256

No. P-63013/36/2019/Mod-I/BSF 27-99-2808 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 62 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.

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	i) Upto 03 meters
	(To be decided by the user	ii) Upto 06 meters
,	department as per their	
	requirement at the time of	
	indent)	
6.	Opening/Closing time	i) 1.5 to 2 seconds for 03 meters
		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
a /		per their requirement at the time of
		indent)
		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	Warning/traffic light photocell eye for
	be decided by the user	human safety loop detector for vehicular
(1)	department as per their	safety
	S/NO. 1. 2. 3. 4. 5. 6. 7. 10. 11. 12.	S/NO. DESCRIPTION 1. Duty Cycle 2. Mechanism 3. Power input 4. Power Consumption 5. Maximum Boom Length (To be decided by the user department as per their requirement at the time of indent) 6. Opening/Closing time 7. Housing 8. Housing Dimensions 9. Housing Base frame 10. Operative Options 11. In case of Power Failure 12. IP rating 13. Safety Features (Optional) (To be decided by the user

1		requirement at the time of	(ST	1
,		indent)	(d	-
	14.	Operating temperature	-25° C to +55° C	
	15.	Humidity	10%-95%	1
4	16.	MTBF	5 Million operations	

<u>Detection of Post Intrusion:</u> 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 (Løg), BSF

(Dhananjay Mishra), Comdt, SIW BSF

(Dr M M Gosal), SSO BPR&D

(Mukesh Panwar), Comdt

(R K Meel), DC

(A P Singh), DC SIW, BSF

(Maj Vince Mathew)

(Lt Col A Mukherjee) Assam Rifles

(Ravinder Kumar), AC

S

(Insp Bhupendra Singh)

(Insp Ashwani Kumar) SIW, BSF

APPROVED/ NOT APPROVED

(Vivek-Kumar Johri) IPS

DIRECTOR GENERAL BORDER SECURITY FORCE



	7.1	TRIAL	TRIAL DIRECTIVES OF NON CRASH RATED BOOM BARRIER	CED BOOM BARRIER	
	ST.10.	DESCRIPTION	SPECIFICATIONS	TRIAL PROCEDURE	RESOLT
				SUGGESTED FOR	EXCEPTED/DESIRED
				BOARD OF OFFICERS	
		Duty Cycle	100% as per opening/closing time	To be physically	Duty cycle must be as
				checked by the BOO.	per the parameters
					mentioned in the QRs.
	2.	Mechanism	Electro-mechanical	To be physically	Mechanism must be as
				checked by the BOO.	per the parameters
					mentioned in the QRs.
	ω	Power input	AC 220-250V, 50/60HZ	To be physically	Power input must be as
				checked by the BOO.	per the parameters
	2				mentioned in the QRs.
	i.	Power Consumption	120 W (maximum)	To be physically	Power consumption
	ALCO AND AMERICA			checked by the BOO.	must be as per the
	No occurso				parameters mentioned
	Jì	Maximum Boom Length			in the QRs.
		(To be decided by the	ii) Upto 06 meters	To be physically	Boom length must be as
		user department as per		checked by the BOO.	per the parameters
		their requirement at the			mentioned in the QRs.
		time of indent)			
	.00	Opening/Closing time	i) 1.5 to 2 seconds for 03	To be physically	Opening (Classes)
	cliques (selectors) (at		ii) 3 to 4 seconds for 06	checked by the BOO.	must be as per the
				1	parameters mentioned
E	.7	Housing	Mild steel with Powder/Zink	Firm has to submit	in the QRs.
3			coating (inside & outside) plus	National / International	Housing must be as per
	8		anti-corrosion	accredited Lab	man':
			realment/Stainless Steel AISI	certificate. If no such	mentioned in the QRs.
X	A ALIMAN	The state of the s	The Robert of The Park of the	6 19 1	
		+		1 XXX Gara	

	^ •	ي (5																			18he				
Jan	-	\	13		11.			10.									9.				.∞				¥	
The state of the s	10	ir rating	ID rotion		In case of Power Failure			Operative Options									Housing Base frame				Housing Dimensions					
Jan Money		Compliant to IP67 or better		mechanical handle	Open/close option with			Remote control & Push button					indent)	their requirement at the time of	the user department as per	304 or better (To be decided by	Mild steel/ Stainless Steel AISI			(± 20mm)	350mm x 250mm x 1070mm		indent)	their requirement at the time of	the user department as per	304 or better (To be decided by
	National / International	Firm has to submit		checked by the BOO.	To be physically		checked by the BOO.	To be physically	respect of the same.	Lab/OEM certificate in	submit any Indian Govt	then, firm has to	lab available in India	certificate. If no such	accredited Lab	National / International	Firm has to submit			checked by the BOO.	To be physically	respect of the same.	Lab/OEM certificate in	submit any Indian Govt	then , firm has to	lab available in India
had JR	the parameters	handle.	with mechanical	failure equipment must	in the QRs.	parameters mentioned	be as per the							in the QRs.	parameters mentioned	must be as per the	Housing base frame	in the QRs.	parameters mentioned	must be as per the	Housing dimensions					

