

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

EXPRESSION OF INTEREST

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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 20th September 2019 to formulate the QRs of **Flap Barrier/Swing Gate- Normal Lane and Wide Lane.**

2. After detailed deliberation the referred Sub-group of technical experts has finalized the QRs and TDs of **Flap Barrier/Swing Gate- Normal Lane and Wide Lane** on 05th November 2019 which are as under:-

QUALITATIVE REQUIREMENTS OF FLAP BARRIER/SWING GATE-NORMAL LANE AND WIDE LANE

S/No.	Descriptions	Specifications
1.	Safety	In case of fire/power-off, the door to be free and ensure unimpeded exit.
2.	Various interfaces	I/O, RS232/485, CAN interfaces, which it is convenient to control signal input, and provides convenient centralized fire control interface.
3.	Two working modes	NC (Normally Close) & NO (Normally Open), which is easy to deal with peak and normal use.
4.	Multiple control modes	There shall be unidirectional, bidirectional, free passage and authorization passage consisting of nine control modes.
5.	Precise positioning	Precise positioning by photoelectric sensors and to ensure correct position after long work. The work cycle of door shall be regular and precise positioning.
6.	Various status information	It shall provide operational status of each component, the direction of the status, the prevalent status, abnormal status, etc.
7.	Indicator control	The indicator shall be able to show three status of front and back indicator (allow through, no through, system maintenance). Also show the passage direction and passage status (A to pass, B to pass, no through), According to reasonable indicator control, which is convenient for users to management.

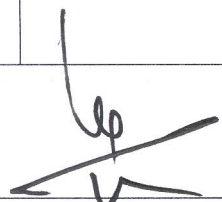
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8.	Biometric Mounting	Shall be able to integrate with Biometric. Biometric sensor & display shall be mounted on the surface of Flap Barrier. External Mounting/external poles not permissible (Biometric Reader & Flap/Swing Barrier should be pre-integrated)
9.	QR Code	Shall be able to integrate with QR Code reader
10.	Size	1200 x 180 x 900 mm to 1400 x 290 x 1000 mm (±20mm) 1200 x 180 x 900 mm to 1500 x 190 x 1100 mm (±20mm) (To be decided by user department as per their requirement at the time of indent)
11.	Unlock time	0.1s to 0.2s
12.	Pass Rate	35 to 40 person/min for normal lane 35 to 45 person/min for wide lane
13.	Pass width	550 to 650 mm for normal lane 850 to 950 mm for wide lane
14.	Power Input	100V ~ 240 V
15.	Motor voltage	24V
16.	Operating temperature	-25~+70
17.	Power consumption	35w
18.	Certification	BIS/Make in India/ISO/CE
	Integration	<p>Flap Barrier can be integrated with any Access Control System</p> <p>Can be integrated with all ID cards, IC Cards, Bar code or magnetic cards.</p> <p>A passage indicator with continuous LED showing the right access points, allows pedestrians smooth passage.</p> <p>06 pairs of infrared sensors.</p> <p>Double anti-clipping function (photocell and mechanical)</p> <p>Auto re-set function, (if no passing identified card reading time, the system to reset automatically & passengers to pass after their second identified reading)</p> <p>The barrier can be set to delay closing in 1-60s after a valid card reading.</p> <p>Operating Modes:</p> <p>Single passage in the set direction</p> <p>Bi-directional single passage</p> <p>Free passage in the set direction always free or locked materials:</p> <p>Housing: Made of stainless steel AISI 304 or better</p> <p>Barrier Swings: Plastic plate, toughened glass,</p> <p>Lid-stainless steel or artificial stone (black/brown)</p> <p>Mechanism:</p> <p>Heavy duty design for 24 hours continuous</p>

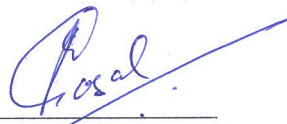
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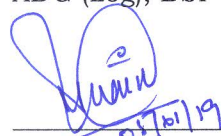
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	<p>application Heavy duty pull type Indoor and outdoor application (Canopy solicited) High durability with industrial parts Smooth, Noiseless and shock less operation Communication: Dry contact relay with 12 volt or 24 volt plus RS 485 or TCP-IP communication with computer Motor Three Million times or above test for motor overheat and overload dual protection for motor.</p>
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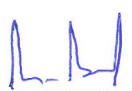

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 (Nb/Sub Vinod Kumar)
 Assam Rifles


 (R K Meel), Dy Comdt
 CISF


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 (Vivek Kumar Johri) IPS
 DIRECTOR GENERAL
 BORDER SECURITY FORCE

