

DIRECTORATE GENERAL BORDER SECURITY FORCE (Prov. Dte: Mod. Cell)

The Sub-group of technical experts on surveillance equipment constituted by MHA vide their letter No. IV-17017/18/2001-Prov-L-dated 05 Jul 2002 held its meeting at BSF HQ 26th Nov 2014, 17th Feb 2015, 22rd May 2015, 23rd June 2015, 03rd July 2015, 29th July 2015, 02rd Sep 2015, 05th Oct 2015, 1st Feb 2016 & 28th March 2016 to finalize the QRs of Reflex Sight. The QRs of Reflex Sight are as under:-

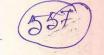
QUALITATIVE REQUIREMENTS - REFLEX SIGHT

S.No.	Parameters	Requirement
1	Weight:	Not more than 400 grams including battery and mounting arrangements. Type of adapter will be specified by the user.
2	Optics & Body	Lens should have anti-reflection coating, scratch & chemical resistant. Body should have mat-black finish and it should be rust and corrosion proof. The sight should be free of any optical aberration such as Parallax etc.
3	Magnification	1X
4	Range	300 Mtrs
5	Aiming DOT	i. Should have the aiming point in form of a Red-dot. ii. The size of aiming dot should be not more than 3 MOA. iii. Should have a provision for vertical and horizontal adjustment of Red dot.
6	Brightness	Should have provision to adjust brightness of the Red DOT.
7	Battery	i)Non rechargeable, replaceable battery. ii) Operating temperature -20°C to + 55°C. iii) Battery should be commercially/readily available.
3	Zeroing	The zeroing of sight should not get disturbed by continuous firing of 100 rounds on user specified weapon.
9	Adapter	Should have adapter to mount (Picatinny or dovetail) on user specified weapon.
10	Compatibility	Should be competible with the night vision sights when used in tandem.
11	Ruggedness	The Reflex Sight should be ruggedized as per latest Mil STD or JSS 55555 in the respect of high and low temperature, humicity shock, vibration and rain.
12	Operating Temperature:	-20° C to + 55° C
13	Storage Temperature	-30° C to + 60° C
14	The second secon	More than 10,000 hours
15	Material	Reflex Sight should not have any Radioactive or hazardous material.

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16	Miscellaneous	Inspection and maintenance manuals, tools, user hand book (In English or Hindi language), illustration on various parts, guides on handling the equipments etc., as applicable to be provided. Packing: Impact resistant hard transportation box in commensuration with Will-Standard should be provided. It should have provision to accommodate complete accessories.
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So	PARAMETERS	Trial procedure suggested for Board of Officers	Result expected / desired	Complied /Not
	Weight: Not more than 400 grams including battery and mounting arrangements. Type of adapter will be specified by the user.	Measure the weight of the Reflex sight including battery and mounting arrangements / adaptors. Chock the compatibility of the adaptor/mounting provided for a specific weapon.	The weight of the Reflex sight must not be more than 400 gms including battery and mounting arrangements/ adaptors. Type of adaptor must be in accordance with the adaptor specified in the tender documents and it must be compatible with weapon	
00000	Optics & Body: Lens should have anti reflection coating, scratch & chemical resistant. Body should have mat-black linish and it should be rust and corrosion proof. The sight should be free of any optical aberration such as Parallax etc.	 Check the optical parts of Reflex sight for Anti reflection coating, scratch & chemical (like weapon cleaners, lubricants, oil or insect Repellents) resistant. Check the body of the sight for mat-black finish. Fix the equipment on linstrument resting Scale of finlegrated test equipment and and see the image of the sight. 	> The tens must be of Anti- reflection coating, scratch & chemical resistant. > Body of the Sight must be mat- black timish. > Target must be parallax free.	
132°	Magnification 1x	Fix the equipment on Instrument Testing Scale of Integrated test equipment and measure the magnification of the Reflex sight as per the procedure.	The magnification must be 1x.	
4.	Range : More than 300 Mirs.	To be physically checked by the BOO. Place the target at 300 Mtrs and aim through the device.	Target must be detected at 300 meters.	
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8. Zeroing: The zeroing of sight should not get disturbed by Zero the recontinuous firing of 100 rounds on user specified weapons. weapon and	Non rechargeable, replaceable battery.	iii. Should have a provision for vertical and horizontal adjustment of Red dot. 6. Brightness: Should have provision to adjust brightness of the Red DOT	Aiming DOT Should have the aiming point in form of a Red-dot. The size of aiming dot should be not more than 3 MOA.
Zero the reflex sight with the weapon and check its sustainability	BOO ii) Check the National / ii) iii) Check the National / iii) iii) Check the National / iii) iii) iii) Control accredited Lab test report/certificate submitted by the firm in r/o Operating Temperature. iii report, the veracity of the same may be checked from the concerned lab. iii) Certificate to be provided by the	checked at 200 and 300 meters. Check the sight for the provision of vertical & horizontal adjustment of red dot in a pre-defined calibrated manner. To be physically checked by the BOO	Check the Reflex sight for the aiming point. MOA. Place a target at 100 meters and paste a circle of diameter 5.08 cm on the target centre. Mount the sight on the weapon and switch it 'ON'. See through the Reflex sight and coincide the Dot on the circle. Similarly, it should also be
Firing and re-mounting of the Reflex Sight should not disturb the zeroing.	ii) Operating temperature should be -20°C to +55°C. iii) Battery should be commercially/readily available	The Reflex sight must have a provision for vertical and horizontal adjustment of red dot. The Reflex sight must have the provision to adjust the brightness control of Red Dot	The Reflex sight must have aiming point in the form of Red-dot. The dot must cover the circle. The appearance of the marked circle behind the dot at 100 meters, 200 & 300 meters confirms the non compliance of the parameter.

