

HEADQUARTERS
PHILIPPINE ARMY
OFFICE OF THE ARMY CHIEF QUARTERMASTER
Fort Andres Bonifacio, Metro Manila

PA SPECIFICATION

QM SPEC NR IC-21PATSPS

07 AUG 2022

Interim

PHILIPPINE ARMY TACTICAL SHIRT, POLYESTER, SPANDEX

1. SCOPE

1.1. Scope - This specification covers one type of Tactical Shirt for use of military personnel of the Philippine Army.

1.2. Grade - The finished Tactical Shirt shall conform to the quality and grade of product prescribed by this specification.

1.3. Sizes - Sizes and measurements of the finished Tactical Shirt are specified in Annex A.

2. REQUIREMENTS

2.1. First Article - Two (2) samples of the finished Tactical Shirt shall be submitted to the Office of the Army Quartermaster and shall be subjected to first article inspection in accordance with para 3.1.

2.2. Materials

2.2.1. Collar and Sleeves

2.2.1.1. The material for the collar and sleeves shall be blend of 85% ± 5 cotton and 15% ± 5 polyester fabric with the following construction requirements:

2.2.1.1.1. Pattern – The basic material shall be printed with Philippine Army Pattern (PHILARPAT) design as shown in the attached illustrations (Figure 1 - 5). The pattern shall be characterized by the natural geometric shapes using color of dark green (Figure 5); black (Figure 4); light green (Figure 3); and beige (Figure 2) color combinations with beige as the base color of the fabric. One (1) complete pattern shall have four (4) Philippine Army logos as shown in the attached illustration. The size of the Philippine Army logo is 1.3 ± 0.1 cm in height and 1.1 ± 0.1cm in width (Figure 6). The scale of the complete pattern shall be 76.2 ± 2.0 cm in length and 76.2 ± 2.0 cm in width. The pattern shall continuously repeat along the length and the width of the fabric.

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2.2.1.2. Physical Requirements

| | | | |
|---|-------------------------|---------------------------|---------------|
| Type of Weave | - | Twill with ripstop design | |
| Ripstop Design, cm | | | |
| Length | - | 0.6 ± 0.1 | |
| Width | - | 0.6 ± 0.1 | |
| Thread Count/2.54 cm: | | | |
| Warp | - | 130 (minimum) | |
| Filling | - | 70 (minimum) | |
| Yarn Size, Denier (Fine) | | | |
| Warp | - | 160 (minimum) | |
| Filling | - | 160 (minimum) | |
| Yarn Size, Denier (Coarse) | | | |
| Warp | - | 600 (minimum) | |
| Filling | - | 750 (minimum) | |
| Weight, g/m ² | - | 200 (maximum) | |
| Thickness, mm | - | 0.30 - 0.35 | |
| Breaking Strength, kg (Grab Method) | | | |
| Warp | - | 70 (minimum) | |
| Filling | - | 35 (minimum) | |
| Tearing Strength, kg (Tongue Method) | | | |
| Warp | - | 4.5 (minimum) | |
| Filling | - | 4.5 (minimum) | |
| Flex Abrasion Resistance (Nr of cycles until rupture) | | | |
| Warp | - | 9,000 (minimum) | |
| Filling | - | 9,000 (minimum) | |
| Dimensional Change, % | | | |
| Warp | - | 3 (maximum) | |
| Filling | - | 3 (maximum) | |
| Colorfastness | AATCC Gray Scale Rating | | |
| | | Change in Color | Staining |
| Laundering | Grade 4 (min) | Grade 4 (min) | Grade 4 (min) |
| Perspiration | Grade 4 (min) | Grade 4 (min) | Grade 4 (min) |
| Color Quality | | | |
| Color Difference | - | 2 (maximum) | |

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2.2.1.3. Cloth Finish - The finished cloth shall be free from runs and shall be clean with all spots and stains completely removed.

