

Your Air Duct
Welcomes You...



...but, before sitting in front of it, Think Twice!!!



Nirmitee[®]
Innovation. Experience. Excellence

Nirmitee Robotics

World's Leading HVAC Air Duct Cleaning & Sterilizing Company with its Patented Technology

About Nirmitee



Nirmitee Robotics India Limited has opened a 100% owned subsidiary company Nirmitee Robotics AC Maintenance LLC, in Dubai UAE.

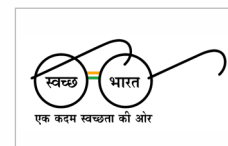
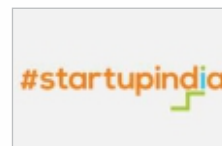
Nirmitee Robotics India Limited is a pioneer HVAC Air Duct Cleaning Company based in Nagpur, India with offices around the world. The company was established in 2016 by a group of young, dedicated, motivated & enthusiast professionals.

The company is listed on the BSE SME Startup Platform and is privileged to have been certified by National Air Duct Cleaners Association (NADCA), British Safety Council (BSC), Indian Green Building Council (IGBC) and Indian Standard Organization (ISO:9001:2015) and is also recognized by the Start Up India Mission. The company is awarded with a "Star International Innovation Award" by the hands of Dr. Frank Mentrup, Mayor Karlsruhe, Germany under "Swachh Bharat Mission".

The company is proud to have developed its own patented, air duct inspection and cleaning robots under "Make in India Mission". The company specializes in Ozone, PHI and UVGI treatments for sterilization of HVAC Air Ducts. The company provides an end-to-end solution for improving Indoor Air quality.

A committed management of the company anchors the organization effectively to its goals of providing high quality services to its clients. Equipped with technical expertise, excellent domain knowledge and extensive cross-functional experience, the company nurtures interactive relationships with the client community.

In such a short span of time the company has repetitively provided services to Indian Railways, Airports, Parliament House, Power Generating Stations, Hospitals, Pharmaceuticals and other world leading brands.





Vision & Mission



Our Vision

Another glorious day. The air as delicious to the lungs as nectar to the tongue.
- John Muir

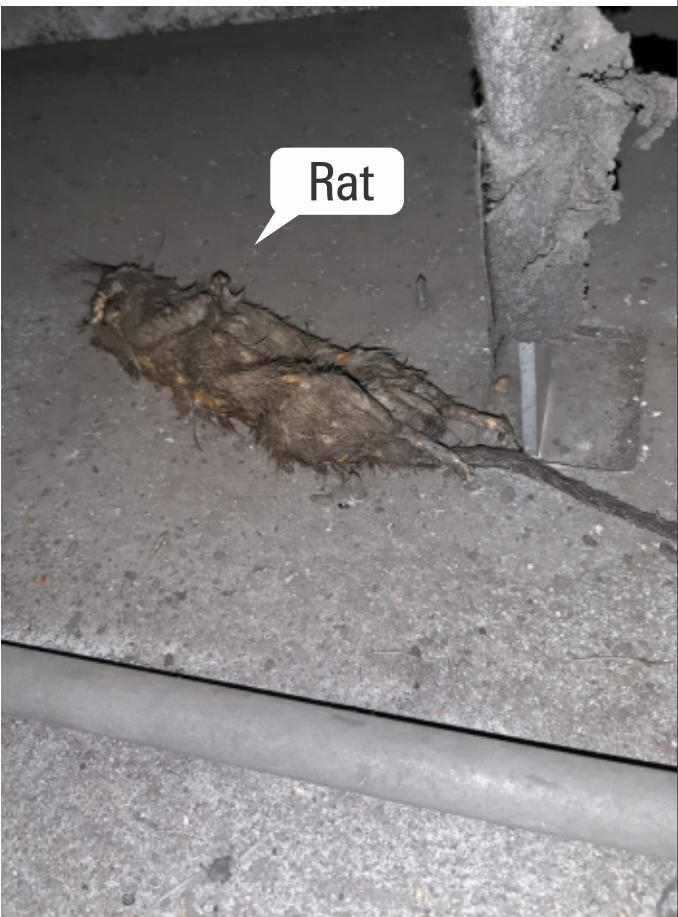
Our Mission

To reach out across the continents and offer a healthy lifestyle through innovative technologies to ensure **people breathe in safe and bacteria free environment.**



REALITY CHECK ! Actual condition inside AC ducts

“ Most people spend 90% of their time indoors. Indoor air levels of many pollutants may be more than 100 times higher than outdoor levels even in the most industrialized cities. ”
The US Environmental Protection Agency





