HEADQUARTERS PHILIPPINE ARMY OFFICE OF THE ARMY QUARTERMASTER

Fort Andres Bonifacio, Metro Manila

PA SPECIFICATION

QM SPEC NR IC-21PAAU MAY 2 7 2019

Interim

PHILIPPINE ARMY ATHLETIC UNIFORM

1. SCOPE

- 1.1. Scope This specification covers one set of Athletic Uniform compose of T-Shirt and Short Pants for use of military personnel of the Philippine Army.
- 1.2. Grade The finished Athletic Uniform shall conform to the quality and grade of product prescribed by this specification.
- 1.3. Sizes Sizes and measurements of the finished Athletic Uniform are specified in Annex A.

2. REQUIREMENTS

2.1. First Article - Two (2) sets samples of the finished Athletic Uniform 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. T-Shirt

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

Thread Count/2.54 cm:

Wales - - - 45 - 55 Courses - - - 80 - 90

Thickness, mm - - - 0.50 - 0.54

Weight, g/m²: - - - 175 (maximum)

Type of Knit: - - - Plain

Absorbency, seconds - - 2 (maximum)

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Color Quality (Color Difference)

Spectrophotometric Method: -1.5 (maximum)

Dimensional Change, % - -± 2% (max)

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 85% ± 5 polyester fabric and 15% ± 5 Spandex, gray with design and shall conform to the following requirements:

Thread Count/2.54 cm:

Wales 60 - 70Courses 110 - 120

Thickness, mm 0.38 - 0.42

Weight, g/m²: 145 (maximum)

Type of Knit: Plain

Absorbency, seconds 2 (maximum)

Color Quality (Color Difference)

Spectrophotometric Method: -1.5 (maximum)

Dimensional Change, % - -± 2% (max)

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

- 2.2.1.3. Collaret - The fabric for the collaret shall be the same material as specified in para 2.2.1.1.
- 2.2.1.4. Thread, Sewing - The thread to be used for all sewing and stitching of the T-Shirt shall be polyester, Black in color, 2 ply (minimum) and 120 denier (minimum) with a minimum breaking strength of 1.0 kg.
- 2.2.1.5. Logo - PA logo shall be placed at the back of the T-Shirt 6 ± 0.5 cm from the upper edge of the collaret using gray reflective rubberized material by heat transfer process. The design and dimensions shall be as shown in Figure 3.

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2.2.1.6. ARMY Marking – The "ARMY" marking shall be placed on the left breast part of the T-Shirt, Stencil font, size 100 using gray reflective rubberized material by heat transfer process. The location and distance of the lettering shall be as follows:

| SIZES | Υ | Х | TOLERANCE (±) |
|--------|------|-----|------------------|
| SMALL | 9.0 | 5.4 | 0.5 |
| MEDIUM | 10.0 | 5.4 | 0.5 |
| LARGE | 10.0 | 5.4 | 0.5 |
| XL | 10.0 | 5.4 | 0.5 |

2.2.2. Short Pants

2.2.2.1. The basic material shall be made of 100% Nylon woven, Black and shall conform to the following requirements:

| Type of Weave | - | | - | Plain with Ripstop Design |
|--|--------|----|--------|---------------------------|
| Yarn Size, Denier | (Fine) | | | |
| Warp | - | | - | 60 (minimum) |
| Filling | - | - | - | 110 (minimum) |
| Yarn Size, Denier | (Cours | e) | | |
| Warp | _ | - | - | 200 (minimum) |
| Filling | - | ** | - | 230 (minimum) |
| Thickness, mm | _ | _ | _ | 0.20 - 0.25 |
| Weight, g/m2 | _ | - | _ | 100 (maximum) |
| Tensile Strength, I | (q | | | (, |
| Warp | _ | | - | 40 (minimum) |
| Filling | - | - | - | 20 (minimum) |
| Colorfastness | | | nge in | · · |
| Laundering, rating Perspiration, rating | | | | , , |
| Color Quality (Colo (Spectrophotome | | , | - | - 1.5 (maximum) |

2.2.2.2. Elastic Band – The elastic band for waistband shall be at least 3.5 cm wide. It shall have a maximum elongation of 3% after subjecting it to 100 stretches to a distance equal to its length at the rate of 4 stretches per minute and shall conform to the following requirements.

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Number of Strands- -

28 (minimum)

Number of ply

Warp -

2 (minimum)

Filling--

1 (minimum)

Breaking Strength, kg

Per strand

1.2 (minimum)

- 2.2.2.3. Draw Cord - The draw cord shall be made of braided polyester or nylon measuring 0.40 cm (minimum) in diameter, Black, with plastic reinforcement tips and shall conform to the length requirements prescribed in Annex A.
- 2.2.2.4. Thread - The thread to be used for all sewing and stitching operations of the short pants shall be polyester of the same color shade as the basic material, 2 ply (minimum), 120 denier (minimum) with a minimum breaking strength of 1.0 kg.
- 2.2.2.5. ARMY Marking - The "Army" marking shall be printed on the front left thigh part of the short pants using gray reflective rubberized material by heat transfer process, Stencil font, Size 100 as shown in Figure 2 and 3.
- Zipper The closure for the side pockets of the short 2.2.2.6. pants shall be made of nylon zipper No. 3 – 4.

