

ARETE POWERTECH PRIVATE LIMITED



Arete Powertech

your trusted earthing partners

Who Are We ?

Arete Powertech is pioneer company in Electrical Safety and energy efficient solutions. The company introduced it's first Earthing Safety Solutions in 2008. It's vast technical experience helped to identify best in class Earthing and Solar solutions to customize the needs of each user.

“Electrical Safety of Man, Material and Machinery is the purpose we exists “



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Why Arete Powertech?

There are numerous reasons to choose **Arete Powertech** as your preferred Business Partner, here are the top :

- ❑ An ISO 9001:2015, and ISO 14001: 2015 certified company
- ❑ Our 20 + years' experience for customized cost effective solutions
- ❑ Undoubtedly India's best Electrical safety Solutions
- ❑ Committed to continuous improvement and customer satisfaction
- ❑ Products comply with CE and RoHS standards

We have mastered the art of Total Site and Facility Protection by designing site specific Grounding, Lightning Protection and Solar Systems. We provide solutions that secure operations, protect infrastructures and offer peace of mind.





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VISION

Provide Innovative cost effective Safe and energy efficient solutions.

MISSION

Optimum Power Solutions for a safe & energized world.

Mantra

An electrically safe world !!!



Certifications



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PRODUCT CERTIFICATIONS





Certifications



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COMPANY CERTIFICATIONS

ISO 9001



ISO 14001



For government procurement



WAY FORWARD TO

#startupindia

SERVICE DOMAIN



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Our Services



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Arete Powertech offers a professional and reliable service in the lightning protection and earthing sector :

1. Soil Resistivity Testing
2. Power Quality Auditing
3. Lightning Protection Design
4. Energy Auditing
5. Installation & Commissioning



PRODUCT DOMAIN



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Product Range



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Arete Powertech deals in :

EARTHING SOLUTIONS

1. GI Earthing Electrode
2. Copper Earthing electrode
3. Copper Bonded electrode
4. Conventional Earthing solutions

LIGHTNING ARRESTER

1. ESE Lightning Arresters
2. Conventional Lightning System

SURGE PROTECTION DEVICES

1. Class B
2. Class C
3. Class D
4. Class B&C

SOLAR BASED SOLUTIONS

1. Residential- Roof top
2. Street Lighting
3. Solar Farms
4. Industries



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EARTHING SOLUTIONS

Maintenance Free Chemical Earthing is the most reliable and hassle free solution for Earthing needs in both industrial as well as residential sector. The chemical Earthing or Gel Earthing has an extra edge over other type of conventional Earthing, as it is long lasting, economical, eco-friendly. Last but not the least maintenance free.

When it comes to safety and reliability, the chemical Earthing is quite safe for human life as well for electrical system.



GI Earthing Electrode



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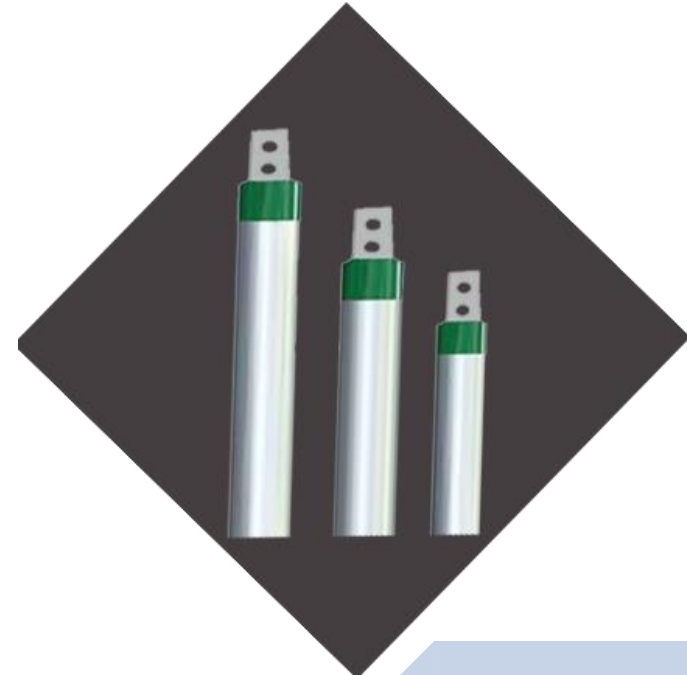
GI or galvanized iron Earthing electrodes are most commonly used for machinery Earthing. AP's GI Earthing Electrodes are designed in a way that it ensures low impedance conductivity due to a non corrosive natural conductor filled in the galvanized tube.

