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

PA SPECIFICATION

QM SPEC NR IC-21TBFMF-PA

OCT 22 2019

Interim

TOWEL, BATH AND FACE, MICROFIBER, OLIVE DRAB

1. GENERAL

1.1. Scope - This specification covers one (1) set of Towel, Bath and Face, Microfiber, Olive Drab for use of the military personnel of the Philippine Army.

1.2. Grade - The finished towels shall be of the quality and grade of product prescribed by this specification.

1.3. Size - The sizes of towel shall be the following:

Bath Towel - 70 cm wide (min) by 140 cm long (min)  
Face Towel - 30 cm wide (min) by 50 cm long (min)

2. REQUIREMENTS

2.1. First Article – Two (2) sets of samples of the finished towels, submitted to the Office of Army Quartermaster shall be subjected to first article inspection in accordance with para 3.1.

2.2. Basic Material - The basic material for the towels shall be 85% ± 5% polyester blended with 15% ± 5% Cotton, Olive Drab in color, with the following requirements:

Grams per Square Meter (GSM)	-	280 ± 20
Type of Knit	- - -	Plain Knit with Terry Loops
Thread Count/2.54 cm		
Wales	- - -	10 (minimum)
Courses	- - -	35 (minimum)
Breaking Strength, kg		
Direction A	- - -	40 (minimum)
Direction B	- - -	23 (minimum)
Absorbency, Seconds	- - -	2 (maximum)
Color Quality (Color Difference)	-	1.5 (maximum)

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2.2.1. Markings = The "ARMY" markings shall be embossed at the center, 5 - 6 cm above the lower edge of the towel, Stencil font, size 300 - 320.

2.2.2. Pouch – The pouch shall be tube type made of Nylon, plain weave with ripstop design, in PHILARPAT color (beige, black, light green and dark green) and shall be coated with polyurethane compound or polyvinyl chloride applied to the reverse side of the fabric, dark green in color with a thickness of not less than 30µm (microns). The coated fabric (front side) shall be 100% water repellent and free from pinholes and shall conform to the following requirements:

Weight, g/m <sup>2</sup> -----	150 (max)
Thread Count /2.54 cm	
Warp -----	100 (minimum)
Filling -----	75 (minimum)
Thickness, mm -----	0.10 - 0.15
Yarn Size, Denier (Fine)	
Warp -----	70 (minimum)
Filling -----	70 (minimum)
Yarn Size, Denier (Course)	
Warp -----	150 (minimum)
Filling -----	150 (minimum)
Breaking Strength, kg (Grab Method)	
Warp -----	90 (min)
Filling -----	75 (min)
Water Resistance Test	
Hydrostatic Pressure Test ---	7,000 mmH <sub>2</sub> O Pressure (min)

2.2.2.1. Dimensions – The pouch shall have the dimensions as shown in Figure 2.

2.2.2.2. Draw Cords – The draw cords shall be tubular and made of braided nylon with a minimum diameter of 4mm and a minimum length of 60 cm.

2.3. Construction

2.3.1. Design – The design of the towels shall conform to the attached illustration and the same with the official sample of the Philippine Army

Handwritten signature or mark.

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2.3.2. Construction - The construction and manufacture of the towel shall be in accordance with the requirements of this specification and the best method adopted by the contractor/manufacturer, which through experience and use, has been found to be the best for the production of such article.

2.4. Workmanship

2.4.1. Finish – The towels shall be clean, well finished, well pressed and free from defects which may affect its appearance and/or serviceability. Overall workmanship shall be the best known to the trade. Poor quality sewing or workmanship shall be sufficient ground for rejection of the finished article.

2.4.2. Contractor's Labels – The contractor's label shall be embroidered on a piece of cloth, Impact Font, size 8 - 9 and sewed on the corner of the opposite edge of the ARMY markings as illustrated in Figure 1. The contractor's label shall consist of the following:

TOWEL, MICROFIBER, OD  
(Name of Manufacturer)  
Lot No.

2.4.3. Edging – The towel shall have an olive drab edging, 3 threads (minimum), which will secure the threads and prevent the loops of the towel to ravel and loosen.

3. VERIFICATION

3.1. First Article Inspection – The contractor shall furnish two (2) sets of samples of the finished towel for first article inspection and approval as against the bid sample. The samples shall be subjected to tests examination to verify if the requirements in para 2.2 through 2.4 are satisfied with reference to the attached test parameters and classification of defects of this document.

