New Products available due to COVID-19 Pandemic

- **Sanitisers (alcohol-based)**
- **Masks**
- **Face Guards & Shields**
- **Gloves**
- **Other consumables**

Upfront Distribution supports the efforts of the World Health Organisation and abides by the regulations of the South African Government during this pandemic. With rising costs due to the instability of the Rand and short supply of essential items and chemicals we will still attempt to offer affordable products where possible to our clients. With a wide range of products and ideas with hygiene in mind

Overview on Sanitizers

- The CDC recommends that hand sanitisers contain at least 60% alcohol (denatured ethanol, n-propanol or 2-propanol)
- WHO recommends 80% Ethanol or 75% 2-propanol
- WHO recommends addition of antimicrobial Hydrogen Peroxide @ 1.25% for sterilising
- Hydrogen Peroxide 1.25% is antimicrobial and 'sterilisers' containers after 72 hours
- WHO recommends addition of Glycerol as a moisturising agent
- Further studies reveal halving the percentage of glycerol increases efficacy of product
- Studies have shown that adding Chlorhexidine @0.5% prolongs efficacy of sanitisers
- Sanitisers should be rubbed into hands for at least 30 seconds and should not be used on visibly dirty or greasy hands
- 30-40 second handwashing with soap and warm water is still advised as 1st choice
- There is a shortage of many of the alcohols used in sanitisers, in South Africa and over the world, namely: Isopropyl alcohol (2-propanol) *we are supplying n-Propyl Alcohol (1-propanol) as an alternative which seems to work effectively*, Surgical Spirits, Chlorhexidine Concentrate 5%. This has affected costs of sanitising products dramatically. There is also a shortage of dispensing bottles with sprays and pumps which has increased prices as stock in the country has been airfreighted in at 5 times the normal cost. Prices are very unstable at present.

Overview on Masks

- Prices of disposable facemasks have escalated dramatically, more than 10 times the cost
- Health Facilities and Governments all over the world have asked the public to save facemasks for healthcare workers.
- There are many cloth masks available, choose a suitable face mask for your profession
- Always put your mask on and take of off with recently washed and sanitised hands
- Only touch the outside of the facemask with your hands when putting it on or taking it off.
- Wash your masks with soap and water regularly, rinse and dry it in the sun and/or iron it
- Your mask should fit snugly on your face
- If masks are worn continuously you should allow a 10 minute break every hour or 2 where the mask can be removed
- Everyone should wear masks when stepping out their house or in contact with other people.
- An additional faceguard can be worn in our industry. It has been said that "a Face mask protects you from me, a faceguard protects me from you" as it covers the eyes as well

PRODUCTS:

SANISPRAY+

UFD Liquid Sanitiser, SANISPRAY+, is manufactured according to research being done with the greatest efficacy at an affordable price

SANISPRAY+1L Sanispray Plus is 80% Ethanol-based liquid sanitiser in a 1 litre refill **R100**

SANISPRAY+250 Sanispray Plus is 80% Ethanol-based liquid sanitiser in a 250ml spray bottle **R50**

Ingredients: 80% Ethanol (denatured), aqua, Hydrogen Peroxide 1.28%, Glycerol 0.78%, Chlorhexidine Concentrate 0.1%

- For External Use only
- Avoid contact with eyes
- Keep out of reach of children
- Apply a generous spray of Sanispray+ cover all surfaces of hands. Rub hands together for a minimum of 30 seconds.

SANISPRAY-N

UFD Liquid Sanitiser, SANISPRAY-N, is manufactured according to research being done on the greatest efficacy at an affordable price

SANISPRAY-N1L Sanispray-N is 75% nPropanol-based liquid sanitiser in a 1 litre refill **R90**

SANISPRAY-N250 Sanispray-N is 75% nPropanol-based liquid sanitiser in a 250ml spray bottle **R45**

Ingredients: 75% nPropanol, aqua, Hydrogen Peroxide 1.28%, Glycerol 0.78%, Chlorhexidine Concentrate 0.1%

- For External Use only
- Avoid contact with eyes
- Keep out of reach of children
- Apply a generous spray of Sanispray-N cover all surfaces of hands. Rub hands for a minimum of 30 seconds.