Sizes available

1. Length : 1 meter to 3 meters
2. OD : 25 mm to 100 mm

Estimated trouble free life : 15 years

CPRI
approved





Copper Earthing Electrode



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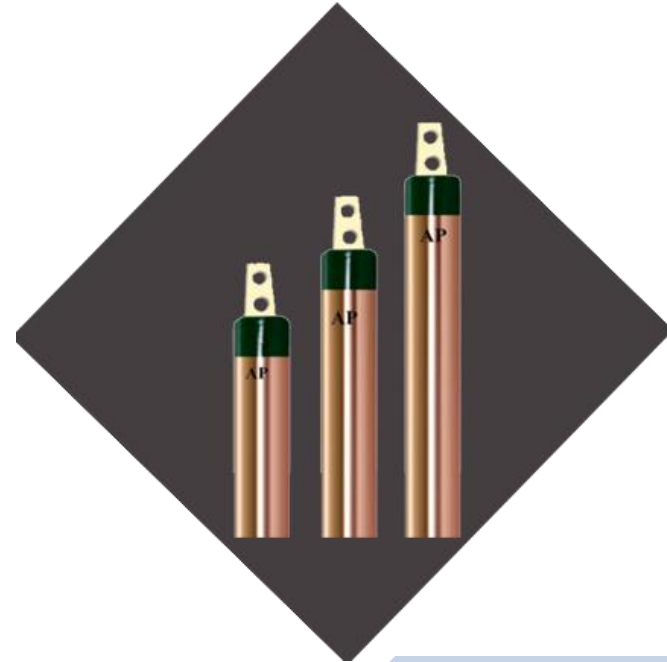
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Directing the fault currents into the ground, copper electrodes are the most preferred choice for almost all types of Earthing. Application – Transformer neutral and mains panel grounding.

Sizes available

1. Length : 1 meter to 3 meters
2. OD : 25 mm to 100 mm

Estimated trouble free life : 25 years





Copper Bonded Electrode



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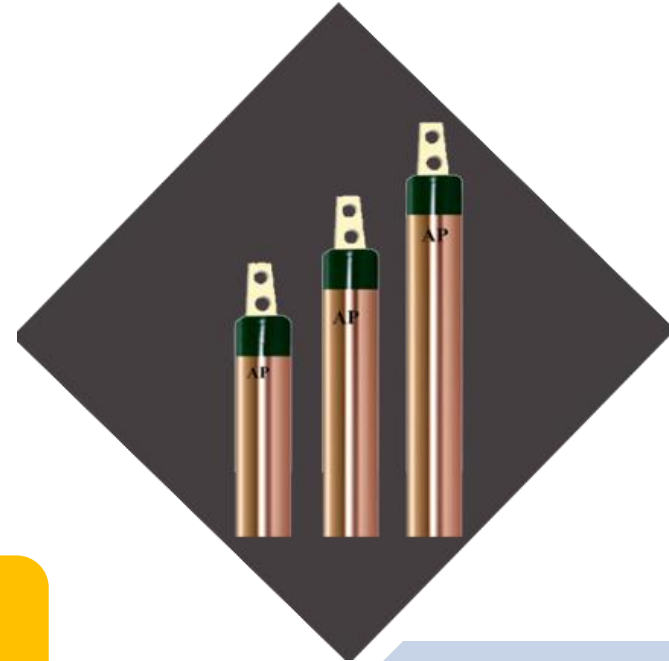
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Copper Bonded Electrode carries equivalent properties of Copper Electrode yet ecumenical. Superior resistance to oxidization, the copper bonded electrodes are considered to be the most preferred equipment for Earthing. Copper coating 100 micron to 250 micron. Mostly used in telecommunication , ATMs and similar applications

Sizes available

1. Length : 1 meter to 3 meters
2. OD : 15 mm to 50 mm

Estimated trouble free life : 20 years



CPRI
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Conventional Earthing

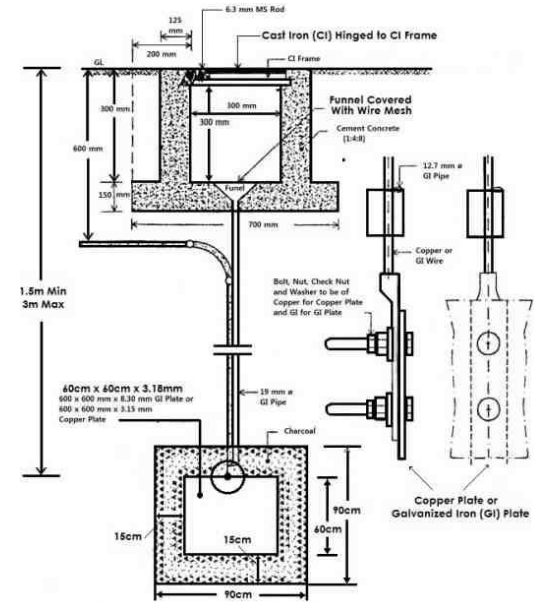


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Conventional affordable cost, highly innovative and cost effective conventional Earthing solutions are also supplied by AP on need basis Solutions. In an electrical installation an Earthing system or grounding system connects specific parts of that installation with the Earth's conductive surface for safety and functional purposes. Two Types

