

TCL (3 Challenges)

91.

Head	Description
Nodal DPSU	TCL
Problem Statement	Development of Control Valve used for regulation of fuel supply in Heater Space Oil & Gas Burner used by Indian Army, Indian Air Force, BRO, NDRF etc.
Brief Description	<p>Heater Space Oil & Gas Burner is a device for heating the tent, room and other spaces of accommodations by Indian Army, Indian Air Force, Border Road Organization, NDRF etc.</p> <p>The control valve used in the HSOB is ex-import item and widely used for regulation of fuel supply to the burner, necessitating indigenization.</p>
Tentative total development budget	INR 0.096 Cr
PoC	Shri Manish Yadav, Sr. Manager/OEF Kanpur (manishkryadav[at]ord[dot]gov[dot]in)

92.

Head	Description
Nodal DPSU	TCL
Problem Statement	Development of non-repeatable MSCN fabric across all possible spectrum.
Brief Description	<p>Modern battlefields are dominated by multi-sensor surveillance systems, AI-based pattern recognition and automated target detection operating across the visible, infrared, and radar spectrums .</p> <p>Conventional camouflage nets, which largely rely on repetitive visual patterns and limited spectral control, are increasingly vulnerable to detection by these advanced systems.</p>
Tentative total development budget	INR 0.2 Cr
PoC	Shri Rishi Babu, Dy. General Manager/OCF Shahjahanpur (rishibabu[at]ord[dot]gov[dot]in)

93.

Head	Description
Nodal DPSU	TCL
Problem Statement	Improvement of colour fastness properties of Combat Uniform Fabric used by Defence forces
Brief Description	The current challenge lies in achieving consistent and durable colour fastness in combat uniform fabrics without compromising other critical operational requirements such as durability, wearer comfort, and camouflage performance.
Tentative total development budget	INR 0.1 Cr
PoC	Shri P Senthil Kumar, General Manager/OCF Avadi (psenthilkumar[at]ord[dot]gov[dot]in)