

## YARD & ESTATE

NO.7891/Labour Contracts 19-20/Y&E/MMW

DATED: 25.07.2020

DGM / EO & MIMW

Sub: Extension of DP for engaging unutilized man days – Reg.

- Ref: 1. Supply Order No. J120Z03108 DT. 25.06.19 (Labour Contract – Inside Factory)  
2. Supply Order No. J120Z03111 DT. 19.07.19 (Labour Contract – Outside Factory)  
3. Supply Order No. J120Z03109 DT. 29.06.19 (Labour Contract – Guest Houses)

With reference to above supply orders, the following data is submitted:

Sl.No.	Description	Man Days per Day as per SO	Total Man Days to be supplied as per SO	Total Man Days supplied during 12 Months	Unutilized Man Days (D-E)
A	B	C	D	E	F
1	Labour Contract – Inside Factory	99	31185	26743	4442
2	Labour Contract – Outside Factory	34	10710	9126	1584
3	Labour Contract – Guest Houses	24	8760	8665	95

In order to effectively utilize the unutilized man days as stated above, it is requested to extend the Delivery period for another 02 Months from the DP of option clause in all the above 03 cases.

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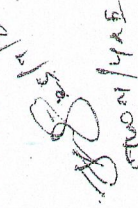
HOS/MMW – For necessary action please.

Encl: At a glance Summary of Man Days engaged in all above 03 cases.

  
WM/Admit-1A

  
14/5/20

18/05/2020

  
14/5/20  
25/07/2020

ISS 55555 : 2012  
Revision No. 3

रक्षा मंत्रालय  
MINISTRY OF DEFENCE

संयुक्त सेवा स्पेसिफिकेशन  
JOINT SERVICES SPECIFICATION

ON

ENVIRONMENTAL TEST METHODS  
FOR  
ELECTRONIC AND ELECTRICAL EQUIPMENT

मानकीकरण निदेशालय  
रक्षा उत्पादन विभाग  
रक्षा मंत्रालय  
'एच' ब्लॉक, डाकघर निर्माण भवन  
नई दिल्ली - 110 011

DIRECTORATE OF STANDARDISATION  
DEPARTMENT OF DEFENCE PRODUCTION  
MINISTRY OF DEFENCE  
'H' BLOCK, NIRMAL BHAWAN PO  
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UNIVERSITY

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JSS 55555 : 2012  
Revision No.3

## 0. FOREWORD

- 0.1 This specification has been prepared by the Electronic Components Standardisation Organisation (LCSO) on behalf of Electronic Standardisation Sub Committee (LSSC) on the authority of the Standardisation Committee, Ministry of Defence.
- 0.2 This specification is a revision of JSS 55555:2000 (Revision No.2) and supersedes the same.
- 0.3 This specification has been approved by the Ministry of Defence and is mandatory for use by the Defence Services.
- 0.4 This specification shall be used to design, manufacture, quality assurance and procurement of the item.
- 0.5 Quality Assurance Authority for the item covered by this specification is QQA (L), Bangalore for Army, DQAN, New Delhi for Navy and DGQA, New Delhi for Air Force. Enquiries regarding this specification relating to any contractual conditions shall be addressed to the Quality Assurance Authority named in the tender or contract. Other technical enquiries shall be referred to :-
- The Director  
Directorate of Standardisation  
Ministry of Defence  
'H' Block, Nirman Bhawan PO,  
New Delhi - 110 011
- 0.6 Copies of this specification can be obtained on payment from :-
- The Director  
Directorate of Standardisation  
Standardisation Documents Centre  
Room No. 5, 'J' Block,  
Nirman Bhawan PO, New Delhi -- 110 011
- 0.7 Indian Standard (IS) specification are available free of cost for registered users on:-  
Directorate of Standardisation Website :- [www.defstand.gov.in](http://www.defstand.gov.in)  
For registration visit our website.
- 0.8 This specification holds good only for the supply order for which it is issued.
- 0.9 Directorate of Standardisation Website. All the approved JSS/JSGs are available on the Directorate of Standardisation Website [www.defstand.gov.in](http://www.defstand.gov.in). Defence organisations desirous of procuring a copy of this document are requested to approach the Directorate of Standardisation for obtaining user id/password to access the website.