2.3. Construction

- 2.3.1. Cutting The Athletic Uniform shall be cut strictly in accordance with the design as illustrated in Figures 1,2 & 3.
 - 2.3.2. Collaret The collaret shall have a width of 1.0 1.5 cm.
- 2.3.3. Waistband The waistband for the Short Pants shall be provided with elastic band as specified in para 2.2.2.2.
- 2.3.4. Side Pockets The side pocket shall be cut from the material prescribed in para 2.2.2.1, and sewn at the both sides of the short pants as illustrated in Figure 3. The finished side pocket shall have an opening of 14 ± 0.5 cm.
- 2.3.5. Draw Cord The draw cord shall be sewn on the center back portion of the waistband. There shall be two (2) outlets for both ends of the draw cord placed inside the front portion of waistband.
- 2.3.6. Side Slit The short pants shall be provided with side slit at the outer sides of both thighs with the measurements specified in Table 1. construction is as shown in Figure 2 & 3.

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- 2.3.7. Bottom Hem The bottom hem of the Short Pants shall have double rows of stitching.
- 2.3.8. Measurements as to different sizes of T-Shirt and Short Pants in centimeter (See Table 1 & 2).

2.4. Workmanship

- 2.4.1. Design The design of the finished athletic uniform 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 Athletic Uniform 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 label shall consist of the following:

PHILIPPINE ARMY ATHLETIC UNIFORM 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

- 2.4.3.1. T- Shirt The contractor's label with washing instruction shall be printed on the inside back portion of the t-shirt, 2.5 ± 1.0 cm below the collaret seam using gray paint, Arial font, Size 12.
- 2.4.3.2. Short Pants The contractor's label with washing instruction shall be printed on the outside portion of the right side pocket, using gray paint, Arial font, Size 12

3. VERIFICATION

3.1. First Article Inspection – The two sets samples of the finished Athletic Uniform 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.

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3.2. Sampling

3.2.1. Samples of finished Athletic Uniform 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 Athletic Uniform 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 set of Athletic Uniform 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:
 - PHILIPPINE ARMY ATHLETIC UNIFORM
 - Designed for Athletics

| Size, cm | S | M | L | XL | XXL | XXXL |
|-------------------|----|----|----|----|-----|------|
| Body Width (cm) | 46 | 48 | 50 | 53 | 56 | 60 |
| Waist Length (cm) | 29 | 30 | 32 | 34 | 36 | 38 |

Color
O Gray & Black

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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:

PHILIPPINE ARMY ATHLETIC UNIFORM

Name of Contractor:

QTY: 100 pieces

Color: 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) RA Chief

> CG, PA 0-1 BATE MAY 2 7 2019

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MEASUREMENTS AS TO DIFFERENT SIZES IN CENTIMETERS

TABLE 1 (T-SHIRT)

| | | 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 | 22 | 23 | 24 | 25 | 25 | 26 | +/- 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 |

TABLE 2 (SHORT PANTS)

| | | Small | Medium | Large | XL | XXL | XXXL | Tolerance ± |
|----|--|-------|--------|-------|-----|-----|------|----------------|
| | Waistline (Unstretched) | 29 | 30 | 32 | 34 | 36 | 38 | Minimum |
| | Waistline (Stretched) | 50 | 52 | 54 | 56 | 58 | 60 | Minimum |
| AB | Length of Outseam | 38 | 40 | 41 | 43 | 45 | 47 | 1.0 |
| вс | Perpendicular Rise (Waistband To Crotch) | 22 | 23 | 24 | 25 | 26 | 27 | 1.0 |
| CD | Length Of Inseam | 16 | 17 | 18 | 19 | 20 | 21 | 1.0 |
| DE | Width Of Hip (Measured 15 Cm From Top Of Waistband) | 53 | 55 | 57 | 59 | 61 | 63 | 2.0 |
| EF | Bottom Width | 31 | 32 | 33 | 34 | 35 | 36 | 1.0 |
| FG | Bottom Hem | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 0.2 |
| GH | Side Slit | 5 | 5 | 6 | 6 | 6 | 6 | 0.5 |
| HI | Print Placement | 5 | 5 | 7 | 7 | 8 | 8 | 0.5 |
| | Length of Drawcord | 120 | 120 | 120 | 120 | 120 | 120 | Minimum |

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MITTER SOLL POR

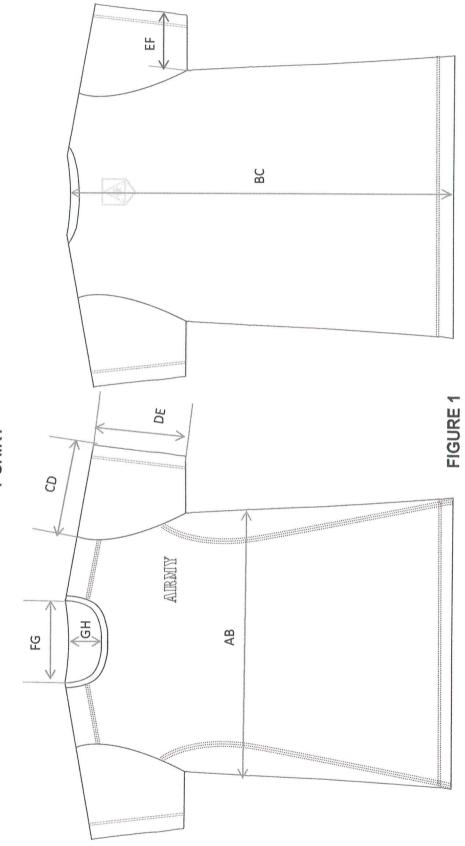
Showing.

