

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

PA SPECIFICATION

QM SPEC NR IC-21PAAU

MAY 27 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
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Weight, g/m <sup>2</sup> :	-	-	-	-	175 (maximum)
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Type of Knit:	-	-	-	-	Plain
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Absorbency, seconds	-	-	-	-	2 (maximum)
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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	Y	X	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 (Course)

Warp - - - 200 (minimum)  
Filling - - - 230 (minimum)

Thickness, mm - - - 0.20 – 0.25

Weight, g/m2 - - - 100 (maximum)

Tensile Strength, kg

Warp - - - 40 (minimum)  
Filling - - - 20 (minimum)

Colorfastness

Change in Color

Staining

Laundering, rating - - - - - Grade 4 (min) Grade 4 (min)

Perspiration, rating - - - - - Grade 4 (min) Grade 4 (min)

Color Quality (Color Difference) - - - 1.5 (maximum)  
(Spectrophotometric Method)

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.

2.2.2.6. Zipper - The closure for the side pockets of the short 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.

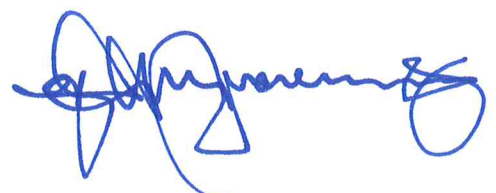
2.3.2. Collaret – The collaret shall have a width of 1.0 – 1.5 cm.

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  $14 \pm 0.5$ 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. The 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**

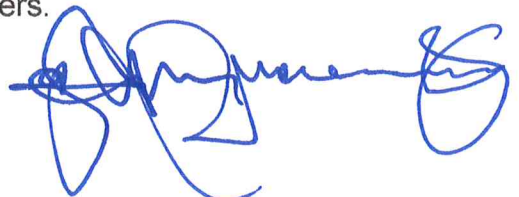
**MACHINE WASHABLE / WASH WITH LIKE COLORS  
DO NOT BLEACH / TUMBLE DRY LOW / WARM IRON  
DO NOT IRON DESIGN / DO NOT DRY CLEAN**

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,  $2.5 \pm 1.0$  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
<input checked="" type="radio"/> 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:

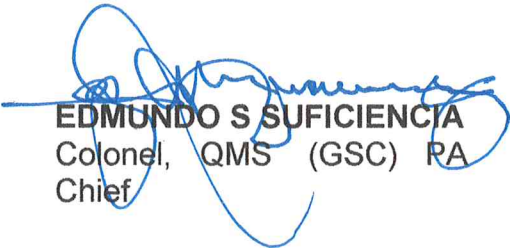
QTY: 100 pieces

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) PA  
Chief



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MEASUREMENTS AS TO DIFFERENT SIZES IN CENTIMETERS

TABLE 1  
(T-SHIRT)

