



PAKISTAN NAVY SPECIFICATION 02/2014

PROMULGATION DATE: 4 Jul 14

① **COAT PIN PAKISTAN MINIATURE
FLAG (METAL)**

② **PAKISTAN FLAG PATCH**

Prepared by:

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AMENDMENT RECORD

Amd No	Date	Text Effected	Signature and Date

REVISION NOTE

The specifications have been prepared to bring the test methods and procedures in line with up-to-date PN requirements and facilities held in Pakistan. CINS may request to amend any test requirement/ test procedure in light of the experience from its inspection history, through the Feed back performa placed at Annex F. However, such an alternation will be effective when the amendment is promulgated by this Directorate, thereby effective on the contracts which materialize after the promulgation date of respective amendment.

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1. **DESIGNATION**

- 1.1 Coat Pin Pakistan Miniature Flag (Metal).
- 1.2 Pakistan Flag Patch.

2. **USAGE**

- 2.1 These flags will be used by Officers, CPOs and Sailors of Pakistan Navy as indicated vide NHQ letter ST-V/0953/Flags dated 04 April 14.

3. **INTRODUCTION**

3.1 These specifications are prepared by Directorate of Indigenous Technical Development, Karachi, to provide necessary guidance to the potential manufacturers/suppliers of the items mentioned herein. These will be used for testing and deciding upon acceptance, or otherwise, of the items mentioned. Any alteration or addition in specification can be suggested to ITD Directorate. However, it cannot be implemented without prior approval of DITD. These specifications supersede all other specifications promulgated earlier in relation to the items mentioned herein.

3.2 This specification booklet consists of 14 pages including 06 Annexes, 02 drawings and the cover.

4. **SCOPE**

4.1 This specification defines the quality standard and details of material manufacture workmanship and finish of Coat Pin Pakistan Miniature Flag (Metal) and Pakistan Flag Patch which is to be worn by the Officers/ CPOs and Sailors of Pakistan Navy.

5. **REFERENCE DOCUMENTS**

5.1 The standards and documents that have been referred to in these specifications are:

- | | | |
|----|---------------|---|
| a. | AATCC-20 | Determination of fabric quality. |
| b. | ISO-3801 | Determination of mass per unit length and area. |
| c. | ISO-7211/2 | Determination of number of thread per unit length. |
| d. | ISO-7211/5 | Determination of linear density of yarn removed from fabric. |
| e. | ISO-105-C03 | Color fastness to Washing test No. 3. |
| f. | ASTM E3227-67 | Standard method for Optical Emission Spectrometric analysis for aluminum and aluminum alloys by the point to plane technique. |

6. **DEFINITIONS:**

6.1 Definitions for the terms used in this specification are given at Annex E.

SPECIFIC REQUIREMENTS

7. **TECHNICAL DETAILS:**

7.1 Complete details of Coat Pin Pakistan Miniature Flag (Metal) and Pakistan Flag Patch are given at Annex A and B.

8. **DIMENSION/ DRAWING**

8.1 Dimension/ Drawing of both Flags are given at Annexes C & D.

9. **QUALITY OF WORKMANSHIP AND FINISHING**

9.1 Workmanship and finish of the flags shall be equal to the sealed sample. It shall be best of its class and to the entire satisfaction of the inspector.

10. **TESTING**

10.1 The material shall be subjected to tests laid down in these specifications. The material may also be subjected to such tests which are deemed necessary by the inspection authority in order to determine their suitability.

11. **ADVANCE SAMPLE**

11.1 Advance sample, when required, shall be submitted in accordance with terms of the contract for inspection, testing and approval. The minimum quantities required are given as under:

- | | | |
|-----------------------------|---|-------------------------|
| • Finished Flags | - | 05 Nos. (For each Flag) |
| • Fabric (Flag Patch) | - | 01 meter |
| • Embroidery Thread (White) | - | 50 grams |
| • Embroidery Thread (Green) | - | 50 grams |
| • Velcro | - | 01 meter |

11.2 Approval of the above mentioned sample authorizes the commencements of bulk production, but does not relieve the manufacturers from compliance with all the provision of this specification.

12. **INSPECTION/ ACCEPTANCE AND REJECTION OF STORES:** Inspection/ acceptance is to be carried out to the satisfaction of Chief Inspector Naval Stores.

12.1 CINS reserves the right to reject the whole supply in case, upon examination, material or packing of any sample or portion of the consignment is found NOT CONFORMING to this specification.

