

**DIRECTOR GENERAL BORDER SECURITY FORCE**  
**(PROVISIONING DIRECTORATE (Mod Cell))**

**EXPRESSION OF INTEREST**

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The Sub-group of Technical Experts constituted by MHA vide their letter No. IV-24011/12/2011-Prov-I dated 13 Jun 2012, No. IV-24011/12/2011-Prov-I dated 28 Dec 2012 & UO No. IV-24011/12/2011-Prov-I- 350 dated 27 Jun 2013 held its meeting at BSF Headquarters on 10-02-2016 and 30<sup>th</sup> Aug 2017 the Qualitative Requirement of '**Digital Night Vision Goggles**'.

After detailed deliberations the referred Sub-group has revised the QRs of '**Digital Night Vision Goggles**', which are as under:-

**QUALITATIVE REQUIREMENTS OF DIGITAL NIGHT VISION GOGGLES**

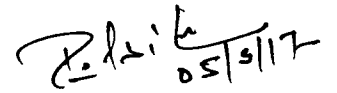
S.No.	SPECIFICATIONS	
1	General Description	It should allow a complete hands free operation and the vision should not get effected by normal head movements. It should be head/helmet mountable or should fit to the head like a snow/ballistic goggle.
2	Magnification	1 x .
3	Field of view	40 <sup>o</sup> .
4	Eye relief	12 to 15 mm.
5	Power supply	Up to 3 V.
6	Maximum Range	400 Meter
7	Operating temperature	-10 <sup>o</sup> C to +50 <sup>o</sup> C.
8	Weight	450 gm to 650 gm (Including battery).
9	Battery life	6 to 8 Hrs. in operational mode.
10	Low Battery indicator	Low battery indication should be provided inside the Field of View.
11	Camera Resolution	High Definition.
12	Diaptor Adjustment	± 2 d or automatic.
13	Battery type	Rechargeable Lithium ion battery with suitable battery charger.
14	IR Illuminator Power	75 to 95 mW.
15	Environmental requirement	Equipment must conform to JSS 55555 or Mil Std. 810F or better.
16	AGC	It should have automatic gain control.
17	Safety	It should not get damaged if faced towards sun, flash from HHSL/Tactical Light.

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18	Should be able to compensate instant dark light or light to dark conditions.	
19	Carrying case	Equipment should be supplied with a water proof soft carrying case.
20	Transportation box	A suitably hardened ruggedized transportation box to be provided.
21	Signal Processing Program.	The use of sun light substantially sensitivity of the CCD array, enabling observation in low light without using the IR illuminator.
22	Built in laser IR Illuminator.	Built in IR Laser illuminator (class one eye safe) to provide effective observation of remote objects in total darkness.

**Note: - All firm are requested to comment upon the above mentioned QRs and furnish original OEM Brochures/catalogues.**

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



(Rishipal Singh)

Second In Command (Mod)