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PHILIPPINE ARMY ATHLETIC UNIFORM

T-SHIRT



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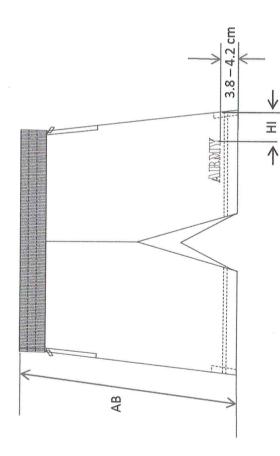
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Interim

PHILIPPINE ARMY ATHLETIC UNIFORM

SHORT PANTS

FRONT VIEW

BACK VIEW



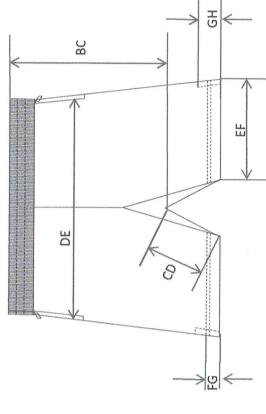


FIGURE 2





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PHILIPPINE ARMY ATHLETIC UNIFORM

SHORT PANTS

SIDE VIEW

4.5 ± 0.5 cm $1.5 \pm 0.2 \, cm$ PA LOGO for T-Shirt 5 ± 0.5 cm

> Side Slit Zipper ARMY Side Pocket (Inside)

FIGURE 3

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HEADQUARTERS PHILIPPINE ARMY OFFICE OF THE ARMY QUARTERMASTER

Fort Andres Bonifacio, Metro Manila

TEST PARAMETERS

PHILIPPINE ARMY ATHLETIC UNIFORM

| TEST PARAMETERS | QM SPEC NR IC-21PAAU | Classif | fication |
|----------------------------------|---|---------|---|
| | dated 27 May 2019 | Major | Mino |
| Materials | | | |
| T-Shirt (Front Part) | 85% ± 5 Polyester fabric and | V | |
| | 15% ± 5 Spandex | Х | |
| Color | Two (2) tone gray | Х | |
| Thread Count/2.54 cm | | | |
| Wales | 45 - 55 | | Х |
| Courses | 80 - 90 | | Х |
| Thickness, mm | 0.50 - 0.54 | Х | |
| Weight, g/m² | 175 (maximum) | Х | |
| Type of Knit | Plain | Х | |
| Absorbency, seconds (RDC method) | 2 (maximum) | | Х |
| Color Quality (Color Difference) | 1.5 (maximum) Spectrophotometric Method | Х | |
| Dimensional Change, % | ± 2% (max) | Х | - |
| Colorfastness | Change in Color Staining | | |
| Laundering | Grade 4 (minimum) Grade 4 (minimum) | Х | |
| Perspiration | Grade 4 (minimum) Grade 4 (minimum) | Х | |
| T-Shirt (Back Part) | 85% ± 5 Polyester fabric and | | |
| | 15% ± 5 Spandex | Х | |
| Color | Gray | Х | |
| Thread Count/2.54 cm | | | *************************************** |
| Wales | 60 - 70 | | Х |
| Courses | 110 - 120 | | Χ |
| Thickness, mm | 0.38 - 0.42 | Х | *************************************** |
| Weight, g/m² | 145 (maximum) | Х | |
| Type of Knit | Plain | Х | |
| Absorbency, seconds (RDC method) | 2 (maximum) | | Χ |
| Color Quality (Color Difference) | 1.5 (maximum) Spectrophotometric Method | Х | |
| Dimensional Change, % | ± 2% (max) | Х | |
| Colorfastness | Change in Color Staining | | ************ |
| Laundering | Grade 4 (minimum) Grade 4 (minimum) | Х | |
| Perspiration | Grade 4 (minimum) Grade 4 (minimum) | Х | |
| Lettering | With "ARMY" Lettering | Х | |
| Collaret | Shall be the same material as specified in para | X | |
| | 2.2.1.1. | ~ | |
| Thread, Sewing | Polyester | Х | |
| Color | Black | X | *************************************** |
| No. of Ply | 2 ply (minimum) | | X |
| Yarn Size, Denier | 120 (minimum) | | X |
| Breaking Strength, kg | 1 (minimum) | Х | |