Sequential Order of the Test	Type of Test	Specification / Test Reference to be followed	Severities / Brief of the Test	Envisaged Field Conditions Justifying the Requirement of the Test
01	Vibration ✓	JSS 55555, Test No28	(a) Frequency Band:- (i) 5 to 13 Hz with $\pm 6$ mm Constant Displacement (ii) 13 to 142 Hz with $\pm 40$ m/s <sup>2</sup> Constant Acceleration (i) 142 to 201 Hz with $\pm 0.05$ mm Constant Displacement (ii) 201 to 2000 Hz with $\pm 80$ m/s <sup>2</sup> Constant Acceleration (b) 2hrs duration for each Axis and each Frequency Band. (c) Functional Tests after recovery of 2 to 4 hrs	Operation
02	Impact Strength	TY 6415 Clause No 5.13	(a) Impact with acceleration 1500 M/s <sup>2</sup> (b) Duration 1-5 Milli sec (c) 20 Times in three axis as Per Appx F of the TY	Operation
03	High Temperature ✓	JSS 55555, Test No17, Procedure 6, Condition M	(a) Temp: $55 \pm 3$ °C for 24hrs (b) Functional checks during Final Hour. (c) Temp: $85 \pm 3$ °C for 24hrs (d) Recovery 2 to 4 hrs followed by Functional checks.	Operation Storage & Transportation
04	Damp Heat ✓	JSS 55555, Test No10	(a) Temp: $40 \pm 2$ °C with RH: $93 \pm 5$ % for 16hrs (b) Functional checks during Last 30 mins. (c) Recovery 2 to 4 hrs followed by Functional checks.	Operation, Storage & Transportation
05	Low Temp ✓	JSS 55555, Test No20, Procedure 4, Condition J4	(a) Temp: $-20 \pm 3$ °C for 24hrs (b) Functional checks during Last 30 mins. (c) Recovery 2 to 4 hrs followed by Functional checks	Operation, Storage & Transportation
06	Altitude ✓	JSS 55555, Test No3 Procedure	(a) Temp: $-40 \pm 3$ °C, Altitude: 9100 mtrs /30kPa, 16hrs	Transportation (By Air)

Note:-

- 1. Functional Checks.** Functional Checks to be carried out in accordance with Paras 5.11 and 5.12 of TY 6415 of Russian Specifications.
- 2. Preparation of the Item for Tests related only to Storage and/or Transportation Field Conditions.** The Item can be kept inside the packaging meant for transportation and storage. The packaging shall provide protection to the Item from the envisaged field conditions.

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ENVIRONMENTAL / CLASS C TEST PLAN FOR ELECTRIC TRIGGER OF 12.7MM AD GUN  
(APPX TO CQA(AVL) L/NO 70072/T 90/AMGM Dt May 2014)