1. Pipe Earthing
2. Plate Earthing





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LIGHTNING ARRESTER

As per statistics, every minute, more than 1,900 lightning flashes fall out over earth's surface. Besides the prevention methods against lightning, there are also methods to safeguard public and industrial places. Lightning and thunderstorms cause a lot of damage to both valuable properties as well as human being. The system has been specially engineered with remarkable features that ensure complete protection from lightning effects.

In simple terms, our lightning protection system make sure that the lightning discharges without damaging non-conducting parts of a structure building.



ESE Lightning Arrester



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Early Streamer Emission(ESE) for protecting structures such as high rise buildings from damage by intercepting flashes of lightning. Engineered with latest technology, these arresters have the capability of withstanding toughest weather conditions. Complies with NFC17-102 and UNE 21186 standards. Range available

- | | |
|----------------------|------------|
| 1. Level I (D=20) | 30 meters |
| 2. Level II (D=40) | 75 meters |
| 3. Level III (D 60) | 107 meters |

Makes available : Gravity, Ionia



CPRI
approved



Conventional Lightning Protection System



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Lightning protection system is considered to be the most useful means by which the discharge in the lightning strike can enter or leave earth without passing through and damaging non-conducting parts of a structure.

Basically, conventional lightning protection system prevents damage by providing a low resistance path for the discharge of lightning energy. Range Available

1. 7 meters
2. 12 meters
3. 20 meters





Lightning Strike Counter



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The Lightning Strike Counter is a functional device that shows the intact operation of the lightning system by counting the strikes of the lightning from air terminal and eliminators. This electro-mechanical counter has 6 digit displays.

This strike counter registers and records the number of strikes handled by a lightning down-conductor.

Makes available : Gravity, Ionia





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SURGE PROTECTION DEVICES

Arete Powertech present a complete range of innovative and reliable surge protection devices to protect the valuable electrical assets from damaging effects of lightning. All the devices are excellent in discharging a very high lightning current, generally from earth to the power distribution system.

These protection devices are easily installed in the main electrical switchboard when the building is equipped with a lightning protection system.



SPD Range



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Arete Powertech have a variety of surge protection devices that includes:

1. Class B Lightning Surge Protection
2. Class B + C Switching Surge Protection
3. Class C Switching Surge Arresters
4. Class D Surge Arresters



Class B Lightning Surge Protection



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Class B type of lightning surge protection device ensures effective transient over-voltage protection components in industrial foundations, business and residential environment.

The class B surge protection devices are required for electromagnetic interferences. These devices are fixed at the top of buildings for the protection of electrical devices when lightning strike the building.





Class C Switching Surge Arresters



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Specially designed for eliminating Power surges, Class C Switching Surge Arresters are impeccably engineered by implementing latest technology. Basically, power surges are spikes in voltage which are very brief, usually lasting millionths of a second.

Fluctuating Surges range from a few hundred volts to several thousand volts and this can damage the electrical equipments. In technical terms, Class C surge protection arresters are electrical devices commonly used to protect Electrical, Electronic instruments or components from power surges.





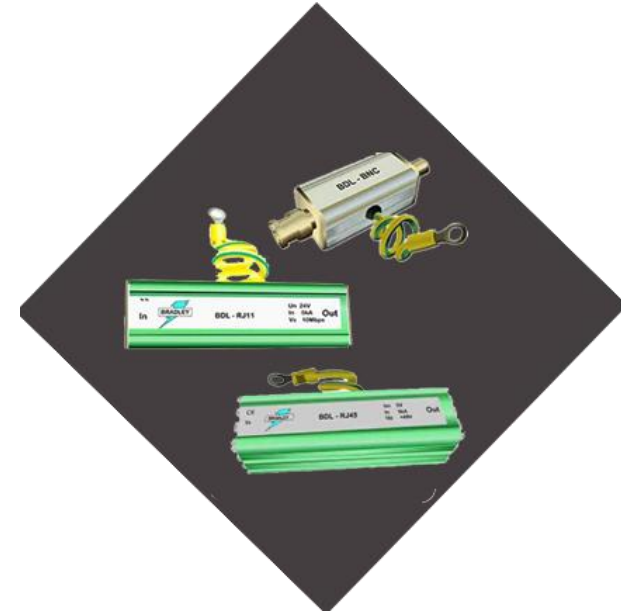
Class D Surge Arrester



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We are best known for manufacturing a complete range of Class D Surge Arresters. These are known for ensuring fine protection to electrical devices against transient over voltage. Best suited when the devices are connected, D class protection devices provide effective protection alone in the places that have not risk so much. Used in Telecom and data centers





