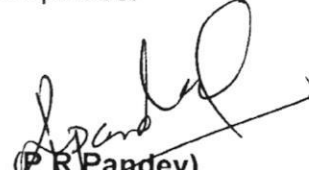



Government of India  
Ministry of Home Affairs  
**Directorate General National Security Guard**  
(Provisioning Branch/Ord Section)  
Mehram Nagar, Palam, New Delhi – 110 037  
Fax No. 011-25663258/25671639

No. P/604/18(389)/36 Hand GS/Prov (Ord)/NSG/2304 Dated, the 16 May 2019

**QUALITATIVE REQUIREMENTS (QRs) AND TRIAL DIRECTIVES (TDs)**  
**OF 36 HAND GRENADE SIMULATOR.**

1. The QRs and TDs in respect of **36 Hand Grenade Simulator** as per Annex-I and Annex-II respectively have been approved by the competent authority are forwarded herewith.
2. For your information and further necessary action please.

  
(P R Pandey)  
Maj  
Sqn Commander  
For IG (Prov)  


**Distribution:-**

1. JS (PM), MHA, Jaisalmer House, New Delhi - for information please.
2. IG/ Director (R&D), BPR&D, 4th Floor, Block No 11, CGO Complex, New Delhi.
3. DIG (Prov), CRPF, CGO Complex, New Delhi.
4. DIG (Prov), CISF, CGO Complex, New Delhi.
5. DIG (Prov), ITBP, CGO Complex, New
6. DIG (Prov), SSB, R.K. Puram, New Delhi.
7. DIG (Prov), BSF, CGO Complex, New Delhi
8. DIG (Prov), Assam Rifles (Through LOAR)
9. Ops (WE), HQ NSG



**TECHNICAL SPECIFICATION**(a) **Size.**

- |        |                                   |   |   |
|--------|-----------------------------------|---|---|
| (i)    | Length                            | - | 9cm (90mm $\pm$ 5mm).   |
| (ii)   | Diameter                          | - | 6cm (60mm $\pm$ 3mm).   |
| (iii)  | Shape                             | - | Cylinder (Link Hand Grenade)                                  |
| (iv)   | Weight                            | - | Should resemble.<br>(App 765 gms $\pm$ 10 gms total assembly) |
| (v)    | Sound                             | - | Close to actual grenade.                                      |
| (vi)   | Feel                              | - | Same as original i.e. 36 M Hand Grenade.                      |
| (vii)  | Actuation                         | - | Spring loaded.  |
| (viii) | Time between pin striking and log | - | Amply safe.   |

(b) **Blast After Throwing/ Lobbying of Launching from Rifle.**

- |       |                         |   |   |
|-------|-------------------------|---|---|
| (i)   | Hand Grenade            | - | 4 secs.   |
| (ii)  | Rifle Grenade Launching | - | 7 secs.   |
| (iii) | Type of Cartridge used  | - | Pyrotechnic cartridge<br>(Additional 5 sets extra). |

(c) Each sets should have at least 100 shells and 4000 cartridges.

**OTHER REQUIREMENTS**

1. Firms participating will indicate the warranty period of equipment along with details of repair/AMC facility in India. Minimum warranty 02 yrs.
2. If required, a functional demonstration would be conducted within specified duration as deemed fit by competent authority from date of opening tender and participating firms should ensure and present with product for same within stipulated period.

*Narinder Mohan*  
7/3/19  
*(Signature)*

*(Signature)*

*(Signature)*  
*Dewi*  
*1st Lt. Dharmendra Singh*  
*ITSP.*

*(Signature)*  
27/5/19  
(S.S.B.)  
*(Signature)*

*(Signature)*

TECHNICAL SPECIFICATION

1. Replica of actual grenade.
2. Not a Dummy Grenade.
3. Non fragmenting grenade.
4. Creates flash, blast, smoke and shock.
5. Simulates shape, components, weight, explosion timing and sounds.
6. Reusable upto 80 – 100 times.
7. Allow arming and disarming drills of grenade in actual.
8. No casualties or injuries.
9. Grenade can be fired with a rifle.
10. Trainees can lob grenade simultaneously.
11. Save time and efforts.
12. Negligible running cost of operating.
13. It should be conducted even in a limited open area or within unit area.
14. It should allow 24x7 training in restricted space, saving time and logistics.
15. No restriction of minimum number of personnel required to commence training.
16. Easy portability enabling frequent movement to impart training to all.
17. Realistic training.
18. Capability to raise training standards across the board with minimum cost.