SK-SG

Skin Science Laboratories produces the Sanitising Handgel, SK-SG, a gel-based hand Sanitiser with an ethanol base 63% and has SANA approval

SK-SG1L Sanitising handgel with 63% Ethanol base in a 1 litre refill **R150**

SK-SG330 Sanitising handgel with 63% Ethanol base in a 330ml squeeze bottle **R60**

Ingredients: 63% denatured Ethanol, aqua, Acrylates/C10-30 Alkyl Acrylate Crosspolymer, Propylene Glycol, Aminomethyl Propanol

N-Propanol 70% (substituting for Isopropanol)

NPA-1LT	n-Propanol (n-Propyl Alcohol) 70% 1 litre	**R70**
NPA-5LT	n-Propanol (n-Propyl Alcohol) 70% 5 litre	**R350**

STERITECH

6009686750951	Purify (*101*-a high-level instrument disinfectant)	1 litre	**R225.00**
6009686750876	Purify (*101*-a high-level instrument disinfectant)	5 litre	**R924.50**
6009686753020	PrimeSafe Surface Cleaner detergent trigger spray	1 litre	**R65.00**
6009686753013	PrimeSafe Surface Cleaner detergent refill	5 litre	**R176.00**
6009686752450	PrimeSafe Alcohol Surface spray trigger spray	1 litre	**R120.00**
6009686751443	PrimeSafe Alcohol Surface spray refill	5 litre	**R495.00**
6009686752085	PrimeSafe Alcohol Surface Spray Wipes Tub	100s	**R80.00**
6009686750401	Fresh (201-General purpose surface disinfectant) trigger spray	1 Litre	**R182.20**
6009686750395	Fresh (201-General purpose surface disinfectant) refill	5 Litre	**R536.50**
6008686750623	Cleanse (301-non-irritating ph-balanced disinfecting handwash)	500ml	**R116.80**
6009686752719	Sanitise (boosted efficacy alcohol-based hand sanitiser)	250ml	**R127.50**

QUADEX

QDX101-1LT	Cold Sterilant (safe sterilisation and disinfecting of medical equipment	1 litre	**R201.00**
QDX101-5LT	Cold Sterilant (safe sterilisation and disinfecting of medical equipment	5 litre	**R759.00**
QDX-BACT	Bacterinil (residual action, non-toxic, hard surface disinfectant)	1 litre	**R166.80**
QDX-BACT5	Bacterinil (residual action, non-toxic, hard surface disinfectant)	5 litre	**R467.20**
QDX-BIGUAM1L	Biguamine (wound wash)	1 litre	**R145.20**
QDX-ECOH500	Ecohand (ph neutral disinfecting Handwash)	500ml	**R112.20**
QDX-ECOHAND	Ecohand (ph neutral disinfecting Handwash)	250ml	**R74.80**
QDX-FOG	Sterifog Fogger (high level disinfecting fogger)	350ml	**R161.00**
QDX-FOGDIY-PL	Sterifog DIY (high level disinfecting fogger) plain	500ml	**R230.00**
QDX-FOGDIY-VAN	Sterifog DIY (high level disinfecting fogger) vanilla	500ml	**R230.00**
QDX-MICROSOLVE	Microsolve (cleans, sanitises and sterilises all in one- *cuts through grease*)	1 litre	**R149.50**
QDX-SG250	Sterigel (waterless hand sanitiser)	250ml	**R115.00**
QDX-WETWIPE	Wetwipes (high level disinfecting wipes)	150s	**R176.80**

MASKS

There is a shortage in South Africa, and many other parts of the world, of surgical masks and N95 masks. Governments across the world are appealing to citizens to wear cloth masks and save the N95 and surgical masks and other PPE (personal protective equipment) for the Healthcare workers in hospitals. In addition the short supply and high demand of these masks has led to an implosion of the prices with a box of 50 surgical masks increasing from under R60 per box to over R600 and up to R900 per box. For this reason Upfront Distribution will keep limited supply of surgical masks when available and will promote cloth masks made from recommended designs and materials

MASK Reusable fabric mask 2 ply with flap for filter insert (2 provided) **R20**
(this allows a filter to be inserted to make it 3 ply or more – *see Information segment attached for recommendations)*

Material length:

SMALL: 21-23cm MEDIUM: 23-25cm LARGE: +27cm

Availability of materials (fabric and elastic) is unpredictable therefore products may vary

Masks should be washed before initial use, and regularly thereafter, they should then be dried in the sun and/or ironed. Masks should fit snugly on the face, if your mask is a bit loose loop the elastic ɣ before putting over your ears. Only touch the outside of the mask when you remove and put on your mask. Always with clean, recently washed hands. Masks are not a 100% protection however is we all wear masks we stand a better chance, Protecting You…. Protecting Me…

WHO and Government advice should still be followed: Washing hands regularly for at least 30-40 seconds with soap in preferably warm water; Do not touch your face, mouth, nose and eyes; Social Distancing; Wear masks whenever you step out of your house.

