

(54) Title of the invention : HOT WATER STORAGE TANK WITH THERMAL INSULATION.

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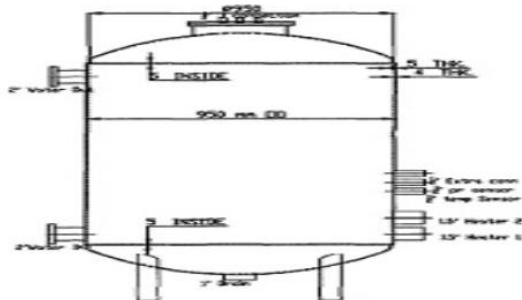
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(57) Abstract :

The titled invention of 'Hot water storage tank with insulation explains the utilization of geothermal energy by storing it and producing electricity through it in a cyclic manner. As conventional energies are depleted, industries' growth depends upon the availability and affordability of unconventional energy sources. Geothermal energy is one such energy source that can be utilized depending on its enthalpy. This hot water storage tank with insulation aims to store the hot geothermal water, which is circulated in a loop for power generation through an organic Rankine cycle. Through this invention, we can prevent heat loss from the geothermal water coming from the wells. It will also reduce the extra cost and energy required for heating the water to the optimum temperature for power generation. This is the first of its kind system in India, where an external geothermal reservoir is fabricated for geothermal energy storage and later used for power generation.

Figure 1



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