REALITY CHECK

Actual condition inside AC ducts



● FILTER ●



● SUPPLY GRILLS ●



● HUMIDITY ●



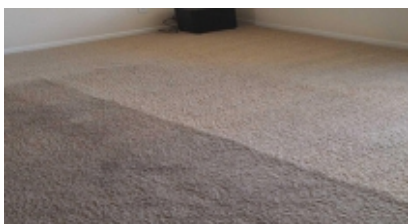
● MICROBIAL GROWTH ●



● CORROSION ●



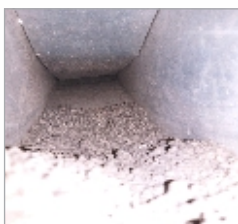
● LEAKY DUCTS ●



● FLOORING & CARPET ●



● CONSTRUCTION DEBRIS ●

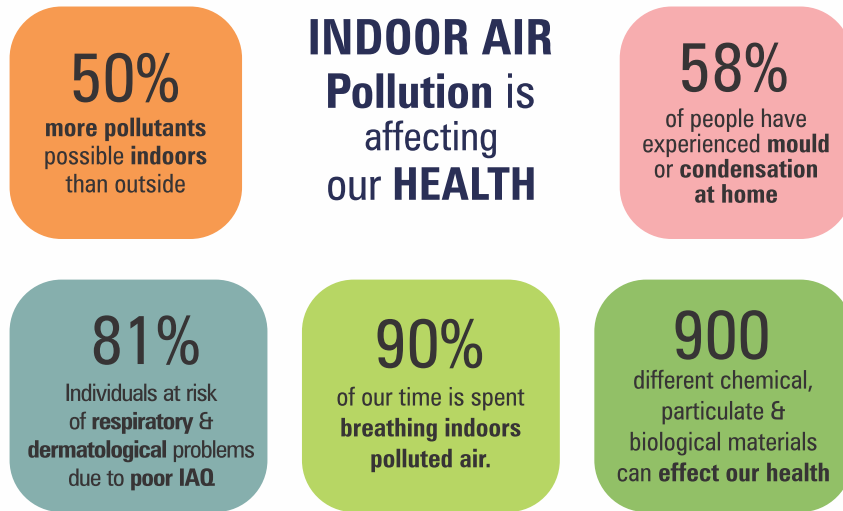


● DUST COTTON ●

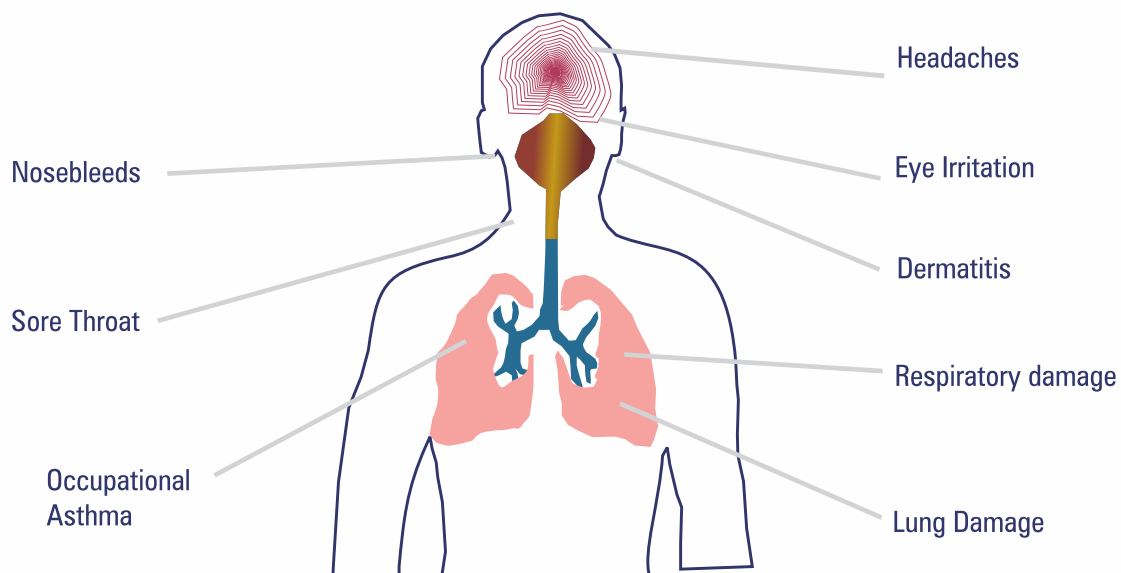
Dust Hazards

Related to Health

“ If You Live In A Home With Chronically Poor Air Quality, You Can Experience Frequent Headaches, Long Lasting Colds And Bronchitis As Well As Chronic Asthma.”
- E. Neil Schachter, Medical Director, Mount Sinai Medical Center, New York



Few Major diseases cause due to dirt



“ Allergies are the most common health problem associated with poor indoor air quality in homes.”
-The American Lung Association

“ 50% of illness are either caused or aggravates by polluted indoor air.
- American College of Allergist & Environmental Protection Agency, USA



Dust Hazards

Related to Equipments

Data Centers



HVAC System



Server Rooms



Dust and Other Contaminants in your server room can pose **A Great Threat To Your Equipments** & affects the system as in the following ways :



RISK OF OVERHEATING



INCREASE IN ELECTRICITY BILLS



DAMAGE SENSITIVE IT EQUIPMENTS

Dirty duct could be A FIRE HAZARD!!



