



INDIA'S FIRST NON-UV DISINFECTION LIGHTS RELIABLE & EASY WAY TO KEEP INFECTIONS AWAY

in Hospitals, Clinics, Corporate Offices, Class Rooms,
Hotels, Cafes, Theaters, Malls & More..

First Time we have SAFE Anti-Bacterial Power
built into your General Lighting (Patented) that
SELECTIVELY DESTROYS Virus (Corona Virus too),
Bacteria & Fungus thru' Photo-Catalytic Action.

WHO WE ARE



RAYPURE Disinfection Light is
Developed & Produced by
DPIIT STARTUP-INDIA Enterprise
under Make-IN-INDIA initiative



A PRODUCT EVERY
HOSPITAL NEEDS



24/7 Disinfection Capability.
Protects Immunity Compromised
'Recovering Patients' from
Hospital Acquired Infections (HAI)



SUPPORTED BY
CCMB & ICMR



RAYPURE is india's only
CCMB validated lighting with
Disinfection that's non-UV &
verified as Safe-to-Humans.



FIT n FORGET
NIL CONSUMABLES

No Chemicals-Toxins, Noise
No UVC Harm to Skin/Eyes
No Filters to replace
No Recurring Costs



LEDCHIP INDUS PVT LTD
Hyderabad-500062



www.raypure.in



sales@ledchipindus.com



About us



KWALITY-LEDCHIP-RAYPURE

Raypure is the first & only Non-UV Safe-to-Humans Indoor Anti-COVID Anti-Microbial Lights that DISINFECTS Bacteria, Fungus and Virus including COVID virus as well, as validated by CCMB. As per CCMB Test Reports, the Raypure kills 95% Sars-CoV2 Virus in just 60 mins.

RayPure is a subsidiary of LEDchip Indus P Ltd which are part of Kwaliti Group. Raypure is produced by LEDchip Indus P Ltd, the pioneer in LED production in India since three decades headed by Scientist Engineer Gold Medalist from IISc.

We developed a DISRUPTIVE TECH product 'Raypure' that DISINFECTS round the clock, even as it LIGHTS UP the INDOORS. Being Safe-to-Humans Non-UV, there is NO NEED TO EVACUATE the occupants.

Protect your Senior Parents in Homes, your Spouses in Offices, your young children in Schools, Health Warriors in Hospital OT. Protect immunity compromised patients from Hospital in ICUs.

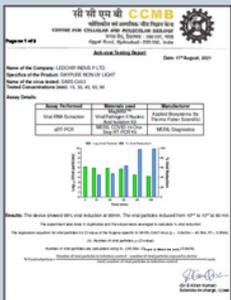
Raypure is ideal harmless disinfection method for Pharma CleanRooms & crowded locations like Malls, Cafeterias, Metro Coaches & Elevators etc.

Use of Raypure for decontamination of air, alleviates the need for evacuation of rooms either to protect occupants from UV rays or from toxic chemicals found in sanitizers & fumigation.

In Raypure the Virucidal & Germicidal Power technology is Blended with the illumination lights.

Raypure is tested & validated for effectiveness direct on live SARS-CoV-2 by ICMR-CCMB. 12 samples showed 50% reduction in just 15 mins & 95% in just 60 minutes.

Raypure is a smart invention for PROTECTING YOUR LOVED ONES 24-7 all through the year. We have the competence & technological to obtain demonstrable Anti-viral & Anti-Fungal control - even for MRSA/ Hospital Acquired Infections - thereby protect the Hospital from customers claims / Liabilities.



CCMB TESTED PRODUCT KILLS 90% OF COVID VIRUS IN 60MINS



COMPLETELY HUMASAFE



TESTED BY LEADING DERMATOLOGIST



ISO9000-2015



CCMB



GeM



BIS



REGISTERED



सी सी एम बी **CCMB**
 कोशिकीय एवं आणविक जीव विज्ञान केन्द्र
 CENTRE FOR CELLULAR AND MOLECULAR BIOLOGY
 उप्पल रोड, हैदराबाद - 500 007, भारत
 Uppal Road, Hyderabad - 500 007, India



Page no 1 of 2

Anti-viral Testing Report

Date: 17th August, 2021

Name of the Company: LEDCHIP INDUS P LTD.