Manish Prasad  
DC, CISF

AS  
Teets Singh  
A.D.

(Sd/-)  
Ramesh Singh  
Ravinder Singh  
(BSF  
SIW)

Hum  
NITESH KUMAR  
CRPF  
D. S. P. D. Hemant  
153/100

27/05/19  
(SSB)

KK Mehta  
CISF

APPROVED/ NOT APPROVED

Sudeep Lakhtakia  
DG, NSG

**DRAFT TRIAL DIRECTIVES OF 36 HAND GRENADE SIMULATOR**

Ser No	Features	QRs	Remarks (Method of trials)
<b>TECHNICAL SPECIFICATION</b>			
<b>Size :-</b>			
1.	Length	9cm (90mm + 5mm).	To be checked by BOO.
2.	Diameter	6cm (60mm + 3mm).	To be checked by BOO.
3.	Shape	Cylinder (Link Hand Grenade)	To be checked by BOO.
4.	Weight	Should resemble. (App 765 gms + 10 gms total assembly)	To be checked by BOO.
5.	Sound	Close to actual grenade.	To be checked by BOO.
6.	Feel	Same as original i.e. 36M Hand Grenade.	To be checked by BOO.
7.	Actuation	Spring loaded.	To be checked by BOO.
8.	Time between pin	Amplify safe.	To be checked by BOO.
<b>Blast After Throwing/ Lobbying of Launching from Rifle :-</b>			
10.	Hand Grenade	4 secs	Firm to provide certificate from national/international accredited lab. BOOs to check the certificates.
11.	Rifle Grenade Launching	7 secs	Firm to provide certificate from national/international accredited lab. BOOs to check the certificates.
12.	Type of Cartridge used	Pyrotechnic cartridge (Additional 5 sets extra).	To be checked by BOO.
13.	One set should have shells & cartridge	100 shells and 4000 cartridge.	To be checked by BOO.

*[Signature]*

*[Signature]*

Lt Col VS Bhadani  
(SCFOS)

*[Signature]*

HIRAJ KUMAR  
Dy. Comd  
CPTF

*[Signature]*

Ramprasad  
7/5/14

*[Signature]*

*[Signature]*

INSPT Sharma  
15BP

AS  
Foster's  
Assemblies

R. V. Singh  
Ravinder Singh  
(SIWBP)

Ser No	Features	QRs	Remarks (Method of trials)
<b>Other Features :-</b>			
14.	Warranty	Minimum warranty 02 yrs	The firm should provide the cert.
15.	Replica of actual grenade	(i) Replica of actual grenade. (ii) Not a Dummy Grenade. (iii) Non fragmenting grenade.	The firm should provide the cert.
16.	Reusable	Upto 80 - 100 times.	The firm should provide the cert.
17.	Arming and disarming drills	Allow arming and disarming drills of grenade in actual.	To be checked by BOO.
18.	Grenade can be fired with a rifle	Yes	To be checked by BOO.

*[Signature]*  
Lt Col (WE)  
Maj Parkaj

*[Signature]*  
Lt Col VS Bhakum  
(SC POS)

*[Signature]*  
HIRAJ KUMAR  
DC, CTF  
Denu  
INSP Bhakum  
Gan  
ITBP

*[Signature]*  
001519  
ANURAG, AC, CTF  
Anurag Singh  
(B&S)

*[Signature]*  
07165119  
Namini Masani  
DS, USE 7/5/19

*[Signature]*  
AKMud  
DC CTF

*[Signature]*  
Sudhakar Singh

**APPROVED/ NOT APPROVED**

*[Signature]*  
**Sudeep Lakhtakia**  
DG, NSG