NDTV

500 Evacuated As Fire Breaks Out At Luxury Hotel In Singapore

The blaze involved a kitchen stove and an exhaust duct in a restaurant on the second floor of the Grand Hyatt Hotel in Singapore. WorldAgence ... Mar 27, 2019



Chambersburg Public Opinion

Restaurant inspections: Kitchen fire shuts down popular Chambersburg eatery

17, 2020 (due to a kitchen fire) ... Burger King #1086 ... in cooks area under dirty ventilation ducts, and subject to potential contamination. 1 month ago



“National Fire Protection Act mentions that the duct should be protected from corrosion and shall be cleaned to remove combustible contaminants.”

NEWS

NEWS

NEWS

NEWS

NEWS

NEWS

NEWS

NEWS



Benefits of AIR DUCT CLEANING





REMOVE ODOURS



**IMPROVE
INDOOR
AIR QUALITY**



**EXTEND
HVAC EQUIPMENT
LIFE**



**REDUCES ALLERGENS &
IRRITANTS**



CLEAN & HYGIENIC AIR
FROM YOUR HVAC SYSTEM
RATHER THAN
BREATHING AIR CONSISTING OF
DUST AND GERMS



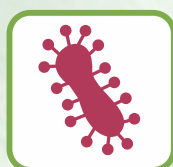
**PROVIDE
A HEALTHIER ENVIRONMENT
FOR ALLERGY SUFFERERS**



**IMPROVES
AIR FLOW
EFFICIENCY**



**SAVE MONEY ON
ENERGY COSTS**



**REDUCES THE POSSIBILITY OF
MOULD GROWTH**



**IMPROVES SYSTEM
DURABILITY**

Why to Choose Nirmitee?

SAFETY ON PRIORITY

A: Safety of YOUR property

Covering before cleaning



Shut down



Fire Safety



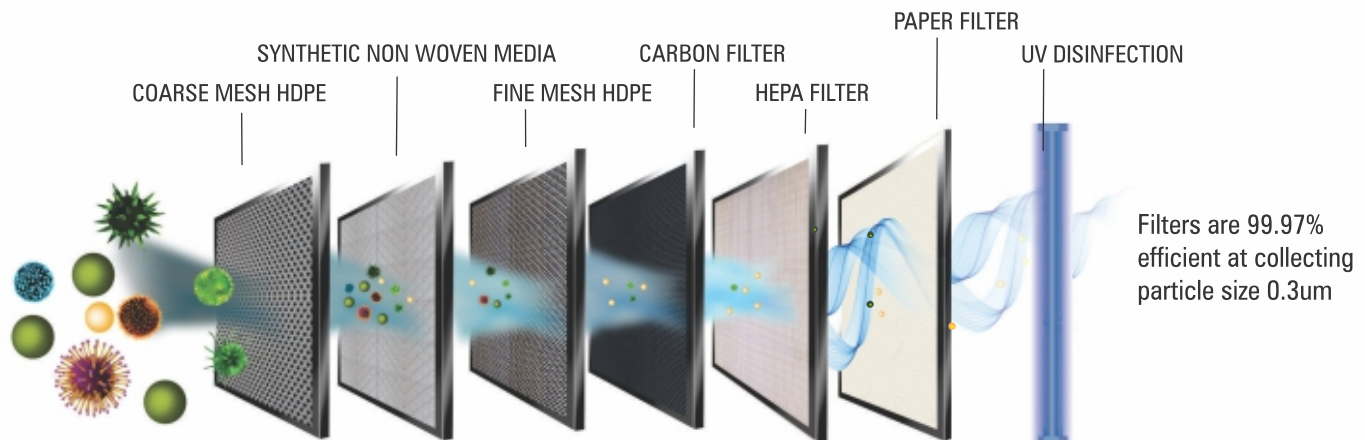
Floor Safety



Wall & Accessories Safety



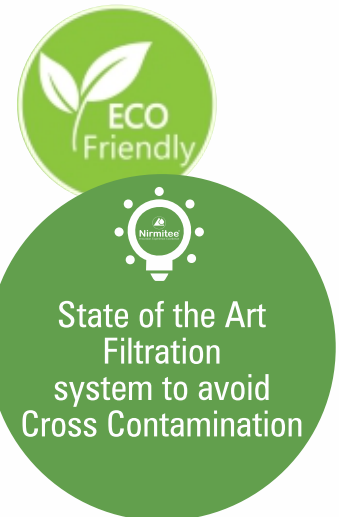
Avoiding Cross Contamination (7 Stage Filtration)



- We give utmost importance to cross contamination while duct cleaning. This involves removing dust, dirt, debris and microbe's, from the duct and arresting these particles inside the air filtration chamber of our machine and releasing just clean air out of the machine.
- This prevents the dirt being released in the surrounding area where the duct cleaning is in process.

ENZYME FILTRATION

Micro-organisms caught with dust multiply on the surface of the filter media and pass through the air filter. Enzyme Filter eliminates active bacteria propagation, spore growth and contamination found on the surface of the air filter. These bacterias, if persist are ultimately disinfected by UVC disinfection system.



B: Machine Safety



Current Leakage Alarm



Over Heating Alarm

All the components of the machine are grounded properly and are CE Certified.



Electrical Switchgears



Emergency Stop

The machine contains Emergency Stop which brings a machine to rest within a second. This feature is added to avoid any damage to the workman and machine.