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SOLAR BASED SOLUTIONS

Over the years Arete Powertech has maintained a steady growth and has continuously expanded its profile from an OEM and Solution provider to technical consultant and turnkey solutions provider. Our product range complies with UL, CSA, EN, TEC and RDSO specifications.



Solar Panel Module Mounting Structures



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Fully equipped fabrication facility to manufacture hot dip galvanized solar panel module mounting structures for stand-alone & grid connected solar power plants of capacity few KW to MW. Structures can be fabricated & designed as per customer requirement.





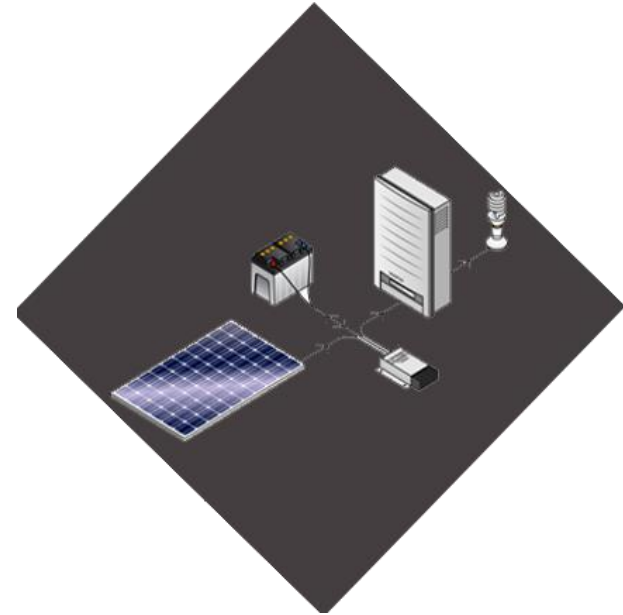
Solar Home Lighting System



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Solar based lighting solutions are designed for rural areas as an electricity backup. They work on batteries and are a complete replacement for traditional methods. Home Lighting Systems do not need fuel and are absolutely silent and require little maintenance. A complete system including modules and batteries are available. They are available in various varieties like Solar Portable Lights, Solar Lighting Systems, Solar Power Packs and Solar Portable Lanterns.





Solar Street Lighting System



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Arete Powertech Solar Street lighting system is an ideal system for the illumination of streets, cross roads etc. Arete provides a fully integrated system combines the latest and most innovative technologies available.

The stand alone solar photovoltaic street lighting system comprises of a LED Lamp as light source. Re-chargeable lead acid battery for storage, PV modules are used for charging the battery, suitable electronics are used for the operation of the lamp and safe charging and discharging of the battery and mechanical hardware





Roof Top Solar Power Plant



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The rooftops in India are custom made for the installation of rooftop solar power plants. The rooftops are full of various structures, heat vents, containers, water tanks, etc.

This is effective utilization of roof top space for generation of electricity is truly showing concern for mother nature.





Solar Power Farm



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We have expertise to supply 100 KW to 5 MW Solar farm projects

We shall carry out Design, supply, PMS ,installation and O&M activities

PPA and Government permissions are in customer scope.





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STARTUP DECK

Arete Powertech has taken protection of life & material due to improper Earthing for problem solving. Conventional Earthing needs watering every 3 months and has 3 years life. Safety of machines, electrical points and appliances become critical

Arete have developed Maintenance Free chemical Earthing which ensures that it delivers < 1 Ohm even after 10 years. 10 year warranty on galvanised earthing & 25 years for copper earthing by us to give customer confidence.

Team Arete is working on 3 domains : Quality - Installation - Processes/ Tools



Arete – The Management Team



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Sanjay Gulati, the Managing Director of Company is a graduate Electronics engineer in Electronics and carries 27 years of industry experience in various sectors such as Consumer durables, Retail, Telecom and Government sector.

