

No. P-63013/17/2015/Mod-I/BSF/5885-87
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 18 Dec 2018

The Technical Director
NIC, North Block, MHA
New Delhi

(Through E-mail)

(E-mail address : mpsugandhi@nic.in)

Sub: Request for comments of stakeholders/OEM on draft QRs.

Kindly refer to MHA letter No. IV-24011/12/2011-Prov-I(part)(CFN 3300890)-1710 dated 31st Aug 2015.

2. In this connection, it is to inform that draft QR's of **'Flexible Fiber Scope/Fiber Optic Scope'** revised by sub group of technical experts during the meeting held on 18th December 2018 at HQ DG BSF, is forwarded herewith with the request to upload the same on MHA website for 15 days please.

Encl :- As above

Vikas Singh
(Vikas Singh)
Dy. Commandant (Mod)

Copy to :-

1. SO (IT), North Block, MHA : For information and necessary action
(Through E-mail)
(E-mail address:
soit@nic.in) alongwith a copy of draft QR's of
'Flexible Fiber Scope/Fiber optic
scope'.
2. IT Wing, FHQ BSF : i) Alongwith a copy of draft QR's of
'Flexible Fiber Scope/Fiber optic
scope' with the request to upload
same on BSF website for 15 days i.e.
upto 02nd January 2019. The text may
be removed on 03rd January 2019.
ii) It is also requested to e-mail this
letter alongwith draft QRs to following
addressee :-
(a) Technical Director, NIC, North
Block, MHA
(E-mail : mpsugandhi@nic.in)
(b) SO (IT), North Block, MHA
(E-mail : soit@nic.in)

o/c

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

The Sub-group of Technical Experts constituted by MHA vide their letter No. IV-24011/12/2011-Prov-I dated 13 Jun 2012 and order No. 11012/02/2009-Fin-I/Prov-I/17 dated 02nd Jan 2018 held its meeting at BSF Headquarters on 17th Feb 2016, 25th April 2016, 27th July 2016, 05th Oct 2016, 08th Feb 2017, 15th March 2017, 25th July 2017, 18th Aug 2017, 14th Sep 2017, 31st May 2018 and 26th October 2018 to revise the QRs of '**Flexible Fiber Scope**'. Same equipment has been authorized to CRPF with nomenclature '**Fiber optic Scope**'. Therefore the QRs apply to them also.

After detailed deliberation the referred Sub-group of technical experts has revised the QRs and TDs of **Flexible Fiber Scope/Fiber optic Scope** which are as under :-


S/ No	SPECIFICATIONS	PARAMETERS	
1.	<u>Probe.</u>		
	a	Probe effective length.	01 mtr, 2 mtrs or more.
	b	Outer diameter.	8 mm or less.
	c	Probe type & flexibility.	Flexible / Semi-flexible.
2.	<u>Optics.</u>		
	(a)	Field of view.	70 degrees or more.
	(b)	Direction of view.	Forward.
	(c)	Depth of field.	50 mm to infinity.
	(d)	Recognition.	Capable of recognizing a human target at least up to a distance of 5 mtrs or more.
	(e)	Day/night viewing capability.	Should be able to recognize objects in pitch darkness (standard dark room) & day light.
	(f)	Light Source	Eye safe infra-red (invisible to naked eye).
	(g)	Lamp Life	Minimum 1000 hours of operation.
3.	<u>Articulation Section.</u>		
	(a)	Articulation angle.	4 ways, up/down/right/left/90 degrees or more (to view 360 degrees). All movements should be controlled with joystick/control lever/ articulation knobs.
	(b)	Articulation control.	Control with power assist mechanism including locking function. All movements should be electronic or joystick/control lever/articulation knobs controlled.
	(c)	Operating temperature.	-10 degrees C to +45 degrees C or better (in air).
4.	<u>Camera.</u>		
	(a)	Camera sensor.	CCD or CMOS
	(b)	Camera resolution.	Should be 300,000 pixels or more.
	(c)	Lens.	Wide angle 1.8 mm or better.
	(d)	Digital zoom.	5X or better.
5.	<u>Audio.</u> Microphone inbuilt/external in flexible fiberscope.	Supersensitive audio microphone with 5-7 mtrs audio pickup.	

6.	LCD Monitor.	
(a)	Type.	Handheld LCD monitor to be provided. (shoulder harness/neck strap for monitor is an optional requirement which is to be mentioned by the user at the time of indent).
(b)	Size.	Minimum - 4" diagonal. Maximum - 7" diagonal.
(c)	Control.	Should have controls for brightness, contrast & zoom.
(d)	Audio video interface.	Provision for audio & video interface should be provided.
7.	Recording.	
(a)	Encoding wideband.	MPEG4/JPEG/AVI.
(b)	Frame rate.	30 per sec or better.
(c)	Memory.	Minimum 32 GB on detachable SD card.
8.	Safety	
9.	Power Supply.	
(a)	Battery.	Rechargeable & replaceable Lithium Battery. Should be available in India.
(b)	Battery working life.	Minimum 2 hours in day/night working conditions on full charge.
(c)	Battery charging time.	Less than 4 hours.
(d)	Weight of complete system excluding carrying case.	Operational weight (excluding carrying case) → 2 kg or less.
10.	Accessories with each Fiberscope.	
(a)	Carrying case.	(i) Soft & hard carrying case with back strap. (ii) Soft & hard carrying case for transport (water proof).
(b)	Spare batteries.	2 Nos. of spare batteries.
(c)	Battery charger.	Quantity 01 per fiberscope. Should work with 220V/230V AC, 50 Hz & battery to battery charging with 12 V battery.
(d)	Belt sets.(Optional requirement to be mentioned by the user at time of indent)	Belt set should enable comfortable operation.
11.	Literature. Operating & technical literature for each discrete components of system should be in English language.	

Note- All firms are requested to provide the following.

1. Original Brochure of product by OEM.
2. Detail literature about the product.
3. Comprehensive comments for in-incorporation in the specifications.

The Sub-group has decided to upload the QRs on MHA and BSF website for 15 days to invite the views/ comments/ suggestions of prospective bidders to make the QRs more broad based.


 (Vikas Singh)
 Deputy Commandant (Mod)