C: Human Safety

We follow zero accident policy, by developing consistent safety practices and competencies at every level, and creating a culture of responsibility and accountability for all occupants.

All the personal protective equipment provided to the team are as per the direction of Occupational Safety And Health Administration.

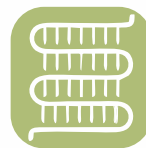
We ensure supporting a healthy, productive team whose contributions are essential to company success.

ABSOLUTE DUCT CLEANING

To improve the indoor air quality **Occupational Safety and Health Administration**, **National Air Duct Cleaners Association** and **American Society of Heating Refrigerating and Air-Conditioning Engineers** recommend the cleaning of :



DUCT



DRAIN TRAY



FILTER



BLOWER FAN



AHU COIL

For complete elimination of dust, we recommend cleaning of carpet and upholstery.

EXPERT IN STERILIZATION

Clean is not enough, hygienically clean is need of the day.

A. Ozonization

For decades it is seen that ozone is the safest and the most convenient option for protecting people by killing dangerous bacteria and viruses.

It's an effective way of disinfection, as the oxidant is in the gaseous state and therefore can spread easily which destroys microorganisms.

According to Japanese research Ozone is effective in neutralising the COVID-19

With such vital properties of ozone in fighting against such germs it is highly recommended to sterilize the duct by ozone



No harmful effects



Safe Byproducts



Most powerful oxidant



Destroys pathogen in seconds

Some Applications of Ozone



Air Purifiers



Drinking Water



Food Industry



Cosmetic Industry

B. Ultraviolet Germicidal Irradiation

- Ultraviolet Germicidal Irradiation (UVGI) is a disinfection method that uses short-wavelength ultraviolet light to destroy microorganisms.

- Ultraviolet Light kills cells by damaging their DNA, exposure of electromagnetic radiation attacks microorganisms and destroys their ability to reproduce.



No Byproducts



Low Maintenance Cost

C. Advanced Oxidation Plasma Cell

- It generates hydroxyl radicals (airborne plasma) using UVC light .
- The radicals decomposes pollutants and inactivates pathogenic viruses and bacteria's and even neutralizes allergic pollens and mold spores



No maintenance



Designed to run 24x7



Pest repellent

Recommended by



AIR QUALITY ASSESSMENT

Indoor Air quality usually refers to the amount of suspended particulate and microbes in the air, we perform specific tests related to these.

A. Suspended particulate matter

We measure suspended particulate matter:

- PM10 : Inhalable particles, with diameters that are generally 10 micrometers & smaller.
- PM2.5: Fine inhalable particles, with diameters that are generally 2.5 micrometers & smaller.

How small is 2.5 micrometers?

Think about a single hair from our head, it is 30 times larger than 2.5micrometers.

B. Microbes calculation using various tests

1. Before ozonisation and after ozonisation
2. On the duct surface
3. On Dust collected from Duct

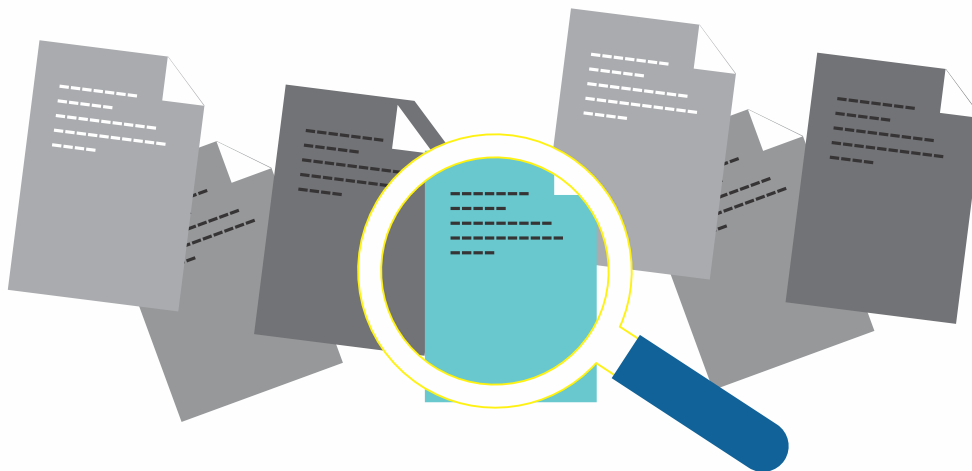
C. Volatile organic compound

We measure volatile organic compound. VOC's are gases that are emitted into the air from products or process.

SPM Meter



STANDARD OPERATING PROCEDURE



Maintains Uniformity
Of Performance

Reduces
Miscommunication

Complex Operations
With Ease

Helps To Comply With
Industry Regulation

Increases Our
Efficiency

Generates Quality Output

TEAM WORK

A: SKILLED EXECUTION TEAM



Skilled And Efficient	Responsive	Genuine To The Commitment	Flexible to Work 24*7
No Outsourcing	Disciplined And Professional	Completes Work Within Time	Ready to Move at Anytime

B: INNOVATIVE IN-HOUSE R&D TEAM



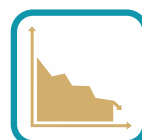
TECHNOPHILE



CRITICAL PROBLEM SOLVER



DESIGNS FOR MANUFACTURABILITY PRODUCTS



IMPLEMENTS COST CONTROL METHODS

Works on Lean production-enables a company to produce only what is required, with the correct quantity and on correct time.

