


No: QCP/RED DOT SIGHT

QUALITY CONTROL PLAN
FOR
RED DOT SIGHT
TY No: (OLF/R&D/RDS/SPEC/001)

Prepared by:


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CM/QCF


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Checked by:


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Recommended by:

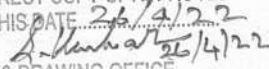

Shri H K Sharma, AWM/QC

Approved by:


Shri Shisir Khare, JLG/M/QC

Opto Electronics Factory
Raipur, DEHRA DUN-248 008

Date: 19-09-2017

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**Q.C PLAN
RED DOT SIGHT**

TY NO.-(OLF/R&D/RDS/SPEC/001)

Sl.No.	Parameter	Para No of the specification	Method	Equipment(s) used	% of Inspection
1.	Visual & Clearing		3.1		100%
2.	Optical Magnification	1.1.1	7.1	Measuring Microscope	100%
3.	Field of view	1.1.2	7.2	Wide Angle Collimator	100%
4.	Eye relief	1.1.3	7.2	Measuring Microscope	100%
5.	Dioptric power of Red dot	1.1.4	7.2	Diopter Tube	100%
6.	Resolving Power	1.1.5	7.3	Collimator for resolution	100%
7.	Dot size	1.1.6	7.2	Wide Angle Collimator	100%
8.	Dot brightness control	1.1.7	7.4		100%
9.	Limit of movement of dot	1.1.8	7.5	Chart for movement of Dot	100%
10.	Weight	1.1.9	7.6	Weighing Machine	100%
11.	Length of Sight	1.1.10	7.6		100%
12.	Width of Sight	1.1.11	7.6		100%
13.	Rain test at static pressure	1.2.5	7.7	Rain Chamber	100%
14.	Heat Test	1.2.6	7.8	Heat Chamber	100%
15.	Cold Test	1.2.7	7.9	Cold Chamber	100%
16.	Vibration strength	1.2.8	7.10	Vibration Machine	100%
17.	Drop Test		S.O.e		100%
18.	Bump Test		S.O.F		100%
19.	Final Inspection	Para 1 to12			100%

(Chandrabhan)
Chandrabhan

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**PRE/FINAL INSPECTION REPORT
TEST PROTOCOL OF RED DOT SIGHT
AS PER TY No. OLF/R&D/RDS/SPEC/001**

I/Note: No.: Dt:

Sl No.	Parameters	Specified Limit	Regd. No.			
1	Visual & Clearing	:				
2	Optical Magnification	: $1X \pm 0.05X$				
3	Field of view	: 12° (min)				
4	Eye relief	: Unlimited, As per eye position at gun				
5	Dioptric power of Red dot	: -0.5 D to -1.0 D				
6	Resolving Power	: 2.2 millirad or better				
7	Dot size	: <10 MOA				
8	Dot brightness control	: Rotary switch for controlling brightness of Red Dot as per ambient conditions.				
9	Limit of movement of dot	: $V \geq 160$ mm at 5.0 meter $H \geq 160$ mm at 5.0 meter				
10	Weight	: Not more than 220gms (without mounting Bracket).				
11	Length of Sight	: 130 mm \pm 5mm				
12	Width of Sight	: 58mm \pm 3mm				

Examined by

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S. Karthik 26/4/22

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D.V.V.
Dharmendra Kumar
9/11

Group I/C

ENVIRONMENTAL TEST-REPORTS OF RED DOT SIGHT
AS PER TY No. OLF/R&D/RDS/SPEC/001

I/NOTE NO. OF:

S.No.	TEST	Regd.No.	Regd.No.	Regd.No.	Regd.No.	Regd.No.	Regd.No.	OCF	CQA(I)
1	Rain Test At static pressure 200KPa \pm 15% For 1.00 Hrs								
2	Heat Test $+ 55^{\circ} \pm 3^{\circ}$ C For 2.00 Hrs.								
3	Cold Test $-30^{\circ} \pm 3^{\circ}$ C For 2.00 Hrs.								
4	Vibration strength Acceleration -2g Frequency 5 to 350 Hz, \pm 6 mm constant displacement OR 20m/Sec ² constant acceleration, whichever is lesser.								
5	Drop Test In unpacked condition, 01 drop on each face from a height of 1000 mm, on sand bed of 15 cm thick.								
6	Bump Test 50 bump with 1-3 bumps/Sec pulse duration 6 ms peak acceleration 40 g.								