3.2. Sampling

3.2.1. Samples of finished towels 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 any defects noted.

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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 towels 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 Office of the Army Quartermaster representatives 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 towels shall be placed in the pouch.

5.2. Packing – Twenty four (24) sets of towels shall be packed in a corrugated carton. The top cover when closed shall be sealed with a binding tape and finally secured with nylon. The box shall be labeled as follows:

TOWEL, BATH AND FACE, MICROFIBER, OD  
(Name of Manufacturer)  
Quantity:  
Lot No.

6. MISCELLANEOUS

Any point not covered by this text shall be governed by the attached illustrations which shall be followed in every detail.

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

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CG, PA  
DATE: OCT 22 2019



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PA SPECIFICATION

QM SPEC NR IC-21TMF-PA

OCT 22 2019

Interim

TOWEL, MICROFIBER, MEDIUM GREEN

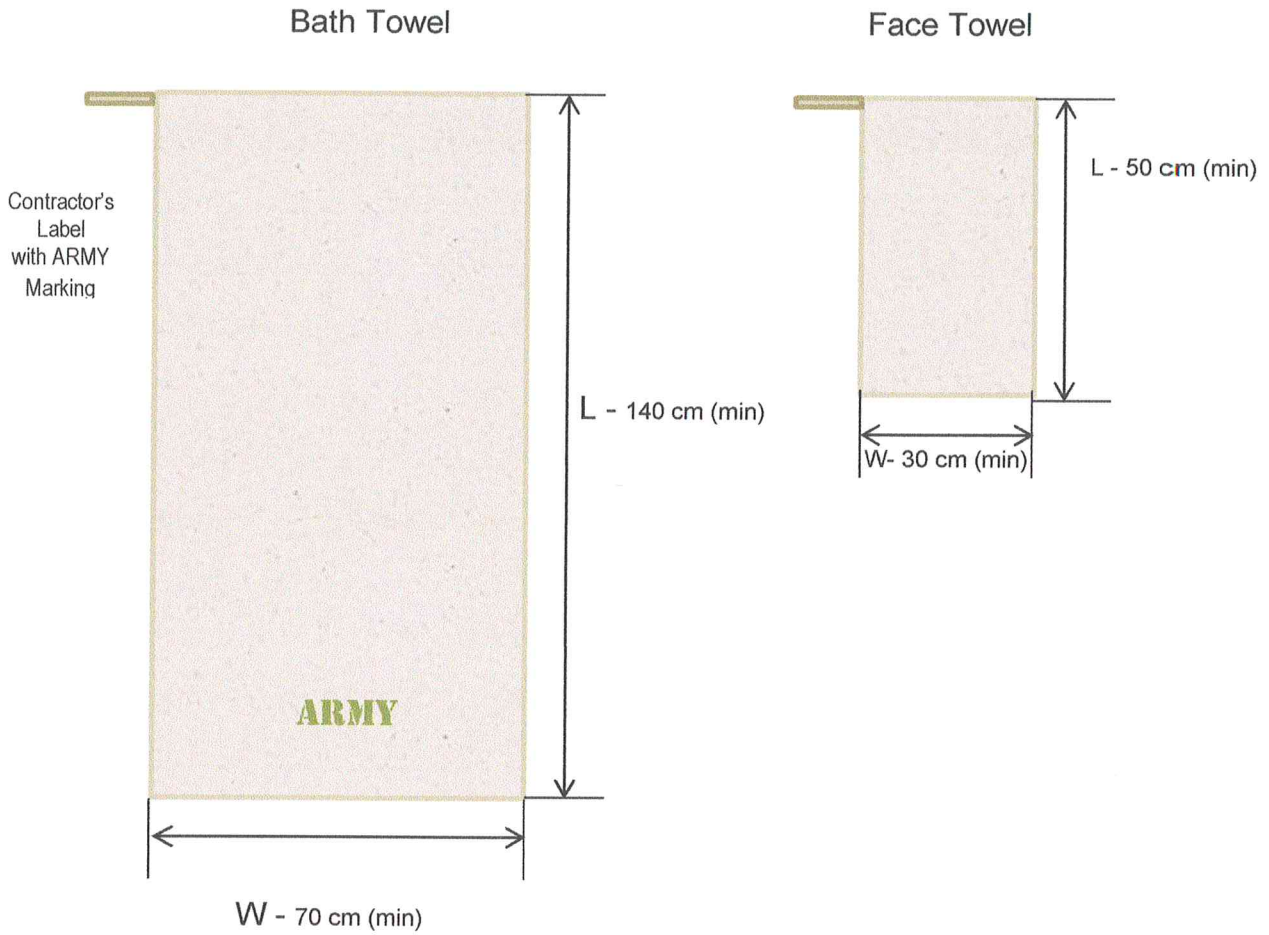


Figure 1

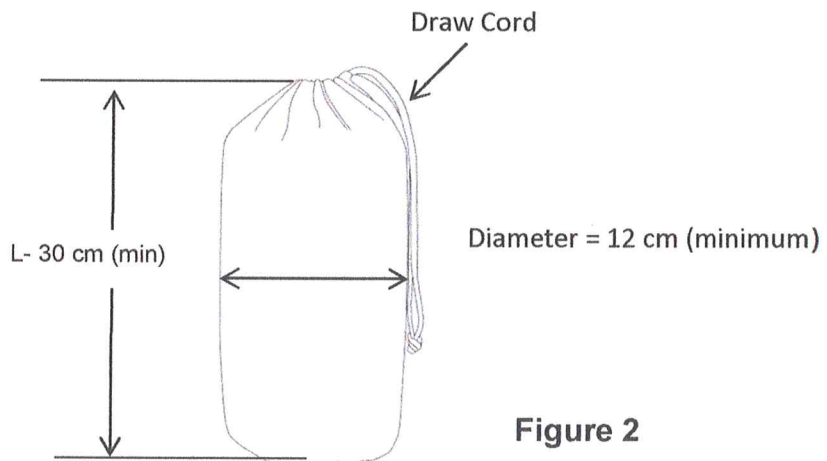


Figure 2

POUCH

Honor. Patriotism. Duty

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Corrected Copy

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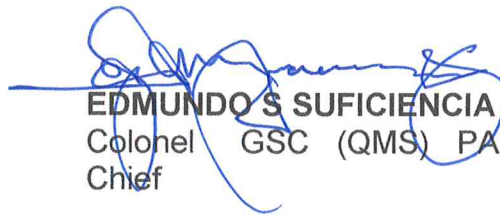
**TEST PARAMETERS**

**TOWEL, BATH AND FACE, MICROFIBER, OLIVE DRAB**

TEST PARAMETERS	QM SPEC NR IC-21TBFMF-PA dated 22 October 2019	Classification	
		Major	Minor
<b>Measurement, cm (Width x Length)</b>			
Bath Towel	70 (min) x 140 (min)	x	
Face Towel	30 (min) x 50 (min)	x	
<b>Towel</b>			
<b>Basic Material</b>	85% ± 5 Polyester 15% ± 5 Cotton	x	
Weight, g/m <sup>2</sup>	280 ± 20		x
Type of Knit	Plain with Terry Loops	x	