C: SPARKLING OFFICE TEAM



HIGHLY ACCOUNTABLE



RESULT ORIENTED



PROFICIENT TEAMWORK



COMMUNICATION



PROFESSIONAL



WORKS FOR CUSTOMER DELIGHT



FLEXIBLE IN WORKING HOURS



ADAPTABLE TO NEW ETHICS



NEVER MISS OUT ANY LEARNING OPPORTUNITIES

CERTIFICATE

“ We Uphold Highest Level Of Integrity In Our Process & Follow All These Standards. ”

NADCA



PATENT



ISO



BSC



ASCS



CII



BSE



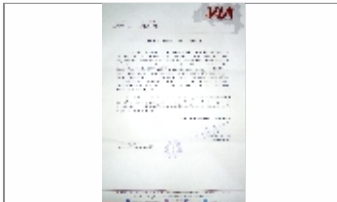
START UP INDIA



IAQA



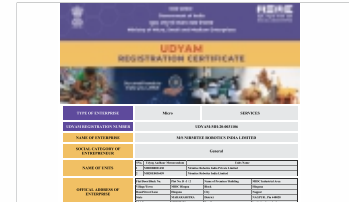
VIA (Make in India)



ISHRAE



MSME



Trade Mark





WORLDWIDE APPRECIATION



His Highness Mr. Walter Lindner Sir, Germany
(German Ambassador to India
Visits & Tweets About Nirmitee)



Mr. Andre Schuko (CEO Schuko), Germany



Mr. Li FengXiang, China



Sheikh Salim Al Rawas, Oman



ISHRAE & ASHRAE Committee



Honorable N. Gadkari
Cabinet Minister, GOI



Life Insurance Corporation, Mumbai



Dr. Frank Mentrup, Mayor Karlsruhe



Star International Innovation Award

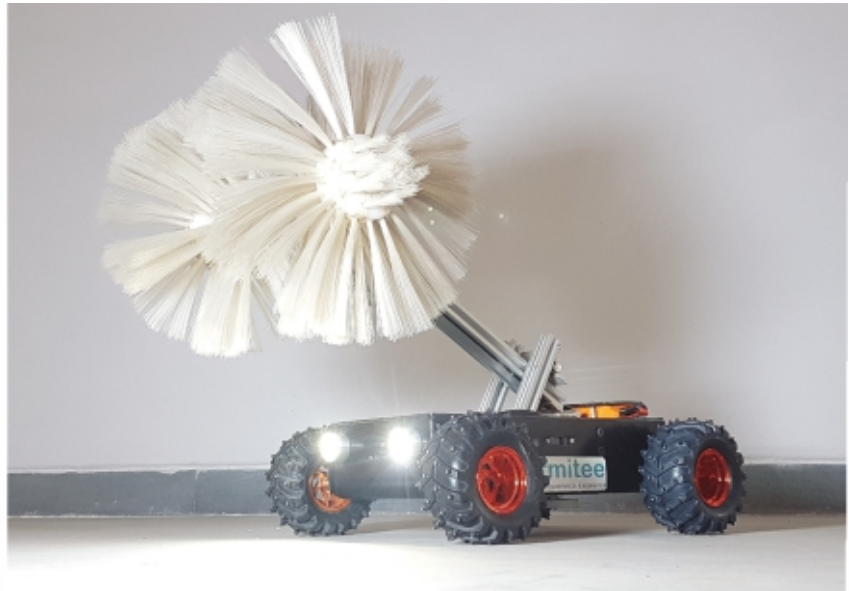
Get in touch with Nirmitee Robotics for Clean Indoor Environment



OUR ROBOTS

ENC

- Vigorous Brushing
- Anti Tilt Sensor
- Wifi Enabled
- Anti Drop Sensor
- Adjustable Cleaning Arm
- Online Screen Status
- Multiple Cameras



ONIC

- High dust collecting Capacity
- High power Suction
- Compact in size
- Light Weight
- 7 stage Filtration to reduce cross contamination.



ODMJ-F

- Fully automated Robot
- Brushing and suction simultaneous operation
- In built screen and vision system
- In built recording and storage
- Powerful suction capacity
- 7 Different Stages filtration to reduce cross - contamination

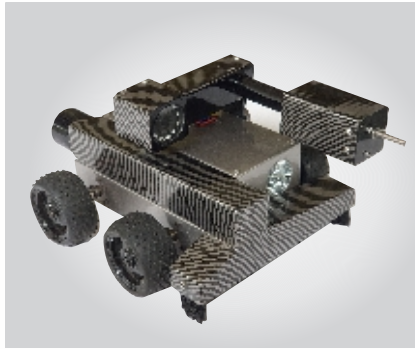




FLEET OF ROBOT



NIB, Inspection Robot
Any Size Duct



DMJ SET,
Small Size Duct Cleaning Robots



ZMJ, Brushing Robot,
Circular Duct



NB, Brushing & Suction Robot
Standard Size Duct



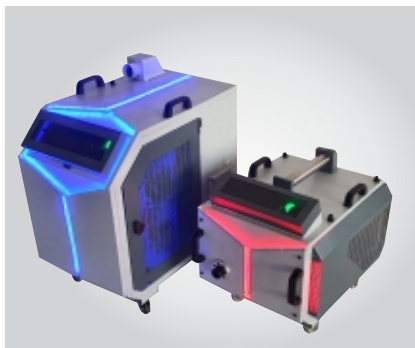
NBB, Brushing And Suction Robot
Duct Size Upto 5 feet



