



Purusharthy[®]
Power Industries



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GET IN TOUCH

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DON'T FORGET TO WRITE US

PURUSHARTHY POWER INDUSTRIES PRIVATE LIMITED

Rajasthan SH 25, Opposite BDI Ambbaram, Tapukara

Bhiwadi, Distt Alwar, Rajasthan 301 707 IN

KNOW US

Purusharthy® Power Industries Pvt Ltd is an ISO 9001 : 2015 certified energy solutions provider company. PPIPL is founded with the vision of renaissance in field of energy.

Purusharthy® Power have expertise to design fully integrated and customized complete electrical and Solar turnkey projects. We have the prowess to manage turnkey projects of any scale and the much-needed know-how to work within the confines of regulatory policies and vast geographical parameters.

We're constantly looking for new ways to innovate the energy technology to make accessible to even more people. We're excited for what's ahead and believe this is just the beginning to create a planet powered by the sun. Our businesses are Solar Turnkey Projects, Electrical Turnkey Projects, Industrial Solar Solution, Commercial Solar Solution, Lightning Solution, Silent Diesel Generators, Transformer, Chemical and Copper Earthing, Cabling, Residential Solar, Solar Water Pumping, Electrical AMC Contract and Solar AMC Contract.



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CERTIFICATION

RESEARCH



#startupindia



Technology has been central to everything PPIPL has ever done. From our very first patent from India in its class for solar field to the opening to Reality Centre first of its kind all utilise the best available technology to create timeless assets that give long-term returns to the citizens of India and World.

Purusharthy® Power Industries Pvt Ltd has collaborated with Govt. Engineering College, Banswara (An Autonomous Institute of Govt. of Rajasthan) to enhance the research in the field of Power electronics in Renewable Energy, Solar cell, Fluid dynamics for cleaning systems of Solar PV Modules etc.



SOLAR TURNKEY PROJECT

SOLAR FARM | INDUSTRIAL | COMMERCIAL | RESIDENTIAL

Purusharthy® Power is a comprehensive solar turnkey solutions provider. It offers the expertise as well as the tools to commission and execute solar projects of any proportion on a turnkey basis from conceptualization to completion while catering to the custom requirements of clients.

With our in-house engineering and construction teams, we strive to leverage our technical experience and industry know-how to develop the most cost-effective and energy efficient PV solar plants in the industry.

We assist customers seeking to use solar power right from the planning stage through the entire operational life of the project. This includes providing our customers with a complete financial return and cash flow analysis of the solar power project including providing advisory services that help customers navigate all government policy issues, land procurement issues, tax benefits, subsidies and regulatory approvals to successfully install solar photovoltaic plants.

WHAT WE DO IN TURNKEY PROJECT

- ◆ Viability Studies
- ◆ Financing
- ◆ Permitting
- ◆ Project Development
- ◆ Engineering
- ◆ Commissioning
- ◆ Light-up and Handover



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ELECTRICAL TURNKEY PROJECT

**Substation | Transmission Line | HT & LT Cabling
Overhead and Underground Feeders**

Purusharthy® Power is the approved Electrical Contractor. All electrical work including in-house Designing, Engineering, Equipment Supplies, Site Development & Management, Supervision, Erection and Testing commissioning is being executed using in-house resources. We provide end-to-end solution from site development to complete construction activities Electrical, Mechanical with all civil activities and interface with all government approving agencies.

We add values by providing complete engineered solutions from concept to commissioning. These turnkey solutions are being executed by highly qualified team of professionals who are well versed with the latest technology and industrial standards.

WHAT WE DO IN TURNKEY PROJECT

- ◆ Design, drawing, engineering of entire electrical installation.
- ◆ Bill of Material, cable schedule, termination schedule, SLD, switchyard layout, trench layout design and drawings of associated civil work.
- ◆ Preparation of estimate for the work involved.
- ◆ Services for supervision on erection, testing and commissioning.
- ◆ Project coordination and monitoring.