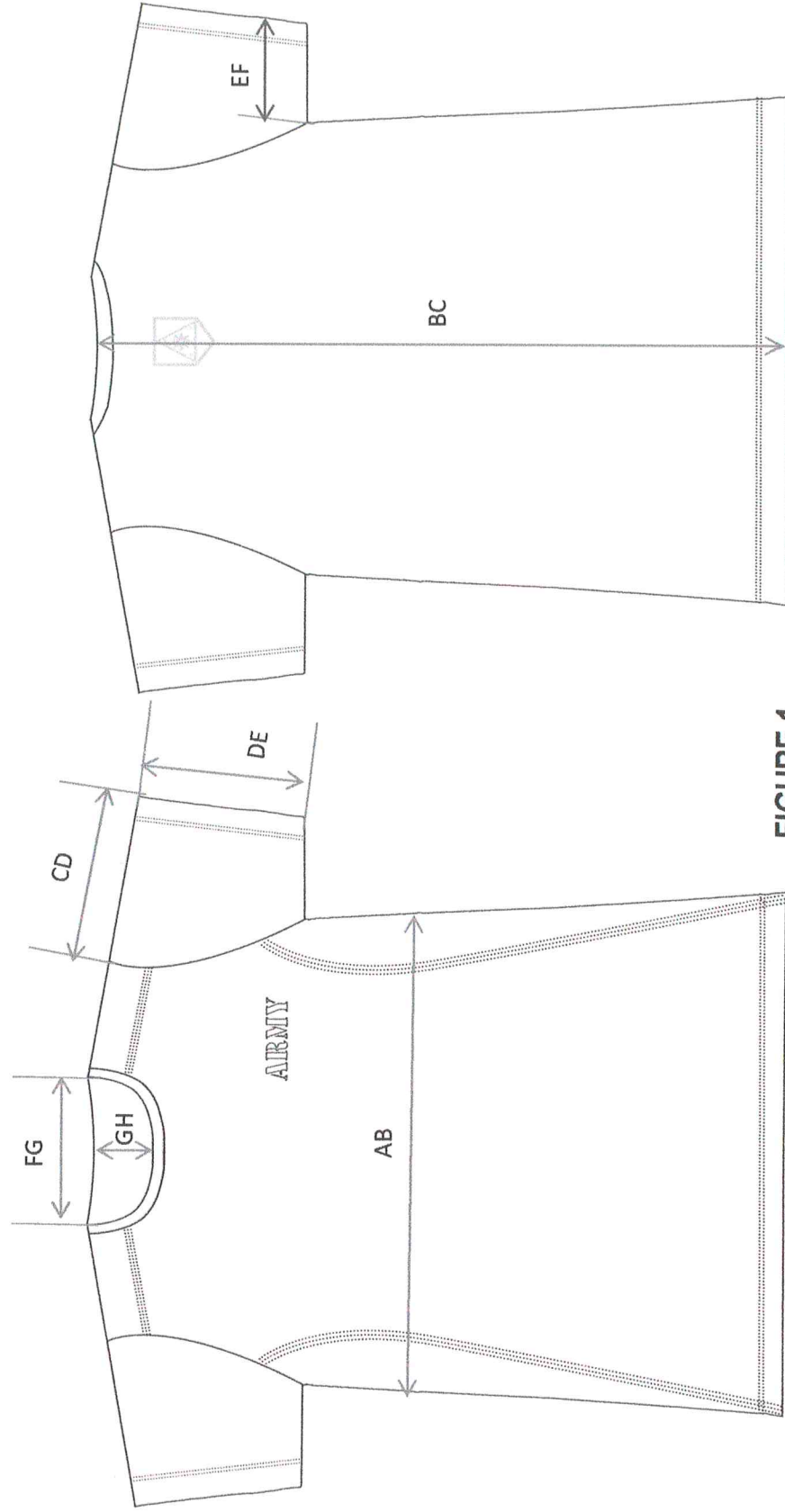
		Small	Medium	Large	XL	XXL	XXXL	Tolerance
AB	Body Width	48	50	53	56	60	64	+/- 2.0
BC	Body Length	66	68	70	72	74	76	+/- 2.0
CD	Shoulder Sleeve Length	22	23	24	25	25	26	+/- 1.0
DE	Sleeve Opening	16	17	18	19	20	21	+/- 1.0
EF	Length of Sleeve	10	11	12	13	14	15	+/- 1.0
FG	Neck Width	11.5	12.5	13.5	14.5	15.5	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
BC	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



