

No. IV-21011/38/2009-Prov-I  
Government of India  
Ministry of Home Affairs

26, Man Singh Road, Jaisalmer House,  
New Delhi, 5.10.2009

To

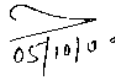
The DGs: Assam Rifles/BSF/CISF/CRPF/ITBP/NSG/SSB/BPR&D

Subject:- QRs/Technical Specifications for the Security Gadgets -regarding

The QRs/Technical Specifications for the following Security Gadgets have been accepted and approved by the Competent Authority in MHA:-

1. IP Camera Based Video Surveillance System (Annex-A) S
2. Flap Gate(Annex-B) S
3. Half Height Turnstile Gate(Annex-C) S
4. Revolving Search Light(Annex-D) S
5. Handy Cam(Annex-E) S
6. Ultra Violet Desktop(Annex-F) S

2. Henceforth, all the CPMFs should procure the above items required by them strictly as per the laid down Technical Specifications/QRs.

  
(R.S.Sharma)  
Director (Prov)

Copy to:-

DD(Procurement),MHA

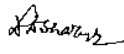
Copy for information to:-

PS to JS(PM),MHA

### Technical Specs of Revolving Search Light

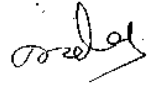
1. Housing / Body
  - a) Casing/body of Search light should be tubular heavy duty water resistant and one piece moulded with integral handle of ABS. It should be light impact proof and corrosion proof.
  - b) Maximum weight including the battery with telescopic base – not more than 10 kg.
  - c) Length maximum= 40 cms.
  - d) Front dia maximum = 25 cms.
  - e) Rear dia maximum = 20 cms.
2. Construction :
  - a) Modular construction consisting of replaceable modules for ease of servicing /repairs.
  - b) The lamp shall be replaceable by unscrewing the front cover.
  - c) The battery and blown fuses can be replaced without disturbing electronic circuit by unscrewing the back cover.
3. Operating Temperature : Equipment shall be able to operate satisfactorily in the temperature range of – 20 degree C to 55 degree C and 95% RH at 40 degree.
4. Battery : Rechargeable sealed maintenance free battery or dry battery from 6 to 12 Volts
5. Housing of Battery :
  - a) Housing for the battery should be provided in the cabinet/casing of equipment.
  - b) There should be adequate space around the battery in the battery housing for dissipation of heat developed in battery while charging.
  - c) The battery fuse should be easily accessible from out side for ease of replacement.
  - d) The battery compartment should not be over crowded by placing electronics all around it.
  - e) All electronics should be placed on lamp back end of the search light.
  - f) Electronics should not be in direct contact with body of the battery.
  - g) The housing is such that the battery could be replaced easily.
6. Circuit :
  - a) Glass epoxy PCB.
  - b) Electronic Component nomenclature should not erase.
  - c) Wire should be heavy duty.
  - d) Tantalum capacitor should be used.
  - e) PCB should be easily removable for repairs.
  - f) Moulded modules should not be used at any stage.

- g) Electronic circuits should not be sealed at any stage.
7. It should be operated by Remote Controller with minimum 10 meter range.
  8. IR Filter: Should be IR filter which can be attached or detached with ease, IR should be able to jack on the Search Light. (optional)
  9. The battery head should be mounted over a telescopic pole of at least 1.5 meter height.
  10. The battery should be attached to the head of telescopic pole and should be capable to rotate horizontally up to an angle of 360 deg and vertically up to an angle of 45 deg.
  11. In pitch darkness it should make objects at a minimum distance of 500 meter clearly visible.

  
( D.D. Sharma)  
J.D.D/Tech, IB

  
(R.C. Chilkoti)  
DIG, BSF, STS,

  
( Nitin Agrawal IPS)  
DIG/Tech

  
(N. R. Das IPS)  
DG, CISF