

ASTRA - AIR DEFENCE SYSTEM of GBAD forces for SAM, AAA, MANPADS systems

MLV3213

CSA952

ASTRA is a ground based air defence system designed for SHORAD SAM, AAA and MANPADS forces. GBAD forces and weapon systems are controlled from ASTRA mobile command post (MCP) located on a tracked vehicle and equipped with hardware and LETVIS AD software designed for C³I systems applications. ASTRA C³I system provides the commander with accurate and timely information required for effective control/employment of short range SAM (optionally medium range SAM through modification of SW and communication equipment), MANPADS, and AAA weapon systems.

System configuration:

ASTRA system consists of:

- MCP ASTRA
- Upgraded PSR (P19)
- Upgraded SAM of SA 13 series
- BRAMS, self-propelled AA system
- Man-portable tactical data terminal for IGLA (SA 16) commander, or
- IGLA (SA 16) tactical data terminal optionally fielded in tracked armoured personnel carrier (APC) of OT-90 series.

Workplaces and Modules:

MCP ASTRA is fitted with:

- Commander workstation
- Deputy commander workstation
- Supervisor workstation
- Communication computer
- Communication and support equipment
- Data/voice recording device

MCP ASTRA capabilities:

- track data receipt from PSR
- ASTRA fire units position/status data transfer to MCP ASTRA - for system database reconfiguration
- ASTRA fire units positioning via GPS
- processing of radar data received from higher command level
- continuous air situation analysis for air threat assessment, establishing air defence priorities and a flexible countering air attacks
- support to commander decision-making process for timely employment of most suited weapon system in terms of its capabilities, location and sustainability
- recognized air picture dissemination to MCP workstations for air defence operations
- fire units tasking within the GBAD cluster
- co-ordination with the Air Force for tasking of AD aircraft
- operation control and monitoring of workstations and associated equipment, weapon systems status as well as continuous supervision of data links
- monitoring and record/archiving of operator activities during each mission, creation of documentation in electronic form
- combat simulation and operator training

Radio communication equipment integrated into MCP ASTRA shelter provides for:

- data/voice communication with subordinated fire units
- data/voice communication with local radar network
- data/voice communication with higher command level
- fixed telecommunication network connection
- intercom and LAN communication

