skin, ear, respiratory, or eye problems. Without sterilization, untreated or unfiltered water could be swarming with dangerous microorganisms, such as Giardia lamblia, cryptosporidium, and Vibrio cholerae, which could lead to hazardous health issues, such as diarrhea, sepsis, cholera, and potentially death. There is no water treatment plant in this village. All the citizens are using the untreated water for drinking as well as for other purposes also. Drinking pure water strengthens the immune system. Water helps in producing lymph in your body, which keeps your immune system healthy. Drinking pure water lets your body detoxify through urination, thus keeping the body toxin-free and with a strong immune system. The unavailability of treated water for drinking as well as cooking purpose is the main problem in this village. Non availability of pure water is the main problem of this village. The main objective is to provide pure water to this village.
Funds Raised from Gram Panchayat	CSR
Details of the funds raised from other agencies	The man power required for installation will be provided by Gardi Village.
Describe your role at various stage of the Project	Procurement of instruments, inspection of instruments and supervising while erection of the total plant will be the role and responsibility till completion of project.
Describe your role at various stage of the project	AS and when fund will be available, the material will be purchased following proper guidelines. after material is received, it will be checked for their quantity as well as specification. The erection process will be started immediately after inspection. after erection, the supply of solar plant and the quality of water will be checked. after successful results the system will be handover to Gardi village. the instruction manual will be prepared and will be handover to Gardi Village.
Impact on village/ Beneficiaries	
How to maintain future sustainability of installed technology in the village	The total system will run on battery system, which will be powered by solar. A person should be assigned for the delivery of water. The same person will look after the maintenance of the system. If any technical maintenance is needed, Mou will signed and Institute will provide technical support with the help of trained students along with faculty members.
Impact of this work on learning of Students /Teacher	The student will learn the RO system as well as solar system. Installation of the same will be monitored by students and faculty members.
Role of PI after compilation of the project duration	PI will take feed back from GARDI persons about the working of the system. PI will assure the providing services to the installed system. , so that system will be in running condition.
Supporting Document	View Document View Prototype View Prototype

Total cost of the Product / Technology

S.No	Categories of Fund	Total cost of the Product / Technology
1	Site Preparation Cost	9000
2	Equipment/Machinery cost	85000
3	Running Cost	5000
4	Manpower Cost	0
5	Electricity Cost	0
6	Miscellaneous Expense	1000
Total		100000

Observation / Comments

Comment By PI	All documents are submitted. Please verify. Date:14-07-2023
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