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| PA Logo Location Shall be placed at the back of the T-Shirt 6 ± 0.5 cm from the upper edge of the collaret using gray reflective rubberized material by heat transfer process Design and Dimension The design and dimension of the logo shall be as illustrated in Figure 3 ARMY Marking Location and Distance Shall be placed on the left breast part of the T-Shirt with the following distances: Y and X using gray reflective rubberized material by heat transfer process Type & Size of Lettering Stencil font, Size 100 The design of the t-shirt shall be as illustrated in the specification Short Pants Color Black Xyam Size, Denier (Fine) Warp Filling Thickness, mm Quantum Filling Tensile Strength, kg Warp Fundaminaminaminaminaminaminaminaminaminamin | TEST DADAMETEDS | QM SPEC NR IC-21PAAU | Classi | Classification | | |
|--|--|--|--------|---|--|--|
| Color and Type of material Using gray reflective rubberized material by heat transfer process | TEST PARAMETERS | | Major | Mino | | |
| Color and Type of material Color and Type of material Color and Type of material Using gray reflective rubbenized material by heat transfer process Design and Dimension The design and dimension of the logo shall be as illustrated in Figure 3 ARMY Marking Location and Distance Shall be placed on the left breast part of the T-Shirt with the following distances: Y and X using gray reflective rubbenized material by heat transfer process Type & Size of Lettering Stencil font, Size 100 Design The design of the t-shirt shall be as illustrated in the specification Short Pants Color Short Pants 100% Nylon X Type of Weave Yam Size, Denier (Fine) Warp Filling 110 (minimum) Filling 230 (minimum) Thickness, mm 0.20 - 0.25 X Weight, g/m² 100 (maximum) Tensile Strength, kg Warp 40 (minimum) Filling 20 (minimum) Filling Colorfastness Change in Color Staining Laundering Grade 4 (minimum) Ferspiration Grade 4 (minimum) Ferspiration Grade 4 (minimum) Ferspiration Grade 4 (minimum) Fillorg Grade 4 (minimum) Fillorg Grade 4 (minimum) Fillorg Grade 4 (minimum) A Color Quality (Color Difference) Elastic Band Width, orn Elongation, % No. of Strands 28 (minimum) Filling 1 (minim | PA Logo | | | | | |
| Color and Type of material Design and Dimension The design and dimension of the logo shall be as illustrated in Figure 3 ARMY Marking Location and Distance Shall be placed on the left breast part of the T-Shirt with the following distances: Y and X using gray reflective rubberized material by heat transfer process Type & Size of Lettering Stencil font, Size 100 Design The design of the t-shirt shall be as illustrated in the specification Short Parts Color Short Parts Color Black X Type of Weave Plain with Ripstop Design Yam Size, Denier (Fine) Warp Filling 110 (minimum) Filling Thickness, mm 0.20 - 0.25 X Weight, g/m² Tensile Strength, kg Warp Aug Color Change in Color Staining Laundering Grade 4 (minimum) Grade 4 (minimum) Filling Color Guality (Color Difference) 1.5 (maximum) Fillon Thickness No. of Fly Warp Q (minimum) A (minimum) Breaking Strength, kg (Per strand) Draw Cord Braided polyester or nylon A (minimum) Braided polyester or nylon | Location | | | | | |
| Design and Dimension ARMY Marking Location and Distance Shall be placed on the left breast part of the T-Shirt with the following distances: Y and X using gray reflective rubberized material by heat transfer process. Type & Size of Lettering Design The design of the t-shirt shall be as illustrated in the specification Short Pants Color Short Pants Color Black Type of Weave Plain with Ripstop Design Yam Size, Denier (Fine) Warp Filling Thickness, mm O.20 - 0.25 Weight, g/m² Tensile Strength, kg Warp Laundering Color Quality (Color Difference) Flastic Band Width, cm Elongation, % No. of Strands No. of Ply Warp Prespiration Cord Daw Cord Diameter, cm Draw Cord Diameter, cm Pareidet in Figure 3 X X X X X X X X X X X X X | Color and Type of material | using gray reflective rubberized material b | у х | | | |
| ARMY Marking Location and Distance Shall be placed on the left breast part of the T-Shirt with the following distances: Y and X using gray reflective rubberized material by heat transfer process Type & Size of Lettering Design The design of the t-shirt shall be as illustrated in the specification Short Pants Color Black X Type of Weave Plain with Ripstop Design Yam Size, Denier (Fine) Warp Filling 110 (minimum) Filling Thickness, mm 0.20 - 0.25 Weight, g/m² 100 (maximum) Filling Yam Size, Denier (Course) Warp Forspiration Colorfastness Change in Color Staining Color Quality (Color Difference) Laundering Fillon Grade 4 (minimum) Forsile Band Width, cm 3.5 (minimum) X Color Quality (Color Difference) Pan Grade 4 (minimum) X No. of Strands A (Per strand) Pan Guinimum) X No. of Ply Warp Pan Guinimum A (Minimum) | | The design and dimension of the logo shall | be x | | | |
| Shirt with the following distances: Y and X Color and Type of material using gray reflective rubberized material by heat transfer process Stencil font, Size 100 Design The design of the t-shirt shall be as illustrated in the specification Short Pants 100% Nylon X Color Black X Type of Weave Plain with Ripstop Design Yam Size, Denier (Fine) Warp Filling 110 (minimum) Filling Parm Size, Denier (Course) Warp Filling 1200 (minimum) Filling 1300 (minimum) Filling 1300 (minimum) Thickness, mm 0.20 – 0.25 X Weight, g/m² 100 (maximum) X Tensile Strength, kg Warp 40 (minimum) Filling Colorfastness Change in Color Staining Laundering Grade 4 (minimum) Grade 4 (minimum) Ferspiration Grade 4 (minimum) Color Quality (Color Difference) Elastic Band Width, cm 1.5 (maximum) Spectrophotometric Method X Elastic Band Width, cm 1.5 (maximum) Filling Reaking Strength ,kg (Per strand) Draw Cord Braided polyester or nylon X Draw Cord Braided polyester or nylon X Draw Cord Braided polyester or nylon X Diameter, cm O 40 (minimum) X Draw Cord Braided polyester or nylon X Diameter, cm O 40 (minimum) X | | | | | | |
