

ቁጥር Ref. No. <u>600 አ</u>ኤ 1 <u>66 1018 04</u> ቀን Date **26 2012**

<u>ሰ፡ ጨረታ ቁፕር NCB/PSA6/MOH-COVID-19/ A B HR and Surgical Face Mask</u> /LR/01/20 ተሳታሬዎች በሙስ

ንዳዩ:- <u>ማስተካከ</u>ያ መስጠትን ይመስከታል

የጨረታው መክፈቻ እና መዝጊያ ወደ ግንቦት 11, 2012 ዓ.ም 8:00 እና 8:30 ሰሕት እንደቅደም ተከተሳቸው የተራዘመ መሆኑን በተጨማሪም የሚከተሱት ምርቶች ተጨማሪ መሆናቸውና እንዲሁም የምርቶችን የቴክኒክ መዘርዝር(Technical Specification) ከዚህ ደብዳቤ ጋር ያያዝን ሲሆን የጨረታ ሰነዱ ስካል መሆኑን አንንልዓስን።

| S.no | Item Description | Unit | Quantity |
|------|---------------------|-------|-----------|
| 4 | -Reusable face mask | piece | 2,745,225 |
| 5 | Cover all | Each | 400,000 |

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1. Technical Specification for Non-Clinical Face mask (For Public Use Only) - Peusable Face
1.1 Description

Non-Clinical Face mask- is non-clinical personal protective equipment (PPE) that reduces the chance of exposure to COVID-19 and other small particles by protecting communities from inhaling "droplets" of infectious agents. Non-clinical PPE can be made in two and three layers with technical specification as listed below.

1.2 Technical Specification

| Characteristic | | | | | |
|-----------------|-------------------------|--|--|--|--|
| | Technical Specification | | | | |
| | | Outer Layer | woven Polyester fabric, GSM- 120-160 | | |
| Material | Mask body- three | Filter Layer | Nonwoven (PP, PET), GSM< 80 | | |
| Composition | layers | Inner Layer | knitted Cotton fabric, GSM <120 | | |
| | Mask body- three | Outer Layer | woven Polyester fabric, GSM- 140-180 | | |
| | layers | Inner Layer | knitted Cotton fabric, GSM -150-180 | | |
| | Nose clip | Fusing materials | ร-ชาการกะร, Aluminum(if locally available) | | |
| | Elastic Band | Polyurethane + Polyester and/or any textile fabric | | | |
| Color | Mask | Inner layer any light colour and outer layer dark colour | | | |
| | Elastic Band | tic Band Any colour | | | |
| Nose Clip Style | Flat Nose Clip | | | | |
| Shape | Cone/ round/ oval- do | not collapse agai | nst the mouth | | |
| | | Length | 131 mm | | |
| Dimension | Body Size | Width | 114.5 mm | | |
| | | Height | 50 mm | | |
| | Nose Clip | Length | 88 mm | | |
| | Headband | Upper Length | 300 mm | | |
| | | Lower Length | 280 mm | | |

Note: -

- Sum of layers GSM in single mask can be 300 -350 (More construction may create breathing difficulty and lower may create fluid and aerosol filtration limitation)
- Delastic twill tape which hold with ear shall be relax enough for longer duration utilization
- All material used for non-clinical mask preparation shall be allergic free and skin friendly

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1.3 Non-clinical Face Mask: Fabric, trims and accessories quality requirement and Test Method

| S/No | Inputs Type | Parameters | Specification | Test Method | Sample Size |
|------|----------------|--|--------------------------------|--|----------------|
| 1 | Fabric | Warp | 30 Ne/ | | |
| | | Weft | 30 Ne/ | ISO and | |
| | | Weight of fabric (GSM) | As per technical specification | ASTM | |
| | _ | Tensile strength in N | specification | - | |
| | | Warp direction | 500N | 1 | |
| | | Weft direction | 450N | | |
| | | Abrasion | 4-5 | | |
| | | Resistance/5000rubs/ | | | |
| | | Color fastness to Light | >5 | | |
| | | Color fastness to washing | 4-5 | | |
| | | Color fastness to Dry | 4-5 | | |
| | | Rubbing Color fastness to Wet | 4 | | |
| | | Rubbing Color fastness to Perspiration | 4-5 | | . X |
| | | Color fastness to chlorinated water (optional) | 4-5 | | |
| | | Water Repellency (optional) | Good | | |
| | | Dimensional stability (% | <5 | | |
| | | warp x fill) (After3 washes) | | | |
| | Sewing | Material composition/blend | 100% polyester | | |
| 2 | thread | Yarn count (D) | 40/2 | A CONTRACTOR OF THE PARTY OF TH | |
| | | Fabrication/ | Double twist | | |
| | | Tensile strength in N | | | |
| | | Color fastness to Light | >=6 | | |
| * | | Color fastness to washing | 4-5 | | |
| | | Stitch per inch | 10-12 | | |
| 3 | Twill tape | Material composition/blend | 90% polyester 10% | | |
| | elastic | | spandex | | |
| | | Yarn count (Ne) | 50Ne | | |

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| - | | | inch | * |
|---|---------------------------|--|-------------------------|---|
| Š | Poly bag | Material composition Size (optional) | Plastic (4*6) and (5*8) | |
| | Non- woven(PP, PET) | Material composition Dimensional stability (% After wear & washes) | 100% polyester/PP <1 | |
| 4 | | Color fastness to Light Color fastness to washing Elasticity recovering (After use & washes) | >=6 4-5 8+-2 | |

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3. Technical Specification for surgical, type IIR, level 2, S.U., non sterile, ear loop

3.1 Description

A surgical face mask is used to protect both surgical patients and operating room personnel from the transfer of microorganisms, body fluids and particulate material and also it should protect from germs coming from patients side.