Thread Count/2.54 cm			
Wales	10 (minimum)		x
Courses	35 (minimum)		x
Breaking Strength, kg			
Direction A	40 (minimum)	x	
Direction B	23 (minimum)	x	
Absorbency, seconds (RDC method)	2 (maximum)		x
Color Quality (Color Difference)	1.5 (maximum) Spectrophotometric Method	x	
Markings	With "ARMY" Marking	x	
Font	Stencil Font		x
Size	300 - 320		x
<b>Pouch</b>			
Material	Nylon	x	
Coating	Shall be coated with polyurethane compound or polyvinyl chloride applied to the reverse side of the fabric	x	
	Shall be coated with water repellent on the front side	x	
Coating Thickness (reverse side)	30µm (microns)	x	
	The coating shall be dark green	x	
Type of Weave	Plain with Ripstop	x	
Color	PHILARPAT	x	
Weight, g/m <sup>2</sup>	150 (maximum)		x
Thread Count /2.54 cm			
Warp	100 (minimum)		x
Filling	75 (minimum)		x
Thickness, mm	0.10 - 0.15		x
Yarn Size, Denier (Fine)			
Warp	70 (minimum)		x
Filling	70 (minimum)		x

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TEST PARAMETERS	QM SPEC NR IC-21TBFMF-PA dated 22 October 2019	Classification	
		Major	Minor
Yarn Size, Denier (Course)			
Warp	150 (minimum)		X
Filling	150 (minimum)		X
Breaking Strength, kg			
Warp	40 (minimum)	X	
Filling	23 (minimum)	X	
Water Resistance Test			
Hydrostatic Pressure	7,000 mmH2O Pressure (min)	X	
Dimension, cm			
Length x Diameter	30 (min) x 12 (min)		X
Draw Cord	Braided Nylon		X
Diameter, mm	4 (minimum)		X
Length, cm	60 (minimum)		X
<b>Design</b>	The design of the towel shall be as illustrated in the specification	X	
<b>Contractor's Label</b>	Shall be embroidered on a piece of cloth,		X
Type & Size of Lettering	Impact Font, size 8 - 9		X
Location	Sewed on the corner of the opposite edge of the ARMY markings	X	
Contents of Label	TOWEL, MICROFIBER, OD (Name of Manufacturer) Lot No.		X
<b>Edging</b>	Shall have an Olive Drab edging, 3 threads (minimum)	X	
<b>TOTAL TEST POINTS</b>		<b>22</b>	<b>21</b>