Eye for detail is Sanjay's Strength



Mukesh Thakur is dreamer with 20 years expertise in Electrical Earthing field. He is BE Electronics Engineer and MBA. Mukesh is a known name n Earthing technology with lot many improvements & design contributions to this fields.

Mukesh dream Earthing efficiency enhancement even in middle of night



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Earthing Market Players

Players

1. Ashlok
2. JMV
3. True Power
4. Pragati Electrocom
5. Erico
6. Allied Power Solutions

& 200 + Market Players

Potential to improve

1. Staggered industry and no large player consolidation
2. Automation & Standardization

Estimated Market Size

- (a) 10,000cr Per Annum
- (b) Growth rate – 15% CAGR

Industry Constraints

1. Still not seen very technical domain
2. Availability of talent pool
3. Standardization in terms of BIS standards



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Arete: We engineers solve the world

Problem

- ❑ Electrocution accounted for nearly 9606 deaths
- ❑ Loss of life & material due to improper Earthing

Uniqueness of Solution

- ❑ Customised & engineered Earthing Solutions
- ❑ Complete bucket of technical solutions under one roof

Electrically Safe World



Arete – Value Proposition



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Product value proposition

Only company with complete range of Electrical Safety solutions

Service

In-house installation teams with strict site implementation controls and customer satisfaction

Process Improvement

PDCA (Plan Do check Act) practices for continuous operational improvements



Arete: Working towards innovation, scalability and reliability



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Innovation

Human , and material safety risks are evident post advent of electricity applications.

Arete Maintenance free chemical Earthing are designed to overcome the cons of the conventional Earthing thus providing more consistency, less maintenance and longevity.

Scalability

Company Credentials : NSIC approval taken . Product Credentials: CPRI approved.

Now Targeting SEB & PSU registration. in next 6 months.

Working towards establishing strong dealer and distribution channel Internet advertisements, trade show, customer connect programs , market visits.

Reliability

The process controls and tests are being practised to enhance product and service reliability

Product reliability gives repeat and long term customers



Potential Users of Arete Powertech Products



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Indian / State Government

1. Defense
2. MES
3. Air force
4. PSUs e.g, NTPC, BHEL, Powergrid, REC
5. CPWD/ PWD

Private Players

1. Airports
2. Metros
3. Large players like L & T, LANCO, Tata Projects

Solar farms

1. LANCO
2. Azure
3. Sterling & Wilson
4. Vikram Solar
5. Mahindra Tech
6. Hero Future
7. Tata Solar

State Electricity boards Railways/ RDSO/ RITES

Telecom

1. Indus Towers
2. ATC
3. Bharti Infra
4. BSNL
5. Vodafone
6. Airtel



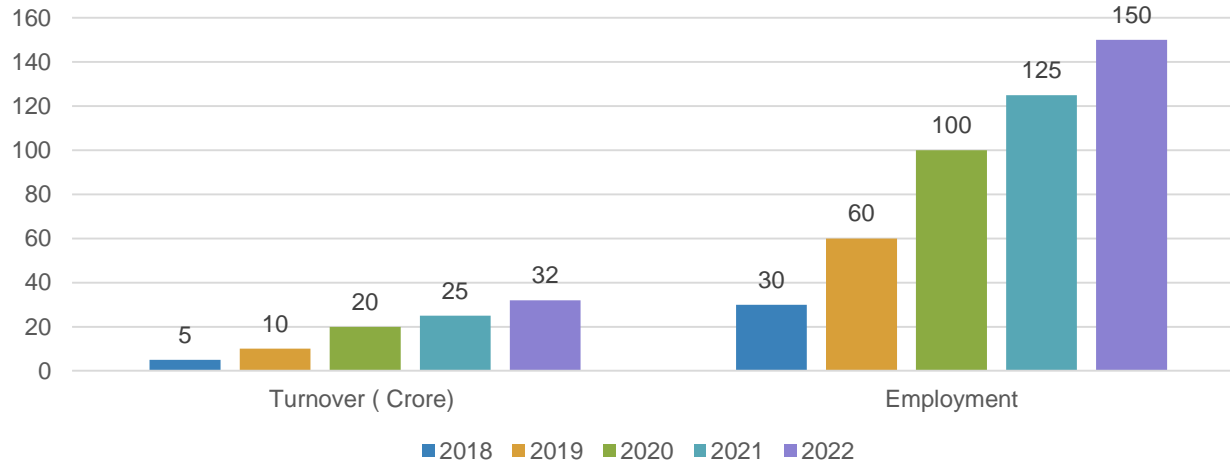
Team Arete Business Plans



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Arete Powertech- Turnover & Employment projections





Reach Us @



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THANKS!

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