

All Terrain and Combat Boot

Common man, military recruits and other occupational workers walk about 7-11 km per day, sometimes with loads. During their daily activities, impact forces transmit to body and are absorbed by lower extremities, specially ankle, foot and knee joints. High impact forces cause injuries in lower extremities over long durations. Footwear plays important role in minimizing transfer of impact forces to lower extremities. DIPAS, DRDO has ergonomically designed, developed & fabricated "All Terrain and Combat Boot" for different terrains. The special features of the product are light weight (<1.5kg) antistatic, antiskid, anti-penetration, oil/acid surface resistant and water resistant. The advance sole system comprises of outsole, midsole and elastomeric Insock. Other special design features are advanced leather at the vamp and nylon at the upper ankle providing adequate flexibility at the ankle and toes of the feet. This all terrain and combat boot reduces the impact force transfer to the lower extremities thereby preventing overuse injuries and minimizing risk of falls on long term use. It also reduces energy expenditure, delays onset of fatigue, enhances walking efficiency and mobility. The product has been laboratory and field evaluated.