  
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 Chief

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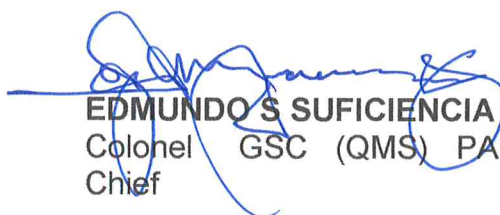
TEST PARAMETERS

TOWEL, BATH AND FACE, MICROFIBER, OLIVE DRAB

TEST PARAMETERS	QM SPEC NR IC-21TBFMF-PA dated 22 October 2019	Classification	
		Major	Minor
<b>Measurement, cm (Width x Length)</b>			
Bath Towel	70 (min) x 140 (min)	x	
Face Towel	30 (min) x 30 (min)	x	
<b>Towel</b>			
<b>Basic Material</b>	85% ± 5 Polyester 15% ± 5 Cotton	x	
Weight, g/m <sup>2</sup>	280 ± 20		x
Type of Knit	Plain with Terry Loops	x	
Thread Count/2.54 cm			
Wales	10 (minimum)		x
Courses	35 (minimum)		x
Breaking Strength, kg			
Direction A	40 (minimum)	x	
Direction B	23 (minimum)	x	
Absorbency, seconds (RDC method)	2 (maximum)		x
Color Quality (Color Difference)	1.5 (maximum) Spectrophotometric Method	x	
Markings	With "ARMY" Marking	x	
Font	Stencil Font		x
Size	300 - 320		x
<b>Pouch</b>			
Material	Nylon	x	
Coating	Shall be coated with polyurethane compound or polyvinyl chloride applied to the reverse side of the fabric	x	
	Shall be coated with water repellent on the front side	x	
Coating Thickness (reverse side)	30µm (microns)	x	
	The coating shall be dark green	x	
Type of Weave	Plain with Ripstop	x	
Color	PHILARPAT	x	
Weight, g/m <sup>2</sup>	150 (maximum)		x
Thread Count /2.54 cm			
Warp	100 (minimum)		x
Filling	75 (minimum)		x
Thickness, mm	0.10 - 0.15		x
Yarn Size, Denier (Fine)			
Warp	70 (minimum)		x
Filling	70 (minimum)		x



TEST PARAMETERS	QM SPEC NR IC-21TBFMF-PA dated 22 October 2019	Classification	
		Major	Minor
Yarn Size, Denier (Course)			
Warp	150 (minimum)		X
Filling	150 (minimum)		X
Breaking Strength, kg			
Warp	40 (minimum)	X	
Filling	23 (minimum)	X	
Water Resistance Test			
Hydrostatic Pressure	7,000 mmH <sub>2</sub> O Pressure (min)	X	
Dimension, cm			
Length x Diameter	30 (min) x 12 (min)		X
Draw Cord	Braided Nylon		X
Diameter, mm	4 (minimum)		X
Length, cm	60 (minimum)		X
<b>Design</b>	The design of the towel shall be as illustrated in the specification	X	
<b>Contractor's Label</b>	Shall be embroidered on a piece of cloth,		X
Type & Size of Lettering	Impact Font, size 8 - 9		X
Location	Sewed on the corner of the opposite edge of the ARMY markings	X	
Contents of Label	TOWEL, MICROFIBER, OD (Name of Manufacturer) Lot No.		X
<b>Edging</b>	Shall have an Olive Drab edging, 3 threads (minimum)	X	
<b>TOTAL TEST POINTS</b>		<b>22</b>	<b>21</b>

  
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**TOWEL, BATH AND FACE, MICROFIBER, OLIVE DRAB**  
**QM SPEC NR IC-21TBFMF dated 22 October 2019**