12.2 If on examination 5% of any delivery, 20% of those examined from bulk supply are found NOT CONFORMING to this specification in respect of the pattern, dimensions, workmanship and finish, the whole consignment may be Rejected without any compromise.

13. **RESPONSIBILITY FOR INSPECTION:** The supplier is responsible for the performance of all inspection requirements (examinations and tests) as specified herein. PN reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to ensure supplies and services conform to prescribed requirements.

14. **RESPONSIBILITY FOR COMPLIANCE:** The inspection set forth in this specification shall become a part of the supplier's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to PN for acceptance comply with all requirements of the contract. Sampling inspection, as part of manufacturing operations, is an acceptable practice to ascertain conformance to requirements, however, this does not authorize submission of known defective material, either indicated or actual, nor does it commit PN to acceptance of defective stores (material).

STAMPING OF ACCEPTED/ REJECTED STORES BY THE INSPECTOR

15. Following instructions are to be followed:

15.1 **Stamping of Accepted Stores.** Each acceptable Flag shall be stamped with Inspector's Individual Acceptance Mark's. The stamping shall be legible.

15.2 **Stamping of Rejected Stores.** The rejected Flag shall be marked with Inspector's Rejection Mark's to avoid re-submission by the supplier.

15.3 The Inspector is the authority in all matters pertaining to inspection.

16. **MARKING OF STORES:**

16.1 In addition to any special marking required by contract or order, the marking of packages shall be stenciled with quick drying Black ink/ Paint in accordance with Specification No. NS/MISC/002/80.

17. **PACKING**

17.1 In addition to any special packing required by contract or order, packing requirements shall comply with the following details.

- Each sample of Pakistan Miniature flag should be secured on cardboard and finally packed in polyester plastic bag.
- Each sample of Pakistan Flag Patch should be packed in polyester plastic bag.

18. **DELIVERY:**

18.1 The consignment of store will be delivered in accordance with the terms of contract.

18.2 The store shall be delivered in Brand new, clean and dry condition.

18.3 The contractor / manufacturer is fully responsible for the safety of the supplies during inspection, storage at firms premises proper packing, dispatch and delivery up to consignee.

19. **FEED BACK PPROFORMA**

19.1 To propose any amendment in specifications, feed back proforma is placed at Annex F.



MUHAMMAD TAHIR KARIM

Captain Pakistan Navy

Director

Annexes:

- A. Technical details of Coat Pin Pakistan Miniature Flag (Metal)
- B. Technical details of Pakistan Flag Patch
- C. Dimension/ Drawing of Coat Pin Pakistan Miniature Flag (Metal)
- D. Dimension/ Drawing of Pakistan Flag Patch
- E. Definitions
- F. Feed back Proforma

Distribution:

DNS

DP (N)

CINS

CO PNCSD

ANNEX A TO
PN SPECIFICATION NO. 02/2014
PROMULGATION DATE 4 JUL 2014

TECHNICAL DETAILS OF COAT PIN PAKISTAN MINIATURE FLAG (METAL)

<u>S NO</u>	<u>MATERIAL</u>	<u>REQUIREMENT</u>
<u>FRONT PANEL OF FLAG</u>		
1.	Material	Laminated with Polystyrene
2.	Color/shade	As per approved sealed pattern
<u>MAIN FLAG</u>		
1.	Material	Aluminum
2.	Coating	Copper
<u>POINTED PIN</u>		
1.	Material	Brass (60% Copper + 40% Zinc) (approx)
2.	Coating	Nickel
<u>SECURING BUTTON</u>		
1.	Material	Brass (60% Copper + 40% Zinc) (approx)
2.	Coating	Nickel