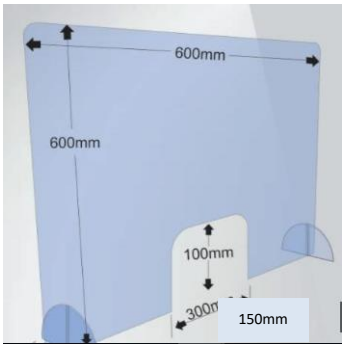
MASK3 Reusable fabric fitted cone-shaped mask 3 ply & nose wire **R40**
(outer spandex, middle layer of chiffon and inner layer of 200 thread cotton)

FACEGUARDS/SHIELDS

FACEGUARD-A	Faceguard / Shield attached with velcro	**R100**
FACEGUARD-B	Faceguard / Shield (spectacle type)	**R110**

DESKSHIELD

These shields are clear and are laser-cut to size. They fit perfectly on a nail desk allowing you to work on hands whilst ensuring your client and you feels protected.



DESKSHIELD	Clear Deskshield	**R699**

Size: 600mm x 600mm

Cut-out: 250mm x 200mm

PLINTHSHIELD	PET Dome for plinth	**Soon**

Picture for reference not exact replica of actual product

GLOVES

We stock a wide range of gloves, the bulk of which is in sizes medium and small. Different gloves available are Latex, Vinyl and Nitrile depending on your preference. It is important to remember that even with gloves on your hands should still be washed / sanitised regularly and do not touch your face.

LATEX	Latex Gloves (box of 100s) **SM**	**M**	**L**			**R106**
NITRILE	Nitrile Gloves (box of 100s) **XS**	**SM**	**M**	**L**		**R152**
VINYL-	Vinyl gloves (box of 100s) **SM**	**M**	**L**			**R106**

NB! Stocks of all gloves are unpredictable and prices will fluctuate because of the depreciation of the Rand to the USD

PLASTIC SHEETS for plinths/couch

PC-PLASTIC Durable Plastic sheet 'Fitted' 190x72cmx10cm **R159.00**
Elastic support *Can be wiped down with 70% alcohol a number of times
Own breathing hole can be cut by yourselves to fit your bed
These can be used in conjunction with our disposable face hole covers

EZ-PWS-L Durable Plastic Sheet 137x165cm **R67.50**
*Can be wiped down with 70% alcohol a number of times

EZ-PWS-SM Durable Plastic Sheet 68x140cm **R36.60**
*Can be wiped down with 70% alcohol a number of times

BWS-50S Thin plastic sheeting 1.8x1.8m (50 p/pack)* **R337.20**
*****Can be cut in half & washed a couple of times in washing machine

PLASTIC APRONS -SANITISABLE & REUSABLE

APRON-PL Durable Plastic Apron (made with similar material to Wax sheet) **R39.00**
*Can be wiped down with 70% alcohol a number of times
Does not include cloth apron as shown in photo

Velco fastening at back

OTHER DISPOSABLE PRODUCTS

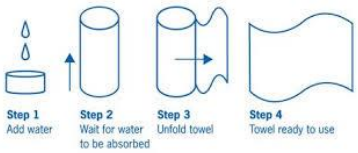
PEDIPACK 6 piece mani/pedi pack in a pvc bag **R57.30**
Contains: footfile, toe separators, manicure brush, nail clipper, nail file and orangewood sticks)

Ideal for clients to have their own personal pack to bring to the Salon for hygiene

ARC-CORE	Perspex cores for replaceable grits 5s	**R55.50**
ARC-DISP100B	Replacement Grits #100 black 10s	**R27.00**
ARC-DISP180Z	Replacement Grits #180 zebra 10s	**R27.00**
ARC-DISP240	Replacement Grits #240 black 10s	**R27.00**

