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LONG RANGE OPTICAL TARGET LOCATOR

Dear Sir/ Madam,

1. Indian Army has undertaken a project under ATB (Army Technology Board) for detection of optical devices such as optical sights, binoculars, night vision devices, surveillance cameras, laser range finders, designators etc.
2. ATB projects aim at development of critical capabilities within the nation which can be utilised further on a commercial scale for mass production. Towards this end, a collaborative effort is required with the stakeholders being the Indian Army (User), Academic (Designer) and the Development Agency (Producer). The funding for the Research and Development Project will be undertaken by Indian Army.
3. Hence, in order to harness the expertise with the academia, all IITs are being approached to assess the suitability of progressing the case. It is, therefore, requested that response may please be provided for further planning and execution. Brief of the case is attached at Appendix for your reference.
4. An early response is solicited.
5. Point of contact at this office may be contacted on the under mentioned details:-
 - (a) Damanpreet Singh
Mobile number – 7742246967
 - (b) Ankit Agarwal
Mobile number – 898503455
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Appendix

(Refer to para 3 of the mail)

LONG RANGE OPTICAL TARGET LOCATOR

1. **Short Title.** Long Range Optical Target Locator.
2. **Aim.** Development of a Long Range Optical Target Locator for detection of optical sights such as day sights, sniper sights, passive night vision device, Laser Range finder/ designator.
3. **What is the Problem (Need)?** Troops engaged in modern asymmetric warfare are often exposed to high risk threats including surprise attacks by well-planned and camouflaged ambushes involving automatic firing and sniping etc. To cope with such lethal traps, military forces must be equipped with necessary tools for surveillance, locating hostile forces and responding effectively and rapidly with minimum exposure to the threats. A device that provides a signature of the adversary's optical devices will augment the security/ surveillance grid. The threat could be in terms of a sniper equipped with a day sight, any passive night surveillance cameras, laser range finders, designators etc.
 - (a) **Statement of Problem.** There is a requirement of a Long Range Optical Target Locator capable of detecting and locating optical threats, which can facilitate Indian Army in detection of any planned action by the adversary or border surveillance.
 - (b) **How is it Being Overcome?** Presently, the security and surveillance grid is based upon radar and other optical instruments, which do not have capability to detect an adversary's optical devices.
4. **Who has the Problem?**
 - (a) **User (Skill Sets).** Troops should be able to handle the equipment with nominal training.
 - (b) **Operating Environment.** Border Areas.
 - (c) **Periodicity of Exploitation.** Daily.
5. **Why it is important to Solve?** This equipment will provide an important tool for detection of commonly employed active or passive surveillance devices with minimum exposure to the threats.
6. **Broad Parameter of the Eqpt are as under:-**
 - (a) Rg - 4-6 km.
 - (b) Wt - Upto 12 kg.
 - (c) Power - AC/ DC Bty and Solar power system.
 - (d) Tgt Coord - Grid refrence and Latitude/ Longitude
 - (e) Military rugged display.
7. Detailed parameters will be forwarded subsequently.