2.2.2. Body

2.2.2.1. Front and Back Part - Shall be 80% ± 5 polyester fabric and 20% ± 5 Spandex, Olive Drab with design and shall conform to the following requirements:

| | | | | |
|---------------------------------------|-------|-----------------|---|---------------|
| Thread Count/2.54 cm: | | | | |
| Wales | - | - | - | 40 - 50 |
| Courses | - | - | - | 60 - 70 |
| Thickness, mm | - | - | - | 0.55 - 0.60 |
| Weight, g/m ² : | - | - | - | 185 (maximum) |
| Bursting Strength, kg/cm ² | - | - | - | 8 (minimum) |
| Type of Knit: | - | - | - | Plain |
| Color Quality (Color Difference) | | | | |
| Spectrophotometric Method: | - | - | - | 1.5 (maximum) |
| Dimensional Change, % | - | - | - | ± 2 % (max) |
| Colorfastness | | Change in Color | | Staining |
| Laundering, rating | ----- | Grade 4 (min) | | Grade 3 (min) |
| Perspiration, rating | ----- | Grade 4 (min) | | Grade 4 (min) |

2.2.3. Thread – The sewing thread shall be made of nylon or polyester yarns, olive drab, 2 ply (minimum) with a minimum breaking strength of 1 kg.

2.2.4. Zipper - The closure for the front shall be made of nylon zipper No. 4.

2.2.5. Cloth Finish – The finished cloth shall be free from runs and shall be clean with all spots and stains completely removed.

2.3. Construction

2.3.1. Cutting – The Tactical Shirt shall be cut strictly in accordance with the design as illustrated in Figures 1,2 & 3.

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2.3.2. Flap Sleeve Pocket – The sleeve pockets flap shall be one piece cut from the material specified in para 2.2.1.1 of double thickness, set and sewed with double rows of stitching to the correct form and size as illustrated. The sleeve pocket flap shall have a finished depth of 4.5 ± 0.3 cm on both inner and outer edge, tapered on both sides as illustrated to form a depth of 6.0 ± 0.3 cm with a width corresponding to the width of the sleeve pocket. The front portion of the sleeve pocket flap shall be provided with olive drab Velcro tape (loop), 4.5 ± 0.3 cm wide and 9.5 ± 0.5 cm long, sewed along the bottom edge of the flap. The back portion of the sleeve pocket flap shall be provided with olive drab Velcro tape (hook), 2.5 ± 0.2 cm wide and 9.5 ± 0.5 cm long. It shall be sewed 1.0 ± 0.2 cm above the top edge of the sleeve pocket.

2.3.3. Pocket, Sleeve – The sleeve pocket shall be one piece cut from the material specified in para 2.2.1.1 and creased in with an edge-turning machine to ensure uniformity of size and shape. There shall have two (2) sleeve pockets set and sewed in diagonal position with double rows of stitching. The dimensions of sleeve pocket shall be in accordance with the attached Table of Finished Sizes and Measurement (Table I). It shall be provided with olive drab Velcro tape (loop), 9.5 ± 0.2 cm wide and 14.2 ± 0.5 cm long for attachment of patches.

2.3.4. Elbow Padding – The padding of the elbow shall be from the same material as the sleeve and shall be creased in with an edge-turning machine to insure uniformity of size and shape. The two (2) paddings with appropriate dimensions in accordance with the attached Table of Finished sizes and measurements (Table 1) are to be patched at the center of the elbow sleeves. Elbow padding shall be filled with fiberfill.

2.3.5. Cuffs - Each cuff shall be one piece cut from the material specified in para 2.2.1.1 of double thickness formed to the correct size and shape with one end having a pointed extension and sewed with double rows of stitching along the edge of the sleeve opening sewed vertically as illustrated. The dimensions of cuff shall be in accordance with the attached Table of Finished Size and Measurements (Table I). It shall be provided with olive drab (OD) Velcro tape (hook), 5.0 ± 0.3 cm wide and 8.0 ± 0.5 cm long, sewed from the end of the pointed extension as illustrated. An olive drab (OD) Velcro tape (loop), 5.0 ± 0.3 cm wide and 10.0 ± 0.5 long, shall be sewed on the sleeve opening 5.5 ± 0.5 cm from the setting of the cuff for quick and easy adjustment and it shall be aligned with Velcro tape (hook) on the cuffs.