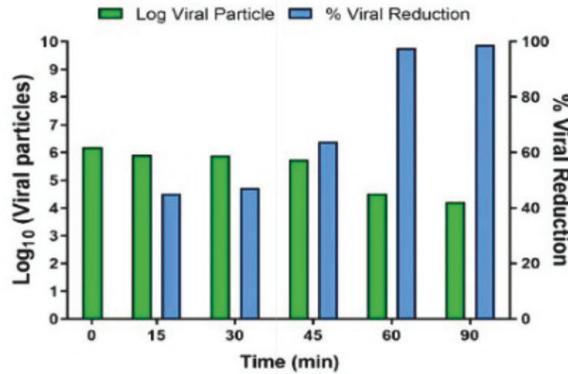
Specifics of the Product: RAYPURE NON-UV LIGHT

Name of the virus tested: SARS-CoV2

Tested Concentrations (min): 15, 30, 45, 60, 90

Assay Details:

Assay Performed	Materials used	Manufacturer
Viral RNA Extraction	MagMAX™ Viral/Pathogen II Nucleic Acid Isolation Kit	Applied Biosystems (by Thermo Fisher Scientific)
qRT-PCR	MERIL COVID-19 One- Step RT-PCR Kit	MERIL Diagnostics



Results: The device showed 98% viral reduction at 90min. The viral particles reduced from $10^{6.2}$ to $10^{4.7}$ at 90 min.

The experiment was done in duplicates and the values were averaged to calculate % viral reduction

The regression equation for viral particles Vs Ct value of the N-gene specific to SARS-CoV2 virus ($y = -3.8424x + 40.364$, $R^2 = 0.9964$)

(X= Number of viral particles, y=Ct value)

Number of viral particles are calculated using $X = ((40.364 - Ct_{N-gene} @ \text{different time points}) / 3.8424)$.

% Viral reduction = $\frac{\text{Number of viral particles in infection control} - \text{number of viral particles exposed to device}}{(\text{test}) \text{ number of viral particles in infection control}} \times 100$



(Dr B Kiran Kumar)
 Scientist-in-charge, CCMB



Dr. C. J. Panchal
Associate Professor

APPLIED PHYSICS DEPARTMENT

FACULTY OF TECHNOLOGY AND ENGINEERING
THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA
VADODARA – 390 001. GUJARAT, INDIA.

DST-FIST & UGC-DRS Sponsored Department

14th October 2021

Certificate of Radiational Safety of Raypure Disinfection Devices

PRODUCT TESTED

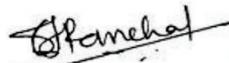
We have been tasked to examine & test the Raypure Non-UV Continuous Disinfection System LED LIGHT, that are employed in Bactericidal & Virucidal application, and are specified to have no radiation that are harmful for human beings.

RESULTS & CONCLUSION

We have examined the Spectral Power Distribution of the Raypure Disinfection device.

We hereby certify that the light emission of Raypure Disinfection device is limited to the range that is within the 'Visible' region of spectrum. Raypure's emissions do not contain any harmful radiation and Raypure emits neither the Ultraviolet UVA, UVB, UVC nor the Infra-Red IR.

Further certified that above emissions of the Raypure light **have no scientifically established adverse effects on humans**, as per the current scientific knowledge.



