

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

**Expression of Interest**

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The Sub-group of Technical Experts on Surveillance Equipments constituted by MHA vide their letter No. IV-1017/18/2001-Prov-I dated 05 Jul 2002 held its meeting at BSF Headquarters on 21<sup>st</sup> Aug 2015, 20<sup>th</sup> Oct 2015, 23<sup>rd</sup> Dec 2015, 11<sup>th</sup> March 2016, 06<sup>th</sup> May 2016 and 21<sup>st</sup> July 2017 to revise the QRs of '**Police Dog Camera**'.

After detailed deliberations the referred Sub-group has revised the QRs of '**Police Dog Camera**' which are as under:-

S.No	Specification
1	<b>Camera Unit</b>
	i Weight – Weight of camera (excluding battery) should be less than 350 Gms
	ii Facility for recording video & audio signals.
	iii To stream imagery over wireless link (200 meters minimum NLOS with coding and 1 Km minimum LOS with coding).
	iv The camera should have :-
	a Storage Capacity - 32 GB through removable SD card.
	b Fixed Focus lens with FOV 80 <sup>o</sup> or more.
	c Rechargeable Dry fit Lithium –Ion battery with suitable battery charger to provide minimum 5 hours power backup.
	d The camera must facilitate vision in low light/dark conditions with help of IR LED illumination.
e Position of the Dog is required to be GPS tagged.	
f The camera must come with corresponding harness ergonomically designed for comfortable and effective mounting and smooth functioning.	
g Resolution: Minimum 420 TVL or more.	
2	<b>Hand Held Remote Control Unit</b>
	i Either LED Monitor -7 inch minimum (diagonal) or 5" (min) wrist mounted monitor tab for hands free operation. <b>(Note :- User will have an option to choose either of the monitor or both as per operational requirement)</b>
	ii The video being relayed to the Hand Held remote should be of resolution 640 x 480 (Min).
	iii Facility to receive video and audio signals and screening the same in the monitor and simultaneous recording with SD Card/ Hard Drive (64 GB minimum). It should have USB port to retrieve the data.
	iv Should have in-built GPS.
	v Rechargeable Battery backup for 4-7 hours continuous use with suitable battery charger.

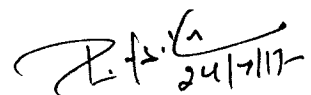


	vi	Video signal should be compatible with PAL version.
	vii	Provision of Analog Video Out.
	viii	Weight – Not more than 3 kg including battery & accessories.
	ix	System should have software to record audio video signal automatically with data & time.
3	<b>Head Gear / Back mounted/Chest mount unit (User to specify the type of mounting at time of indent)</b>	
	i	Easy to mount & dismount.
	ii	In case of Back mounted, camera neck should be spring loaded so that dogs can maneuver through tight spaces or brush without being caught or held back by the camera arm during the act of employment.
	iii	Total weight of harness, head gear/back mount/chest mount camera and transmitter should not be more than 1.5 kg.
	iv	Facility of two way audio communication between dog and handler.
4	<b>Operating temperature:</b> -10 <sup>0</sup> C to +50 <sup>0</sup> C, 95% humidity.	
5	<b>Misc</b>	
	i	Additional battery for camera unit and hand held remote control unit required.
	ii	Heavy duty water proof, impact resistant carrying case to contain the complete equipment and accessories.
	iii	Operating and technical manual be provided.

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.

**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 incorporation in the specifications.



( Rishipal Singh )  
Second-In-Command (Mod)