

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

PA SPECIFICATION

QM SPEC NR IC-21USRRN

MAY 27 2019

Interim

UNDERSHIRT, RAGLAN, POLYESTER SPANDEX, ROUND NECK

1. SCOPE

1.1. Scope - This specification covers one type of Undershirt, Raglan, Polyester Spandex, Round Neck (*for brevity, undershirt*) and applicable for use of military personnel of the Philippine Army as undergarment on GOU or PHILARPAT, BDU or other authorized Army Uniform.

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

1.3. Sizes - Sizes and measurements of the finished undershirt are as shown in para 2.3.4.

2. REQUIREMENTS

2.1. First Article - Two samples of the finished undershirt submitted to the Office of Army Quartermaster shall be subjected to first article inspection in accordance with para 3.1.

2.2. Materials

2.2.1. The basic material of the T-Shirt shall be the following:

2.2.1.1. Front Part: The front part basic material shall be 85% \pm 5 polyester fabric and 15% \pm 5 Spandex, Olive Drab in color and shall conform to the following requirements:

| Thread Count/2.54 cm: | | | | | |
|--|---|---|---|---|-----------------|
| Wales | - | - | - | - | 45 - 55 |
| Courses | - | - | - | - | 80 - 90 |
| Thickness, mm | - | - | - | - | 0.43 - 0.47 |
| Weight, g/m ² : | - | - | - | - | 165 (maximum) |
| Type of Knit: | - | - | - | - | Plain |
| Absorbency, seconds | - | - | - | - | 2 (maximum) |
| Color Quality (Color Difference) Spectrophotometric Method: | - | - | - | - | 1.5 (maximum) |
| Dimensional Change, % | - | - | - | - | \pm 3 % (max) |

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| | | |
|--------------------------------|-----------------|---------------|
| Colorfastness | Change in Color | Staining |
| Laundering, rating - - - - - | Grade 4 (min) | Grade 4 (min) |
| Perspiration, rating - - - - - | Grade 4 (min) | Grade 4 (min) |

2.2.1.2. Back Part: The back part basic material shall be 90% ± 5 polyester fabric and 10% ± 5 Spandex, Olive Drab with design and shall conform to the following requirements:

| | | | | | |
|----------------------------------|---|---|---|---|---------------|
| Thread Count/2.54 cm: | | | | | |
| Wales | - | - | - | - | 60 - 70 |
| Courses | - | - | - | - | 110 – 120 |
| Thickness, mm | - | - | - | - | 0.38 - 0.42 |
| Weight, g/m ² : | - | - | - | - | 145 (maximum) |
| Type of Knit: | - | - | - | - | Plain |
| Absorbency, seconds | - | - | - | - | 2 (maximum) |
| Color Quality (Color Difference) | | | | | |
| Spectrophotometric Method: | - | - | - | - | 1.5 (maximum) |
| Dimensional Change, % | - | - | - | - | ± 3% (max) |

| | | |
|--------------------------------|-----------------|---------------|
| Colorfastness | Change in Color | Staining |
| Laundering, rating - - - - - | Grade 4 (min) | Grade 4 (min) |
| Perspiration, rating - - - - - | Grade 4 (min) | Grade 4 (min) |

2.2.2. Collaret - The fabric for the collaret shall be the same material as specified in para 2.2.1.1 with 1.0 - 1.5 cm wide.

2.2.3. Thread, Sewing – The thread to be used for all stitching and sewing operations shall be polyester of the same color and shade of the basic material and conform to the following requirements:

| | |
|-----------------------|-----------------|
| No of Ply | - 2.0 (minimum) |
| Yarn Size, denier | - 130 (minimum) |
| Breaking strength, kg | - 1.0 (minimum) |

2.2.4. Marking - The “ARMY” marking shall be printed on the left breast part of the T-shirt, Stencil font, size 100 using black paint. The location and distance of the marking shall be as follows:

Location and Distance of Marking (All Measurement in Centimeters)

| SIZES | Y | X |
|---------|--------------|------------|
| Small | 9.5 to 11.0 | 4.5 to 5.6 |
| Medium | 11.0 to 12.5 | 4.5 to 5.6 |
| Large | 11.0 to 12.5 | 4.5 to 5.6 |
| X-Large | 11.0 to 12.5 | 4.5 to 5.6 |



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2.3. Construction

2.3.1. Cutting – The undershirt shall be cut strictly in accordance with the design prescribed by this specification. All component parts shall be cut from the materials as specified in para 2.2.1. The body shall be in T-shirt type and raglan sleeve construction.