	13. Storage Temperature: -30° C to +60° C	2. Operating Temperature:-20° C to +55° C		per latest Mil STD or JSS 55555 in the respect of high and low temperature, humidity shock, vibration and rain.	10. Compatibility: Should be compatible with the night vision was sights when used in tandem.	Adaptor: Should have adapter to mount (Picatinny or Movetail) on user specified weapons.	of ta
per at -30°C to +60°C to se each. The firm should internate internate internate in the second	Switch 'ON' the Reflex sight and keep it into the Hot & Cold	Switch 'ON' the Reflex sight and keep it into the Hot & Cold chamber at -20" C to+ 55" C for 30 minutes each. The firm should also		Check the certificate submitted by the firm in respect of the latest. Mil STD or JSS 55555 in the respect of high and low temperature, humidity shock, vibration and rain.	Mount the Reflex Sight on the weapon with the night vision sight/device and check its compatibility.	Mount the Reflex Sight on the weapon and dismount it on user specified weapons.	of zeroing by firing 100 Rds on the target. There after Reflex Sight be re-mounted on the weapon.
after the test. Check the National / International accredited Lab test	d > No deterioration in the Sight d must be observed during and	must be observed during and after the test. Check the National / International	vibration and rain In case of any doubt in the test report, the veracity of the same may be checked from the concerned lab.	T	compatible with the night vision device and one must be capable to aim the target with the help of night vision device through Reflex sight.	Reflex Sight must be easy nt and dismount on pon.	

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Inspection and maintenance manuals, tools, user hook (In English and Hindi language), illustration on varients, guides on handling the equipments etc., applicable to be provided.	Material: Reflex sight should not have any Radioadive material or hazardous material.	MTBF: More than 10,000 hours	
and The firm should submit an ous undertaking for the same.	The firm should submit national / international accredited report or certificate in respect of the same.	Check the OEM certificate submitted by the firm in respect of the same.	accredited lab certificate / report for the same.
n Undertaking certificate to be checked.	Check the National / International accredited Lab test report/certificate submitted by the firm in r/o of the same. In case of any doubt in the test report, the veracity of the same may be checked from the concerned lab	The OEM certificate contents must confirm the sight MTBF of more than 10,000 hours. In case of any doubt in the certificate, the veracity of the same may be checked from the concerned OEM.	report/certificate submitted by the firm in r/o Operating Temperature. In case of any doubt in the test report, the veracity of the same may be checked from the concerned lab.

Packing: Impact resistant hard transportation box in commensuration with Mil-Standard should be provided. It should have provision to accommodate complete

The firm should submit national Check the provision provided in the hard transportation box in respect of Mil Standard. accredited report or certificate accessories accommodate complete / international

International accredited Lab Check submitted by the firm in r/o of doubt in the test report, the the same. In case of any veracity of the same may be checked from the concerned the report/certificate National

Provision should be available in the hard transportation box to accommodate complete accessories.

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