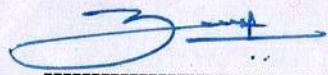
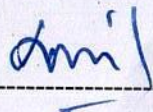
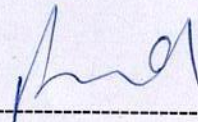


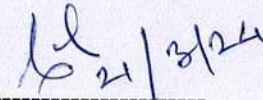
**REVISED DRAFT QRs & TDs OF CONTACTLESS STETHOSCOPE**

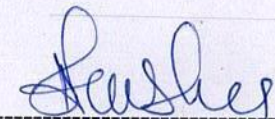
Ser No	QRs / Specification	Trial Directives
1.	Should be light weight and portable (The weight of the equipment should not be more than 1.5 Kgs and with accessories not more than 5 Kgs).	To be physically checked during trials by the BOO.
2.	Should detect sounds through solid materials like bricks, walls, glass, steel containers, wood packing materials etc.	To be physically checked during trials by the BOO The equipment should detect sounds of mechanical timers and sense electronic fuzes, electronic circuit and cellphone timer mechanisms. Brick wall of thickness 4" - 9" Wood packing materials of thickness ¼" - 1" Glass of thickness minimum 8mm. Steel containers of thickness minimum 8mm.
3.	The amplification of sound be of order of minimum 5 x 10 to the power of 5 at a minimum distance of 15 cms (Firms to furnish certificate from National/international accredited lab).	Distance to be physically checked during trials by the BOO. Firm to provide certificate from national/international accredited lab.
4.	Search head should not be affected by loud noise in the surroundings.	To be physically checked during trials by the BOO and Firms to furnish certificate from National/international accredited lab.
5.	Power supply should have options of rechargeable batteries at 230V AC/DC.	The equipment should be operated by commercially available rechargeable batteries.
6.	The sensitivity should be very high with options to optimize it by adjustment for gain and frequency control.	To be physically checked during trial by BOO.
7.	The system should have both contact and non-contact sensors.	To be physically checked during trial by BOO.
8.	Operating time should be of the order of: -  (a) Contact Sensor - 15 hrs (min).  (b) Non Contact Sensor - 05 hrs (min).	To be physically operated for the given time.





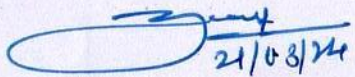


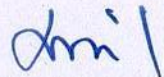
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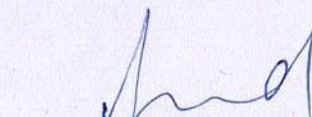






9.	The system should be able to cover frequency band from 300 Hz to 5.5 KHz (Firms to furnish certificate from national/international accredited lab).	Firm to provide certificate from national/international accredited lab.
10.	Operating temperature should be from -15°C to +55°C (Firms to furnish certificate from national/international accredited lab).	Firms to provide certificate from national/international accredited lab.
11.	The equipment (JS 5555/810G compliant) should be shock proof, splash resistant and packed in a robust carrying case(IP 65 compliant) with spare battery pack, battery charger and connecting cable.	Firms to furnish certificate from National/international accredited lab.
12.	Mechanical and electronic timer (quartz, digital movement of second/minute hand) to be detected.	To be physically checked during trial by BOO.
13.	The equipment should have Audio visual as well as vibration indication.	To be physically checked during trial by BOO.
14.	Sensitivity should be adjustable.	To be physically checked during trial by BOO.
15.	Should have headphone connectivity easier to use with Bomb Suit helmet and visor assembly.	To be physically checked during trial by BOO.

  
21/03/24  
MAJ SHUBHAM SAWANT  
TC. BD UNZT, NSG

  
21/3/24  
(Sunil kr)  
CPTF

  
INSPLAD Inand  
LSCSITC Chhwal  
ITBP  
S1/Comm  
Rn: Bobi  
Singh  
FHQ SSB

  
DP Mishra  
Sub/CD  
ASSAM RIFLES

  
MAJ TN NADWIP  
HQ NSG (WEBR)