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

**1. FOR POST QUALIFICATION TEST**

**PROTOTYPE SAMPLES**

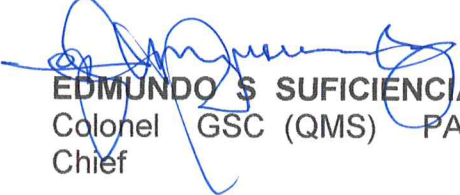
Four (4) sets of towels with pouch

**SWATCH MATERIALS (Minimum requirement)**

Basic Material of pouch - 2m (full width)

**2. FOR ACCEPTANCE TEST**

Three (3) sets of towels with pouch - Picked at random from delivery

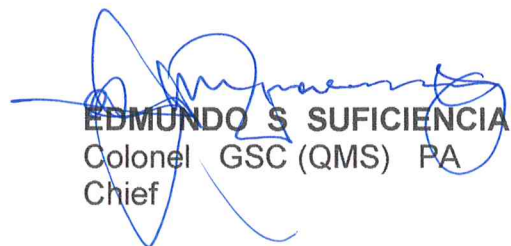
  
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**VISUAL INSPECTION CHECKLIST**

**TOWEL, BATH AND FACE, MICROFIBER, OLIVE DRAB**  
**QM SPEC NR IC-21TBFMF dated 22 October 2019**

DESCRIPTION OF DEFECTS	CLASIFICATION OF DEFECTS
1. Packing and Packaging	
a. Each sets of towel shall be in a pouch.	Minor
b. Twenty four (24) sets of towels shall be packed in a corrugated carton.	Major
d. The top of cover of the carton shall be sealed with binding tape and secured with nylon straps.	Minor
2. Towels shall be olive drab in color	Major
3. There shall be a bath towel and a face towel inside the pouch	Major
4. The pouch shall be PHILARPAT in color	Major
5. The pouch shall have a draw cord	Major
6. Shall have an olive drab edging	Major
7. Loose sewing/Untrimmed thread ends	Minor
8. ARMY marking:	
a. Provided with ARMY markings	Major
b. Embossed at the center bottom portion of the Towel	Minor
9. Contractor's label	
a. Embroidered on a piece of cloth	Minor
b. Sewed on the corner of the opposite edge of the ARMY markings	Minor
c. Contents of the label not as specified	Minor
10. Presence of dirt, stains and other defects:	
a. Affecting appearance	Major
b. Does not affect appearance	Minor

  
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**TOWEL, BATH AND FACE, MICROFIBER, OLIVE DRAB**  
**QM SPEC NR IC-21TBFMF dated 22 October 2019**

**TEST CRITERIA**

**FOR POST-QUALIFICATION TEST:**

Destructive Testing Criteria based on Logistic Letter Directive Number SC-07-04 dtd 25 October 2007 para 5f.

TOTAL MINOR TEST POINTS	NO. OF ALLOWABLE DEFECTS	
	MAJOR	MINOR
21	0	2

1. No major defect allowed.
2. Maximum allowable minor defect is nine & 9/10 percent (9.9%) of total minor test points **“CONDUCTED”**

**FOR ACCEPTANCE TEST:**

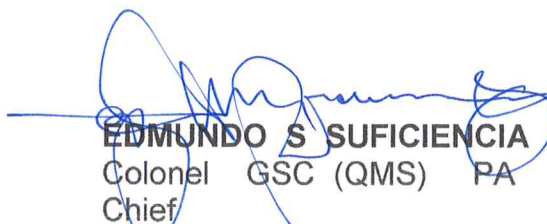
- I. Visual Inspection Criteria based on Mil Std 105E dtd 10 May 1989
  - All defects noted in 1<sup>st</sup> and 2<sup>nd</sup> sampling are cumulative.
  - In case of rejection, destructive testing will not be conducted

Classification of Defects	TABLE III-A General Inspection Level I Code Letter K Double Sampling Plan for Normal Inspection				
	Lot size 10,001 – 35,000 pcs Sample Size: 80 pcs + 80 pcs	Number of Defects			
		1 <sup>st</sup> Sampling		2 <sup>nd</sup> Sampling	
	AQL	Accept	Reject	Accept	Reject
MAJOR	6.5	7	11	18	19
MINOR	25	11	16	26	27

- II. Destructive Testing Criteria based on Logistic Letter Directive Number SC-07-04 dtd 25 October 2007 para 5f.

TOTAL MINOR TEST POINTS	NO. OF ALLOWABLE DEFECTS	
	MAJOR	MINOR
21	0	2

1. No major defect allowed.
2. Maximum allowable minor defect is nine & 9/10 percent (9.9%) of total minor test points **“CONDUCTED”**

  
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