Dr. C. J. Panchal



UNSW SYDNEY AUSTRALIA Optometry and Vision Science

ACTIVITY OF C-GUARD NON-UV LIGHTS AGAINST CORONAVIRUS

Figure 2: Formula to calculate anti-viral activity

RESULTS

Sample	N	Viral Counts (pfu/ml)	Reduction (%)
Test (60 minutes)	4	20083 ± 6898	33%
Test (90 minutes)	4	8007 ± 4216	73%
Test (120 minutes)	4	6665 ± 1636	78%
Test (180 minutes)	4	1950 ± 305	93%
Control (180 minutes)	18	29981 ± 9567	-

CONCLUSION

The C-Guard lights can reduce the number of viable coronavirus particles by more than 70% after 90 minutes and more than 93% after 180 minutes of exposure to the C-Guard lights.

Ajay Kumar Vijay

Research Fellow

School of Optometry & Vision Science

UNSW Sydney

School of Optometry and Vision Science
The University of New South Wales
UNSW SYDNEY NSW 2052
AUSTRALIA

Note : "Raypure" Non UV disinfection lights are promoted under brand "C-Guard" in Australia & New Zealand

SCHOOL OF OPTOMETRY & VISION SCIENCE, UNSW SYDNEY NSW 2052 AUSTRALIA
T +61 (2) 9385 4639 | ABN 57 195 873 179 | CRICOS Provider Code 00098G

TESTIMONIAL OF APPRECIATION

Oliva has been using Raypure Non-UV Disinfection Lights since August 2021 (4months) as an additional precautionary measure against infections to keep our customers safer from Covid19 and harmful bacteria.

No adverse events have been reported during this period among our staff and clients.

Raypure has conducted measurements of Airborne Bacteria at the premises of OLIVA's facility, Pre & post illumination of single Raypure light of 18W in 2 rooms. The results showed a welcome reduction of 70% of airborne Microbials by over 70% within one hour of illumination by Raypure Anti-Microbial Light.

We also have taken note of the results of the tests conducted on SARS-CoV-2 at the CCMB, which yielded in reduction of SARS-CoV-2 by 95% in one hour.

We have recommended for further installations in our OLIVA HAIR & SKIN CLINICS.



Dr Rekha Singh

Senior consultant Dermatologist

Oliva skin & hair clinics

Corporate Identity Number
U8511TG2008PTC061208



raypure



HORIZON
Biolabs Pvt. Ltd.

True

Lab Address: Plot No: 61/1, Sy.No:374, CIE, Gandhinagar
Expansion, Balanagar, Quthbullapur Mandal, Medchal-
Malkajgiri Dist., Hyderabad, Telangana -500037. India
Regd. Office: Flat No. 312, B-Block, ARK Towers,
Mayurinagar, Miyapur, Hyderabad, Telangana-500049.

E-Mail: admin@horizonbiolabs.com; website: www.horizonbiolabs.com, **Mobile:** 9100006593,9100006591

Approved Testing Laboratory by Drugs Control Administration and Central Drugs Standard Control Organization (Drug Lic. No.: 3/ML/TS/2020/AL/G)

Certificate of Analysis

Form 39 see Rule 150-E (f) (Under the Drugs & Cosmetics Act, 1940 of the Drugs and Cosmetics Rules 1945 there under)		
Name and address of the Ledchip Indus Pvt. Ltd. 29 A&B, Electronic Complex, Rd Number 11, Hyderabad,, Kushaiguda Industrial Area, Kushaiguda, Secunderabad, Telangana 500062		Registration : HBL/180521/014 Customer Ref : NA Receipt Date : 18/05/2021 Date of Analysis : 18/05/2021 Date of Issue : 20/05/2021
Sample Particulars		
Sample : Microbial Load Measurements in Air for RayPure	Mfg. : NA	Exp. Date : NA
Batch : NA	Re-Test Dt. : NA	Mfg. : NA
A.R.No : NA	Mfg. Lic. : NA	Sampling : NA
Batch Size : NA	Sample : 04 Plates	Sample : SS Canister
Supplied : NA	Test : TAMC	
Sampled : NA	Test : As per customer Specification	
S.No	Test	Results & UOM
		Specification
B & C indicate position of plates kept at 6 ft and 12 ft respectively from the source in a closed room of 10ftx12ftx10ft.		
B-Table		
Total Aerobic Microbial Count	32 cfu/plate	Initial condition before using RayPure
C-Floor		
Total Aerobic Microbial Count	12 cfu/plate	Initial condition before using RayPure
B1-Table		
Total Aerobic Microbial Count	07 cfu/plate	Exposed for 30 min after using RayPure for 1 hour
C1-Table		
Total Aerobic Microbial Count	06 cfu/plate	Exposed for 30 min after using RayPure for 1 hour

