

संख्या. पी-63013/231/01/2026/मोड-1/सीसुबल 1508-14

भारत सरकार, गृह मंत्रालय  
महानिदेशालय सीमा सुरक्षा बल  
(रसद निदेशालय: आधुनिकीकरण सैल)  
(Email-comdtord@bsf.nic.in)  
(Fax: 011-24367683)

ब्लाक संख्या . 10,  
सीजीओ काम्पलैक्स,  
लोधी रोड, नई दिल्ली-03  
दिनांक 12 जून 2026

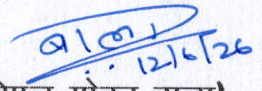
सेवा में,

महानिदेशक:- आसाम राईफलस (through LOAR), केन्द्रीय ओद्योगिक सुरक्षा बल,  
केन्द्रीय रिजर्व पुलिस बल, भारतीय तिब्बत बोर्डर पुलिस, सशस्त्र सीमा बल,  
राष्ट्रीय सुरक्षा गार्ड एवं पुलिस अनुसन्धान एवं विकास ब्योरो

विषय: अनुमोदित गुणात्मक आवश्यकता / परीक्षण निर्देशों का प्रेषण

तकनीकी विशेषज्ञों के उप समूह द्वारा किए गये सूत्रीकरण एवं महानिदेशक सीमा सुरक्षा बल द्वारा अनुमोदित **“K-4 Crah Rated Blocking Bollard”** उपकरण के संसोधित गुणात्मक आवश्यकता / परीक्षण निर्देशों को आपकी अग्रिम कार्यवाही हेतु प्रेषित किया जाता है।

संलग्न : उपरोक्तनुसार

  
(विपुल मोहन बाला)  
उप महानिरीक्षक (रसद)

प्रतिलिपि :-

1. तकनीकी निदेशक  
The Technical Director  
राष्ट्रीय सूचना-विज्ञान केन्द्र, नोर्थ ब्लाक,  
गृह मंत्रालय, नई दिल्ली  
NIC, North Block, MHA  
New Delhi (द्वारा ई-मेल)  
(ई-मेल पता : mpsugandhi@nic.in)  
: आपसे अनुरोध है कि उक्त उपकरण के गुणात्मक आवश्यकता / परीक्षण निर्देशों जोकि गृह मंत्रालय की वैबसाईट (पुलिस आधुनिकीकरण संभाग ) के गुणात्मक आवश्यकता पोर्टल में मशीनरी एवं उपकरण के साथ निगरानी उपकरण वर्ग के अर्न्तगत क्रमांक संख्या-110 पर पहले से अपलोड है के स्थान इस पत्र के साथ संलग्न संशोधित गुणात्मक आवश्यकता/परीक्षण निर्देशों को अपलोड करने का श्रम करें।
2. SO (IT), North Block, MHA  
(Through E-mail)  
(E-mail address: [soit@nic.in](mailto:soit@nic.in))  
: कृपया उपरोक्तानुसार कार्यवाही करने का श्रम करें।
3. Sh. Samarth Sharma,  
Director Nodal Officer for MHA GeM,  
3<sup>rd</sup> Floor, Jeevan Bharti Building  
Conaught Lane, Janpath Cannaught  
Place, N/ Delhi-110001  
E-mail:[directorcategory13@gem.gov.in](mailto:directorcategory13@gem.gov.in)  
For info with request to upload the approved QRs & TDs of **“ K-4 Crah Rated Blocking Bollard”-Revision** on GeM Portal. Copy of QRs & TDs is attached with this letter.
4. तकनीकी विंग, सीमा सुरक्षा बल  
: कृपया उक्त उपकरण के गुणात्मक आवश्यकता/परीक्षण निर्देशों को सीमा सुरक्षा बल की वैबसाईट पर अपलोड करने का श्रम करें।
5. MHA, Police Modernization Division/Prov.I,  
26, Man Singh Road, Jaisalmer House,  
New Delhi-110003  
Email: [vk.arya@gov.in](mailto:vk.arya@gov.in)  
: For your information w.r.t letter No.297 dated 19.03.2026.
6. फाईल

QRs & TDs OF K-4 CRASH RATED BLOCKING BOLLARD-REVISION

S/No.	QRs Descriptions	Specifications	Trial Directives	Result excepted/ Desired
1.	Drive Unit	Hydraulic/Pneumatic	OEM will submit certificate	Drive unit must be as per the specifications mentioned in the QRs.
2.	Cylinder diameter	Minimum 220 mm	To be physically checked by BOO	Cylinder diameter must be as per the specifications mentioned in the QRs
3.	Cylinder length (above ground level)	Minimum 900 mm	To be physically checked by BOO	Cylinder length must be as per the specifications mentioned in the QRs
4.	Rating	IWA 14-1:2013 Bollard V/ 7200 (N2A/ N2B/ N3C) 48/ 90/1.0 and energy equivalent Tests as per other national/ international test standards	Firm to submit Physical test report provided by national/ international ISO 17025 accredited test laboratory along with video.	Rating of the equipment must be as per the specifications mentioned in the QRs. The energy equivalent crash ratings should be as per BSI PAS 68(2013), IS/ ISO IWA-14-1 (2022), ASTM F2656 (2023) or ISO 22343-1 (2023) test standards.
5.	Cylinder Material	High Tensile Carbon Steel	OEM will submit certificate	Cylinder material must be as per the specifications mentioned in the QRs
6.	Rising Time (EFO) optional	1 to 2 Sec	To be physically checked by BOO	Rising time must be as per the specifications mentioned in the QRs
7.	Rising & Lowering Time (normal)	3 to 6 Sec	To be physically checked by BOO	Rising & lowering time must be as per the specifications mentioned in the QRs
8.	Protection Class (Panel Enclosure)	IP68	Firm to submit ISO 17025 (NABL) accredited lab certificate	Protection class must be IP 68
9.	Duty cycle	100% as per rising and lowering time	To be physically checked by BOO	Duty cycle must be as per the specifications mentioned in the QRs.
10.	Illumir ation	Red LED/ Reflective Bands	To be physically checked by BOO	Illumination must be Red LED/ Reflective Bands.
11.	Manual Lowering Operations	Available	To be physically checked by BOO	Manual Lowering operations must be as per the specifications mentioned in the QRs.