2.4. Workmanship

2.4.1. Design – The design of the finished Tactical Shirt shall be essentially the same as shown in Figures 1, 2 & 3 and the official sample of the Philippine Army.

2.4.2. Finish – The Tactical Shirt shall be clean, well-finished, well-pressed and free from any defect which may affect its appearance or serviceability. Overall workmanship shall be the best known to the trade. Poor quality of sewing or workmanship shall be sufficient ground for rejection of the finished article.

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2.4.3. Contractor's Label with Washing Instruction –The contractor's label with washing instruction shall be printed on the inside back portion, 2.5 ± 1.0 cm below the collar seam using black paint, Arial font, Size 12.

2.4.4. The label shall consist of the following:

PHILIPPINE ARMY TACTICAL SHIRT, POLYESTER, SPANDEX
Name of Contractor:
Size:

WASHING INSTRUCTION

MACHINE WASHABLE / WASH WITH LIKE COLORS
DO NOT BLEACH / TUMBLE DRY LOW / WARM IRON
DO NOT DRY CLEAN

3. VERIFICATION

3.1. First Article Inspection – The two samples of the finished Tactical Shirt including materials and components submitted in para 2.1 shall be subjected to first article inspection by Philippine Army representative/agency. The samples shall be subjected to tests and examination to verify if the requirements in para 2.2 through 2.4 are satisfied with reference to the attached test parameters.

3.2. Sampling

3.2.1. Samples of finished Tactical Shirt shall be taken at random during acceptance and shall be subjected to test evaluation at authorized agency/facility. In-process inspection shall be conducted when stipulated in the contract for the purpose of examination to determine compliance with the requirements of the specification and immediate correction on the overall workmanship can be conducted.

4. QUALITY ASSURANCE PROVISIONS

4.1. Responsibility for Inspection – Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. The Government reserves the right to perform any of the inspections set forth in this document where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

4.2. Responsibility for Compliance – All items must meet all requirements of Sections 2 and 3. The absence of any inspection requirements in the document shall not relieve the contractor of the responsibility of assuring that all product or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling in quality conformance does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to accept of defective material.

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4.3 Samples – The samples of the finished Tactical Shirt and materials shall be submitted for testing in accordance to the test procedure set forth by the Philippine Army to determine the extent of compliance with this specification insofar as quality of materials used is concerned. The Philippine Army representative shall determine the extent of compliance with the specification insofar as workmanship, style and finish are concerned.

5. PACKAGING AND PACKING

5.1 Packaging – Each Tactical Shirt shall be placed in a transparent (cellophane) bag.

5.2 Packing – Fifty (50) pieces of the Tactical Shirts shall be packed in a corrugated carton. The top cover, when closed, shall be sealed with a binding tape and finally secured with nylon straps. The box shall be labeled as follows:

PHILIPPINE ARMY TACTICAL SHIRT, POLYESTER, SPANDEX
Name of Contractor:
QTY: 50 pieces
SIZE:

6. MISCELLANEOUS

6.1 Any point not covered by this text shall be supplement and supported by the attached illustration as reference guide.

Prepared by:

Recommend Approval:

Signature of Gen C Contillo
GENER C CONTILLO
MAJ (QMS) PA
Chief, Plans & Research Branch

Signature of Dexter A Macasaet
DEXTER A MACASAET
COL MNSA (QMS) PA
Chief

Approved by:

Signature of Romeo S Brawner Jr
ROMEO S BRAWNER JR
Lieutenant General, PA
Commanding General, PA

