

## Exploration of the underground structure along the line from Zama to Hiratsuka using seismic refraction method

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Exploration of the underground structure was carried out in the Kanagawa prefecture using artificial earthquake. Authors observed the seismic motion along the survey line from Zama shot point to Hiratsuka shot point. The results are as follows;

(1) Zama explosion; The velocity of direct wave was estimated at 2.3km/s. The apparent velocity of refracted wave was estimated at 5.2km/s to distance about 8 km, but 4.1km/s in the southern area.

(2) Hiratsuka explosion; The velocity of direct wave was estimated at 1.8km/s. The apparent velocity of refracted wave was estimated at 4.5km/s.

As the results, the true velocity of the second layer was estimated at 4.8km/s.