

# Strategic Anchor & Nobel Validation

- Active Daylight Infrastructure Portfolio

**Nobel Prize Validation:** Focused full-spectrum sunlight infrastructure optimized to maximize plant photosynthesis and optimize indoor oxygen availability—directly answering the biological mechanism recognized by the **2019 Nobel Prize in Physiology or Medicine** establishing how "oxygen levels affect cellular metabolism and physiological function"

Dual-Patent Portfolio Delivering Focused Full-Spectrum Sunlight for plant photosynthesis, Healthy Housing, and High-Yield AgTech like Cannabis

**Legal Portfolio:** U.S. Utility Patent US 10455775B2 • Indian Patent Registry IN 410290 • PCT/IB2014/066030

**Ownership Asset:** 100% clean, unencumbered title held independently by Sukhbir Singh Sokhi

**Strategic Classification:** Sustainable Energy Innovations & Energy Efficiency Assets



# The Two-Pronged Environmental Crisis

The Deep Health and Financial Deficits of Modern Insulated Spaces

**The Healthy Housing Crisis:** Modern buildings isolate people from full-spectrum daylight. Locked-in Carbon Dioxide (CO<sub>2</sub>) builds up from basic human breathing, causing Sick Building Syndrome (SBS). This triggers daily headaches, dizziness, chronic fatigue, and anxiety.

**The Human Toll:** Children and elders are hardest hit, spending up to 90% of their time indoors breathing oxygen-deprived air when their growing or vulnerable bodies need it most. This indoor oxygen deficit directly harms the basic biological systems highlighted by the **2019 Nobel Prize in Physiology or Medicine**, which proved exactly how "oxygen levels affect cellular metabolism and physiological function."

**The Commercial Agriculture Crisis:** High-value indoor farming (CEA) relies on power-hungry LED grow lights, causing massive electricity costs. Because indoor grow rooms are warm and humid and lack real sunlight, they become breeding grounds for fungal pathogens (like Powdery Mildew and Bud Rot), destroying 20% to 30% of entire crop yields for **Legal Cannabis farming**.

# The Technology Solution (Biochemical Infrastructure)

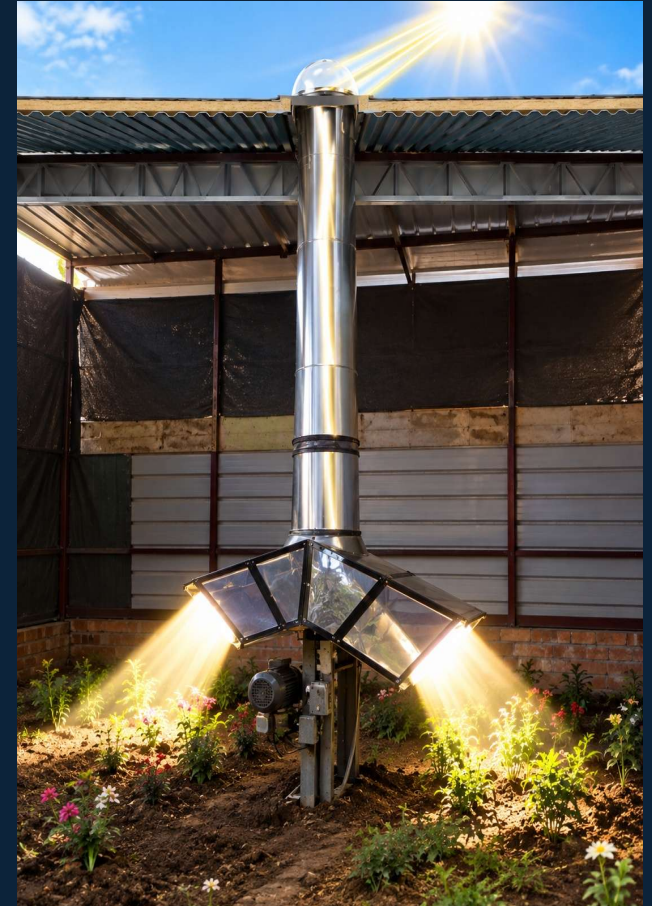
## The Patented 3-Layer Active Optical Hardware System

**1. Rooftop Capture Dome:** A prismatic collection unit that traps raw, ambient daylight at all angles—even during low-angle mornings and evenings.

**2. High-Reflectivity Sun Tube:** A hollow vertical channel (scalable from 12 to 48 inches) lined with ionized aluminum mirror sheets achieving a 99.5% internal reflective index for zero travel light loss.

**3. Automated Rotational Dispersal (Core USP):** A specialized mechanical bent lower pipe driven by a low-draw 0.25 HP motor guided by tracking sensors. It rotates continuously at a precise velocity of 1 Revolution Per Hour (1 RPH).

**The Resulting Chemistry:** Distributes a zero-electricity, life-supporting light field. Indoor plants are forced to rapidly consume locked-in indoor CO<sub>2</sub> as fuel, generating a massive surplus of natural oxygen to passively eradicate Sick Building Syndrome.



# Overcoming the Fatal Gap in Prior Art

Why Legacy Daylighting Systems and Traditional Indoor Plants Fail?

**The Hidden Plant Oxygen Deficit:** Without intense, direct daylight, standard indoor shadow plants cannot produce excess oxygen. Instead, they switch to cellular respiration—consuming oxygen and releasing even more CO<sub>2</sub> into the room.

**The Human Vision vs. Plant Biology Gap:** Legacy skylights (Solatube, Velux, Sunoptics) use rough diffusers to intentionally scatter and break apart sunbeams to protect human eyes. Scattering destroys the intense photon stream required to trigger plant photosynthesis.