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TABLE OF SIZES AND MEASUREMENTS IN CENTIMETERS

| | | X - Small | Small | Medium | Large | XL | XXL | Tolerance |
|----|--|-----------|-------|--------|-------|------|------|-----------|
| AB | Body Width | 48 | 50 | 53 | 56 | 60 | 64 | ± 2.0 |
| BC | Body Length | 66 | 70 | 73 | 76 | 79 | 82 | ± 2.0 |
| CD | Shoulder Sleeve Length | 70 | 72 | 75 | 78 | 80 | 80 | ± 2.0 |
| DE | Arm Sleeve Length | 51 | 53.5 | 56.5 | 59.5 | 61.5 | 61.5 | ± 2.0 |
| EF | Width of Sleeve Opening | 13 | 14 | 15 | 16 | 17 | 18 | ± 1.0 |
| FG | Length of Cuffs | 13 | 13 | 13 | 13 | 13 | 13 | ± 1.0 |
| GH | Width of Cuffs | 5 | 5 | 5 | 5 | 5 | 5 | ± 1.0 |
| HI | Elbow Padding Width | 12 | 12 | 12 | 12 | 12 | 12 | ± 1.0 |
| IJ | Elbow Padding Length | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | ± 1.0 |
| JK | Collar Width | 4 | 4 | 4 | 4 | 4 | 4 | ± 1.0 |
| KL | Neck Width (Zipped Collar) | 19 | 20 | 21 | 22 | 23 | 23 | ± 1.0 |
| LM | Bottom Hem | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | ± 0.5 |
| MN | Length of Zipper | 19 | 19 | 19 | 19 | 20 | 20 | ± 2.0 |
| OP | Length Of Sleeve Pocket From Pocket Flap | 17 | 17 | 17 | 17 | 17 | 17 | ± 0.5 |
| QR | Width Of Sleeve Pocket | 14 | 14 | 14 | 14 | 14 | 14 | ± 0.5 |

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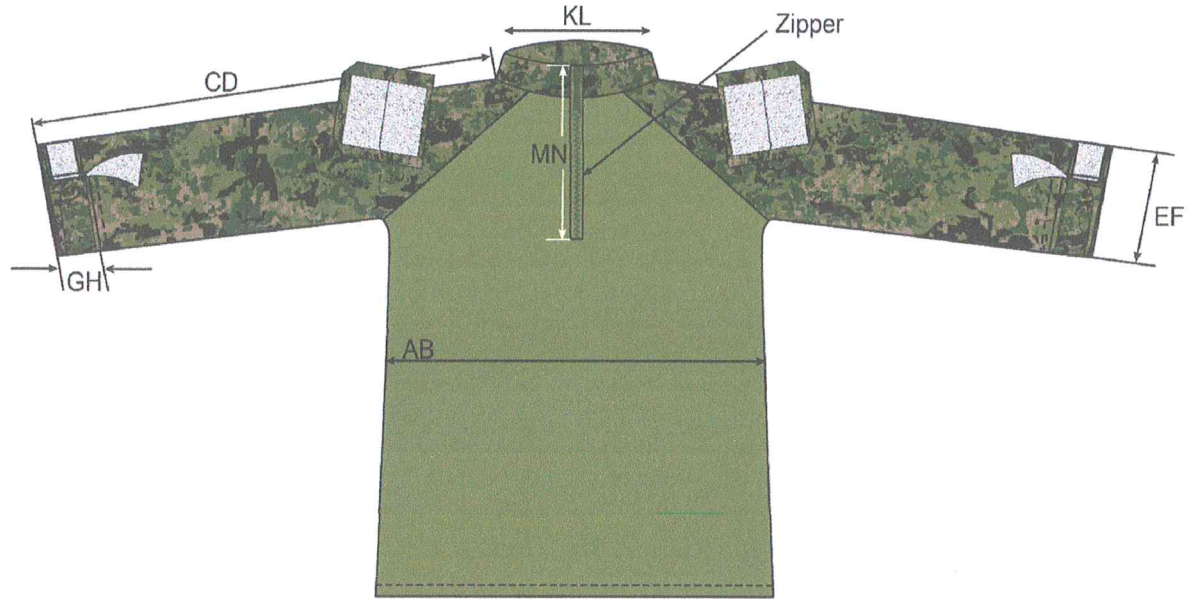
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Philippine Army Tactical Shirt, Polyester, Spandex