| Color and Type of material Type & Size of Lettering Stencil font, Size 100 Short Pants Color Type of Weave Yam Size, Denier (Fine) Warp Filling Thickness, mm Warp Tensile Strength, kg Warp Tensile Strength, kg Warp Golorfastness Colorfastness C | Location and Distance | | | | | |
| Type & Size of Lettering Design The design of the t-shirt shall be as illustrated in the specification Short Pants Color Black Type of Weave Yam Size, Denier (Fine) Warp Filling Thickness, mm Color Tesile Strength, kg Warp Go (minimum) Filling Tensile Strength, color as a color aclar definition of Staining Laundering Perspiration Color Quality (Color Difference) Elastic Band Width, cm Elongation, % No. of Strands No. of Ply Warp Quench fine design of the t-shirt shall be as illustrated in the specification Ax in the specification Ax in the specification Ax In the specification Ax Black Ax Ax Plain with Ripstop Design Ax Ax Blanck Blanck Ax Blanck Ax Blanck Ax Blanck Ax Blanck | Color and Type of material | using gray reflective rubberized material b | | | | |
| The design of the t-shirt shall be as illustrated in the specification | Type & Size of Lettering | | | X | | |
| Short Pants 100% Nylon x Color Black x Type of Weave Plain with Ripstop Design x Yam Size, Denier (Fine) 60 (minimum) Warp 60 (minimum) Filling 110 (minimum) Yam Size, Denier (Course) 200 (minimum) Warp 200 (minimum) Filling 230 (minimum) Thickness, mm 0.20 – 0.25 x Weight, g/m² 100 (maximum) x Tensile Strength, kg 40 (minimum) x Warp 40 (minimum) x Filling 20 (minimum) x Colorfastness Change in Color Staining Laundering Grade 4 (minimum) Grade 4 (minimum) x Perspiration Grade 4 (minimum) Grade 4 (minimum) x Color Quality (Color Difference) 1.5 (maximum) Spectrophotometric Method x Elastic Band 3 (maximum) x Width, cm 3.5 (minimum) x Elongation, % 3 (maximum) | | The design of the t-shirt shall be as illustra | ted x | | | |
| Color Type of Weave Plain with Ripstop Design X Yam Size, Denier (Fine) Warp Filling Parn Size, Denier (Course) Warp Filling Yam Size, Denier (Course) Warp Filling Pilling Pilling Pilling Pilling Pilling Pilling Pilling Pilling Parn Size, Denier (Course) Warp Filling Pilling Pilling Parn Size, Denier (Course) Warp Pilling Pilling Parn Size, Denier (Course) Warp Pilling Parn Size, Denier (Course) Warp Pilling Parn Size, Denier (Course) Warp Pilling Parn Size, Denier (Course) X Warp Parn Size, Denier (Course) X Weight, g/m² Parn Size, Denier (Course) X Weight, g/m² Parn Size, Denier (Course) X Weight, g/m² Parn Size, Denier (Course) X Nooffstrength, kg Warp Parn Size, Denier (Course) Salor (Minimum) Parn Size, Denier (Search Size) X X X Authorization Authorization X X Authorization Salor (Minimum) X Authorization X Salor (Minimum) X No. of Strands No. of Strands No. of Ply Warp Parn Size, Denier (Search Size) Authorization X Authorization Authorization X Authorization Authorization X Authorization Authorization X Authorization Authori | Short Pants | | X | | | |
| Type of Weave Yam Size, Denier (Fine) Warp Filling 110 (minimum) Filling Yam Size, Denier (Course) Warp Filling 1200 (minimum) Filling Thickness, mm Parsile Strength, kg Warp Filling 100 (maximum) Thickness, mm Parsile Strength, kg Warp Filling Tensile Strength, kg Warp Tensile Strength, kg | Color | | | | | |
| Yam Size, Denier (Fine) Warp Filling Tam Size, Denier (Course) Warp Size, Denier (Course) Warp Pilling Pill | Type of Weave | | | | | |
| Warp Filling Strength, kg Warp Follor (Course) Warp Filling Fi | Yarn Size, Denier (Fine) | , , , , , , , , , , , , , , , , , , , | | | | |
| Filling Yarn Size, Denier (Course) Warp Filling Thickness, mm Thickness, mm Thickness, mm Tensile Strength, kg Warp Filling Colorfastness Change in Color Filling Color Quality (Color Difference) Elastic Band Width, cm Elongation, % No. of Strands No. of Ply Warp Warp Tensile Strength, kg Warp A0 (minimum) Filling Color Maximum Color Staining Change in Color Staining Crade 4 (minimum) Filling Crade 4 (minimum) Filling Color Quality (Color Difference) The side of the s | | 60 (minimum) | | Χ | | |
| Yarn Size, Denier (Course) 200 (minimum) Warp 230 (minimum) Filling 230 (minimum) Thickness, mm 0.20 – 0.25 x Weight, g/m² 100 (maximum) x Tensile Strength, kg 40 (minimum) x Warp 40 (minimum) 5 Filling 20 (minimum) 5 Colorfastness Change in Color Staining Laundering Grade 4 (minimum) Grade 4 (minimum) x Perspiration Grade 4 (minimum) Grade 4 (minimum) x Color Quality (Color Difference) 1.5 (maximum) Spectrophotometric Method x Elastic Band 3.5 (minimum) x Width, cm 3.5 (minimum) x Elongation, % 3 (maximum) x No. of Strands 28 (minimum) x No. of Ply 2 (minimum) x Warp 2 (minimum) x Filling 1 (minimum) x Breaking Strength ,kg (Per strand) 1.2 (minimum) x Diameter, cm 0.40 (minimum) x </td <td>Filling</td> <td></td> <td></td> <td>X</td> | Filling | | | X | | |
| Warp 200 (minimum) Filling 230 (minimum) Thickness, mm 0.20 – 0.25 x Weight, g/m² 100 (maximum) x Tensile Strength, kg ** Warp 40 (minimum) x Filling 20 (minimum) ** Colorfastness Change in Color Staining Laundering Grade 4 (minimum) Grade 4 (minimum) x Perspiration Grade 4 (minimum) Grade 4 (minimum) x Color Quality (Color Difference) 1.5 (maximum) Spectrophotometric Method X Elastic Band ** ** Width, cm 3.5 (minimum) x Elongation, % 3 (maximum) x No. of Strands 28 (minimum) x No. of Ply ** ** Warp 2 (minimum) x Filling 1 (minimum) x Breaking Strength ,kg (Per strand) 1.2 (minimum) x Diameter, cm 0.40 (minimum) x | Yarn Size, Denier (Course) | | | | | |
| Filling 230 (minimum) Thickness, mm 0.20 – 0.25 x Weight, g/m² 100 (maximum) x Tensile Strength, kg Warp 40 (minimum) Filling 20 (minimum) Colorfastness Change in Color Staining Laundering Grade 4 (minimum) Grade 4 (minimum) x Perspiration Grade 4 (minimum) Grade 4 (minimum) x Color Quality (Color Difference) 1.5 (maximum) Spectrophotometric Method X Elastic Band Width, cm 3.5 (minimum) Elongation, % 3 (maximum) x No. of Strands 28 (minimum) x No. of Ply Warp 2 (minimum) Filling 1 (minimum) Breaking Strength ,kg (Per strand) 1.2 (minimum) Draw Cord Braided polyester or nylon x Diameter, cm 0.40 (minimum) x | | 200 (minimum) | | Χ | | |
