

QRs OF WEAPON BASED SINGLE CHANNEL TI SIGHT

S/No	Parameter	Specification
1.	Field of View	Min 8°x 6° (1x) optical and provided with optical / digital zoom of (2x,4x) or both.
2.	Magnification	Ranging between 1x to 4x (Digital Zoom) or better.
3.	Mount	Sight should be provided with Picatinny Rail arrangement for mounting on Assault Rif (weapon to be specified by the user).
4.	Mount Locking Mechanism	The Sight should have single or dual, automatic lever locking mechanism for quick attachment and detachment.
5.	Battery	Lithium ion battery with an endurance of min 6hrs of continuous use. The battery should be able to recharge/discharge for min 300 cycles.
6.	Detector	Focal plane array 640 x 480 (or better) uncooled with spectral bandwidth of 3 to 5 micrometer or 8 to 14 micrometer.
7.	Frame Rate	25 FPS or better.
8.	Non Uniformity Correction	Shutterless Non Uniformity Correction (NUC).
9.	Display	OLED display with min resolution of 640 x 800 pixels.
10.	Reticule	(a) Cross hair with center dot. (b) Reticule pattern with gyration to measure distance & size of tgt.
11.	Battery Status Indicator	Low Battery indication shall be provided on the OLED display while operating the sight.
12.	Battery Charger	A suitable universal AC/DC charger should be provided to charge the battery within four to six hrs. The battery charger shall have the provision to charge one set of batteries simultaneously.
13.	Weight with battery	1.00 Kg max.
14.	Operating Temp	-30°C to +55°C
15.	Storage Temp	-30°C to +65°C
16.	Environmental Performance	As per JSS-55555/2012 or Mil Std 810F or latest of the series.
17.	Command & Control	(a) Autogain/Level (b) Polarity (White Hot/Black Hot) (c) Digital Zoom. (d) Brightness & contrast adjustment.
18.	Single man size target detection range	800 mtr atleast or better.

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QRs OF WEAPON BASED SINGLE CHANNEL TI SIGHT (Contd...)

S/No	Parameter	Specification
19.	Single man size target recognition rg	400 mtr atleast or better.
20.	Polarity	(a) Black Hot (b) White Hot
21.	Adjustment and Zeroing	There should be a facility of Azimuth & Elevation adjustment in steps of 1 MOA.
22.	Sight Performance	(a) Sight should retain zeroing even after fire of hundred rounds in cyclic rate of fire. (b) Sight should retain zero even after several detach and re-attach.
23.	Packing and Maint.	
	(i) Package	Suitable packing material to facilitate storage and transportation will be provided. The PM should be strong enough to withstand rough handling under operational conditions.
	(ii) Engineering Support Package	Tool and accessories required for zeroing, bore sight adjustment, routine maint to be provided. An in-situ trg for a min of three days to be provided by the vendor.
24.	Literature	Description, operating instructions, user hand book shall be provided by the firm in both Hindi & English.
25	Other Aspects	(a) Zero forward emission in front of camera.
		(b) The sight should be complied to EMI/EMC as per Mil Std 461E.
		(c) TI should be hermetically sealed unit and have the provision for purging nitrogen gas.

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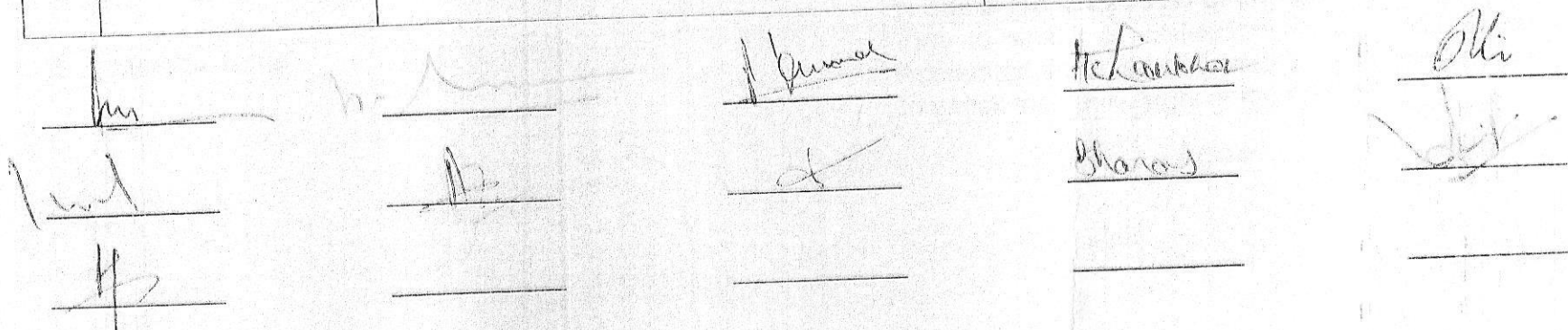
✓ APPROVED / NOT APPROVED

(RC Tayal)
DG, NSG

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TRIAL DIRECTIVE OF WEAPON BASED SINGLE CHANNEL TI SIGHT

Ser No	Parameter	Specification	Trial Directives
1.	Field of View	Min 8°x 6°(1x) optical and provided with optical / digital zoom of (2x,4x) or both.	Firm to submit a certification from a NABL/ International Accredited lab confirming to ISO-17025 for the same. BOO to check the authenticity of the certificate
2.	Magnification	Ranging between 1x to 4x (Digital Zoom) or better.	Firm to submit a certification from a NABL/ International Accredited lab confirming to ISO-17025 for the same. BOO to check the authenticity of the certificate
3.	Mount	Sight should be provided with Picatinny Rail arrangement for mounting on Assault Rif (weapon to be specified by the user).	To be physically checked by BOO.
4.	Mount Locking Mechanism	The Sight should have single or dual, automatic lever locking mechanism for quick attachment and detachment.	To be physically checked by the BOO for fitment and functional aspects.
5.	Battery	Lithium ion battery with an endurance of min 6hrs of continuous use. The battery should be able to recharge/discharge for min 300 cycles.	Firm to submit a certification from a NABL/ International Accredited lab confirming to ISO-17025 for the same. BOO to check the authenticity of the certificate. BOO to also check the endurance of the battery physically.
6.	Detector	Focal plane array 640 x 480 (or better) uncooled with spectral bandwidth of 3 to 5 micrometer or 8 to 14 micrometer.	(a) The firm should provide datasheet of the sensor used. (b) The firm should provide a certificate of conformance (COC).



The bottom section of the page contains several handwritten signatures and initials, some of which are underlined. There are approximately 10-12 distinct marks, including names like 'Sharma' and 'Dharam', and various scribbles and initials.

