NAL, city firm develop safety suits

SPECIAL CORRESPONDENT
BENGALURU

City-based premier central lab National Aerospace Laboratories has said it has jointly developed a multi-layered protective wear or coverall for healthcare and other professionals who handle COVID-19 infected patients and situations.

The polypropylene-based laminated non-woven personal protective equipment (PPE) was developed with MAF Clothing Pvt. Ltd., Bengaluru. NAL and MAF plan to increase the daily production capacity to about 30,000 units in four weeks' time.

NAL Director Jitendra J. Jadhav said the coveralls would be priced well below that of other manufacturers. The import content is negligible.

NAL, which designs and develops civil aircraft, is a research centre under the Council for Scientific & Industrial Research.
CSIR-NAL develops personal protective suit to combat COVID-19

PTI (AUTHOR_ARTICLES_ALL.CMS?QUERY=%22PTI%22&AUTHOR=PTI&PAGE=1) | APR 17, 2020, 21:36 IST

Bengaluru, Apt 17 (CSIR-National Aerospace Laboratories here along with MAF Clothing Private Limited has developed and certified polypropylene spun laminated multi-layered non-woven fabric based Coverall to ensure the safety of doctors, nurses, paramedical staff and health care workers who are working round the clock to fight COVID-19.

CSIR-NAL and MAF, Bengaluru have plans to augment the production capacity to about 30000 units per day within four weeks time, the CSIR-NAL said in a statement.

"The major advantages of these coveralls are that they are highly competitive in price as compared to other manufacturers and the import content is negligible," Jitendra J Jadhav, Director, CSIR-NAL was quoted as saying.

He also stated that the South India Textile Research Association (SITRA) team worked round the clock for this national cause by accelerating the testing process.

"CSIR-NAL team lead by Dr Harish C Barshilia, Chief Scientist, Dr Hemant Kumar Shukla, M J Viju of MAF have formed quickly the solution to this problem by identifying suitable indigenous materials and innovative manufacturing processes," the press release stated.

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Press Trust of India | Bengaluru | April 17, 2020 Last Updated at 21:36 IST

CSIR-National Aerospace

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The coveralls have gone through stringent testing at SITRA, Coimbatore and have been qualified for use.
Health-care workers across the nation are at high risk, as they have to work in a high viral load environment. To safeguard medical personnel deployed in COVID-19 treatment clinics, the National Aerospace Laboratories (NAL) has developed cost-effective and quality-certified fabric-based personal protective suits. NAL, along with MAF Clothing Private Limited, has developed these suits.

“The major advantages of these coveralls are that they are highly competitive in price as compared to other manufacturers and the import content is negligible,” Jitendra J Jadhav, Director, CSIR-NAL. The cost of the product is 500-600 rupees per piece as compared to those available in the market at 2000-3000 rupees per piece.
“We found polypropylene spun-laminated, multi-layered non-woven fabric as the best material for making the coverall or suits after testing a lot of fabric materials,” said Dr. Harish C Barshilia, Chief Scientist, NAL.

The non-woven fabrics are engineered fabrics that may have a limited life. Although it can be used only once, the fabric stands the test of durability very well. Known for its sterility, non-woven fabrics also have the ability to repel liquids, absorb, bar bacteria. The joints of the suits have been sealed with innovative manufacturing processes by using slide machines so that neither blood nor a virus can penetrate the coverall.

In the first week, 5000 units would be manufactured, in the second to the third week, the production would be scaled up to 10,000 to 20,000 units. CSIR-NAL and MAF, Bengaluru, have plans to augment the production capacity to
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Jyoti Singh

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Bengaluru, cost-effective, Covid-19, Dr Harish Barshilia, India
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Disclaimer :- This story has not been edited by Outlook staff and is auto-generated from news agency feeds. Source: PTI
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The polypropylene spun laminated multi-layered non-woven fabric based coverall can be used to ensure the safety of Doctors, Nurses, Paramedical staff and Health Care workers working round the clock on COVID-19 mitigation.
ALSO READ: Another CSIR lab to start genome sequencing of novel coronavirus

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CSIR-NAL develop Personal Protective Coverall Suit to Combat COVID-19

CSIR-NAL team lead by Dr. Harish C Barshilia, Dr. Hemant Kumar Shukla, and Mr. M J Viju of MAF have worked quickly to find the solution to the problem by identifying suitable indigenous materials and innovative manufacturing processes.