SNAKER,
Brushing Robot, Vertical Ducts



CONTROL PANEL,
Controller Of Robot



INS (B&S)



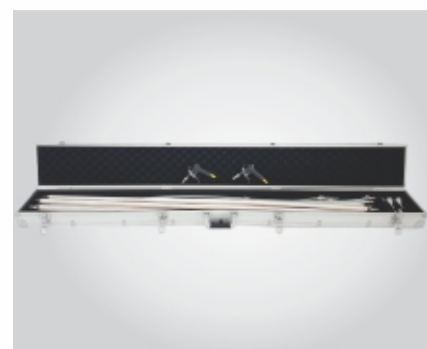
AI-R6, Brushing & Suction Robot,
Standard Size Duct



ONIT, Brushing & High Power
Suction Robot, Pharmaceutical Industries



NIC
Suction Robot



NIG, Pneumatic Robot
Highly Flexible Range

ON SITE PHOTOS

AC COACH



ADANI HOUSE



HALDIA PETROCHEMICAL



Hydro Power Plant



Thermal Power Plant



Train Management System



Vidhan Bhavan



Indian Oil Corporation



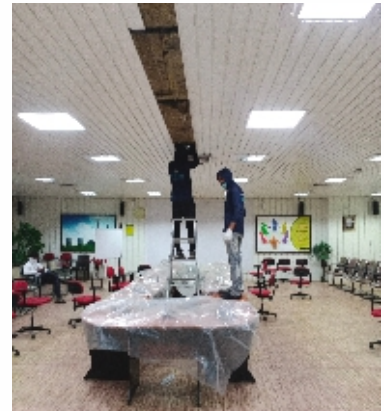
Tata Institute of Fundamental Research



AIIMS



WNS



Troikaa Pharma



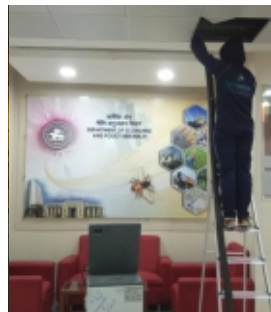
NSPCL



Delhi High Court



RBI

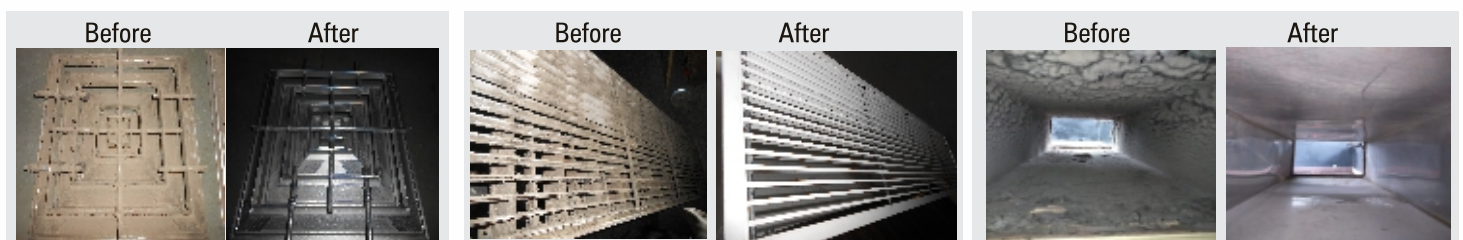
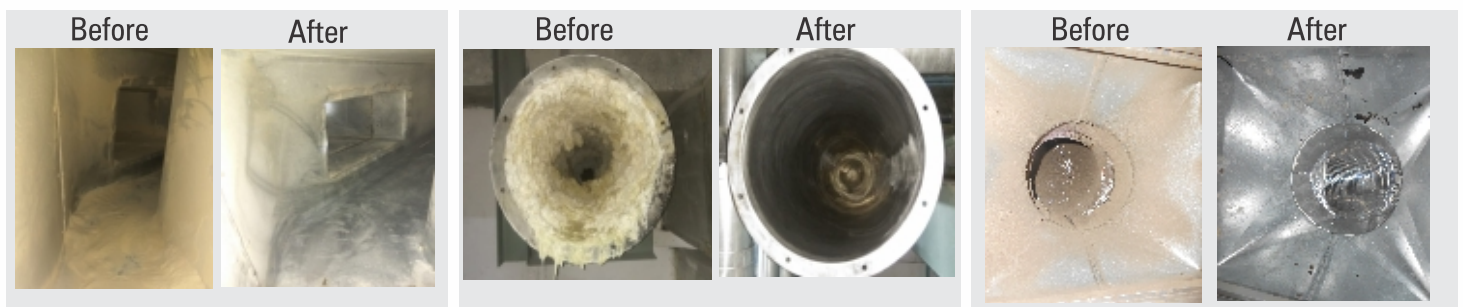


All India Radio





BEFORE CLEANING & AFTER CLEANING



MEDIA RELEASES

NEWSMAKERS

Monday, November 30, 2020

Is dirt in AC duct, a threat to you?