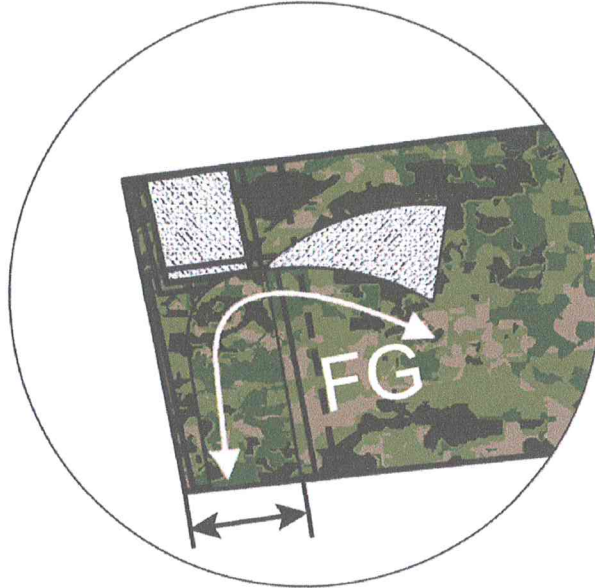
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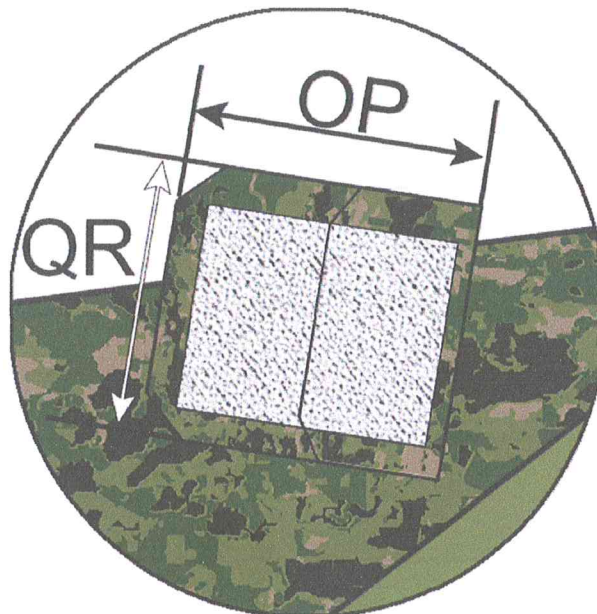
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Sleeve Pocket



Cuffs



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Fort Andres Bonifacio, Metro Manila

TEST PARAMETERS

PHILIPPINE ARMY TACTICAL SHIRT, POLYESTER, SPANDEX

| TEST PARAMETERS | QM SPEC NR IC-21PATSPS dtd 07 August 2022 | CLASSIFICATION OF DEFECTS | |
|--|---|---------------------------|-------|
| | | Major | Minor |
| Collar and Sleeves | | | |
| Basic Material, % | 85% ± 5 cotton and 15% ± 5 polyester | X | |
| Pattern | Shall be as specified in Para 2.2.1.1.1 | X | |
| Type of Weave | Twill with ripstop design | | X |
| Ripstop Design, cm (L x W) | 0.6 ± 0.1 x 0.6 ± 0.1 | | X |
| Thread Count/2.54cm | | | |
| Warp | 130 (minimum) | | X |
| Filling | 70 (minimum) | | X |
| Yarn Size, Denier (Fine) | | | |
| Warp | 160 (minimum) | | X |
| Filling | 160 (minimum) | | X |
| Yarn Size, Denier (Coarse) | | | |
| Warp | 600 (minimum) | | X |
| Filling | 750 (minimum) | | X |
| Weight, g/m ² | 200 (maximum) | | X |
| Thickness, mm | 0.30 – 0.35 | | X |
| Breaking Strength, kg | | | |
| Warp | 70 (minimum) | X | |
| Filling | 35 (minimum) | X | |
| Tearing Strength, kg | | | |
| Warp | 4.5 (minimum) | X | |
| Filling | 4.5 (minimum) | X | |
| Flex Abrasion Resistance (No. of cycles until rupture) | | | |
| Warp | 9,000 (minimum) | X | |
| Filling | 9,000 (minimum) | X | |
| Dimensional Change, % | | | |
| Warp | 3 (maximum) | X | |
| Filling | 3 (maximum) | X | |
| Colorfastness | AATCC Gray Scale Rating | | |
| Laundering | | | |
| Change in Color | Grade 4 (minimum) | X | |
| Staining | Grade 4 (minimum) | | X |
| Perspiration | | | |
| Change in Color | Grade 4 (minimum) | X | |
| Staining | Grade 4 (minimum) | | X |
| Color Quality (Color Difference) | 2.0 (maximum) | X | |