NOS-PCK	Orangewood sticks 15cm - long 10s	**R16.90**
5HP-PCK	Orangewood sticks 10cm - short 10s	**R15.60**

YW-COMPRESS Disposable Compress towels 200s **R258.80**



M-F30A2 Facial Wipes Roll 20cm*20cm x 25m **R96.20**

Fig. 1 *Fig. 2* *Fig. 3* *Fig. 4* *Fig. 5*

Fig. 1	**BB2000**	Disposable EVA foam slippers (pair)	**R16.00**
Fig. 2	**SLIPPER**	Disposable towelling slippers (pair)	**R20.00**
Fig. 3	**C-0101(PCK)**	Disposable headbands 10s	**R41.00**
Fig. 4	**DISP/CAPS-100**	Disposable caps 100s	**R59.00**
Fig. 5	**SHOWERCAP-100s**	Disposable plastic showercaps (100s)	**R260.00**

Fig. 6

Fig. 7

Fig. 8

Fig. 9

Fig. 20

Fig. 11

Fig. 12

Fig. 13

Fig. 14

Fig. 15

Fig. 16

Fig. 17

Fig. 18

Fig. 19

Fig. 6	**H-FC200**	Disposable finger cotts 200s	**R130.00**
Fig. 7	**PAPERROLL**	Medical Towel Roll 508mm	**R126.00**
Fig. 8	**MINIROLL**	Medical Towel Roll 254mm	**R81.00**
Fig. 9	**T-COVER**	Disposable breathing hole cover 100s	**R69.00**
Fig. 10	**C/BUDS**	Cotton buds (100s)	**R9.70**
	C/BUDS-100G	Cotton buds loose bulk 100g (± 300)	**R26.00**
Fig. 11	**C/BUDS-WOOD**	Cotton buds with wooden stems 100s	**R7.60**
Fig. 12	**LIPBR-PCK**	Disposable tint/lip brushes 25s	**R207.00**
Fig. 13	**MASC/WAND**	Disposable mascara wands 25s	**R45.00**
Fig. 14	**SG-ATR4710**	Disposable eyeshadow sponge applicator ea	**R4.00**
Fig. 15	**COS003**	Disposable PVA sponges pair	**R10.00**
Fig. 16	**BOXER**	Disposable boxer shorts 10s	**R124.00**
Fig. 17	**G-14007**	Disposable ladies G-strings 50s	**R148.00**
Fig. 18	**G-PANTIE**	Disposable Bikini pants 50s	**R304.00**
Fig. 19	**G-76MITT**	Disposable facial mitts (12pc/pck)	**R35.00**

ADDITIONAL INFORMATION ON SANITISERS

WHO recommends 80% ethanol or 75% 2-propanol

In a hand sanitizer study, the researchers evaluated the effectiveness of different concentrations of two WHO-recommended and two modified hand sanitizer formulations on COVID-19 virus. The WHO recommends two formulas: (1) using 80% ethanol; and (2) 75% 2-propanol along with other ingredients.

FDA recommends using Denatured Ethanol

To discourage the drinking of pure ethanol from personal care or cleaning products, a “denaturant,” such as a bitter flavoring, is usually added. Denaturants make alcohol unsuitable for human consumption, but does not change the other properties of the substance. **chemicalsafetyfacts.org*

Why Glycerol as a Humectant?

Glycerol can be used in very small quantities and is still effective as a moisturiser. Additional info: “Glycerin is mildly antimicrobial and antiviral and is an FDA approved treatment for wounds. The Red Cross reports that an 85% solution of glycerin shows bactericidal and antiviral effect, and wounds treated with glycerin show reduced inflammation after roughly 2 hours. Due to this it is used widely in wound care products, including hydrogel sheets for burns and other wound care” **Brittanica*

Further studies recommend a reduction in Glycerol to improve efficacy

However, these formulations failed to meet the effectiveness requirements of European Norm 1500, which measures how much live bacteria remain on contaminated fingertips after using hand sanitizer. In response, Suchomel and colleagues, who were not involved in the initial study, modified the formulations by adding more ethanol or 2-propanol and using less glycerol after finding that glycerol reduced their effectiveness.

The Swiss and German researchers tested dilutions of the alcohols ethanol and 2-propanol, the active ingredients of hand sanitizers on the market.

They tested virus activity after 30 seconds of exposure to the hand sanitizer using a suspension of 1 part virus, 1 part organic material, and 8 parts disinfectant solution in different concentrations.