I/C Env.-

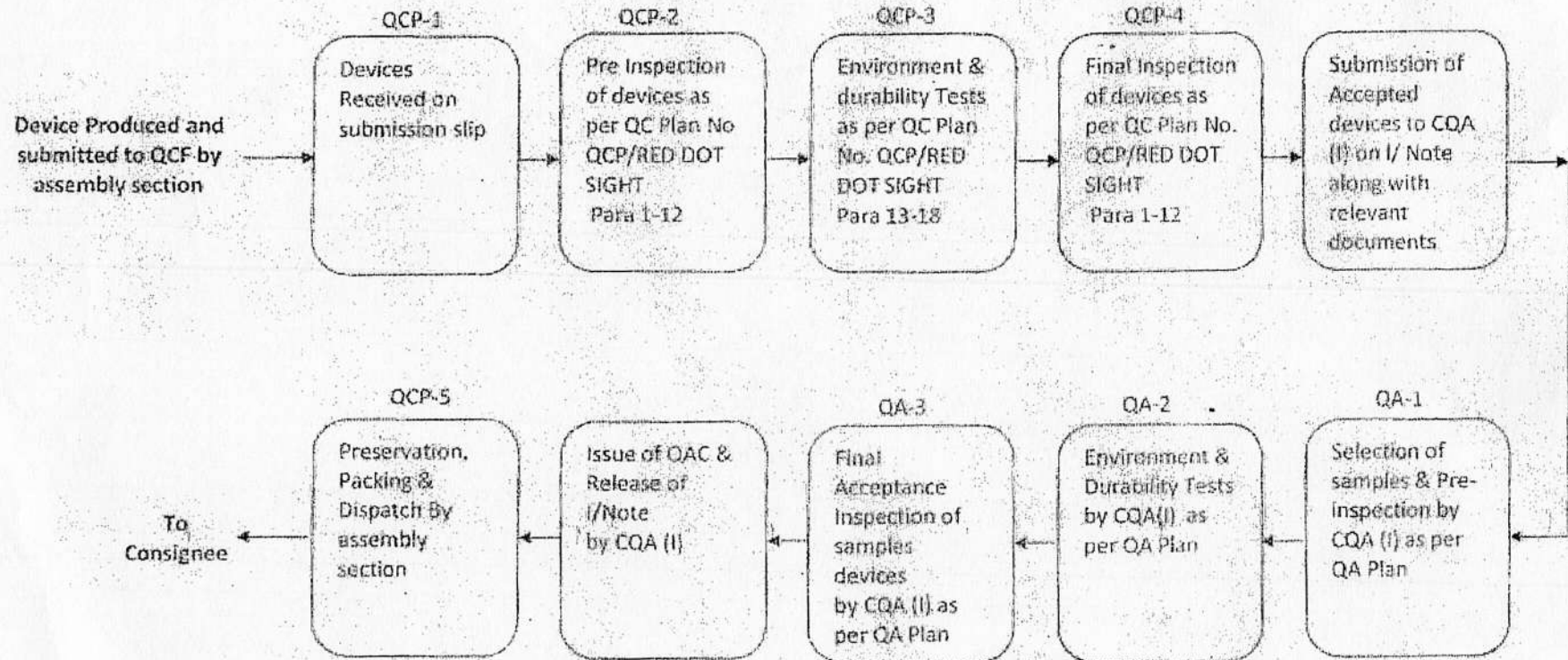
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(Signature)
 (Charanendra Kumar)
 C/M

INSPECTION FLOW CHART OF RED DOT SIGHT

(DRAWING NO. OLF/R&D/RDS/001, TY NO: (OLF/R&D/RDS/SPEC/001)



[Signature]
Jt.GM/QC

[Signature]
AWM/QC

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[Signature]
Dharmendra
CH