

## Universal Recoil Fluid (URF)

DRDO lab DMSRDE, Kanpur has developed Universal Recoil Fluids (URF) using ethyl alcohol, glycerol and water in definite proportions fortified with suitable corrosion inhibitors to guard against corrosion of various metals. These fluids are miscible with water in all proportions. Currently, three versions of URF are in use viz URF Plain, URF 75:25 and URF 80:20. These fluids have very low and different freezing points. These fluids are anticorrosive towards mild steel, brass and bronze metals and also non-reactive towards various rubber seals. After exhaustive trials these fluids were introduced in to services. The fluids are used in recoil system of various artillery guns.

Interested Industries are requested to forward their Expression of Interest (EoI) to Director DMSRDE, Kanpur with a copy to Director DIITM, DRDO HQ on following address:-

**To,**

**Director**

**Defence Materials and Stores Research & Development Establishment (DMSRDE)**

DRDO, Ministry of Defence, Government of India,

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Email ID: **director [dot]dmsrde[at]gov[dot]in**

### Copy to

**Director**

**Directorate of Industry Interface & Technology Management (DIITM)**

Room No. 447, DRDO Bhawan, DRDO HQrs, Rajaji Marg, New Delhi-110011

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Industries are requested to enclose supporting document with EoI as per Appendix 'D' of DRDO Policy and Procedure for ToT available at <https://www.drdo.gov.in/sites/default/files/inline-files/drdo%20Policy%20%26%20Procedure%20%20for%20ToT.pdf>