Breathe Fresh, Live Healthy with specialized air duct cleaning Robots

We spend 90% of our time indoors. Over time, Air Ducts accumulate dust, debris, bacteria, mold, insects. The air passing through these contaminated ducts circulate throughout your office or home, and cause air borne diseases, and adversely affect the efficiency of your cooling or heating system and increase power consumption also. Accumulated dust can pose a fire hazard, as all dust is flammable, as air ducts inside closed structures, especially those equipped with air conditioners, is generally not questioned. However, researches have shown that the dust inside AC ducts have the potential to cause as much harm as the air pollution outside. If only we could see and inspect the ducts, we would have known that they too need a thorough cleaning.



Jay Motghare, Founder & Director, Nirmitee Robotics India Limited

in its service to do the inspection, cleaning and post-cleaning operations, it ensures healthier indoor air quality and protection of sensitive equipment from dust and heat. Nirmitee Robotics uses robotic technology to provide HVAC Duct Cleaning and Ozone sterilization services. The company makes customised robots- that clean the inside of HVAC Air Ducts - by scrubbing, sucking, brushing, scraping and removal of the accumulated contaminants taking in consideration the ill effects of cross contamination. The entire set of robots comprises brushing, inspection, scrubber, suction, pneumatic bots and are all fitted with an advanced controller and a high resolution camera. The USP of Nirmitee



Duct Residuals

and live well! The company is equipped and experienced to handle all kinds HVAC Air Duct Cleaning and providing their cleaning services to offices, hotels, convention centers, hospitals, Vidhanbhavan, train coaches, metro and specializations in buildings that house sensitive equipment, like Data Centers and Operation Theaters. With offices in India, Hong Kong, and Dubai, Nirmitee is ready to serve customers around the world.

By a unique combination of its patented Air Duct Inspection Robots to survey your HVAC Air Ducts along with its own fleet of duct cleaning robots, which are employed

is ozone sterilisation which helps in improving IAQ. Ozone neutralises many types of known bacteria and viruses. "Now we are coming with the most economical solar power cleaning solution on a large scale. We have created altogether a new technology which is now recognised by various national and international organizations," says Motghare.

"In this Global Pandemic, Everyone is looking for cleanliness and Hygiene. Throughout the globe all the countries are having some HVAC duct cleaning policies, India should also have certain regulatory policies to clean the ducts. Health is wealth," says Jay Motghare.

THE ECONOMIC TIMES Rise

SMEs list and raise money on BSE SME & Startups platform amidst lockdown

Synopsis
The three SMEs listed during the lockdown period - DJ Mediprati & Logistics Limited, Cospor Engineering Limited, RO Jewels Limited have raised Rs 3.35 crore on an April 2, 2020.

MUMBAI: Amidst the nationwide lockdown announced due to the novel coronavirus pandemic, BSE SME & Startups segment have seen three SMEs and one startup get listed on the exchange. On April 2, 2020, **Nirmitee Robotics India Limited** became the 5th company to get listed on the BSE Startups Platform.

The three SMEs listed during the lockdown period - DJ Mediprati & Logistics Limited, Cospor Engineering Limited, RO Jewels Limited - have raised Rs 3.35 crore on an April 2, 2020 while the newly listed startup Nirmitee Robotics India Limited has raised Rs 3.24 crore.

Nirmitee Robotics India Limited is a pioneer HVAC Air Duct Cleaning Company based in Nagpur with offices around the world. Nirmitee Robotics came up with an initial public offering of 175,200 equity shares of Rs.10/- each (‘Equity Shares’) for cash at a price of Rs 10 per equity share (the ‘offer price’), aggregating to Rs 324.00 Lakhs. The company has successfully completed its public issue on April 9, 2020. Mumbai-based Aryanam Financial Services Limited was the lead manager for Nirmitee Robotics India Limited.

The four companies listed so far on BSE Startups Platform - Alphasoft Techs India Limited, Transport Enterprises Limited, Valencia Nutrition Limited and Tranyway Technologies Limited have been able to raise Rs 22.24 crore from the market and the total market capitalization of these companies as on April 2, 2020 is Rs 62.47 crore. The 322 companies listed on BSE SME Platform have raised Rs 3,320.48 crores from the market and total market capitalization of these companies as on 21st April 2020 is Rs 15,938.07 crore.

The Hitavada

City-based Nirmitee Robotics shines at Dubai World Expo 2020

By Sandeep D. Desai, Chennai
Nirmitee Robotics, a city-based company, has shined at the Dubai World Expo 2020. The company, which is a pioneer in the field of air duct cleaning, showcased its advanced technology and products to a global audience. The company's presence at the expo was a significant milestone, highlighting its international reach and innovative capabilities. The company's robots were displayed in a dedicated booth, attracting the attention of visitors from various countries. The company's CEO, Jay Motghare, expressed his pride in the company's achievement and its commitment to providing high-quality solutions to its customers worldwide.