SILENT DIESEL GENERATOR

10kVA to 3600kVA



(A Brand of Caterpillar)



A subsidiary of Caterpillar Inc., USA, Caterpillar India manufactures CAT® engines and generator sets at their certified world-class Caterpillar facility, located at Hosur (45 km from Bangalore). Sprawling over 32 acres of land, the facility produces engines and package generator sets, which deliver consistent performance in some of the world's most demanding conditions. Every Cat® product is backed by its globally-famed, high-quality product support. Caterpillar trained engineers at the dealerships ensure high quality after sales support.

WHY CAT GENERATOR

- ◆ Core components are designed for higher strength, durability and compactness
- ◆ Steel forged crankshafts are capable of handling higher loads
- ◆ The engine blocks are lightweight and helps in improving the power to weight ratio
- ◆ Lube systems help maintain optimum oil pressure at all speeds, loads and throughout the life of the engine
- ◆ Cat ADEM™ fuel systems offer full control of fuel delivery and fuel pressure at any load or speed, superior transient response, block load acceptance, shorter recovery time, improved fuel efficiency and lower exhaust emission, testing and commissioning.
- ◆ Longer life to over-haul by at least 60 %
- ◆ No Deration up to 50 degree C
- ◆ Lowest Fuel Consumption
- ◆ Simple, Adjustment Free Fuel System - No Periodic Calibration

Since the 1920's, Caterpillar has been designing and building engines for power generation. Proven in over 12,000 applications worldwide, CAT gas engines and generator sets offer high reliability, durability and fuel flexibility to burn fuels ranging from low energy landfill gas to pipeline natural gas. Ranging from 50 to 9,700 ekW (50 to 12,125 kVA) in a single unit, our gas generator sets are easy to select, permit and install. Our industrial and commercial gas generator sets are proven for reliable operation with a wide range of gaseous fuels including natural gas, biogas from landfills and digesters, coal gas, propane and alternative fuels. We build durable, low life-cycle cost power systems that we integrate with controls, exhaust systems, fuel train, combined cooling heat & power skids and switchgear.

WHY CAT GAS GENERATOR

- ◆ Power Generation @ UNITY Power Factor
- ◆ Operate @ 100% load continuously
- ◆ Suitable to operate till 50deg C ambient
- ◆ Up to 42.5% improved electrical efficiency
- ◆ Low Lubrication Consumption
- ◆ Long Maintenance Intervals
- ◆ TPEM digital control system

GAS GENERATOR

BIO GAS | NATURAL GAS

400 eKW to 2000 eKW



 **Purusharthy[®]**
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TRANSFORMER

POWER | DISTRIBUTION | SPECIAL PURPOSE



We offers a complete range of power and distribution transformers designed to grant the reliability, durability, and efficiency required in utility, industrial, and commercial applications. We have tie up with major transformer manufacturer throughout the world and offers both liquid-filled and dry-type transformers as well as services for complete life-cycle support, including replacement parts and components.

Being one of the reliable trader and exporter of Power Transformers, We have occupied the top most places in the market. Famous for their excellent performance, our manufactured Power Transformers are widely demanded by customers in the markets. Passed through all quality checks, Power Transformers are reckoned for their efficiency, which they have shown in various applications.

FEATURES

- ◆ OFF circuit or ON load tap changers
- ◆ Connected in delta/star as per Vector group ref. Dyn11
- ◆ Outside indicator arrangement
- ◆ Locking device
- ◆ Leads to be brought out on off circuit tap changing switch
- ◆ Double wound with Cu conductor



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EARTHING SOLUTION

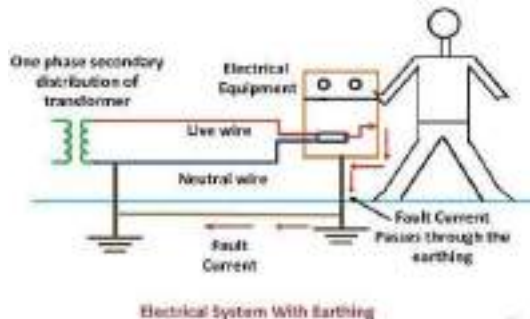
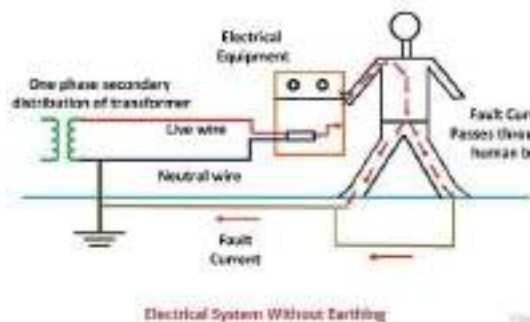
Copper | GI | Chemical | Traditional | Mesh Grid

There are three categories of electrodes that we provide. They are pure Copper Earthing Electrode, GI Earthing Electrode, SS Earthing rod along with their Electrolytic properties. The electrodes are maintenance free and are easy to install at the site. Advance technology used ensures it to be a long life product.