| Thickness, mm O.20 – 0.25 Weight, g/m² Tensile Strength, kg Warp Filling Colorfastness Change in Color Laundering Ferspiration Color Quality (Color Difference) Elastic Band Width, cm Elongation, % No. of Strands No. of Ply Warp Filling Strength, kg O.20 – 0.25 X 100 (maximum) X Change in Color Staining Grade 4 (minimum) Grade 4 (minimum) X Tomaximum) Spectrophotometric Method X Staining A (minimum) X A (maximum) X A (maximum) X A (maximum) X A (maximum) A (minimum) A (minimum) Filling A (minimum) Breaking Strength, kg (Per strand) Draw Cord Braided polyester or nylon A (minimum) A (minimum) A | Filling | | | X | | |
| Weight, g/m² 100 (maximum) x Tensile Strength, kg Warp 40 (minimum) Warp 40 (minimum) Filling Colorfastness Change in Color Staining Laundering Grade 4 (minimum) Grade 4 (minimum) Perspiration Grade 4 (minimum) x Color Quality (Color Difference) 1.5 (maximum) Spectrophotometric Method x Elastic Band Width, cm 3.5 (minimum) x Elongation, % 3 (maximum) x No. of Strands 28 (minimum) x No. of Ply 2 (minimum) x Warp 2 (minimum) x Filling 1 (minimum) x Breaking Strength ,kg (Per strand) 1.2 (minimum) x Diameter, cm 0.40 (minimum) x | To the second se | | X | | | |
| Tensile Strength, kg Warp Filling Colorfastness Change in Color Staining Laundering Grade 4 (minimum) Ferspiration Color Quality (Color Difference) Lastic Band Width, cm Elongation, % No. of Strands No. of Ply Warp Filling Warp Filling Breaking Strength ,kg (Per strand) Draw Cord Dimeter, cm Au (minimum) Au (minimum) Staining Au (minimum) | Weight, g/m ² | 100 (maximum) | | | | |
| Warp 40 (minimum) Filling 20 (minimum) Colorfastness Change in Color Staining Laundering Grade 4 (minimum) Grade 4 (minimum) x Perspiration Grade 4 (minimum) Grade 4 (minimum) x Color Quality (Color Difference) 1.5 (maximum) Spectrophotometric Method X Elastic Band Width, cm 3.5 (minimum) x Elongation, % 3 (maximum) x No. of Strands 28 (minimum) x No. of Ply Warp 2 (minimum) Filling 1 (minimum) Breaking Strength ,kg (Per strand) 1.2 (minimum) x Draw Cord Braided polyester or nylon x Diameter, cm 0.40 (minimum) x | | | | | | |
| Filling 20 (minimum) Colorfastness Change in Color Staining Laundering Grade 4 (minimum) Grade 4 (minimum) x Perspiration Grade 4 (minimum) Grade 4 (minimum) x Color Quality (Color Difference) 1.5 (maximum) Spectrophotometric Method x Elastic Band Width, cm 3.5 (minimum) x Elongation, % 3 (maximum) x No. of Strands 28 (minimum) x No. of Ply Warp 2 (minimum) Filling 1 (minimum) Breaking Strength ,kg (Per strand) 1.2 (minimum) x Draw Cord Braided polyester or nylon x Diameter, cm 0.40 (minimum) | | 40 (minimum) | | Χ | | |
| Colorfastness Change in Color Staining Laundering Grade 4 (minimum) Grade 4 (minimum) Perspiration Grade 4 (minimum) Grade 4 (minimum) Color Quality (Color Difference) 1.5 (maximum) Spectrophotometric Method Width, cm Slongation, % 3.5 (minimum) Elongation, % 3.6 (minimum) X No. of Strands 28 (minimum) No. of Ply Warp Silling Warp 1 (minimum) Filling Filling Freaking Strength ,kg (Per strand) Draw Cord Braided polyester or nylon X Dameter, cm O.40 (minimum) X | | | | X | | |
| Laundering Grade 4 (minimum) Grade 4 (minimum) x Perspiration Grade 4 (minimum) Grade 4 (minimum) x Color Quality (Color Difference) 1.5 (maximum) Spectrophotometric Method x Elastic Band Width, cm 3.5 (minimum) x Elongation, % 3 (maximum) x No. of Strands 28 (minimum) x No. of Ply 2 (minimum) Filling 1 (minimum) Breaking Strength ,kg (Per strand) 1.2 (minimum) x Draw Cord Braided polyester or nylon x Diameter, cm 0.40 (minimum) x | | | | | | |
| Perspiration Grade 4 (minimum) Grade 4 (minimum) x Color Quality (Color Difference) 1.5 (maximum) Spectrophotometric Method X Elastic Band | Laundering | |) v | | | |
| Color Quality (Color Difference) 1.5 (maximum) Spectrophotometric Method Width, cm Slongation, % No. of Strands No. of Ply Warp Filling Filling Breaking Strength ,kg (Per strand) Diameter, cm O.40 (minimum) X 1.5 (maximum) X X 2 (minimum) X X A (maximum) X X A (maximum) X X A (maximum) X X A (minimum) A (| | | , | | | |
| Width, cm S.5 (minimum) Elongation, % No. of Strands No. of Ply Warp Filling Breaking Strength ,kg (Per strand) Diameter, cm 3.5 (minimum) X X 28 (minimum) X X 28 (minimum) X X 29 (minimum) X 10 (minimum) X 11 (minimum) X 11 (minimum) X 12 (minimum) X 13 (maximum) X X X X X X X X X X X X X X X X X X X | | | / | | | |
| Width, cm Elongation, % No. of Strands No. of Ply Warp Filling Breaking Strength ,kg (Per strand) Diameter, cm 3.5 (minimum) x 2 (minimum) x 1 (minimum) x Draw Cord Braided polyester or nylon x 0.40 (minimum) x | Elastic Band | 1.5 (maximum) opecatophotometric metric | u l | | | |
| Elongation, % No. of Strands No. of Ply Warp Filling Breaking Strength ,kg (Per strand) Draw Cord Diameter, cm Strands 3 (maximum) x 2 (minimum) x 2 (minimum) 1 (minimum) x Draw Cord Braided polyester or nylon x | | 3.5 (minimum) | | V | | |
| No. of Strands No. of Ply Warp Filling Breaking Strength ,kg (Per strand) Draw Cord Diameter, cm Diameter, cm Diameter, cm 28 (minimum) 2 (minimum) X Braided polyester or nylon X | | | | Х | | |
| No. of Ply Warp 2 (minimum) Filling 1 (minimum) Breaking Strength ,kg (Per strand) 1.2 (minimum) x Draw Cord Braided polyester or nylon x Diameter, cm 0.40 (minimum) x | | | | | | |
| Warp 2 (minimum) Filling 1 (minimum) Breaking Strength ,kg (Per strand) 1.2 (minimum) x Draw Cord Braided polyester or nylon x Diameter, cm 0.40 (minimum) x | | 20 (ПІПІПИПІ) | | | | |
| Filling 1 (minimum) Breaking Strength ,kg (Per strand) 1.2 (minimum) x Draw Cord Braided polyester or nylon x Diameter, cm 0.40 (minimum) x | | 2 (minimum) | | Х | | |
| Breaking Strength ,kg (Per strand) 1.2 (minimum) X Draw Cord Braided polyester or nylon X Diameter, cm 0.40 (minimum) X | | | | X | | |
| Draw CordBraided polyester or nylonxDiameter, cm0.40 (minimum)x | | | | ^ | | |
| Diameter, cm 0.40 (minimum) x | | | | | | |
| | | | | *************************************** | | |
| | Color | Black | X | | | |
| Plastic Reinforcement Tips With plastic reinforcement tips x | | | | | | |





