

Mitigation of Glacial Lake Outburst Flood (GLOF) at South Lhonak Lake

South Lhonak Lake is located at North Western part of Sikkim with geographic location $27^{\circ} 54' 56.7''\text{N}$ and $88^{\circ} 12' 35''\text{E}$ and at an altitude of 5245 m. The area of the lake has increased from 17.9 hectares in 1979 to 126 hectares in 2013.



The first field expedition to study the lake was conducted in August 2014. Subsequent expeditions were carried out in 2016, 2017 and 2018 to implement mitigation measures to reduce the volume of water in the lake by Siphoning. Three pipelines of 8 inch dia heavy duty HDPE pipes have been installed to Siphon out water to reduce the threat of GLOF.



The Expedition team comprised of members from various Departments / Organisations of the State / Central Government , Army and ITBP . Community level awareness programs on the threat of GLOF are conducted in the low lying areas along the river belt.