They found that all sanitizer formulations and dilutions of 40% or more killed the coronavirus and reduced the virus to background levels within 30 seconds. The two **original** WHO formulations had a virus reduction factor of ≥3.8, while the **modified** versions had a reduction factor of ≥5.9.

Both ethanol and 2-propanol reduced virus to background levels in 30 seconds, with reduction factors of 4.8 to ≥5.9, and a concentration of ≥30% of either ingredient was effective in killing SARS-CoV-2, the virus that causes COVID-19. The findings reveal that the novel coronavirus has an inactivation profile similar to those of related coronaviruses that cause severe acute respiratory syndrome (SARS), bovine coronavirus (BCoV), and Middle East respiratory syndrome (MERS).

Recommend 30 seconds of rubbing sanitiser onto the skin

The authors noted that while 30 seconds is the recommended time to rub hand sanitizers onto the skin and was the time used in this study, most people don't use them for that long. The study findings, however, support use of WHO sanitizer formulations in healthcare settings during viral outbreaks, they said.

"Our findings are crucial to minimize viral transmission and maximize virus inactivation in the current SARS-CoV-2 outbreak," they wrote. * *Report from CIDRAP Center for Infectious Disease Research & Policy*

Ideally your hands should not be visibly dirty or greasy (handcreams etc) when using hand sanitisers

"A 2004 study published in the *Clinical Microbiology Reviews* journal says the best antimicrobial efficacy can be achieved with ethanol (60-85%), isopropanol (60- 80%) and n-propanol (60-80%). Alcohol attacks viruses and other disease-causing pathogens by damaging their cell structures. Some alcohols damage the layers that envelop the virus, while some just break down the cells. The novel coronavirus, for instance, is an enveloped virus surrounded by a fat layer. Lipid membrane viruses—like the coronavirus—can be killed using alcohol-based disinfectants and hand sanitizers. They simply break down the membrane or the layer of fat, leaving the virus unable to infect an individual. Soap, in this case, is also an effective solution.

According to the CDC, it's important to remember that hand sanitizers might not be as effective if your hands are greasy or visibly dirty. While hand sanitizers are effective in clinical settings like hospitals, where hands come in touch with germs but are not heavily soiled, they are not really the best option if you have just handled food, played sports or worked in the garden, for instance."

Comparative Study of adding Chlorhexidine Concentrate to alcohol-based Hand Sanitisers

A study was done on Health Care Workers using Ethanol only based sanitisers and Ethanol with Chlorhexidine Concentrate added to it. "Alcohol-based hand sanitizers, while effective, do not provide **sustained** antimicrobial activity." The results of the study showed that on bare hands, the Ethanol based hand sanitiser with Chlorhexidine Concentrate added to it was associated with significantly lower aerobic bacterial counts and CFU (colony-forming units), both immediately after use and after spending time in ICU Common areas

A recommended 0.1% solution for: Disinfection of Respiratory and Anaesthetic Equipment; Hand Disinfection of Kitchen workers and Food Plant Workers; General Disinfection of Premises and Food Manipulation areas of Food Plants **Omega Laboratories*

Ethanol or nPropanol?

Ethanol (ethyl alcohol) is used worldwide in healthcare facilities for hand rubbing. It has been described to have a stronger and broader virucidal activity compared to propanols. The aim of this review was to describe the spectrum of virucidal activity of ethanol in solution or as commercially available products. A systematic search was conducted. Studies were selected when they contained original data on reduction of viral infectivity from suspension tests (49 studies) and contaminated hands (17 studies). Ethanol at 80% was highly effective against all tested 21 enveloped viruses within 30s. Murine norovirus and adenovirus type 5 are usually inactivated by ethanol between 70% and 90% in 30s whereas poliovirus type 1 was often found to be too resistant except for ethanol at 95% (all test viruses of EN 14476). Ethanol at 80% is unlikely to be sufficiently effective against poliovirus, FCV, polyomavirus, HAV and FMDV. The spectrum of virucidal activity of ethanol at 95%, however, covers the majority of clinically relevant viruses. Additional acids can substantially improve the virucidal activity of ethanol at lower concentrations against e.g. poliovirus, FCV, polyomavirus and FMDV although selected viruses such as HAV may still be too resistant. The selection of a suitable virucidal hand rub should be based on the most common viruses prevalent in a unit and the user acceptability of the product under frequent use conditions. * *www.researchgate.net*. nPropanol proved to be the fastest acting disinfectant in a study **National library of Medicine* "Both alcohols are capable of dissolving lipids, which makes them effective against lipid-wrapped viral cells…But the most important of all is to rub the alcohol while applying it to make it more effective." **journal.com.ph*

Why is adding Distilled Water necessary?