**The Patented Rotational Solution:** Your sensor-guided 1 RPH rotating lower pipe sweeps focused daylight across a 360-degree path. This delivers a perfectly balanced, non-burning solar field that pushes plant photosynthesis to its absolute peak, turning plants into powerful oxygen generators.

**The Dehydration Bottleneck:** Traditional unmoving skylights drop a static, stationary beam into a room. This creates localized "hot spots" that rapidly dehydrate and burn plant tissue, making growth impossible.

# Global Addressable Market Framework (10-Year Horizon)

**A Verified USD \$1.523 Billion Total Addressable Market (TAM)**

Addresses the global horticultural grow-light hardware segment. Replaces short-lifespan, high-cost electric LEDs with zero-electricity natural sunlight.

**Pillar 1:** Wellness Real Estate & Healthy Housing – USD \$623 Million TAM

Targets the global green construction materials market. Focuses on insulated homes and high-density urban apartments in immediate need of natural daylighting to lower indoor CO<sub>2</sub> toxicity.

**Pillar 3:** Commercial Viticulture & Sub-Canopy Tools – USD \$400 Million TAM

Targets high-value specialty crop land reclamation. Helps vineyard and orchard conglomerates optimize unutilized acreage currently trapped under deep tree canopy shadows.

**Pillar 2:** Controlled Environment Agriculture (CEA) Grow Hardware – USD \$500 Million TAM

**Institutional Revenue Projection (5% SOM Capture):**  
Establishes a highly realistic USD \$76.15 Million Serviceable Obtainable Market (SOM) engine for the acquiring entity.

# 360-Degree Marketability Across Major Industries

## Multi-Industry Versatility and Commercial Applications

### 1. Sustainable Real Estate & Construction (B2B & B2C):

**Residential Eco-Housing:** Allows builders to charge a 5% to 7% price premium by bundling this as a premium "Healthy Home Package" that eliminates Sick Building Syndrome and saves families thousands in medical bills.

**Commercial Complexes:** Powers green walls in apartment blocks, accelerating premium LEED/WELL certifications to qualify developers for green tax credits and ESG funds.

### 2. Educational & Corporate Facilities:

**Schools/Daycares:** Lowers student exhaled CO<sub>2</sub> to clear out classroom drowsiness and boost immunity.

**Corporate Offices:** Drops corporate sick-leave payouts and increases workforce focus and productivity by 3% to 5%.

### 3. Agricultural Technology & Legal Cannabis (CEA):

Eliminates mega-watt facility lighting bills. Destroys devastating mold, bud rot, and powdery mildew on contact via natural solar UV properties, preventing catastrophic 20% to 30% crop failures.

### 4. Commercial Viticulture & Orchard Land Reclamation:

Allows vineyard owners to grow year-round secondary cash crops (medicinal herbs/greens) on previously wasted shaded land, expanding production yield per acre by 20% to 25%.

# The Commercialization Gap & Market Protection Moat

## Strategic Investor Context and the Ironclad 2013 Priority Shield

**The Investor Advantage:** The portfolio sits in a perfectly clean space. There are no failed retail rollouts, no messy multi-party licensing leaks, and no brand baggage, leaving a fresh slate for immediate corporate enforcement.

**Why the Technology is Open & Fresh:** The post-grant commercial timeline did not stall due to technical flaws, manufacturing issues, or prior art challenges. It was un-intentionally paused **due to the relocation and migration of the independent inventor** from Punjab, India to Calgary, Alberta, Canada.

**Prior Art Blockade:** Your December 8, 2013 Priority Date acts as an ironclad barrier. It has already served as a verified roadblock in official examiner **forward citations to reject newer patent filings by smart AgTech operators like Opti-Harvest, Inc.**

# Maintenance Status & Escrow Safety Framework

## Frictionless Reinstatement and Fully Insulated Corporate Transfer

**The Closing Escrow Protection Layout:** Transaction contracts are structured to use a standard Strategic Reinstatement Escrow Clause. The buyer funds the transaction securely into closing escrow.

**Current Registration Status:** The U.S. registration database currently notes a routine status of "Expired - Fee Related".

**Zero Upfront Risk:** A contractually carved-out sliver of those funded escrow funds is wired straight to the USPTO to settle late fees and activate the patent, fully insulating the corporate buyer from out-of-pocket intermediate risk.

**Standard Procedural Fix:** Reinstatement under standard USPTO regulation 37 CFR §1.378(b) is a straightforward process by demonstrating that the post-grant maintenance delay was completely unintentional.

# Clear Transaction Terms & Diligence Hub

**Header:** Absolute Transaction Boundaries and Direct Communications

**Minimum ongoing utility royalty rate:** 3.5% net gross royalty on hardware sales.

**Valuation Floor (Relief from Royalty Model):** Evaluates the baseline net asset portfolio value at USD ~\$1,385,000.

**Minimum annual royalty guarantee:** USD \$100,000/year starting in Year 2.

**Option A:** Outright Cash Asset Buyout Floor: Set at a firm, minimum closing threshold of USD \$950,000 (pre-factoring a defensive 30% transaction haircut to cover the buyer's downstream manufacturing setup costs).

**Data Room Index:** Complete architectural CAD layouts, physical prototype test logs, file wrappers, and working field videos are fully organized and ready for review by corporate IP counsel.

**Option B:** Master Exclusive Worldwide Licensing Deal:

**Direct Intake Channels:** sukhbirsokhic@gmail.com • sukhbirsokhi@gmail.com (WhatsApp: +91-9781300411)

**Minimum upfront execution fee:** USD \$150,000 paid at signing.

**You tube link:** <https://www.youtube.com/watch?v=HNRP5y7qQiQ>