3.2 Technical Specifications

| Material Characteristic | 25 g 28 g 25 g 25 g 25 g 25 g 25 g 25 g | Technical S _l | Test Method | References | |
|----------------------------|---|-------------------------------------|--|----------------------------------|-----|
| Material Composition | Mask body | Outer Layer | Spun-bonded non-woven polypropylene fabric, GSM 18-20, Width-180mm | NIOSH procedures | WHO |
| | | Filter Layer Inner Layer | Melt blown non-woven polypropylene fabric, GSM 25-30, Width-180mm Spun-bonded non- woven | European Standard EN 14683 | |
| | | the matter of the day of the second | polypropylene fabric, GSM 25-30, Width- 200mm | | |
| | Nose clip Aluminum Elastic Band Polyurethane + Polyester or Polyester with Lycra | | ISO1833-1 | | |
| Color | Mask Elastic Band | White | | 1001033-1 | |
| Thickness | 80 Micrometer | s (um), ±10% | | ASTM D1777 | |
| Nose Clip Style | Flat nose clip | | | | |
| Dimension | Body Size | Length Width Height | 131 mm 114.5 mm 50 mm | ASTM D668-12 | |
| | Nose Clip | Length | 88 mm | | |
| | Headband | Upper Length Lower Length | 300 mm 280 mm | - | |

Headband U L

3.3 Quality Requirement, Test Method and required equipment

| S.N. | Technical parameters | Requirement limits | Int. standards | | Test equipment required |
|------|---|---------------------------|-----------------------------------|--|---|
| 1 | Bacterial filtration efficiency In Vitro (BFE) | BFE ≥ 98% | ASTM F2101-19 | EN14683 Rating – Type IIR Standard. | Bacterial Filtration Efficiency Test Apparatus, autoclave, Incubator, Orbital Shaker, Refrigerator etc. see table |
| 2 | Particle filtration efficiency | PFE ≥ 98% @ 0.1 micron | ASTM F2299/F2299M- 03(2017) | | Bacterial and Aerosol Filtration Efficiency Test Apparatus |
| 3 | Breathability - Delta P | < 5.0 mm H2O/cm2 | ASTM D737; (T2) | | Differential Pressure Air (Delta P) Permeability Tester or Apparatus for measuring air resistance |
| 4 | Fluid Resistance | 120 mmHg | ASTM F1862/F1862M- | | Fluid Resistance Test Apparatus |
| 5 | Flame Spread | Class i | ASTM levels 1,2,3 | | Flammability Tester |

Note: all testing apparatus and detail reagent requirement will be attached in Annex 1

- Pleat style with ear loops or ties
- Protective four-layer protection shall cover Nose, mouth and Chick-with-ear-loop
- Splash resistant layer protection against blood and bodily fluids
- ▶ Color variety: with light and brighter coolers
- ▶ Shape: flat pleated
- Reusability disposable product, single use only
- ▶ Fluid-resistant medical or surgical mask high fluid resistance.
- Good breathability.
- ▶ Internal and external faces should be clearly identified.
- Structured design that does not collapse against the mouth (e.g. duckbill or cup shape)
- Quality compliant with standards, including for fluid resistance level and breathability (differential pressure): EN 14683 type IIR performance, or ASTM f2100 level 2 or level 3, or equivalent.
- For Surgical Mask, Type IIR EN14683., Disp, it require 100% import finished pp material as there is no technology in fabric production (non-woven but garment manufacturing can be done in Ethiopian.

Technical Specifications a Quality Safety Coverall

Technical Specification:

- A good quality Coverall is made from cotton or polycotton material.
- Coveralls have high visibility marks in arms, neck, and legs. It helps increase the visibility of the worker during day and night.
- The material surface can resist inorganic and organic liquids from going within.
- The coveralls are high-resistant to rubbing off or tearing. It is completely capable of keeping the protective properties intact.
- · Coveralls are made with comfortable, light, breathable fabrics.
- · The size range of safety clothes is versatile.

Why should one invest in a good quality coverall?

- Material: It is made from a light material like cotton and Polycotton. It allows you to move freely.
- Body Protection: It is made with powerful safety properties. It offers ultimate body protection.
- Durability: It is a very durable product. It will provide a long time service.

- Provides Warmth: These safety clothes can keep the body heated and warm. Special Features: It has a very efficient disposal method. The size of the cloth and weight is very convenient.
- Use as a Uniform: the safety overalls can be worn as an everyday work uniform because they come in various colors and designs.

S:160CM M:165CM, L:170CM XL:175CM XXL:180CM, XXXL:185CM, XXXXL:190CM

XXXXL:190CM

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