



**CALIFORNIA STATE SCIENCE FAIR  
2006 PROJECT SUMMARY**

<b>Name(s)</b> <b>Anjuli H. Dasika</b>	<b>Project Number</b> <b>J0910</b>
<b>Project Title</b> <b>How Clean Is Drinking Water in India?</b>	
<p style="text-align: center;"><b>Abstract</b></p> <p><b>Objectives/Goals</b> Comparing India's water quality to EPA, WHO, and India water quality standards. I conducted this experiment to prove that the water qualities in different parts of India do not meet the EPA or World Health Organization standards, but meet the requirements for India's water quality standards.</p> <p><b>Methods/Materials</b> In order to conduct this experiment, I needed one glass filled halfway with tap water (ran for 30 sec.). Then I used the drinking water testing kit to test different strips of PH, Total Hardness, Free Chlorine, Total Chlorine, Nitrate, Nitrite, Copper, and Iron. By following the directions on the bottles, I found out each component in different parts of India. Then, I graphed my results and compared to EPA, WHO, and India standards.</p> <p><b>Results</b> The pH in India turned out to be from 8-9 in all locations. Total hardness was from 120-425 (hard-very hard). Free chlorine/total chlorine were all 0. Nitrate was from 0-50. Nitrite was mostly 0, but one result was 10. Copper was 0-0.2. Iron was 0-0.15. pH passed standard, Total hardness max level between permissible, chlorine, Nitrate passed permissible, Nitrite met, Copper met max, Iron met India.</p> <p><b>Conclusions/Discussion</b> For India standards, all except pH met the permissible or maximum standard. For EPA standards, all met but pH exceeded standards. For WHO standards, India standards and not all failed on EPA/WHO standards.</p>	
<b>Summary Statement</b> My project is about testing India's tap water quality and seeing if it meet the requirements of EPA, WHO, and India water quality standards.	
<b>Help Received</b> Mother helped me get the test kit and manuals. Mother helped me formulate graphs on Excel. Parents took me to India. Mother cut the display board for me.	