THE MICROBIAL LOAD IN THE ROOM ENVIRONMENT IS BROUGHT DOWN BY 80% WITHIN JUST 1 HOUR

LEDCHIP INDUS P LTD

RAYPURE CONTINUOUS DISINFECTION SYSTEMS

8008076633/9000081171, sales@ledchipindus.com www.raypure.in

PROTECT YOUR FAMILY, STAFF, SCHOOL, CHILDREN & CUSTOMERS.

LIGHT BHI, GERMICIDAL BHI & SAFE BHI

RDW-WALL FITTING	Model	Wattage	Outer	Cutout	Height / Thick	Room size
	RDWL18W	18W	300x35mm	-	35mm	16' x 12'
	RDL36W	36W	1180X35mm	-	35mm	20'X25'
RDC-RDS CONCEALED-SURFACE FITTING	RDCR6W - RDCQ6W	6W	120mm	93mm	53mm Concealed	8' x 8'
	RDCR12W - RDCQ12W/B	12W	150mm	125mm	53mm Concealed Wall Bracket	12' x 12'
	RDCR18W - RDCQ18W/B	18W	170mm	145mm	53mm Concealed Wall Bracket	16' x 12'
	RDCR24W - RDCQ24W	24W	200mm	175mm	53mm Concealed	16' x 16'
	RDCQ30W/B	30W	242mm	215mm	53mm Concealed Wall Bracket	16' x 20'
	RDSR6W	6W	93mm	Surface-Rfit	57mm Surface	8' x 8'
	RDSR12W	12W	123mm	Surface-Rfit	57mm Surface	12' x 12'
	RDSQ18W	18W	143mm	Surface-Rfit	57mm Surface	16' x 12'
	RDSQ30W	30W	242mm	Surface-fit	57mm Surface	16'X20'
	RDPCQ24W	24W	300mm	285mm	66mm Concealed	16'X16'
	RDPCQ24W	24W	600X300mm		68mm Concealed	16'X16'
	RDPCQ48W	48W	600mm	580mm	72mm Concealed Surface	20' x 25'
1X4 	RDSPL36W	36W	1200mm		72mm Concealed	20' x 25'

RAYPURE - CONTINUOUS DISINFECTION SYSTEMS 8008076633/9000081171, sales@ledchipindus.com www.raypure.in

