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No. P-63013/36/2019/Mod-I/BSF 2799-2808
Government of India Ministry of Home Affairs
Directorate General Border Security Force
(Prov Dte: Mod Cell)
**(Fax: 011-24367683)**

Block No.10, CGO Complex,
Lodhi Road, New Delhi-03

Dated, the 02 Dec 2019

To,

DsG : AR (through LOAR), CISF, CRPF, ITBP, SSB, NSG & BPR&D

Sub: **Forwarding of QRs and Trial Directives**

Find enclosed herewith QRs and Trial Directives of Non Crash rated Boom Barrier as per appendix 'A' and 'B' duly finalized by Sub group of technical experts and approved by DG BSF for your information and necessary action please.

**Encl** : As above

2/12/19

**(Bhagat Singh Tolia)**
Dy. Inspector General (Tpt/Prov)
FHQ BSF, New Delhi

**Copy to :-**

1. SO (IT), North Block MHA, New Delhi : You are requested to host the above QRs and TDs on MHA website please.
2. IT Cell FHQ BSF, New Delhi : You are requested to host the above QRs and TDs on BSF website please.
3. The Under Seceratary Ministry of Home Affairs Secretariat Security Org. 3rd Floor, NDCC-II Bldg, Jai Singh Road, New Delhi : w.r.t. your letter No. D-22012-102/2017-SSO(S) dated 06th September 2019.

**DIRECTOR GENERAL BORDER SECURITY FORCE**
**(PROVISIONING DIRECTORATE (MOD CELL)**

**EXPRESSION OF INTEREST**

DIG (Prov)
HQ DG BSF, Prov Dte (Mod Cell)
Block No. 10, CGO Complex
Lodhi Road, New Delhi
(Tele/Fax No. 011-24367683)
Mail id : comdtord.bsf.nic.in

The Sub-group of technical experts on surveillance equipment constituted by MHA vide their letter No. IV-17017/18/2001-Prov-I dated 05 Jul 2002, letter No. IV-24011/12/2011-Prov.I dated 13th June 2012 and O/No. 11012/02/ 2009-Fin-I/Prov.I-17 dated 02nd January 2018 held its meeting at BSF HQ 17th September 2019 to formulate the QRs of **Non Crash rated Boom Barrier.**

2. After detailed deliberation the referred Sub-group of technical experts has finalized the QRs and TDs of **Non Crash rated Boom Barrier** on 14th November 2019 which are as under:-

**QUALITATIVE REQUIREMENTS OF NON CRASH RATED BOOM BARRIER**

| S/NO. | DESCRIPTION | SPECIFICATIONS |
|---|---|---|
| 1. | Duty Cycle | 100% as per opening/closing time |
| 2. | Mechanism | Electro-mechanical |
| 3. | Power input | AC 220-250V, 50/60HZ |
| 4. | Power Consumption | 120 W (maximum) |
| 5. | Maximum Boom Length **(To be decided by the user department as per their requirement at the time of indent)** | i) Upto 03 meters<br>ii) Upto 06 meters |
| 6. | Opening/Closing time | i) 1.5 to 2 seconds for 03 meters<br>ii) 3 to 4 seconds for 06 meters |
| 7. | Housing | Mild steel with Powder/Zink coating (inside & outside) plus anti-corrosion treatment/Stainless Steel AISI 304 or better **(To be decided by the user department as per their requirement at the time of indent)** |
| 8. | Housing Dimensions | 350mm x 250mm x 1070mm (± 20mm) |
| 9. | Housing Base frame | Mild steel/ Stainless Steel AISI 304 or better **(To be decided by the user department as per their requirement at the time of indent)** |
| 10. | Operative Options | Remote control & Push button |
| 11. | In case of Power Failure | Open/close option with mechanical handle |
| 12. | IP rating | Compliant to IP67 or better |
| 13. | Safety Features (Optional) (**To be decided by the user department as per their** | Warning/traffic light photocell eye for human safety loop detector for vehicular safety |

| | | |
|---|---|---|
| | **requirement at the time of indent)** | |
| 14. | Operating temperature | -25$^0$ C to +55$^0$ C |
| 15. | Humidity | 10%-95% |
| 16. | MTBF | 5 Million operations |

**Detection of Post Intrusion:-** The boom barrier is fitted with a special sensor, which is capable of detecting a forced intrusion and transmitting the same to the operator which can further be integrated with Bollards/Tyre Killers/Road Blockers.