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| TEST PARAMETERS | QM SPEC NR IC-21PATSPS dtd 07 August 2022 | CLASSIFICATION OF DEFECTS | |
|----------------------------------|---|---------------------------|-------|
| | | Major | Minor |
| Body | 80% ± 5 Polyester and 20% ± 5 Spandex | X | |
| Color | Olive Drab | X | |
| Thread Count/2.54 cm | | | |
| Wales | 40 - 50 | | X |
| Courses | 60 - 70 | | X |
| Thickness, mm | 0.55 - 0.60 | | X |
| Weight, g/m ² | 185 (maximum) | | X |
| Type of Knit | Plain | X | |
| Color Quality (Color Difference) | 1.5 (maximum) Spectrophotometric Method | X | |
| Dimensional Change, % | ± 2 (maximum) | X | |
| Colorfastness | Change in Color Staining | | |
| Laundering | Grade 4 (minimum) Grade 3 (minimum) | X | |
| Perspiration | Grade 4 (minimum) Grade 4 (minimum) | X | |
| Thread, Sewing | Nylon or polyester | | X |
| Color | Olive Drab | X | |
| No of Ply | 2 (minimum) | | X |
| Breaking Strength, kg | 1 (minimum) | X | |
| Zipper | Nylon, No. 4, Olive Drab | X | |
| CONSTRUCTION | | | |
| Cutting | Shall be cut in accordance with the design shown in the attached illustration | X | |
| Body Width | Refer to Table of Sizes And Measurement | X | |
| Body Length | Refer to Table of Sizes And Measurement | X | |
| Flap, Sleeve Pocket | Shall be one piece cut from the material specified in para 2.2.1.1 of double thickness | X | |
| | Set and sewed with double rows of stitching to the correct form and size as illustrated | | X |
| | Shall have a finished depth of 4.5 ± 0.3 cm on both inner and outer edge, tapered on both sides as illustrated to form a depth of 6.0 ± 0.3 cm with a width corresponding to the width of the sleeve pocket | | X |
| | The front portion of the sleeve pocket flap shall be provided with olive drab Velcro tape (loop), 4.5 ± 0.3 cm wide and 9.5 ± 0.5 cm long, sewed along the bottom edge of the flap. The back portion of the sleeve pocket flap shall be provided with olive drab Velcro tape (hook), 2.5 ± 0.2 cm wide and 9.5 ± 0.5 cm long. | | X |
| | Shall be sewed 1.0 ± 0.2 cm above the top edge of the sleeve pocket. | | X |
| Pocket, Sleeve | Shall be one piece cut from the material specified in para 2.2.1.1 | X | |
| | Creased in with an edge-turning machine to ensure uniformity of size and shape | | X |
| | There shall have two (2) sleeve pockets set and sewed in diagonal position with double rows of stitching | X | |

