

## RFI and RFP

**Tender for Indigenously Developed ERP Based on an Open Source for Financial Information System, Indian Army**  
Issue Date: 19 May 2023 | Response Date: 3 July 2023

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**Indigenous development of 07 types of upgrade spares of Engine System MIG-29 Aircraft, Indian Air Force**  
Issue Date: 10-Jun-2023 | Response Date: 27-Jul-2023

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**RFI of Small UAV for High Altitude, CRPF**  
Issue Date: 29 May 2023 | Response Date: 13 June 2023

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**Eol for draft QRs/Specification of Jacket Extreme Cold Climate Two Layer MK-II, CRPF**  
Issue Date: 10 June 2023 | Response Date: 26 June 2023

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## NEWS

### Department of Ex-Servicemen Welfare signs MoU with Kotak Mahindra

This partnership would bring in more visibility for the Ex-servicemen to the industry and corporates and help in achieving the objectives of providing skilled manpower and giving a dignified second career to our Ex-servicemen.

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### INS Vikrant headed for 'guarantee refit'

Even though INS Vikrant is headed for its mandatory "guarantee refit", the INS Vikramaditya carrier is fully operational after a major overhaul last year and will be charting oceans this year.

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### CSL emerges as L1 for Mid Life Upgrade contract of Indian Navy

The final contract is expected to be signed soon. The estimated contract value is around Rs 300 crore approx. and the estimated duration is around 24 months.

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### Indian Army signs contract for procurement of Tactical Lan Radio

The contract with M/s Astrome Tech Pvt Ltd, Bangalore for procurement of indigenously developed 'Tactical LAN Radio' was signed in presence of Lt Gen MV Suchindra Kumar, the Vice Chief of Army Staff at New Delhi. With this initiative, the Indian Army has taken a lead by signing two contracts under iDEX till date.

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### CRPF issues Eol for Specification of Extreme Cold Climate Jacket

This specification covers the requirements of Jacket Extreme Cold Climate Two Layer MK-II in Four sizes viz Small, Medium, Large and Extra-Large, intended for use at high altitude areas. It consists of two independent Layers.

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### Thyssenkrupp Marine, Mazagon Dock sign submarine MoU

As part of the framework agreement signed, Thyssenkrupp would take care of engineering and design, while MDL would oversee construction and the delivery of six submarines the Indian Navy has tendered. Worth mentioning, the Indian Ministry of Defence (MoD) is likely to finalise the winner of the contract by the end of this year or early next year.

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**Tata Elxsi partners with ISRO for Gaganyaan Mission**  
Scheduled for 2024, the Gaganyaan project aims to launch a three-member crew into a 400-km orbit for a three-day mission, and safely bringing them to Earth by landing in Indian sea waters.

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**GRSE Launches two Warships INS Anjadip & Sanshodhak**  
To be noted that the contract for building eight ASW SWC ships was signed between MoD and Garden Reach Shipbuilders and Engineers (GRSE), Kolkata on 29 Apr 2019.

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### Belgium to supply Ukraine with \$35 Mn worth 105mm Artillery Rounds

Belgium will be supplying 105mm artillery rounds worth 32.4 million Euros (\$34.80 Million) to Ukraine. The supply is part of Belgium's 14th military aid package to Ukraine.

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### Germany to buy Arrow 3 air defense system from Israel

Germany has approved an advance payment for the purchase of the Arrow 3 air defense system from Israel for nearly four billion euros (\$4.3 billion). The budget committee in the lower house of parliament gave the green light for an initial payment of 560 million euros.

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### Israel defence exports reached record \$12.5 Bn last year

Israel exported a record \$12.556 billion in defence products last year, witnessing a 50% increase over the previous three years and a doubling in volume over the previous decade. Drones accounted for 25% of the 2022 exports and missiles, rockets or air defence systems for 19%.

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### Leonardo bags Contract for Advanced Infrared Weapon Sights

Under the contract, Leonardo DRS will produce the advanced system known as the Family of Weapon Sights Sniper, Improved Night / Day Observation Device Block III.

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## SPOTLIGHT

### Artificial Intelligence (AI) in the Indian Defence Sector

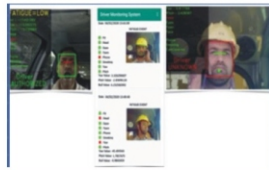
Block Chain Based Automation

**Permissive Block Chain Mechanism**  
The solution is intended to create a Trusted Communication Platform using Block chain. The idea is to establish a secured network for data transfers between DPSUs, Distributed Ledger is the concept used for development with necessary Identity management and control mechanisms to protect the data shared among different organisations. The proposed use-case solution is planned to provide transparency, security and accountability for file sharing among DPSUs using Block chain Technology.

Cyber Security

**Android Malware Detection Solution**  
This is a comprehensive system to analyse the lacks and weaknesses of the android applications. It reports the detected malware in a user-friendly format, performs audits and exploits (for vulnerability proof of concept purposes) Android applications. Malware detection is done using deep learning libraries (RNN and LSTM) A sample dataset of 6000 Android applications is used to build a vulnerability scanner model using deep learning. This will predict the vulnerability for a new application fed to the model.

Human Behavioural Analysis



**Driver Fatigue Monitoring System**  
Assessing driver fatigue in critical conditions is an indispensable tool, especially in the armed forces. A real-time, non-intrusive AI-based system can predict accurately and identify situations where drowsiness and fatigue in the driver may be setting in. Detection is based on performance. The intelligent system detects the onset of drowsiness in driver, while the vehicle is in motion. A camera inside the cabin films the driver continuously. A detection system analyses the movie frame by frame and determines whether the driver's eyes are open or closed. Detection is done by continuously looking out for symptoms of drowsiness, while considering physical cues including yawning, drooping eyelids, closed eyes and increased blink duration by using percentage of eyelid closure over the pupil over time (PERCLOS) algorithm.

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