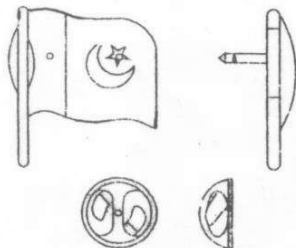
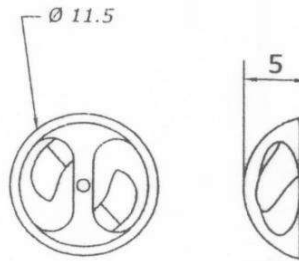
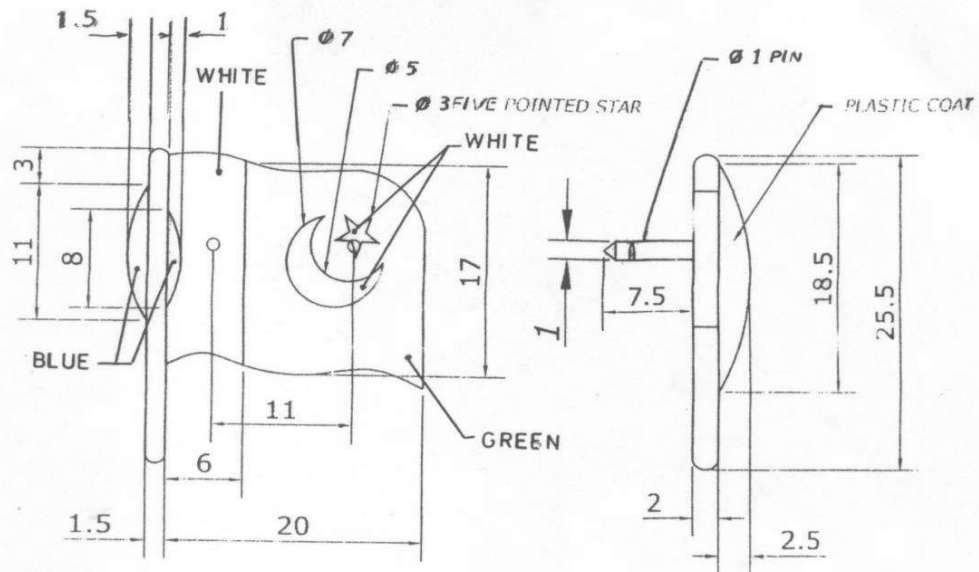
ANNEX B TO
PN SPECIFICATION NO. 02/2014
PROMULGATION DATE 04 JUL 2014

TECHNICAL DETAILS OF PAKISTAN FLAG PATCH

S NO	MATERIAL	REQUIREMENT
<u>FABRIC DETAILS</u>		
1.	Colour	Green (Pantone shade 19-5920 TCX)
2.	Material	Polyester
3.	Count of yarn 1. Warp 2. Weft	30 \pm 2 30 \pm 2
4.	Thread/inch 1. Warp 2. Weft	103 \pm 2 65 \pm 2
5.	Weave	2/1
6.	Weight/sq.meter in grams (As received)	149 \pm 10
7.	<u>Performance Test</u> Colour fastness to washing Test No. 3 1. Change in Shade 2. Staining Polyester Cotton	GS: 4 GS: 4 GS: 4
<u>EMBROIDERY THREAD DETAILS</u>		
1.	Colour	Green (PantoneShade19-5920TCX) White (PantoneShade11-0601TCX)
2.	Material	Rayon (Green) Rayon (White)
3.	Count of yarn	2/44s \pm 2 2/44s \pm 2
4.	<u>Performance Test</u> Colour fastness to washing (for green only) Test No. 3 1. Change in Shade 2. Staining Cotton Wool	GS: 4 GS: 4 GS: 4

	<u>VELCRO TAPE DETAILS</u>	
1.	Material Male Female	Nylon Nylon
2.	Colour	<u>For</u> Black (For Dress No 4B & 4C) Khaki (For Dress Pak Marine & SSG(N)) <u>Read</u> Light Grey Pantone 15-4003 TCX for Dress 4B Khaki Pantone 16-0518 TCX for Pak Marines Olive Green Pantone 17-0620 TCX for SSG(N) Ammended by DITD vide letter No. PD/2400/10/Pakistan Flag/12/89 dated 17 January 2019.
3.	<u>Performance Test</u> 1. Before sticking / unsticking 300 times at 300 g. 2. After sticking / unsticking 300 times at 300g.	Satisfactory Satisfactory

ANNEX C TO
PN SPECIFICATION NO 02/2014
PROMULGATED DATE 04 JULY 2014



SCALE : 1:1

NOTE:
FOR FURTHER DETAILS SEE STOCK SAMPLE.

DITD		KARACHI
TITLE: COAT PIN FLAG		
DWG.NO.TD- 2255/2014	DIMENSION : mm	
DATE : 09 -05 -2014	SCALE : 1:2	
DRAWN BY ADNAN NISAR D/MAN	CHECKED BY LT. ASMA SOHAIL SO, DM TEXTILE	APPROVED BY CAPTAIN MUHAMMAD TAHIR KARIM DITD