S S Chahar, VSM
ADG (Log), BSF

(Dhananjay Mishra),
Comdt, SIW BSF

(Dr M M Gosal), SSO
BPR&D

(Mukesh Panwar), Comdt
MHA

(R K Meel), DC
CISF

(A P Singh), DC
SIW, BSF

(Maj Vinod Mathew)
NSG

(Lt Col A Mukherjee)
Assam Rifles

(Ravinder Kumar), AC
SSB

(Insp Bhupendra Singh)
ITBP

(Insp Ashwani Kumar)
SIW, BSF

**APPROVED/ NOT APPROVED**

**(Vivek Kumar Johri) IPS**
DIRECTOR GENERAL
BORDER SECURITY FORCE

## TRIAL DIRECTIVES OF NON CRASH RATED BOOM BARRIER

| S.NO. | DESCRIPTION | SPECIFICATIONS | TRIAL PROCEDURE SUGGESTED FOR BOARD OF OFFICERS | RESULT EXCEPTED/DESIRED |
|---|---|---|---|---|
| 1. | Duty Cycle | 100% as per opening/closing time | To be physically checked by the BOO. | Duty cycle must be as per the parameters mentioned in the QRs. |
| 2. | Mechanism | Electro-mechanical | To be physically checked by the BOO. | Mechanism must be as per the parameters mentioned in the QRs. |
| 3. | Power input | AC 220-250V, 50/60HZ | To be physically checked by the BOO. | Power input must be as per the parameters mentioned in the QRs. |
| 4. | Power Consumption | 120 W (maximum) | To be physically checked by the BOO. | Power consumption must be as per the parameters mentioned in the QRs. |
| 5. | Maximum Boom Length (**To be decided by the user department as per their requirement at the time of indent**) | i) Upto 03 meters<br>ii) Upto 06 meters | To be physically checked by the BOO. | Boom length must be as per the parameters mentioned in the QRs. |
| 6. | Opening/Closing time | i) 1.5 to 2 seconds for 03 meters<br>ii) 3 to 4 seconds for 06 meters | To be physically checked by the BOO. | Opening/Closing time must be as per the parameters mentioned in the QRs. |
| 7. | Housing | Mild steel with Powder/Zink coating (inside & outside) plus anti-corrosion treatment/Stainless Steel AISI | Firm has to submit National / International accredited Lab certificate. If no such | Housing must be as per the parameters mentioned in the QRs. |

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|---|---|---|---|---|
| | | 304 or better (**To be decided by the user department as per their requirement at the time of indent)** | lab available in India then , firm has to submit any Indian Govt Lab/OEM certificate in respect of the same. | |
| 8. | Housing Dimensions | 350mm x 250mm x 1070mm (± 20mm) | To be physically checked by the BOO. | Housing dimensions must be as per the parameters mentioned in the QRs. |
| 9. | Housing Base frame | Mild steel/ Stainless Steel AISI 304 or better (**To be decided by the user department as per their requirement at the time of indent)** | Firm has to submit National / International accredited Lab certificate. If no such lab available in India then , firm has to submit any Indian Govt Lab/OEM certificate in respect of the same. | Housing base frame must be as per the parameters mentioned in the QRs. |
| 10. | Operative Options | Remote control & Push button | To be physically checked by the BOO. | Operative options must be as per the parameters mentioned in the QRs. |
| 11. | In case of Power Failure | Open/close option with mechanical handle | To be physically checked by the BOO. | In the case of power failure equipment must have open/close option with mechanical handle. |
| 12. | IP rating | Compliant to IP67 or better | Firm has to submit National / International | IP rating must be as per the parameters |

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|---|---|---|---|---|
| | | | accredited Lab certificate. If no such lab available in India then , firm has to submit any Indian Govt Lab/OEM certificate in respect of the same. | mentioned in the QRs. |
| 13. | Safety Features (Optional) (**To be decided by the user department as per their requirement at the time of indent**) | Warning/traffic light photocell eye for human safety loop detector for vehicular safety | To be physically checked by the BOO. | Safety feautres must be as per the parameters mentioned in the QRs. |
| 14. | Operating temperature | -25$^0$ C to +55$^0$ C | Firm has to submit National / International accredited Lab certificate. If no such lab available in India then , firm has to submit any Indian Govt Lab/OEM certificate in respect of the same. | Operating temperature must be as per the parameters mentioned in the QRs. |
| 15. | Humidity | 10%-95% | Firm has to submit National / International accredited Lab certificate. If no such lab available in India then , firm has to submit any Indian Govt Lab/OEM certificate in respect of the same. | Humidity must be as per the parameters mentioned in the QRs. |

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|---|---|---|---|---|
| 16. | MTBF | 5 Million operations | Firm will submit an undertaking in this regard. | MTBF must be as per the parameters mentioned in the QRs. |
| **Detection of Post Intrusion:-** The boom barrier is fitted with a special sensor, which is capable of detecting a forced intrusion and transmitting the same to the operator which can further be integrated with Bollards/Tyre Killers/Road Blockers. | | | To be physically checked by the BOO. | Detection of post intrusion must be as per the parameters mentioned in the QRs. |

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Comdt, SIW BSF

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