Page 2 of 4 Honor. Patriotism. Duty.

| TEOT DADAMETEDO | QM SPEC NR IC-21PAAU | Classification | | |
|----------------------------|---|----------------|---|--|
| TEST PARAMETERS | dated 27 May 2019 | Major | Mino | |
| Thread, Sewing | Polyester | | Х | |
| Color | Same color shade as the basic material | X | | |
| No. of Ply | 2 ply (minimum) | | Х | |
| Yarn Size, Denier | 120 (minimum) | | Х | |
| Breaking Strength, kg | 1 (minimum) | Х | | |
| ARMY Marking | | | | |
| Location and Distance | Shall be printed on the front left part of the short pants | Х | | |
| Color and Type of material | using gray reflective rubberized material by heat transfer process | Х | | |
| Type & Size of Lettering | Stencil font, Size 100 | | Х | |
| Zipper for side pockets | Nylon | | Х | |
| Size | 3 - 4 | Х | *************************************** | |
| Design | The design of the short pants shall be as illustrated in Figures 2 and 3 | Х | | |
| Contractor's Label | With contractor's label | Х | | |
| T-Shirt | | | | |
| Location | Shall be printed inside back portion of the Athletic Uniform, 2.5 ± 0.5 cm below the collaret seam | Х | | |
| Type of Ink | Gray paint | | Х | |
| Type & Size of Lettering | Arial font, Size 12 | | X | |
| Contents of Label | PHILIPPINE ARMY ATHLETIC UNIFORM 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 CLE AN | | Х | |
| Short Pants | | | | |
| Location | Shall be printed outside portion of the right side pocket | х | 1,1 | |
| Type of Ink | Gray paint | | Х | |
| Type & Size of Lettering | Arial font, Size 12 | | Х | |
| Contents of Label | PHILIPPINE ARMY ATHLETIC UNIFORM Name of Contractor: Size: WASHING INSTRUCTION | | X | |
| | MACHINE WASHABLE / WASH WITH LIKE COLORS DO NOT BLEACH / TUMBLE DRY LOW / WARM IRON DO NOT IRON DESIGN / DO NOT DRY CLEAN | | | |
| Construction | | | | |
| Collaret | Shall have a width of 1.0 – 1.5 cm | Х | | |
| Waistband | shall be provided with elastic band as specified in para 2.2.2.2 | | X | |