RAYPURE - CONTINUOUS DISINFECTION SYSTEMS

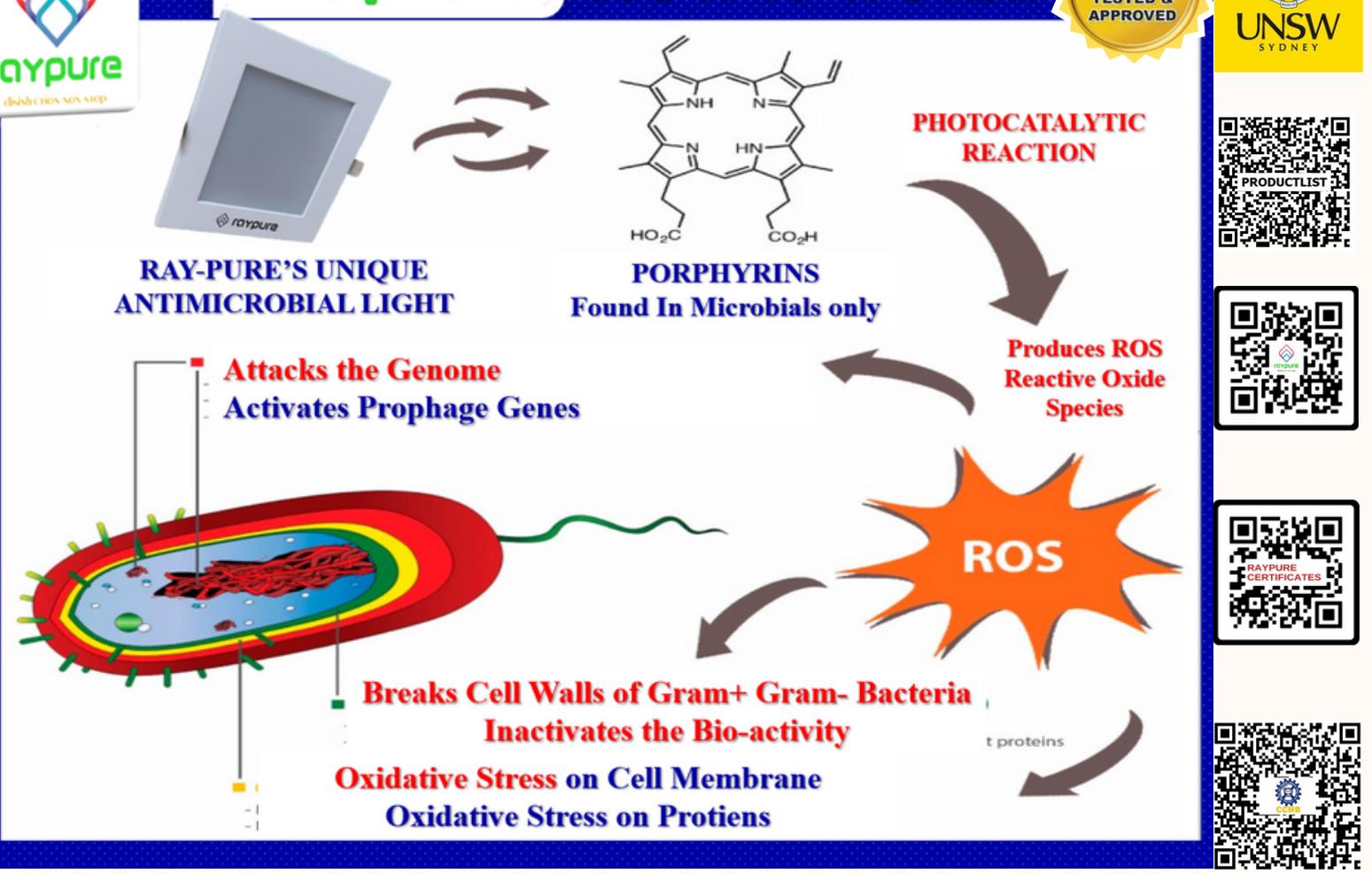
RAYPURE - DISINFECTION at its SIMPLEST

99% Effectiveness for SARS-CoV-2 & H.A.I Pathogens LETHAL for VIRUS - SAFE for HUMANS