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| TEST PARAMETERS | QM SPEC NR IC-21PATSPS dtd 07 August 2022 | CLASSIFICATION OF DEFECTS | |
|--|--|---------------------------|-------|
| | | Major | Minor |
| | It shall be provided with olive drab Velcro tape (loop), 9.5 ± 0.2 cm wide and 14.2 ± 0.5 cm long for attachment of patches | X | |
| Length of Sleeve Pocket from Pocket Flap | Refer to Table of Sizes And Measurement | X | |
| Width of Sleeve Pocket | Refer to Table of Sizes And Measurement | X | |
| Shoulder Sleeve Length | Refer to Table of Sizes And Measurement | X | |
| Arm Sleeve Length | Refer to Table of Sizes And Measurement | X | |
| Width of Sleeve Opening | Refer to Table of Sizes And Measurement | X | |
| Elbow Padding | The padding of the elbow shall be made from the same material as the sleeve and shall be creased in with an edge-turning machine to insure uniformity of size and shape. | X | |
| | The two (2) paddings are to be patched at the center of the elbow sleeves | X | |
| | Elbow padding shall be filled with fiberfill | | X |
| Elbow Padding Length | Refer to Table of Sizes And Measurement | | X |
| Elbow Padding Width | Refer to Table of Sizes And Measurement | | X |
| Cuffs | Shall be one piece cut from the basic material of double thickness | X | |
| | Formed to the correct size and shape with one end having a pointed extension and sewed with double rows of stitching along the edge of the sleeve opening sewed vertically as illustrated | | X |
| | Shall be provided with olive drab (OD) Velcro tape (hook), 5.0 ± 0.3 cm wide and 8.0 ± 0.5 cm long, sewed from the end of the pointed extension as illustrated | X | |
| | An olive drab Velcro tape (loop), 5.0 ± 0.3 cm wide and 10.0 ± 0.5 long, shall be sewed on the sleeve opening 5.5 ± 0.5 cm from the setting of the cuff for quick and easy adjustment. | X | |
| | The Velcro tape (loop) on the sleeve opening shall be aligned with Velcro tape (hook) on the cuffs. | X | |
| Width of Cuff | Refer to Table of Sizes And Measurement | X | |
| Length of Cuff | Refer to Table of Sizes And Measurement | X | |
| Bottom Hem | Refer to Table of Sizes And Measurement | | X |
| Collar Width | Refer to Table of Sizes And Measurement | X | |
| Neck Width | Refer to Table of Sizes And Measurement | X | |
| Length of Zipper | Refer to Table of Sizes And Measurement | X | |
| Design | The design of the finished Tactical Shirt shall be essentially the same as shown in Figures 1, 2 & 3 and the official sample of the Philippine Army | X | |

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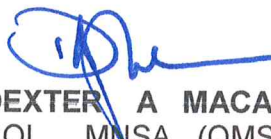
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| TEST PARAMETERS | QM SPEC NR IC-21PATSPS dtd 07 August 2022 | CLASSIFICATION OF DEFECTS | |
|---|---|---------------------------|-----------|
| | | Major | Minor |
| Contractor's Label with Washing Instruction | Shall have a Contractor's Label with Washing Instruction | X | |
| Location | Imprinted on the center of the inside back portion 2.5 ± 1.0 cm below the collar seam. | | X |
| Letterings | Using black paint, Arial font, size 12 | | X |
| Contents of Label | PHILIPPINE ARMY TACTICAL SHIRT, POLYESTER, SPANDEX Name of Contractor: Size: WASHING INSTRUCTION MACHINE WASHABLE / WASH WITH LIKE COLORS DO NOT BLEACH / TUMBLE DRY LOW / WARM IRON DO NOT DRY CLEAN | | X |
| Total Test Points | | 48 | 31 |

Prepared by:


GENER C CONTILLO
 MAJ (QMS) PA
 Chief, Plans & Research Branch

Recommend Approval:


DEXTER A MACASAET
 COL MNSA (QMS) PA
 Chief

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HEADQUARTERS
PHILIPPINE ARMY
OFFICE OF THE ARMY CHIEF QUARTERMASTER
Fort Andres Bonifacio, Metro Manila

PHILIPPINE ARMY TACTICAL SHIRT, POLESTER, SPANDEX
dated 07 August 2022

LIST OF REQUIRED PROTOTYPE SAMPLES AND SWATCH MATERIALS FOR
TESTING

1. POST QUALIFICATION TEST

SWATCH MATERIALS (Minimum requirement)

| | | | | |
|--------------------|---|---|---|-----------------------|
| Collar and Sleeves | - | - | - | 3 meters (full width) |
| Body | - | - | - | 3 meters (full width) |
| Thread, Sewing | - | - | - | 10 meters |

PROTOTYPE SAMPLES

Three (3) pcs Tactical Shirt - any size but the three (3) pcs must be of the same size.


2. ACCEPTANCE TEST

Four (4) pcs Tactical Shirt - Picked at random from the delivery

Prepared by:


GEN. C. CONTILLO
Major, (QMS) PA
Chief, Plans & Research Branch

Approved by:


DEXTER A. MACASAET
Colonel, MNSA (QMS) PA
Chief

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