**PHILIPPINE ARMY ATHLETIC UNIFORM  
T-SHIRT**



## FIGURE 1

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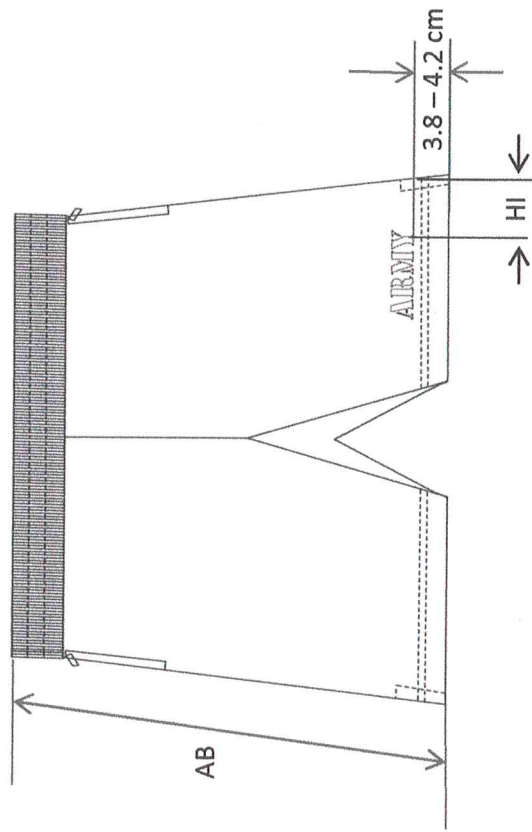
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PHILIPPINE ARMY ATHLETIC UNIFORM

SHORT PANTS

FRONT VIEW



BACK VIEW

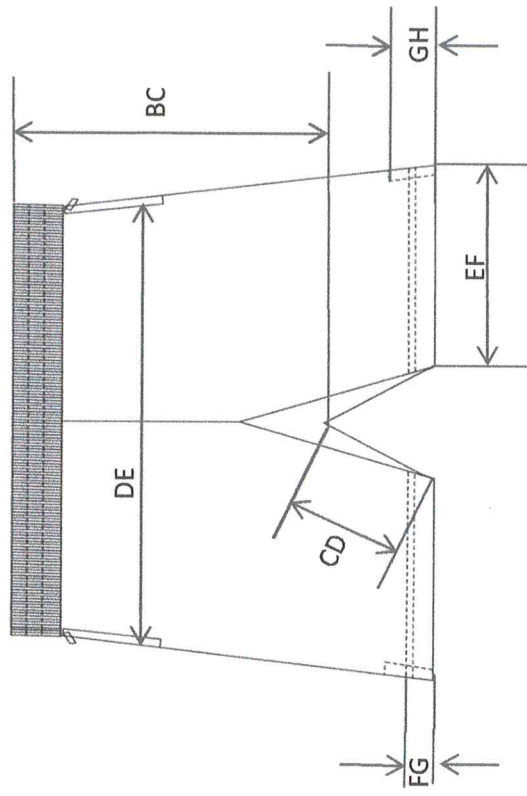


FIGURE 2

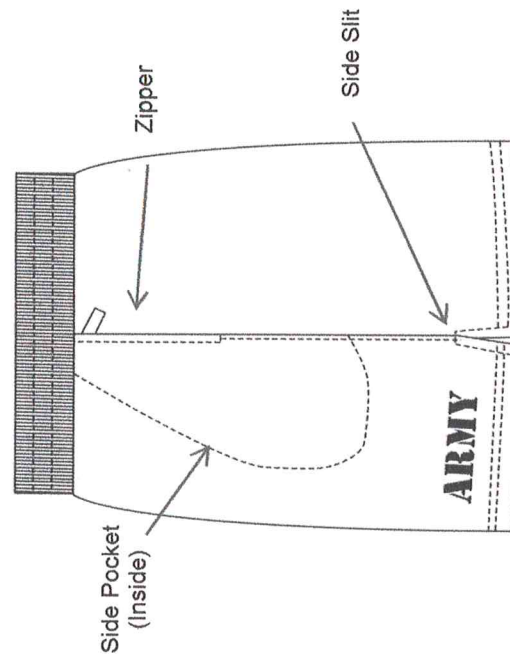
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## PHILIPPINE ARMY ATHLETIC UNIFORM SHORT PANTS