Sanitisers should not be used and are not as effective at the full strength. In Sanispray+ and Sanispray-N where 99.9% nPropanol and 96.4% denatured Ethanol is used, distilled water is added to enhance the effectiveness of the product. The water used to dilute the solution enables the alcohol to penetrate the cell wall more completely which permeates the entire cell, coagulates all proteins and therefore the microorganism should die. The water content also slows evaporation of the alcohol, increasing surface contact time and enhancing effectiveness. **PAC manufacturers of Medical Disinfectants*

ADDITIONAL INFORMATION ON FABRIC MASKS

There is much debate about the best fabric to use in cloth masks but all research shows that whatever fabric used it should be a tight weave (or high thread count) to filter, should be at least 2 layers (preferably 3 layers) and still allow one to breathe easily. It should also feel comfortable against the skin and not have too much lint that can be inhaled. We have attached the following information for your reference.

What is the best material to use?

"The researchers used an aerosol mixing chamber to produce particles ranging from 10 nm to 6 µm in diameter. A fan blew the aerosol across various cloth samples at an airflow rate corresponding to a person's respiration at rest, and the team measured the number and size of particles in air before and after passing through the fabric. One layer of a tightly woven cotton sheet combined with two layers of polyester-spandex chiffon -- a sheer fabric often used in evening gowns -- filtered out the most aerosol particles (80-99%, depending on particle size), with performance close to that of an N95 mask material. Substituting the chiffon with natural silk or flannel, or simply using a cotton quilt with cotton-polyester batting, produced similar results. The researchers point out that tightly woven fabrics, such as cotton, can act as a mechanical barrier to particles, whereas fabrics that hold a static charge, like certain types of chiffon and natural silk, serve as an electrostatic barrier. However, a 1% gap reduced the filtering efficiency of all masks by half or more, emphasizing the importance of a properly fitted mask." **www.sciencedaily.com*

Why we chose Flannel and Cotton for pleated Mask?

We chose Flannel and Cotton because of research that we have seen that claims it is a superior product. It has a tight weave and is soft against the skin, and it is safe to use. After all both materials are what your high quality sheets and sometimes pyjamas are made from. With our insert filter which is only over the mouth and nose area and is the 'inbetween' layer, it is still comfortable and although 3 layers, does not obstruct breathing. It is however also affordable

What material for the filter?

Any filter materials like coffee filters, even a paper towel. We chose the non-woven wax strip because it is 100g and we know that when waxing even the wax does not penetrate easily. Filters should be changed regularly. Filters made from Chiffon would also be viable.

Materials for Cone Mask

Outer Layer: Spandex which is a polyurethane plastic material used in Sports clothing because of its ability to 'wick' moisture and stretch. It is hydrophobic ie it does not absorb much moisture and allows moisture to evaporate quicker. It is stretchy and breathable

Middle Layer: Chiffon is 100% polyester, a 'plastic cloth' which is durable, lightweight and breathable. It is also non-absorbent allowing moisture to evaporate before being drawn into the material. Chiffon also holds a static charge which serves as an electrostatic barrier.

Inner Layer: 200 thread cotton has high filtering capabilities and is comfortable against the skin. The thread count is the density of fabric, or number of yarns per cubic cm. Used in a mask the 200 thread cotton takes longer to get wet as the moisture from your breath passes easily through the fabric and evaporates

Nose wire: the nose wire inserted assists with keeping the mask fitted close to the face. It is especially beneficial to those who wear glasses/spectacles as it assists with preventing your glasses from misting up

Disposable or Reusable?

It has been discussed that all disposable used in Salons need to be disposed of in Sharps containers and taken away by a reputable Company who will then issue you with a Certificate. There is estimated to be a large amount of waste with disposable bedsheets, tissues, cottonwools, disposable gloves, aprons etc. We have therefore investigated re-usable items that can be thoroughly sanitised eg reusable plastic plinth cover, reusable plastic apron, cloth masks.