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		5, Condition L1&A1.	(b) Recovery 2 to 4 hrs followed by Functional checks	
07	Rapid Temp cycle ✓	JSS 55555 Test No.22, Procedure 1, Condition A	(a) Cycle. (i) Temp: 55 ± 3 °C, RH less than 30% for 3 hrs. (ii) Raise Temp to 40 ± 3 °C in 2-3mins, maintain for 3 hrs. (c) No of Cycles 03. (d) Recovery 2 hrs followed by Functional checks.	Transportation ( By Air)
08	Sealing (If Required as per OEM Specs) ✓	TY 6415 Clause No 5.15 Specs	(a) Hydrostatic Pressure of 58840Pa for 20mins. (b) Followed by Hydrostatic Pressure of 88260Pa for 10mins. (c) No ingress of water allowed. (d) Functional Check with 10000 shots firing.	Operation, Storage and Transportation
09	Driving Rain	JSS 55555 Test No.12, Condition A	(a) Exposed to Water Spray from 04 Shower Heads at 45° to the Item. (b) Recovery 2 to 4 hrs followed by Visual and Functional checks	Operation, Storage and Transportation
10	Dust Test ✓	JSS 55555, Test No.14	(a) Temp 40 ± 3 °C RH ≤ 50% for 01 hrs (b) Visual and Functional checks anytime during the test. (c) Recovery 2-4 hrs followed by Visual and Functional checks.	Operation, Storage and Transportation
11	Tropical exposure ✓	JSS 55555, Test No.27, Condition C	(a) Cycle (i) Initial Temp 20 ± 5 °C (ii) Raise Temp to 35 ± 2 °C, RH 95% over a period of 3 hrs. Duration of 12 hrs to be maintained. (iv) Back to Initial Temp in 03 hrs. Duration of 6hrs to be maintained. (b) 28 cycles. (c) Visual and Functional checks during first 02 hrs of 35 °C period of 7 <sup>th</sup> , 14 <sup>th</sup> , 21 <sup>st</sup> and 28 <sup>th</sup> cycles. (d) Visual checks and functional checks at completion of 14 <sup>th</sup> and 28 <sup>th</sup> cycles.	Operation, Storage and Transportation

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Note:-

- 1. Functional Checks.** Functional Checks to be carried out in accordance with Paras 5.11 and 5.12 of TY 6415 of Russian Specifications.
- 2. Preparation of the Item for Tests related only to Storage and/or Transportation Field Conditions.** The Item can be kept inside the packaging meant for transportation and storage. The packaging shall provide protection to the Item from the envisaged field conditions.

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ENVIRONMENTAL / CLASS C TEST PLAN FOR ELECTRIC TRIGGER OF 12.7MM AD GUN  
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			(e) Recovery 2-4 hrs followed by Visual and Functional checks.	
12	Mould growth ✓	JSS 55555, Test No.21	(a) Duration 28 days. (b) To be visually observed with 10 <sup>x</sup> Magnification immediately after taking out of chamber. (c) Recovery 2-4 hrs followed by Functional checks.	Operation, Storage and Transportation
13	Corrosion (Salt) ✓	JSS 55555 Test No 9 Procedure 2	(a) Cycle. (i) Salt Spray for 2 hrs (ii) Storage in Temp 35 ± 2 °C, RH:90-95% for 22 hrs (b) 03 cycles. (c) Recovery 2-4 hrs followed by Visual and Functional checks.	Operation, Storage and Transportation
14	Contaminati on test ✓	JSS 55555, Test No 6	(a) Duration 48 hrs Temp 50 °C. (b) Recovery to attain temperature stability followed by Visual and Functional checks.	Operation, Storage and Transportation
15	Drop test ✓	JSS 55555 Test No13, Condition F, E and D resp	(a) Item to be fitted in a Cage to simulate fitment inside the Tracked Vehicle. (b) The cage with Item fitted to be drop from 1000 mm. (c) Followed by Visual and Functional checks.	Operation
			(a) Item to be dropped from 250mm. (b) Followed by Visual and Functional checks.	Handling
			(a) Dropped from 500mm (b) Followed by Visual and Functional checks.	Storage and Transportation
16	Toppling ✓	JSS 55555, Test No. 26	As per Test Procedure	Operation, Storage and Transportation
17	Bump test ✓	JSS 55555, Test No5 , Clause No. 3.3.2	(a) Acceleration of 400 m/s <sup>2</sup> , Pulse Duration 06 millisecs (b) 4000 ± 10 Bumps (c) Visual and Functional Checks after the Test.	Transportation

Note:-

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