### SIDE VIEW



### PA LOGO for T-Shirt

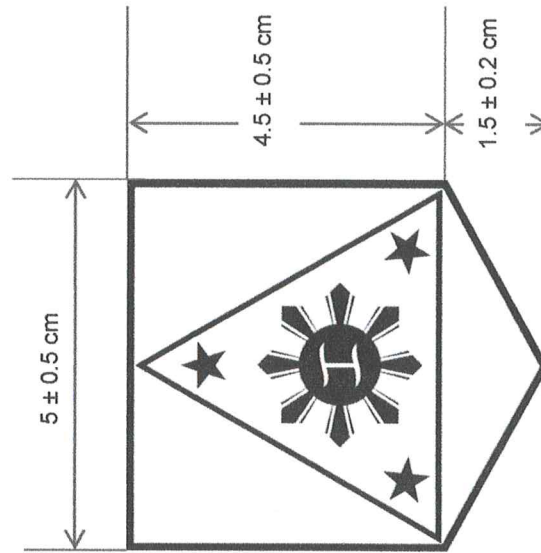


FIGURE 3



CORRECTED COPY DESTROY ALL OTHERS

**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 dated 27 May 2019	Classification	
		Major	Minor
<b>Materials</b>			
<b>T-Shirt (Front Part)</b>	85% $\pm$ 5 Polyester fabric and 15% $\pm$ 5 Spandex	x	
Color	Two (2) tone gray	x	
Thread Count/2.54 cm			
Wales	45 - 55		x
Courses	80 - 90		x
Thickness, mm	0.50 - 0.54	x	
Weight, g/m <sup>2</sup>	175 (maximum)	x	
Type of Knit	Plain	x	
Absorbency, seconds (RDC method)	2 (maximum)		x
Color Quality (Color Difference)	1.5 (maximum) Spectrophotometric Method	x	
Dimensional Change, %	$\pm$ 2% (max)	x	
Colorfastness	Change in Color                      Staining		
Laundrying	Grade 4 (minimum)              Grade 4 (minimum)	x	
Perspiration	Grade 4 (minimum)              Grade 4 (minimum)	x	
<b>T-Shirt (Back Part)</b>	85% $\pm$ 5 Polyester fabric and 15% $\pm$ 5 Spandex	x	
Color	Gray	x	
Thread Count/2.54 cm			
Wales	60 - 70		x
Courses	110 - 120		x
Thickness, mm	0.38 - 0.42	x	
Weight, g/m <sup>2</sup>	145 (maximum)	x	
Type of Knit	Plain	x	
Absorbency, seconds (RDC method)	2 (maximum)		x
Color Quality (Color Difference)	1.5 (maximum) Spectrophotometric Method	x	
Dimensional Change, %	$\pm$ 2% (max)	x	
Colorfastness	Change in Color                      Staining		
Laundrying	Grade 4 (minimum)              Grade 4 (minimum)	x	
Perspiration	Grade 4 (minimum)              Grade 4 (minimum)	x	
<b>Lettering</b>	With "ARMY" Lettering	x	
<b>Collaret</b>	Shall be the same material as specified in para 2.2.1.1.	x	
<b>Thread, Sewing</b>	Polyester	x	
Color	Black	x	
No. of Ply	2 ply (minimum)		x
Yarn Size, Denier	120 (minimum)		x
Breaking Strength, kg	1 (minimum)	x	

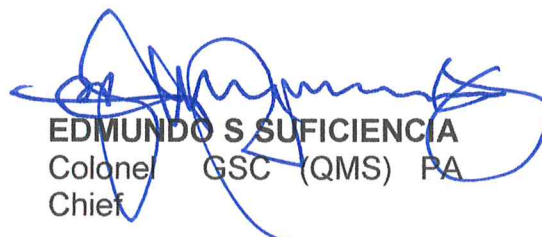
TEST PARAMETERS	QM SPEC NR IC-21PAAU dated 27 May 2019	Classification	
		Major	Minor
<b>PA Logo</b>			
Location	Shall be placed at the back of the T-Shirt 6 ± 0.5 cm from the upper edge of the collaret	x	
Color and Type of material	using gray reflective rubberized material by heat transfer process	x	
Design and Dimension	The design and dimension of the logo shall be as illustrated in Figure 3	x	
<b>ARMY Marking</b>			
Location and Distance	Shall be placed on the left breast part of the T-Shirt with the following distances: Y and X	x	
Color and Type of material	using gray reflective rubberized material by heat transfer process	x	
Type & Size of Lettering	Stencil font, Size 100		x
<b>Design</b>	The design of the t-shirt shall be as illustrated in the specification	x	
<b>Short Pants</b>	100% Nylon	x	
Color	Black	x	
Type of Weave	Plain with Ripstop Design	x	
Yarn Size, Denier (Fine)			
Warp	60 (minimum)		x
Filling	110 (minimum)		x
Yarn Size, Denier (Course)			
Warp	200 (minimum)		x
Filling	230 (minimum)		x
Thickness, mm	0.20 – 0.25	x	
Weight, g/m <sup>2</sup>	100 (maximum)	x	
Tensile Strength, kg			
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	
<b>Elastic Band</b>			
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	
<b>Draw Cord</b>	Braided polyester or nylon	x	
Diameter, cm	0.40 (minimum)	x	
Color	Black	x	
Plastic Reinforcement Tips	With plastic reinforcement tips	x	



