

# DRAFT REVISED QRs & TDs FOR BOMB INHIBITOR

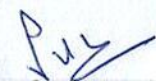
| S No | Parameters                                      | QRs/ Specification                                                                                                                                                                                               | Trial directives                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.   | Type of Bomb Inhibitor                          | Construction of Bomb Inhibitor could be either single piece or modular type of assembling.                                                                                                                       | To be physically checked by the Board of Officers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 2.   | Portability                                     | Should be portable by maximum two men and easy to install                                                                                                                                                        | To be physically checked by the Board of Officers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3.   | Weight                                          | Max weight 80 Kg                                                                                                                                                                                                 | To be physically checked by the Board of Officers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 4.   | Dimensions (size)                               | Width -75 Cm<br>Length -75 Cm<br>Height-55 Cm<br>A tolerance of +10 cm above specified dimensions will be accepted.                                                                                              | To be physically checked by the Board of Officers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 5.   | Carrying                                        | Should have strong and comfortable handles for lifting                                                                                                                                                           | To be physically checked by the Board of Officers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 6.   | Reduction of blast/ fragmentation damage effect | (a) Should be able to reduce blast damage upto 80% minimum at a distance of 3 m.<br>(b) Should be able to reduce fragmentation damage upto 80% minimum<br>(c) Capable of eliminating fire risk upto 80% minimum. | (i) The trial will be conducted at TBRL in presence of BOO & TBRL rep.<br>(ii) Wooden ply (6mm) would be arranged in U shape.<br>(iii) Four clothed Fig 11 target of dummies will be placed at the edges.<br>(iv) An explosive device containing 1.5 kg of explosive (TNT/PEK) will be placed on concrete/brick floor at a distance of approx. 2 Mtrs in the open end side of U shape.<br>(v) The device will be initiated w/o bomb inhibitor and post blast damage will be assessed.<br>(vi) Subsequently same blast will be initiated with Bomb Inhibitor placed on the explosive device and damage will be assessed.<br>(vii) Two sensors to be placed for measurement of blast pressure reduction at a distance of 3 m & 5 m. These sensors to be provided by TBRL and advance amount as asked by TBRL to be deposited by the vendor/OEM.<br>(viii) Test report to be provided by TBRL. The material except sensors for testing will be provided by user and cost for the same along with the testing cost will be borne by the vendor/OEM.<br>(ix) All test reports will be produced before BoOs for verification. |

  
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| S No | Parameters             | QRs/ Specification                                                                                           | Trial directives                                                                                                                                                                                                                                                                                                                     |
|------|------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7.   | Blast effectiveness    | Able to contain blast effect of minimum 2.5 Kgs of TNT or 2.92 Kgs of PEK producing equivalent blast effect. | Certificate from a National/International accredited lab to be provide by the firm. The same to be checked by the Board of Officers. The parameter will also be checked at TBRL by using one of the tender samples provided by the firm.                                                                                             |
| 8.   | Forensic investigation | (a) Able to retain shrapnel's for investigation.                                                             | To be physically checked by the Board of Officers during trial once the trial directive as listed at Ser No-7 above has been carried out. For shrapnels 250 gms of nails of different sizes will be used.                                                                                                                            |
|      |                        | (b) Able to retain forensic evidence                                                                         | To be physically checked by the Board of Officers during trial once the trial directive as listed at Ser No-7 & 8 above has been carried out.                                                                                                                                                                                        |
| 9.   | X-Ray                  | Permit taking X-Ray of device even through the inhibitor.                                                    | To be physically checked by the Board of Officers by using RTVS. The RTVS (Real Time Viewing System) to be provided by the user.                                                                                                                                                                                                     |
| 10.  | Disruptor firing       | Permit effective firing of disruptor through the inhibitor.                                                  | To be physically checked by the Board of Officers.                                                                                                                                                                                                                                                                                   |
| 11.  | Sample for trials      | Firm should be able to provide 02 x samples for trials.                                                      | The firm/ OEM will tender the samples along with certificate of compliance for all parameters of QR/TDs from a national/ international lab recognized by NABL. The certificate will be physically checked by the Board of Officers. The firm will also provide the name of lab and their email address to the BOOs for verification. |

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