German company signs agreement with Nagpur-based startup

Business Bureau
The Nagpur-based startup, Nirmitee Robotics, has signed a Memorandum of Understanding (MoU) with a German company, SCHUKO, for the supply of air duct cleaning robots. The MoU is a significant step towards the international expansion of Nirmitee Robotics. The German company, SCHUKO, is a leading manufacturer of air duct cleaning robots and has a strong presence in the European market. The MoU will enable Nirmitee Robotics to supply its robots to SCHUKO, which will then distribute them in Europe. This partnership is expected to boost the sales of Nirmitee Robotics and help it establish a strong foothold in the European market.

INDUSTRIAL PRODUCT REVIEW

India and Germany - A Successful Start to Business Collaborations

ASHISH PANDIT
ashish@india-business.com

The MoU which is the official representation of the State of Baden-Württemberg Government for the state of India. The MoU is a significant step towards the international expansion of Nirmitee Robotics. The German company, SCHUKO, is a leading manufacturer of air duct cleaning robots and has a strong presence in the European market. The MoU will enable Nirmitee Robotics to supply its robots to SCHUKO, which will then distribute them in Europe. This partnership is expected to boost the sales of Nirmitee Robotics and help it establish a strong foothold in the European market.

Lokmat Times

Nagpur-made technology to be applied in Europe

Business Bureau
Nagpur-made technology is set to be applied in Europe. The Nagpur-based startup, Nirmitee Robotics, has signed a Memorandum of Understanding (MoU) with a German company, SCHUKO, for the supply of air duct cleaning robots. The MoU is a significant step towards the international expansion of Nirmitee Robotics. The German company, SCHUKO, is a leading manufacturer of air duct cleaning robots and has a strong presence in the European market. The MoU will enable Nirmitee Robotics to supply its robots to SCHUKO, which will then distribute them in Europe. This partnership is expected to boost the sales of Nirmitee Robotics and help it establish a strong foothold in the European market.

German co to take up city firm's robots

Business Bureau
Nagpur: German company SCHUKO is close to taking up the city firm's robots. The company, which is a pioneer in the field of air duct cleaning, has signed a Memorandum of Understanding (MoU) with SCHUKO for the supply of air duct cleaning robots. The MoU is a significant step towards the international expansion of Nirmitee Robotics. The German company, SCHUKO, is a leading manufacturer of air duct cleaning robots and has a strong presence in the European market. The MoU will enable Nirmitee Robotics to supply its robots to SCHUKO, which will then distribute them in Europe. This partnership is expected to boost the sales of Nirmitee Robotics and help it establish a strong foothold in the European market.

Nirmitee Robotics Pvt Ltd bags Star International Innovation Award

Business Bureau
Nirmitee Robotics Pvt Ltd has bagged the Star International Innovation Award 2020. The award is a recognition of the company's innovative technology and products. The award was presented to the company by the Star International Innovation Award 2020 jury. The company's robots were recognized for their unique design and advanced features. The award is a significant milestone for the company and highlights its commitment to innovation and excellence in the field of air duct cleaning technology.

TODAY'S GROWING FROM SWEEPING TO SCOUTING OF THE FEET!

The company's robots are now being used for a wide range of applications, including the inspection and cleaning of air ducts in hospitals, schools, and public buildings. The robots are also being used for the inspection and cleaning of air ducts in industrial facilities, such as power plants and manufacturing plants. The company's robots are highly versatile and can be used in a variety of environments. The company's robots are also being used for the inspection and cleaning of air ducts in residential buildings, such as homes and apartments. The company's robots are a game-changer in the field of air duct cleaning technology.

HITAVADA - 19 JULY 19

German Ambassador visits Nirmitee Robotics Pvt Ltd

Business Bureau
Nirmitee Director and the guest, German Ambassador appreciation of the technology of Nirmitee Robotics, says a press release issued here. The German Ambassador, Andre Schuker-Sudhoff, visited Nirmitee Robotics Pvt Ltd on July 19, 2020. The Ambassador was accompanied by his wife, Mrs. Schuker-Sudhoff. The Ambassador was shown a demonstration of the company's robots and their capabilities. The Ambassador expressed his interest in the company's technology and its potential for international expansion. The company's CEO, Jay Motghare, expressed his appreciation for the Ambassador's visit and his commitment to providing high-quality solutions to his customers worldwide.



HAPPY CLIENTS



& Many More...

“ Stop stealing the right of the occupants from breathing fresh indoor air ”

स्वच्छ से स्वस्थ जीवन शैली की ओर
(Towards clean and healthy lifestyle)



Nirmitee[®]
Innovation. Experience. Excellence

Nirmitee Robotics
World's Leading HVAC Duct Cleaning Company

UAE

M-7, Al Nayieli Building, Hor Al Anz East,
Dubai. P.O. Box No.: 98040

+971 50 775 6480, +971 50 701 4920

INDIA

D3/2, MIDC Industrial Area,
Nagpur - 440028 Maharashtra, India.

+91 94 2288 1677, +91 93 7352 2130

www.nirmiteerobotics.com

info@nirmiteerobotics.com

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