(8) h

mentioned in the QRs. certificate. If no such lab available in India then, firm has to submit any Indian Govt Lab/OEM certificate in respect of the same. 13. Safety Features (Optional) (To be decided by the user department as per their requirement at the time of indent) 14. Operating temperature 15. Humidity 16. Humidity 17. Humidity 18. Humidity 19. Prim has to submit any Indian Govt Lab/OEM certificate in respect of the same. 19. Prim has to submit any Indian Govt Lab/OEM certificate in the QRs. 19. Prim has to submit any Indian Govt Lab/OEM certificate in the QRs. 19. Prim has to submit any Indian Govt Lab/OEM certificate in the QRs. 19. Prim has to submit any Indian Govt Lab/OEM certificate in India then, firm has to submit any Indian Govt Lab/OEM certificate in India then, firm has to submit any Indian Govt Lab/OEM certificate in India then, firm has to submit any Indian Govt Lab/OEM certificate in India then, firm has to submit any Indian Govt Lab/OEM certificate in India then, firm has to submit any Indian Govt Lab/OEM certificate in India then, firm has to submit any Indian Govt Lab/OEM certificate in India then, firm has to submit any Indian Govt Lab/OEM certificate in India then, firm has to submit any Indian Govt Lab/OEM certificate in India then, firm has to submit any Indian Govt Lab/OEM certificate in India then, firm has to submit any Indian Govt Lab/OEM certificate in India then, firm has to submit the QRs.		March Assal	Mumma /	The state of the s	1
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. Safety Features (Optional) Safety Features (Optional) Warning/traffic light photocell eye their requirement at the time of indent) Operating temperature -25°C to +55°C Firm has to submit lab available in India respect of the same. Firm has to submit any Indian Govt Lab/OEM certificate in respect of the same. Firm has to submit any Indian Govt Lab/OEM certificate in respect of the same. Firm has to submit any Indian Govt Lab/OEM certificate in respect of the same. Firm has to submit any Indian Govt Lab/OEM certificate in respect of the same. Firm has to submit any Indian Govt Lab/OEM certificate in respect of the same. Firm has to submit any Indian Govt Lab/OEM certificate in respect of the same. Firm has to submit any Indian Govt Lab/OEM certificate in respect of the same. Firm has to submit any Indian Govt Lab/OEM certificate in respect of the same. Firm has to submit any Indian Govt Lab/OEM certificate in respect of the same. Firm has to submit any Indian Govt Lab/OEM certificate in respect of the same. Firm has to submit any Indian Govt Lab/OEM certificate in respect of the same. Firm has to submit any Indian Govt Lab/OEM certificate in respect of the same. Firm has to submit any Indian Govt Lab/OEM certificate in respect of the same. Firm has to submit any Indian Govt Lab/OEM certificate in respect of the same.		then, firm has to submit any Indian Govt Lab/OEM certificate in respect of the same.			X X
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. Safety Features (Optional) Safety Features (Optional) To be decided by the user department as per their requirement at the time of indent) Operating temperature -25°C to +55°C Firm has to submit 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. Firm has to submit 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.	Hum per t ment	Firm has to submit National / International accredited Lab certificate. If no such lab available in India		numidity	5
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. Safety Features (Optional) Warning/traffic light photocell eye their requirement at the time of indent) Operating temperature -25°C to +55°C Firm has to submit National / International accredited Lab certificate. If no such lab available in India		then, tirm has to submit any Indian Govt Lab/OEM certificate in respect of the same.			n n
Cretificate. If no such lab available in India then, firm has to submit any Indian Govt Lab/OEM certificate in respect of the same. Safety Features (Optional) (To be decided by the user department as per their requirement at the time of indent)	parar in the	accredited Lab certificate. If no such lab available in India			
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. Warning/traffic light photocell eye time of indent) Warning/traffic light photocell eye their requirement at the time of indent)	Oper	Firm has to submit National / International	-25º C to +55º C	Operating temperature	14.
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.	Safet as pe ment	To be physically checked by the BOO.	warning/traffic light photocell eye for human safety loop detector for vehicular safety	(To be decided by the user department as per their requirement at the time of indent)	
such		submit any Indian Govt Lab/OEM certificate in respect of the same.		Safety Reatures (Ostional)	-1 -2
	ment	accredited Lab certificate. If no such lab available in India then , firm has to			*

250

(Ravinder Kumar), AC ADG (Log), BSF S S Chanar, VSM with Bollards/Tyre Killers/Road Blockers. sensor, which is capable of detecting a forced intrusion and transmitting the same to the operator which can further be integrated **Detection of Post Intrusion:** The boom barrier is fitted with a special 16. MTBF SIW, BSF (Msp Bhupendra Singh) (A P Singh), DC Comdt, SIW BSF (Dhananjay Mishra), 5 Million operations THE STATES SIW, BSF (Insp Ashwani Kumar) BPR&D (Dr M.M Gosal), SSO lipped Mathew) checked by the BOO. To be physically regard. undertaking in this Firm will submit an **Assam Rifles** (Lt Col A Mukherjee) SSF, MHA (Mukesh Panwar), Comdt mentioned in the QRs. intrusion must be as per the parameters VOLUE ! Detection of post mentioned in the QRs. the parameters MTBF must be as per

APPROVED/ NOT APPROVED

(Vivel Kamar Johr) TPS

DIRECTOR GENERAL

BORDER SECURITY FORCE

Л