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

**EXPRESSION OF INTEREST**

DIG (Prov)  
HQ DG BSF, Prov Dte (Mod Cell)  
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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 16<sup>th</sup> September 2019 to formulate the QRs of **K-4 Crash rated Boom Barrier** .

2. After detailed deliberation the referred Sub-group of technical experts has finalized the QRs and TDs of **K-4 Crash rated Boom barrier** on 05<sup>th</sup> November 2019 which are as under:-

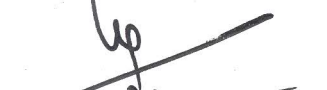
**QUALITATIVE REQUIREMENTS OF K-4 CRASH RATED BOOM BARRIER**


S/NO.	DESCRIPTION	SPECIFICATIONS
1.	Rating	K4 Rated
2.	Barrier type	Crash Boom Barrier
3.	Mechanism	Electro-Hydraulic/Manual
4.	Dimensions	Length - 3 to 10 meters Height - 90 to 110 cm Width - 170 to 200 cm ( <b>To be decided by the user department as per their requirement at the time of indent</b> )
5.	Operating temperature	-20 <sup>0</sup> to + 60 <sup>0</sup> C
6.	Power Supply (Automatic)	440V AC (3Phase) (±20)
7.	Operating Pressure (Automatic)	Pressure in the oil pump can be adjusted between 30 to 120 bars
8.	Speed	Opening and closing times can be adjusted between 3 to 6 seconds and speeds can be adjusted separately through hydraulic adjusters in a closed-circuit system optional emergency close option 2 second should be available.
9.	Operative options	Push button/remote control/manual
10.	In case of Power failure	Manual operation by hand pump/bypass valve. Option be made available for accumulator based automatic operation.
11.	Safety Mechanism	Sensors for Human & vehicular safety be provided as a std accessory along with visual and

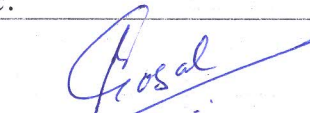
		audible warning lamp.
12.	Additional Features	i) The hydraulic power-pack can be installed within the main barrier body or can be separately installed in case of space constraint. ii) Two pairs of photo sensors and Loop Detectors be provided as standard accessories for safety against human traffic and vehicles. iii) Activated warning lights while barrier is in operation.
13.	Safety	Safety against human traffic:- photo sensor Safety against vehicle:- loop detector
14.	Testing and Certifications	All testing & other certificate from National/International accredited labs like Horiba, MIRA, TRL etc.

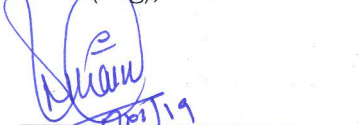
**Note:-**


- All the barrier is to be manufactured keeping in mind the corrosive nature of the tropical Indian Climate. All parts of barrier to be galvanised to prevent corrosion and smooth functioning even when submerged in water. To give a find balance between aesthetics and security, all barrier to come with aesthetically pleasing stainless steel sleeve which easily merges with the environment.
- A Pan India after sale service should be available.


  
 S S Chahar, VSM  
 ADG (Log), BSF


  
 (Dhananjay Mishra),  
 Comdt, SIW BSF


  
 (Dr M M Gosal), SSO  
 BPR&D


  
 (Mukesh Panwar), Comdt  
 MHA, SSF

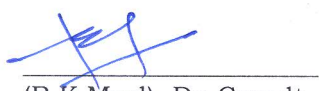
  
 (Santosh Kumar), AC/AIA  
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 (Vivek Kumar Johri) IPS  
 DIRECTOR GENERAL  
 BORDER SECURITY FORCE



TRIAL DIRECTIVES OF K-4 CRASH RATED BOOM BARRIER

S/No.	Descriptions	Specifications	TRIAL PROCEDURE SUGGESTED FOR BOARD OF OFFICERS	RESULT EXCEPTED/DESIRED
1.	Rating	K4 Rated	OEM will submit certificate.	Rating of the equipment must be as per the specifications mentioned in the QRs.
2.	Barrier type	Crash Boom Barrier	To be physically checked by BOO.	Barrier type must be as per the specifications mentioned in the QRs.
3.	Mechanism	Electro-Hydraulic	To be physically checked by BOO.	Mechanism of the equipment must be Electro-Hydraulic/Manual.
4.	Dimensions	Length - 3 to 10 meters Height - 90 to 110 cm Width - 170 to 200 cm <b>(To be decided by the user department as per their requirement at the time of indent)</b>	To be physically checked by BOO.	Dimensions of the equipment must be as per the specifications mentioned in the QRs.
5.	Operating temperature	-20° to + 60° C	OEM will submit certificate.	Operating temperature of the equipment must be as per the specifications mentioned in the QRs.
6.	Power Supply (Automatic)	440V AC (3Phase) (±20)	OEM will submit certificate.	Power supply of the equipment must be as per the specifications mentioned in the QRs.
7.	Operating Pressure (Automatic)	Pressure in the oil pump can be adjusted between 30 to 120 bars	OEM will submit certificate.	Operating pressure of the equipment must be as per the specifications mentioned in the QRs.
8.	Speed	Opening and closing times can be adjusted between 3 to 6 seconds and speeds can be adjusted	To be physically checked by BOO.	Speed of the equipment must be as per the specifications mentioned in the QRs.

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		separately through hydraulic adjusters in a closed-circuit system optional emergency close option 2 second should be available.	
9.	Operative options	Push button/remote control/manual	To be physically checked by BOO.
10.	In case of Power failure	Manual operation by hand pump/bypass valve. Option be made available for accumulator based automatic operation.	To be physically checked by BOO.
11.	Safety Mechanism	Sensors for Human & vehicular safety be provided as a std accessory along with visual and audible warning lamp.	To be physically checked by BOO. OEM will submit certificate
12.	Additional Features	i) The hydraulic power-pack can be installed within the main barrier body or can be separately installed in case of space constraint. ii) Two pairs of photo sensors and Loop Detectors be provided as standard accessories for safety against human traffic and vehicles. iii) Activated warning lights while barrier is in operation.	To be physically checked by BOO.
13.	Safety	Safety against human traffic:- photo sensor Safety against vehicle:- loop detector	To be physically checked by BOO.
14.	Testing and Certifications		All testing & other certificate from National/International accredited labs like Horiba, MIRA, TRL etc.


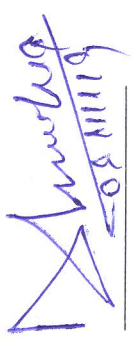








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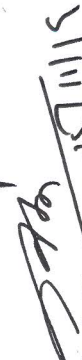


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