CSIR constituent Lab in Bengaluru, CSIR-National Aerospace Laboratories (CSIR-NAL), along with MAF Clothing Pvt. Ltd., Bengaluru has developed and certified the overall protective coverall suit. The polypropylene spun laminated multi-layered non-woven fabric based coverall can be used to ensure the safety of Doctors, Nurses, Paramedical staff and Health Care workers working round the clock on COVID-19 mitigation.

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Tags: #CSIR #Nal #PPE #Dr #Harish #C #Barshilia #Dr #Hemant #Kumar #Shukla #Mr #M #J #Viju #MAF
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KGS/( DST- CSIR)
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Twitter: @ashajyoti11
Shekhar Mande Retweeted

jitendra @jitendr09128100 · Apr 26
Replying to @shekhar_mande @CSIRNAL and 5 others
Thank you very much, sir. Your one motivational call had done wonder. It is a great pride to CSIR. I must thank my scientists Dr harish, Mr Shukla, Mr Kamliasha and team who has collectively work with Mr. Vijju and the team at MAFL to get PPE certified and initiate production.

Shekhar Mande @shekhar_mande · Apr 26
#CSIRfightsCovid19

Very proud of @CSIRNAL @CSIR_IND for developing much needed PPE's & delivering to Govt.- much relief to healthcare workers across the country but also providing employment to hundreds of people- mostly women.
@smritiirani @drharshvardhan @PMOIndia @PIB_India
ಮೇಳೆ

metropv@prajavani.co.in
கேரானா சகைசகான பப கவச உைட; இத்திபு நீதிலீலை ஆப்பாலும் லெவார்கையும்:
நூறு நாள்காலம் 30,000 தயாரிக்கப்பெறும்


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கேரானா சகைசகான பப கவச உைடம் அளிப்பாலும் இல்லை. சைனாவின் கேம் லட்சமில் செயல்பட்டு வருகிறது அவரது இணையத்தில் செய்யப்பட்டுள்ளது. கவச உைடம் இன்று கேரானா நீதிலீலை ஆப்பாலும் லெவார்கையும் நூறு நாள்காலம் 30,000 தயாரிக்கப்பெறும்.

கேரானா பப கவச உைடம் வழங்கும் தன்னாளில் சராசரியான கவச உைடமும் வழங்கப்படும் கோரிச்சாக கள்ளைகளும், வழங்கும் பப கவச உைடம் வழங்கும் தன்னாளில் சராசரியான கோரிச்சாக கள்ளைகளும் வழங்கப்படும். கேரானா பப கவச உைடம் வழங்கும் தன்னாளில் சராசரியான கோரிச்சாக கள்ளைகளும் வழங்கப்படும்.

இந்தியாவின் கோவை வைரலுக்கான கிராமத்தை நூறு வருமான வெப்பம் 2 செகிலோ மீற்றர் விளக்கப்பட்டு வரும் கோரிச்சாக கள்ளை 60 கிளெட்டில் காண வரும் கோரிச்சாக வைரலுக்கான கிராமத்தை நூறு வருமான வெப்பம் 2 செகிலோ மீற்றர் விளக்கப்பட்டு வரும் கோரிச்சாக கள்ளை 60 கிலோ மீற்றர் காண வரும்.

தீச்சொல்: தனிப்பட்ட வைரற்ற லெவார்கை, CSIR-NAL செயல்பட்டு வரும் கோரிச்சாக கள்ளை வழங்கும் பொழுது இல்லை. இதனால் கேரானா நீதிலீலை ஆப்பாலும் லெவார்கையும் நூறு நாள்காலம் 30,000 தயாரிக்கப்பெறும்.
CSIR-NAL கூட்டுநோய் குழுக்களின் கீழ் பணியாளர்களால் நடைபெற்ற (PP) பல்ரேட்டு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு பalahை பல்வேறு பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை பalahை 

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