TRIAL DIRECTIVES OF FLAP BARRIER/SWING GATE-NORMAL LANE AND WIDE LANE

S/No.	Descriptions	Specifications	TRIAL PROCEDURE SUGGESTED FOR BOARD OF OFFICERS	RESULT EXCEPTED/DESIRED
1.	Safety	In case of fire/power-off, the door to be free and ensure unimpeded exit.	Power off mode to be physically checked by BOO.	Safety must be as per the specifications mentioned in the QRs.
2.	Various interfaces	I/O, RS232/485, CAN interfaces, which it is convenient to control signal input, and provides convenient centralized fire control interface.	OEM will provide the safety certificate.	Various interfaces must be as per the specifications mentioned in the QRs.
3.	Two working modes	NC (Normally Close) & NO (Normally Open), which is easy to deal with peak and normal use.	OEM will submit certificate.	Working modes must be as per the specifications mentioned in the QRs.
4.	Multiple control modes	There shall be unidirectional, bidirectional, free passage and authorization passage consisting of nine control modes.	To be physically checked by the BOO.	Multiple control modes must be as per the specifications mentioned in the QRs.
5.	Precise positioning	Precise positioning by photoelectric sensors and to ensure correct position after long work. The work cycle of door shall be regular and precise positioning.	OEM will provide the certificate. To be physical checked by the BOO.	Precise positioning must be as per the specifications mentioned in the QRs.
6.	Various status information	It shall provide operational status of each component, the direction of the status, the prevalent status, abnormal status, etc.	OEM will provide the certificate. To be physical checked by the BOO.	Various status information must be as per the specifications mentioned in the QRs.
7.	Indicator control	The indicator shall be able to show three status of front and back indicator (allow through, no through, system maintenance).	To be physically checked by the BOO.	Indicator control must be as per the specifications mentioned in the QRs.

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		Also show the passage direction and passage status (A to pass, B to pass, no through), According to reasonable indicator control, which is convenient for users to management.		
8.	Biometric Mounting	Shall be able to integrate with Biometric. Biometric sensor & display shall be mounted on the surface of Flap Barrier. External Mounting/external poles not permissible (Biometric Reader & Flap/Swing Barrier should be pre-integrated)	OEM will provide the certificate. To be physical checked by the BOO.	Biometric Mounting must be as per the specifications mentioned in the QRs.
9.	QR Code	Shall be able to integrate with QR Code reader	OEM will provide the certificate. To be physical checked by the BOO.	QR Code must be as per the specifications mentioned in the QRs.
10.	Size	1200 x 180 x 900 mm to 1400 x 290 x 1000 mm (±20mm) 1200 x 180 x 900 mm to 1500 x 190 x 1100 mm (±20mm) (To be decided by user department as per their requirement at the time of indent)	To be physically checked by the BOO.	Size of the equipment must be as per the specifications mentioned in the QRs.
11.	Unlock time	0.1s to 0.2s	To be physically checked by the BOO.	Unlock time must be as per the specifications mentioned in the QRs.
12.	Pass Rate	35 to 40 person/min for normal lane 35 to 45 person/min for wide lane	To be physically checked by the BOO.	Pass rate of the equipment must be as per the specifications mentioned in the QRs.

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13.	Pass width	550 to 650 mm for normal lane 850 to 950 mm for wide lane	To be physically checked by the BOO.	Pass width of the equipment must be as per the specifications mentioned in the QRs.
14.	Power Input	100V ~ 240 V	OEM will provide the certificate.	Input of the equipment must be as per the specifications mentioned in the QRs.
15.	Motor voltage	24V	OEM will provide the certificate.	Motor voltage of the equipment must be as per the specifications mentioned in the QRs.
16.	Operating temperature	-25~+70	OEM will provide the certificate.	Environment of the equipment must be as per the specifications mentioned in the QRs.
17.	Power consumption	35w	OEM will provide the certificate.	Power consumption of the equipment must be as per the specifications mentioned in the QRs.
18.	Certification	BIS/Make in India/ISO/CE	OEM will submit the certificate.	Certification of the equipment must be as per the specifications mentioned in the QRs.
19.	Integration	Flap Barrier can be integrated with any Access Control System Can be integrated with all ID cards, IC Cards, Bar code or magnetic cards. A passage indicator with continuous LED showing the right access points, allows pedestrians smooth passage.	OEM will provide the certificate. To be physical checked by the BOO (wherever applicable).	Integration of the equipment must be as per the specifications mentioned in the QRs.

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	<p>06 pairs of infrared sensors. Double anti-clipping function (photo cell and mechanical) Auto re-set function, (if no passing identified card reading time, the system to reset automatically & passengers to pass after their second identified reading) The barrier can be set to delay closing in 1-60s after a valid card reading.</p> <p><u>Operating Modes:</u> Single passage in the set direction Bi-directional single passage Free passage in the set direction always free or locked materials: Housing: Made of stainless steel AISI 304 or better Barrier Swings: Plastic plate, toughened glass, Lid-stainless steel or artificial stone (black/brown)</p> <p><u>Mechanism:</u> Heavy duty design for 24 hours continuous application Heavy duty pull type Indoor and outdoor application (Canopy solicited) High durability with industrial parts Smooth, Noiseless and shock less operation</p> <p><u>Communication:</u></p>	
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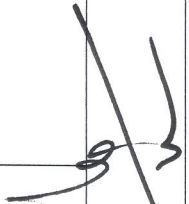
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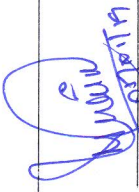
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	<p>Dry contact relay with 12 volt or 24 volt plus RS 485 or TCP-IP communication with computer Motor</p> <p>Three Million times or above test for motor overheat and overload dual protection for motor.</p>		
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 Assam Rifles

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