

No.IV-17017/13/06-Prov.I  
Ministry of Home Affairs  
Prov.I

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New Delhi the 23rd June,2006

To

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

**Subject: Finalization of QRs/Specifications for  
Weaponary/security Equipments**

The Sub-Group constituted by MHA vide Memorandum No. .IV.17017/18/2001-Prov.I dated 5-7-2002 for laying down QRs/specifications of various items/equipments has since submitted its recommendations in respect of following weaponry/security equipments:

(i) Under Water Metal Detector

2. These recommendations have been accepted by MHA. The QRs finalized by the Sub-Group and accepted by MHA in respect of the above equipments are enclosed herewith.

3. Henceforth, all the CPMFs should procure the above items required by them to meet their operational needs strictly as per the laid down QRs/specifications.

Yours faithfully,



(Alok Mukhopadhyay )  
Under Secretary(Prov.I)  
Tele. No.23381278

9/c

Copy to : DD(Procurement), MHA

Copy for information to:

1. PS to JS(PM), MHA

2. Dir(Prov), MHA

ISSUED  
on 28/6/06

QRs : UNDER WATER METAL DETECTOR

1. Should be water tight equipment.
2. Should be capable of detecting all kinds of ferrous and non-ferrous metals in salt water, fresh water, swampy/marshy areas and even on land.
3. Should have slight negative buoyancy for stability under water with probe dipping slightly lower.
4. Should be capable of operating upto a minimum depth of 30 fl.
5. Should be sensitive enough to detect: -
  - (a) 1 gm (ferrous/Non-ferrous) of metal at the distance of 5 cm in salt/fresh water or mineralized soil.
  - (b) 8 gm of ferrous/non-ferrous object from distance of 50 cm.
6. Should have facility for strapping on to leg/hip while operating.
7. Should be able to discriminate between two 1 gm ferrous/non-ferrous pieces placed 25 cm apart.
8. Should have 1.5 V cells or rechargeable Ni-Cd cells which should be able to function fully charge for a minimum of four hours continuously without loss of efficiency.
9. Weight should not exceed 1 kg under water and 9 kgs in transportation mode.
10. Should have dual indicator system both by audio and LED/LCD display indicating of increasing/decreasing proximity of object, vibratory alarm should be preferred.
11. Should have capability to stabilize keeping in view the existing ferrous/non ferrous content in soil.
12. Should be capable to operate between -10°C to +55°C.
13. Should have narrow and straight probe heads with adjustable length.

PK  
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 DD (TE), HQ DQA (L)

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 (ABHJIT SEN)  
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Shahid  
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PK  
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Rajiv Tandon  
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Approved / Not approved  
LAK Mitra  
 14/8/04  
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