

## **EXTREME COLD WEATHER CLOTHING SYSTEM**

The **Extreme Cold Weather Clothing System** developed by DIPAS, DRDO is Modular, three layered clothing system which has been designed and evaluated to meet the insulation, waterproofing, strength, light weight and ergonomically evaluated wearer comfort requirements during combat operations in extreme altitude regions. The outer layer of the clothing is reversible for camouflage purposes in both snow bound terrain as well as areas without snow cover. The ECWCS is made of fabrics and insulation material to meet approximate cumulative weight of 4.5 kg for all the 03 layers while providing a CLO value of  $> 5.5$ . The Outer layer and Middle layer are water proof while the inner layer has antimicrobial ECWC finish. The design of the three layers along with reinforcement areas is such that it meets range of motion requirements for all desired human movements while catering to the ruggedness requirements in mountain terrains. The product has been field evaluated in human subjects and meets the IREQ for extreme altitude military and paramilitary operations.



Inner Layer



Inner & Middle Layer



Inner, Middle & Outer Layer