CHETNA KIRAN INNOVATION PVT. LTD.

- SEARCH & RESCUE
- LIGHTNING PROTECTION
- SEISMIC & VIBRATION SENSORS

Keep In Touch With Us

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ABOUT US

Chetna Kiran Innovation Pvt. Ltd. is a technology-driven engineering company specialising in the development of advanced safety, early warning, and monitoring systems for real-world applications. We design and manufacture indigenous solutions, including seismic early warning systems, landslide and avalanche alert devices, lightning arresters, earthing solutions, and sensor-based alert technologies. Our products are engineered for reliability, accuracy, and rapid response in critical situations. Backed by strong R&D, advanced electronics, and rugged engineering, we deliver field-ready solutions from concept and prototyping to deployment. With a commitment to quality and innovation, we aim to strengthen safety for communities, infrastructure, and disaster-prone regions.

Chetna Kiran Innovation Pvt. Ltd.

Startup & Legal Information

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Mission

To design and deliver reliable early-warning and safety solutions using advanced sensors, real-time alert systems, and innovative engineering to protect people, infrastructure, and communities.

Vision

To become a trusted Indian leader in early disaster warning and smart safety technologies, recognised for innovation, quality, and real-world impact.

Core Values

- Purpose-driven innovation to address real safety challenges
- Reliability and performance in critical conditions
- Customer-focused engineering based on field realities
- Integrity and transparency in all engagements
- Safety-first approach in every solution
- Continuous research and improvement
- Strong commitment to quality across design and deployment

OUR PRODUCTS

Sl. No.	Product
1	THUNDER SAFE –LIGHTNING PROTECTOR
2	S.T.V. EARTHING
3	Advance Natural Disaster Sensing System (ANDSS)
4	STV–WASP (Seismic & Vibration Alert Device)
5	MOSQUITO PROTECTION DEVICE
6	AAPAT DRISHTI (VICTIM LOCATION EQUIPMENT)
7	INTEGRATED RESCUE DEVICE (IRD)

THUNDER SAFE –LIGHTNING PROTECTOR

The Lightning Arrester/Protector is an outdoor electrical protection device designed to safely divert lightning and surge overvoltages to earth, protecting power equipment and infrastructure. It is suitable for station and distribution class installations and ensures reliable operation under high-voltage conditions.

Key Technical Parameters

- Rated Voltage: 11 kV / 33 kV / 70 kV
- Nominal Discharge Current: 10 kA (8/20 μs)
- Power Frequency Withstand Voltage: 1.2 × system voltage
- Impulse Withstand Voltage: 70 kV to 325 kV (peak)
- Creepage Distance: Minimum 25 mm/kV
- Housing: UV-resistant polymeric or porcelain
- Standards: IS 3070 (Part 3), IEC 60099-4 or equivalent
- Grounding: Copper / GI earth conductor, earth resistance < 0.15 ohms

S.T.V. EARTHING

S.T.V. Earthing is a copper-based grounding system designed to safely dissipate fault current and surge energy into the earth, ensuring protection of electrical equipment and personnel. It is suitable for substations, industrial plants, telecom installations, and buildings, and is designed for long-term reliable performance.

Key Technical Parameters

- Earthing Type: Copper plate / Copper rod / Copper strip
- Material: High-conductivity electrolytic copper (purity ⩾ 99.9%)
- Copper Plate Size: 2012 mm × 250 mm × 3 mm / 5 mm
- Copper Rod Size: 14 mm to 25 mm diameter, length up to 3 m
- Copper Strip Size: As per interconnection requirement
- Earthing Pit: Brick masonry or concrete with RCC cover
- Backfill Material: Charcoal, salt, sand, or bentonite compound
- Earth Resistance: Low resistance as per application requirement
- Standards: IS 3043 and relevant IEC standards

Advance Natural Disaster Sensing System (ANDSS)

ANDSS-2 is an early warning device designed to detect abnormal P-wave, seismic vibration, and electromagnetic wave activity beneath the ground. It uses advanced signal processing with a Bio-Organic Filter to block environmental and man-made noise, enabling accurate alerts with a warning time of 2–10 minutes.

Key Technical Highlights

- Detection Parameters: P-wave, seismic vibration, electromagnetic wave activity
- Technology: Bio-Organic Filter–based noise suppression
- Function: Continuous monitoring of energy variations
- Alert Mechanism: Local audio alert with remote alert transmission support
- Early Warning Time: Typically 2–10 minutes (site dependent)
- Application: Life safety and disaster preparedness in hazard-prone areas

STV-WASP (Seismic & Vibration Alert Device)

STV-WASP is a compact seismic and vibration alert device designed for real-time monitoring of abnormal ground or structural activity. It uses an advanced Bio-Organic Filter to suppress environmental and man-made noise, ensuring reliable alerts and supporting timely response in disaster-prone and critical locations.

Key Technical Highlights

- Monitoring Parameters: Seismic vibration, motion.
- Technology: Bio-Organic Filter–based noise suppression
- Operation: Continuous real-time monitoring
- Alert Mechanism: Instant local alerts with remote alert integration
- Application: Disaster response and situational awareness support

Mosquito Protection Device

The Mosquito Protection Device is an eco-friendly system designed to control and repel mosquitoes using non-chemical technology. It provides continuous protection without smoke, odour, or toxic substances, making it suitable for indoor and outdoor use.

- Technology: Ultrasonic and bio-organic mosquito deterrent system
- Operation: Chemical-free and silent operation
- Safety: Non-toxic, safe for humans and pets
- Application: Homes, offices, hospitals, schools, and outdoor areas

AAPAT DRISHTI (VICTIM LOCATION EQUIPMENT)

Aapat Drishti is a portable victim location camera system designed to support rescue teams during disaster and emergency operations. It enables safe visual inspection inside confined and inaccessible spaces, assisting responders in accurate victim assessment.

Key Technical Highlights

- Application: Disaster and emergency rescue operations
- Inspection Areas: Debris, collapsed structures, narrow cavities
- Core Components: High-resolution camera with illumination support
- Output: Real-time video transmission for remote viewing
- Benefit: Accurate victim assessment with reduced risk to responders
- Users: Disaster response forces and emergency rescue agencies
- Range: Up to 6 – 9 meters through debris

INTEGRATED RESCUE DEVICE (IRD)

The Integrated Rescue Device is a portable borewell and confined-space rescue system designed for controlled victim recovery during emergencies. It integrates robotic assistance and mechanical lifting to support safe assessment and retrieval in narrow and vertical environments.

Key Technical Highlights

- Application: Borewell and confined-space rescue operations
- Range: 100 m to 300 m.
- System Integration: Robotic mechanism with motorised winch
- Functional Features: Visual monitoring camera, illumination, and communication support
- Operation: Controlled deployment, stabilisation, and vertical retrieval
- Design: Portable and field-deployable system
- Users: Disaster response forces and emergency rescue agencies

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