

Pechora Missile System

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Pechora Missile System Latest News

Bengaluru-based defence equipment manufacturer Alpha Design Technologies Ltd (ADTL) has completed a major upgrade of the 's (IAF) Pechora, a surface-to-air missile (SAM) system, in line with the Centre's push for modernising ageing military hardware through indigenous capability.

About Pechora Missile System

- The Pechora, officially known as the S-125 Neva/Pechora, is a Soviet-origin, medium-range surface-to-air missile (SAM) system designed to intercept low- to medium-altitude targets.
- It has been a mainstay of India's air defence network since the 1970s.

Pechora Missile System Features

- The system consists of a **radar-guided missile launcher** and a **fire control unit**, typically employing the **V-600 missile**.

- It uses the **4R90 Yatagan radar**, equipped with five parabolic antennas, to **detect, track, and lock onto targets**.
- Once a threat is identified, the system can launch missiles to intercept and destroy it mid-air.
- It is **particularly effective against slow-moving or low-flying targets**, making it well-suited for **countering drones and cruise missiles**.
- It can **operate independently or as part of a larger, integrated air defence network**, and is capable of functioning even in environments with heavy electronic jamming.
- **Range:** The Pechora system has an operational firing range of up to **30-35.4 km**, with some upgraded versions reaching 35.4 km.
- **Altitude:** It can engage targets flying at altitudes from **as low as 20 meters up to 20-25 km**, making it versatile for both low and medium-altitude threats.
- **Detection:** The system's **radar can detect targets up to 100 km away**, providing early warning and engagement capability.
- **Accuracy:** The Pechora boasts a **high kill probability of around 92%** and can **engage up to two targets simultaneously** at speeds up to 900 m/s.

Source: TOI

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