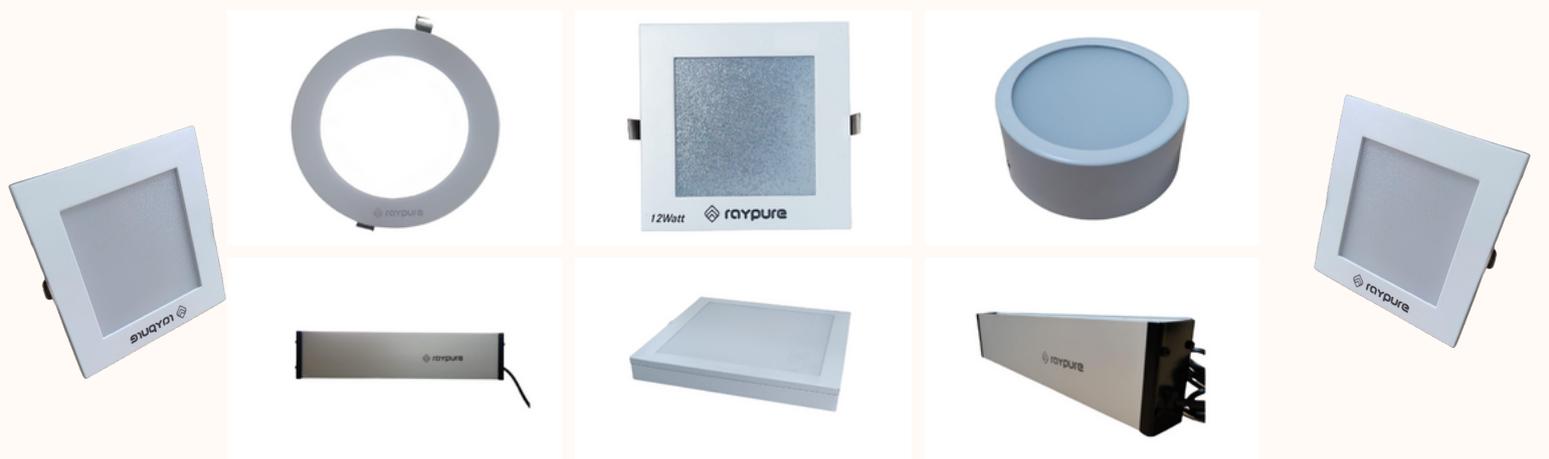
Replaces Light Fixtures in ICUs, OTs, Lifts, Cafeterias, Offices & Homes.

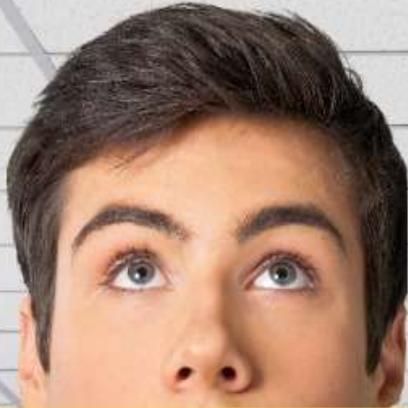


raypure HOW IT WORKS



- Raypure is an Antibacterial, Antiviral, Germicidal light for Home, Schools, Offices, Hospitals, Age Care, Medical Clinic, Emergency Vehicle, Public Transport, and more....
- Raypure Light contains Anti-Bacterial rays with the power to kill the Microbials & safe for humans.
- Centre of Cellular & Molecular Biology (CCMB*)exposed 10 samples of Covid19 Virus, to C-Guard (RayPure) Light irradiance. The results show that within 15 minutes 45% Covid19 Virus was destroyed & 95% in 60 minutes





RAYPURE DISINFECTION
LIGHTING SOLUTIONS TO

- 01** Hospital & Clinics
Can be used at Operation theatres , ICUs & Clinics.
- 02** Hotels & Residences
Can be used in homes, lodges, cafes & restaurants
- 03** Offices & Showrooms
Can be used in Banks, offices, showrooms & Malls
- 04** Theatres, Gyms
Can be used in Indoor stadiums, bus stops, stations.

INDOOR LIGHTING THAT DISINFECTS

RAYPURE has developed lighting solutions for CONTINUOUS DISINFECTION of OCCUPIED SPACES to help reduce exposure to VIRUS, BACTERIA & FUNGUS



Create your own zero infection zone at the cost of LED light

CSIR – CCMB

**TESTED & CERTIFIED
FOR 95% COVID 19
VIRAL REDUCTION
IN JUST 60 MINUTES**