

## CALIFORNIA STATE SCIENCE FAIR 2015 PROJECT SUMMARY

Name(s)	Project Number
Sidharth Bommakanti	
	35350
Project Title	
Wellness Water: Implementation of a Dual-Filtration System to Clarify	
Domestic Water Sources in Rural Ccommunities	
Objectives/Goals Abstract	
My main goal was to Implement a sustainable, low-cost dual-filtration system t	clarity contaminated
domestic water sources in rural communities.	$\bigcirc$
I created a slow sand filter bed after getting permission from the Parchaval Ut	completion. I
I created a slow sand filter bed after getting permission from the Parchaya. Up commenced wetland construction. I conducted focus groups to collect data fro who represent the entire spectrum of socioeconomic backgrounds. I created a h	n community members
who represent the entire spectrum of socioeconomic backgrounds. I created a h	gh school water quality
curriculum to integrate into the existing high school curriculum. All water qual field were conducted using the DR890 handheld water quality test kit. Column	etric assavs were used to
reveal the presence of nutrients, turbidity levels, pH, and oxygen content	
Results	be reduced significantly
The sand filter bed created reductions in key contaminants. These numbers will through the creation of a wetland system. Partnerships have been established w	ith the Panchavat, the CDD
Society, Journeyman Internation Inc, and the Kowtaram Righ School	· · · · · · · · · · · · · · · · · · ·
Conclusions/Discussion Pilot presentation of high school water sonitation surriculus received overwhelming support from the	
Pilot presentation of high school water sanitation curriculum received overwhelming support from the local government and high school administration. The dual futration system is both a low cost and	
sustainable water purification method.	
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Summary Statement	
My project is an attempt to find a way to clarify domestic water sources throug	hout the world
Help Received	
Mrs. Pereira helped with supplies	