

**HOSTING OF AON DETAILS FOR TACTICAL ENGAGEMENT
SIMULATOR (TES) FOR INFANTRY REGIMENTAL
CENTRES FOR TRAINING OF AGNIVEERS
For AONs ACCORDED BY VCOAS**

AoN Date : 16 Nov 2022

ITEM DESCRIPTION (weapon/equipment/platform) : TACTICAL ENGAGEMENT
SIMULATOR (TES)

QUANTITY : 36 (Thirty Six) sets

CATGORISATION : BUY INDIAN

PARAMETRES/QRs OF THE ITEM :

- **Configuration of TES.** One Set TES should consist of following subsystems and be capable of training 50 participants:-

- **Body and Helmet Harness.** Body and Helmet Harness should be fitted with communication elements, sensors, GPS module and control unit. It should be ergonomically designed and adjustable to fit all sizes comfortably.

- **Laser Unit (LU).** Primary purpose of laser unit should be to provide simulated ammunition through laser code generation. LU will be fitted at the muzzle end of barrel to fire a laser beam in lieu of actual ammunition.

- **Sensor Unit (SU).** Primary purpose of sensor unit should be to detect and decode simulated ammunition laser code received from laser unit of another weapons. SU(s) will be fitted on to body and helmet harness of the trainee. They will have laser sensors to sense incoming laser fire from any directions to indicate hits.

- **Display Unit (IDU).** Primary purpose of display unit is to display activities like ammunition selection , fire button press, range received of target etc and sub modules status like battery level, damage(M kill), destroy (K kill) .

- **Umpire Gun.** Umpire gun primary purpose is to enable or disable any participant, to change mode of laser module like alignment, ready to fire mode. To assign ammunition, Activate disabled individuals.

- **Exercise Control (EXCON).** EXCON is the exercise control system with computer and software. EXCON can help instructor to enter trainee details, assign trainees to groups, assign exercises, monitor exercise, replay exercises, generate reports after exercise. Instructor should be able to inject simulation effects like mine fields, area weapons. Instructor should be able to track each participant in near real time on EXCON display 2D or 3D map (Desirable). Instructor should be capable of enabling or disabling any participant. Instructor can assign ammunition to any participant from EXCON. EXCON should connect with each participant through base station.
- **Communication Systems.** TES equipment should have following wireless communication systems:-
 - There should be short range communication network to communicate subsystems.
 - There should be long range communication network to establish communication between EXCON and each participation via base station.
- **Weight and Dimensions.** Weight of various components of TES should be less than four kgs.

SPECIAL INSTRUCTIONS ON TRIALS IF ANY:

- Demonstration will be undertaken as defined by Empowerment Committee.
- Case will be progressed as an OTE.

OFFSETS, IF APPLICABLE : NIL

ToT, IF APPLICABLE : NIL

ANY OTHER SPECIFIC INSTRUCTIONS: RFP will be uploaded by 01 Dec 2022.