S/No.	QRs Descriptions	Specifications	Trial Directives	Result excepted/ Desired
12.	Operating temperature	i) -20 ° C to + 60° C ii) -40 ° C to + 60° C (As per user requirement)	OEM will submit certificate	Operating temperature must be as per the specifications mentioned in the QRs
13.	Total weight of each bollard	200 to 350 Kg	OEM will submit certificate	Total weight must be as per the specifications mentioned in the QRs
14.	MTBF	50,00,000	OEM will submit certificate	MTBF must be as per the specifications mentioned in the QRs
15.	MCBF	15,00,000	OEM will submit certificate	MCBF must be as per the specifications mentioned in the QRs
16.	Safety against Vehicle	Loop Detector	To be physically checked by BOO	Safety against vehicle must be as per the specifications mentioned in the QRs
17.	Safety against Human Traffic	Photo Sensor	To be physically checked by BOO	Safety against Human Traffic must be as per the specifications mentioned in the QRs
18.	Control Unit	PLC based control unit with tailor made integration with all access Control Devices.	To be physically checked by BOO	Control Unit must be as per the specifications mentioned in the QRs
19.	Testing and Certifications		All physical test reports & other certificates should be from national/international ISO 17025 accredited testing labs like Horiba MIRA, ARAI, TRL, CTS, Idiada (KARCO), Trans polis, Aisico, etc."	Testing and certifications must be as per the specifications mentioned in the QRs.
20.	<b>Note:-</b> The bollard is to be manufactured keeping in mind the corrosive nature of the tropical Indian climate. All parts of bollards to be galvanised to prevent corrosion and smooth functioning even when submerged in water. To give a fine balance between aesthetics and security, all bollards to come with an aesthetically pleasing stainless steel sleeve which easily merges with environment.			-

S/No.	QRs Descriptions	Specifications	Trial Directives	Result excepted/ Desired
	<ul style="list-style-type: none"> <li>PLC based control unit which is tailor made to use and can be integrated to all access control devices.</li> <li>Wherein the bollard if hit at 48 km/h by a fully laden 7.2-ton truck should achieve Dynamic penetration of only 1.0 m testing certificate should be provided by OEM.</li> </ul>			
21.	<p><b>Accumulator:</b> In case of power failure condition minimum 3 cycles (Rising/lowering) should be possible. It should be an integral part of the product and not offered as an optional accessory.</p>		To be physically checked by BOO	-
22.	<p><b>Training:</b> The firm will arrange to conduct 01 Week training of 25 personnel on handling, repair and maintenance of the system free of cost.</p>		To be verified by BOO	-
23.	<p><b>Warranty:</b> The stores supplied against the order should cover under free warranty repair/ replacement of components which are established as being defective due to improper design, defective materials or poor workmanship standard for a period 03 years from the date of commissioning of the system. Firm to pick up/attend the defective system during warranty period from user specified locations at the time of indent.</p>		Firm to provide undertaking certificate in this regard. BOO to check the certificate.	
24.	<p>The retracted blocking bollard assembly should withstand static axle load of 12.5 tonnes without causing damage, caving in or degrading the operational performance”</p>		OEM to submit certificate in this regard.	-

S/No.	QRs Descriptions	Specifications	Trial Directives	Result excepted/ Desired
25.	Pre-Dispatch Inspection: Before dispatch of product to installation site, the product is to thoroughly checked in firm's factory premises and structural design parameters like diameter, thickness, length needs to be measured and verified against values available in physical test report submitted above by the firm. Material certificate of the cylinder, which is available with the firm after batch procurement, should be made available for verification against grade mentioned in submitted physical test report.		To be physically checked by BOO or any third-party agency authorized by the user department/ organisation.	-

<i>V. Singh</i> (Harbax Singh Dhillon), ADG(Log), BSF	<i>D.K.</i> (Dinesh Kumar), DIG(TPT), BSF	<i>K.L. Puri</i> (K L Puri), SP, BPR&D (through VC)	<i>M.K.</i> (Mukesh Kumar), 2IC, SIW, BSF
<i>J. Pal</i> (Jaswinder Pal), 2IC (TPT), BSF	<i>J.P.</i> (Jayesh Patil), DC, CISF	<i>S.S.</i> (Sukhvir Singh), DC, SRO, BSF	<i>V.K.</i> (Vimal Kumar), DC, SSB
<i>M. Elangovan</i> (M Elangovan), DC, ITBP	<i>R.K. Singh</i> (Ravi Kumar SINGH) AC-II, NSG	(Lt. Col. Savya Sanchi), Assam Rifles (through VC)	<i>I.S. Chakraborty</i> (Inspr Swapan Chakraborty) SIW, BSF

**Approved/ Not Approved**

*Approved*  
*man*

**Director General  
Border Security Force**