

A NOTE ON MICRO TREMOR REPORTED AT CHANNAPATNA, RAMANAGARA, KANAKAPURA OF RAMANAGARA DISTRICT

KSNDMC has established a VSAT Enabled Permanent Seismic Monitoring Stations Network in Karnataka which has taken up monitoring and disaster mitigation tasks as and when a micro tremor happens. The micro seismic activity is being continuously monitored at KSNDMC through VSAT enabled Seismic Monitoring Station Network established in the State.

It was reported today, dated 18.04.2017 at 07:37 am that a micro tremor has been felt in the areas of Channapatna, Ramanagara & Kanakapura of Ramanagara District. The data at the VSAT Enabled Permanent Seismic Monitoring Stations Network established by KSNDMC has been checked and there has been NO trace of Earthquake signal for the said date & time. The possibilities of the said tremor may be due to any of the following:

- The Seismic data from 14 Observatories being received at the Master Control Facility (MCF) of KSNDMC, Bengaluru has been checked and no record of any Micro Tremor exists as the ground vibrations felt are of very localized vibrations and will not transmit to larger distances.
- The Strength of the Micro Tremor as reported may be of a very low Magnitude (less than 1.0) due to which the Tremor was not recorded by the said Network. The nearby Observatories are located at Thippagondanahalli Reservoir, K.R.S Dam, Hemavathi Dam, Harangi Dam & Gundal Dam Observatories.
- The vibrations reported to be felt during the Micro Tremor might be due to a local Quarrying activity which might have a tendency of creating such vibrations for 2-3 seconds duration.
- Further, such types of Tremors occur frequently in the Earth's Crust as a process of Crustal readjustments which is quiet common globally. Many of the Tremors on the Globe due to such Crustal readjustments go unnoticed due to short distance decay of signal.
- The District Administration needs to keep the personnel of Primary Health Centres covering the villages experiencing the ground vibration, concerned Police Stations, Power Transmission personnel, Fire personnel and other concerned in readiness to face in case of any eventuality.

These low magnitude Micro Tremors which are less than 1.0 do not cause any damage to the life and property although there may be light shaking & cracks formed depending on the mode of local construction and the perception of the local community. As the micro tremors are of low magnitude, there is no need to get panicky.