

MULTI TARGET TRACKING SYSTEM FOR TANKS

1. **Name of Project.** Multi Target Tracking System (MTTS).
2. **Brief Description.** In present day scenario with latest technological development and increased distances between two AFVs during operations, handling more than one target at the same time is a high possibility. To achieve this, it is imperative to develop a high technology tracking system which not only can detect and track multiple targets but also is able to assist commander to prioritise targets and align the prioritised target smoothly with Gunner's Main Sight (GMS) to be able to destroy the target. The commander will have provision to prioritize and queue the desired targets. The commander should be able to take control of the gun and engage targets or hand over the prioritized targets to the gunner main sight which should align to the direction of the target handed over by the commander thus achieving multi target tracking and engagement.
3. **QRs.** The desired Qualitative Requirements (QRs) for MTTS is as under :-
 - (a) Provision for image stitching and image enhancement.
 - (b) Video of the targets to be acquired to ensure 360⁰ field of view in azimuth.
 - (c) Detect and track multiple targets.
 - (d) Provide user interface to prioritise the targets.
 - (e) Provision for aligning the selected target to Gunner's Main Sight (GMS).
 - (f) Gunner to have an automatic target tracker (ATT) to track the handed over target or an independent target he has acquired.
 - (g) Target tracking system should able to characterize targets with respect to sensor resolution and distances.
4. **Categorisation.** The recommended categorisation – Make -II.