2.3.2. Measurements as to different sizes in centimeters:

| | | Small | Medium | Large | XL | XXL | XXXL | Tolerance |
|----|------------------------|-------|--------|-------|------|------|------|-----------|
| AB | Body Width | 48 | 50 | 53 | 56 | 60 | 64 | +/- 2.0 |
| BC | Body Length | 66 | 68 | 70 | 72 | 74 | 76 | +/- 2.0 |
| CD | Shoulder Sleeve Length | 34 | 35 | 36 | 37 | 38 | 39 | +/- 1.0 |
| DE | Sleeve Opening | 16 | 17 | 18 | 19 | 20 | 21 | +/- 1.0 |
| EF | Length of Sleeve | 10 | 11 | 12 | 13 | 14 | 15 | +/- 1.0 |
| FG | Neck Width | 11.5 | 12.5 | 13.5 | 14.5 | 15.5 | 16.5 | +/- 1.0 |
| GH | Neck Drop | 8.5 | 9 | 9.5 | 10 | 10.5 | 11 | +/- 0.5 |

2.4. Workmanship

2.4.1. Design - The undershirt shall be of the men’s pull over athletic type and of a design essentially the same as shown in the Figures 1 & 2 and the official sample of the Philippine Army.

2.4.2. Finish - The undershirt 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.

2.4.3. Contractor’s Label with Washing Instruction – The contractor’s label shall be printed on the inside back portion of the undershirt, 2.5 ± 0.5 cm below the collaret seam using Black paint, Arial font, Size 12. The contents of the label shall consist of the following:

UNDERSHIRT, RAGLAN, POLYESTER SPANDEX, ROUND NECK

Name of Contractor:

Size:

WASHING INSTRUCTION

MACHINE WASHABLE / WASH WITH LIKE COLORS

DO NOT BLEACH / TUMBLE DRY LOW / WARM IRON

DO NOT IRON DESIGN / DO NOT DRY CLEAN

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3. VERIFICATION

3.1. First Article Inspection – The two pieces samples of the finished undershirt 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

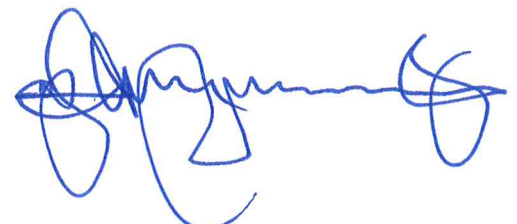
3.2.1. Samples of finished undershirt shall be taken at random during acceptance and shall be subjected to test evaluation at authorized agency/facility. In-process inspection shall be conducted when stipulated in the contract for the purpose of examination to determine compliance with the requirements 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.

4.3 Samples – The samples of the finished undershirt 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.



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5. PACKAGING AND PACKING

5.1 Packaging – Each undershirt shall be placed in a transparent (cellophane) bag with markings printed legibly on one face at the center portion of the bag using black indelible ink. The contents of the bag marking shall be as follows:

- UNDERSHIRT, RAGLAN, ROUND NECK
- Designed for undergarment

| Size | S | M | L | XL |
|-----------------|----|----|----|----|
| Body Width (cm) | 48 | 50 | 53 | 56 |

| Color |
|---|
| <input checked="" type="radio"/> Olive Drab |

Washing Instruction

- Hand Wash
- Do not bleach
- Hang dry but do not expose to direct sunlight

5.2 Packing – One hundred (100) pieces of the T-Shirt 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:

UNDERSHIRT, RAGLAN, ROUND NECK

Name of Contractor:

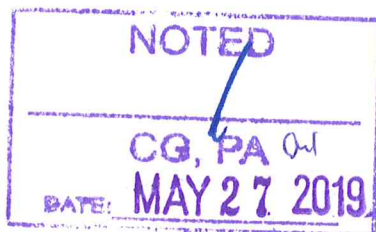
QTY: 100 pieces

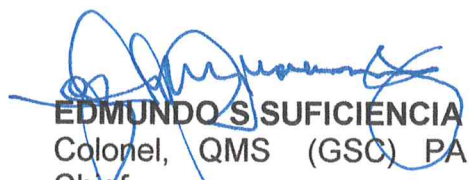
Color: Olive Drab

SIZE:

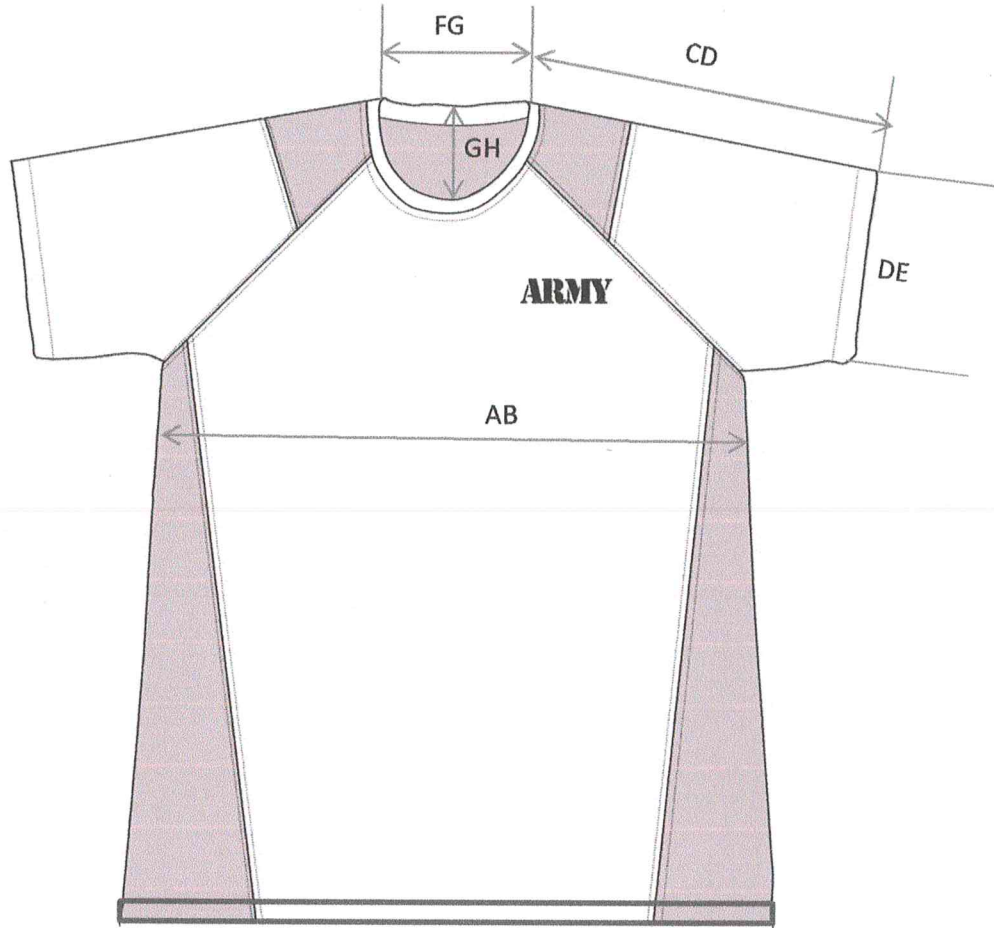
6. MISCELLANEOUS

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




EDMUNDO S. SUFICIENCIA
Colonel, QMS (GSC) PA
Chief

UNDERSHIRT, RAGLAN, ROUND NECK



Front View

Legend: Color



Olive Drab stated in Para 2.2.1.1



Olive Drab with Design stated in Para 2.2.1.2

FIGURE 1