Page 3 of 4 Honor. Patriotism. Duty.

| | QM SPEC NR IC-21PAAU | Classification | | |
|-----------------------------------|--|----------------|--|--|
| TEST PARAMETERS | dated 27 May 2019 | Major | Minor | |
| Side Pockets of short pants | same as the basic material | Х | | |
| Location | sewn at the both sides of the short pants as illustrated in Figure 2 & 3 | Х | | |
| Draw Cord | Shall be sewn on the center back portion of the waistband | Х | | |
| | There shall be two (2) outlets for both ends of the draw cord placed inside the front portion of waistband | Х | | |
| Side Slit | Shall be provided with side slit at the outer sides of both thighs | Х | | |
| Bottom Hem | The bottom hem of the short pants shall have double rows of stitching. | | Х | |
| Size and Measurements, cm | Size: | | | |
| T-Shirt | | | 2 | |
| Body Width | | Х | | |
| Body Length | | Х | | |
| Shoulder Sleeve Length | See page 8, Measurements as to Different Sizes in Centimeters | | | |
| Sleeve Opening | | | | |
| Sleeve Length | Table 1 (T-Shirt) | Х | | |
| Neck Width | | Х | | |
| Neck Drop | | Х | | |
| Width of Hem | 2.5 ± 0.2 | | Х | |
| Size and Measurements, cm | Size: | | | |
| Short Pants | | | | |
| Waistline (unstretched) | | Х | | |
| Waistline (stretched) | | Х | | |
| Length of Outseam | | Х | | |
| Perpendicular Rise (waistband to | Soo page 8 Massurements as to Different | | | |
| crotch) | See page 8, Measurements as to Different Sizes in Centimeters | | | |
| Length of Inseam | Table 2 (Short Pants) | Х | | |
| Width of Hip (measured 15 cm from | Table 2 (offort Faire) | | | |
| top of waistband) | | | | |
| Bottom Width | | Х | ************************************** | |
| Bottom Hem | _ | X | | |
| Side Slit | _ | | Х | |
| Print Placement | 4 | | X | |
| Length of Drawcord | | Х | | |
| | TOTAL TEST POINTS | 75 | 34 | |

Colonel Chief (QMS)



HEADQUARTERS PHILIPPINE ARMY OFFICE OF THE ARMY QUARTERMASTER

Fort Andres Bonifacio, Metro Manila

PHILIPPINE ARMY ATHLETIC UNIFORM

QM SPEC NR IC-21PAAU dtd 27 May 2019 VISUAL INSPECTION CHECKLIST

| DESCRIPTION OF DEFECTS | CLASIFICATION OF DEFECTS |
|---|--------------------------|
| Packing and Packaging | |
| a. One (1) set of T-Shirt and short pants with matching size shall be properly folded and placed in a transparent/cellophane bag. | Minor |
| Each bag shall have a markings as shown in the specification printed legibly on one face at the center portion of the bag using black indelible ink | Major |
| One hundred (100) pieces of T-Shirt and short pants of the same sizes shall be packed in a corrugated carton. | Major |
| The top cover when closed shall be sealed with a binding tape and finally secured with nylon straps. | Minor |
| e. Contents of carton label shall be as specified | Minor |
| Not a combination of gray and black color | Major |
| T-Shirt | |
| The basic material of the collaret shall be the same with the fabric of the back part PA logo | Major |
| a. Shall have a "PA logo" | Major |
| b. Placed at the back of the T-Shirt. | Major |
| c. Using gray reflective material by heat transfer process | Major |
| d. Shall be the same as illustrated in the specification. | Minor |
| 5. ARMY lettering: | |
| a. Shall have an ARMY lettering | Major |
| Placed at the left breast part of the T-Shirt using gray reflective material by heat transfer process | Major |
| The design of the T-Shirt shall be essentially the same as the official sample of the Philippine Army. | Major |
| 7. Contractor's label and washing instruction | |
| Shall be as specified in the specification | Major |
| b. Printed on the inside back portion of the T-Shirt bellow the collaret seam using | Major |
| gray paint | |
| Short Pants | |
| 8. Shall be black in color | Major |
| 9. Any component part missing: | |
| a. Draw cord, black in color | Major |
| b. Side Slit | Major |
| c. Side Pockets | Major |

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Honor. Patriotism. Duty.

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| DESCRIPTION OF DEFECTS | CLASIFICATION OF DEFECTS |
|---|--------------------------|
| 10. ARMY marking | |
| a. Provided with ARMY marking | Major |
| b. Printed at the left thigh part of the short pants | Minor |
| c. Using gray reflective rubberized material by heat transfer process | Major |
| 11. The design of the short pants shall be essentially the same as the official sample of | Major |
| the Philippine Army. | |
| 12. Contractor's label and washing instruction | |
| a. Shall be as specified in the specification | Major |
| b. Printed on the outside portion of the right side pocket, using gray paint, | Major |
| 13. Loose sewing/Untrimmed thread ends | Minor |
| 14. Presence of dirt, stains and other defects: | |
| a. Affecting appearance | Major |
| b. Does not affect appearance | Minor |

Note: Finished Athletic Uniform shall conform with the illustration and the Official sample of the Philippine Army. Any discrepancy shall be considered as ground for non-acceptance.

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

PHILIPPINE ARMY ATHLETIC UNIFORM QM SPEC NR IC-21PAAU dtd 27 May 2019

LIST OF REQUIRED PROTOTYPE SAMPLES AND SWATCH MATERIALS FOR **TESTING**

1. FOR POST QUALIFICATION TEST

PROTOTYPE SAMPLES

RDC - Three (3) sets, any size but the three (3) sets must be of same sizes

SWATCH MATERIALS (Minimum requirement)

Basic Material for T-Shirt

Front Part

- 2 m (full width)

Back Part

- 2 m (full width)

Basic Material for Short Pants

- 2 m (full width)

Elastic Band

- 1 m

Thread, Sewing

10 m

2. FOR ACCEPTANCE TEST

Three (3) sets, any size but the three (3) sets must be of same sizes-Picked at random from delivery.

(GSC)