TEST PARAMETERS	QM SPEC NR IC-21PAAU dated 27 May 2019	Classification	
		Major	Minor
<b>Thread, Sewing</b>	Polyester		X
Color	Same color shade as the basic material	x	
No. of Ply	2 ply (minimum)		x
Yarn Size, Denier	120 (minimum)		x
Breaking Strength, kg	1 (minimum)	x	
<b>ARMY Marking</b>			
Location and Distance	Shall be printed on the front left part of the short pants	x	
Color and Type of material	using gray reflective rubberized material by heat transfer process	x	
Type & Size of Lettering	Stencil font, Size 100		x
<b>Zipper for side pockets</b>	Nylon		x
Size	3 - 4	x	
<b>Design</b>	The design of the short pants shall be as illustrated in Figures 2 and 3	x	
<b>Contractor's Label</b>	With contractor's label	x	
<b>T-Shirt</b>			
Location	Shall be printed inside back portion of the Athletic Uniform, 2.5 ± 0.5 cm below the collaret seam	x	
Type of Ink	Gray paint		x
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 CLEAN		x
<b>Short Pants</b>			
Location	Shall be printed outside portion of the right side pocket	x	
Type of Ink	Gray paint		x
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 CLEAN		x
<b>Construction</b>			
Collaret	Shall have a width of 1.0 – 1.5 cm	x	
Waistband	shall be provided with elastic band as specified in para 2.2.2.2		x



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

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

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

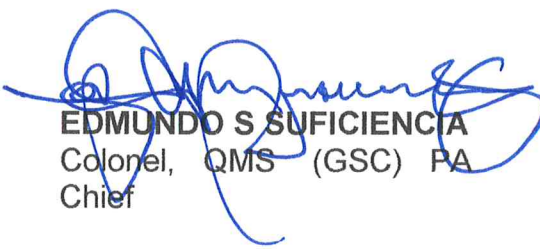
**VISUAL INSPECTION CHECKLIST**

DESCRIPTION OF DEFECTS	CLASIFICATION OF DEFECTS
1. 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
b. 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
c. One hundred (100) pieces of T-Shirt and short pants of the same sizes shall be packed in a corrugated carton.	Major
d. 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
2. Not a combination of gray and black color	Major
<b>T-Shirt</b>	
3. The basic material of the collaret shall be the same with the fabric of the back part	Major
4. PA logo	
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
b. Placed at the left breast part of the T-Shirt using gray reflective material by heat transfer process	Major
6. 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	
a. Shall be as specified in the specification	Major
b. Printed on the inside back portion of the T-Shirt bellow the collaret seam using gray paint	Major
<b>Short Pants</b>	
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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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 the Philippine Army.	Major
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.

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



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**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

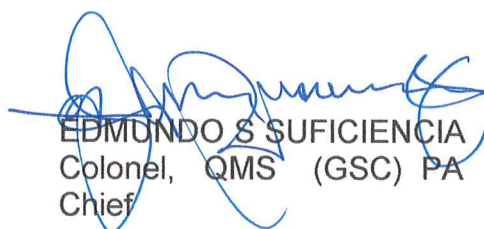
**SWATCH MATERIALS (Minimum requirement)**

**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.

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