TYPES OF EARTHING

- ◆ Electrolytic GI Earthing
- ◆ Electrolytic Copper Earthing
- ◆ Advance Electrolytic Mesh Earthing Solution
- ◆ Traditional Copper & GI Earthing

HOW IT WORKS



Earthing can be done by electrically connecting the respective parts in the installation to some system of electrical conductors or electrodes placed near the soil or below the ground level. The earthing mat or electrode under the ground level have flat iron riser through which all the non-current-carrying metallic parts of the equipment are connected.

When the fault occurs the fault current from the equipment flows through the earthing system to the earth and thereby protect the equipment from the fault current. At the time of the fault, the earth mat conductors rise to the voltage which is equal to the resistance of the earth mat multiplied by a ground fault.



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ELECTRICAL PANEL



With the team of professionals, we are manufacturing and supplying a comprehensive range of all kinds of Panel. The provided panel is vastly utilized in the power station for distributing electricity. The panel we provide is precisely manufactured by our experienced professionals making use of high grade components and sophisticated technology in conformity with defined quality norms. Additionally, this panel is suitable to be used in residential as well as industrial areas.

Electrical Panel components control every piece of equipment in every industry. It's difficult to describe all possible combinations because every industry and most companies have defined component preferences.



LED LIGHTING SOLUTION

Solar | Electrical | Central Controlled | Standalone

We are the manufacturer of LED lights with brand name Cellus Tech. Our plant located in Khushkhera (Bhiwadi). We are dealing both (i.e. Solar and Non-Solar) LED lighting system.

Say goodbye to darkness in the evening and costly electricity bills. Our solar-powered LED lighting solutions harness the sun's energy to provide high-quality illumination for indoor and outdoor applications.

A battery based solar street light is a stand alone system, will store electricity from solar panel. Solar LED street light is powered by photo-voltaic panel, generally mounted on the light structure or integrated in the pole itself.

This breakthrough technology delivers a convenient, sustainable way to light your space with minimal investment and maintenance.

ADVANTAGES

- ◆ Solar street lights are independent of the utility grid. Hence, the operation costs are minimized.
- ◆ Solar street lights require much less maintenance compared to conventional street lights.
- ◆ Since external wires are eliminated, risk of accidents are minimized.
- ◆ Electricity produced from solar panels is non-pollutive. Separate parts of a solar panel system can easily be transported.
- ◆ Energy costs can be saved.



ELECTRICAL MAINTENANCE

AMC | Routine | Emergency

We provide comprehensive and non-comprehensive annual maintenance contract solutions, Electrical Maintenance services and Electrical Management services of Electrical Installations over a period of time (Annually, Half yearly, Quarterly, Monthly basis) to corporate companies, IT/BT sectors, Medical facilities, Multi-storied building, Luxury Apartments, Shopping malls, Multiplex etc.

We are doing all kind of AMC in Electrical. Backed by a team of electrical professionals, we are offering a broad assortment of Industrial Electrical AMC Service for our customers. Offered services are executed under the direction of inspectors of quality. These are rendered according to the client's demands and within the promised period of time.

SCOPE IN AMC SERVICE

- ◆ Maintenance of all kind of Electrical installations, cables, wires, switches, main switches, panels, electrical fixtures at above sites.
- ◆ Attend to all types of routine/preventive maintenance work.
- ◆ Liaising with the electricity board regarding various matters.
- ◆ Inspection and replacement or repair the faulty parts/fittings. Carry out the tests during the contract period.
- ◆ Keep recording of all records.



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SOLAR MAINTENANCE SERVICE

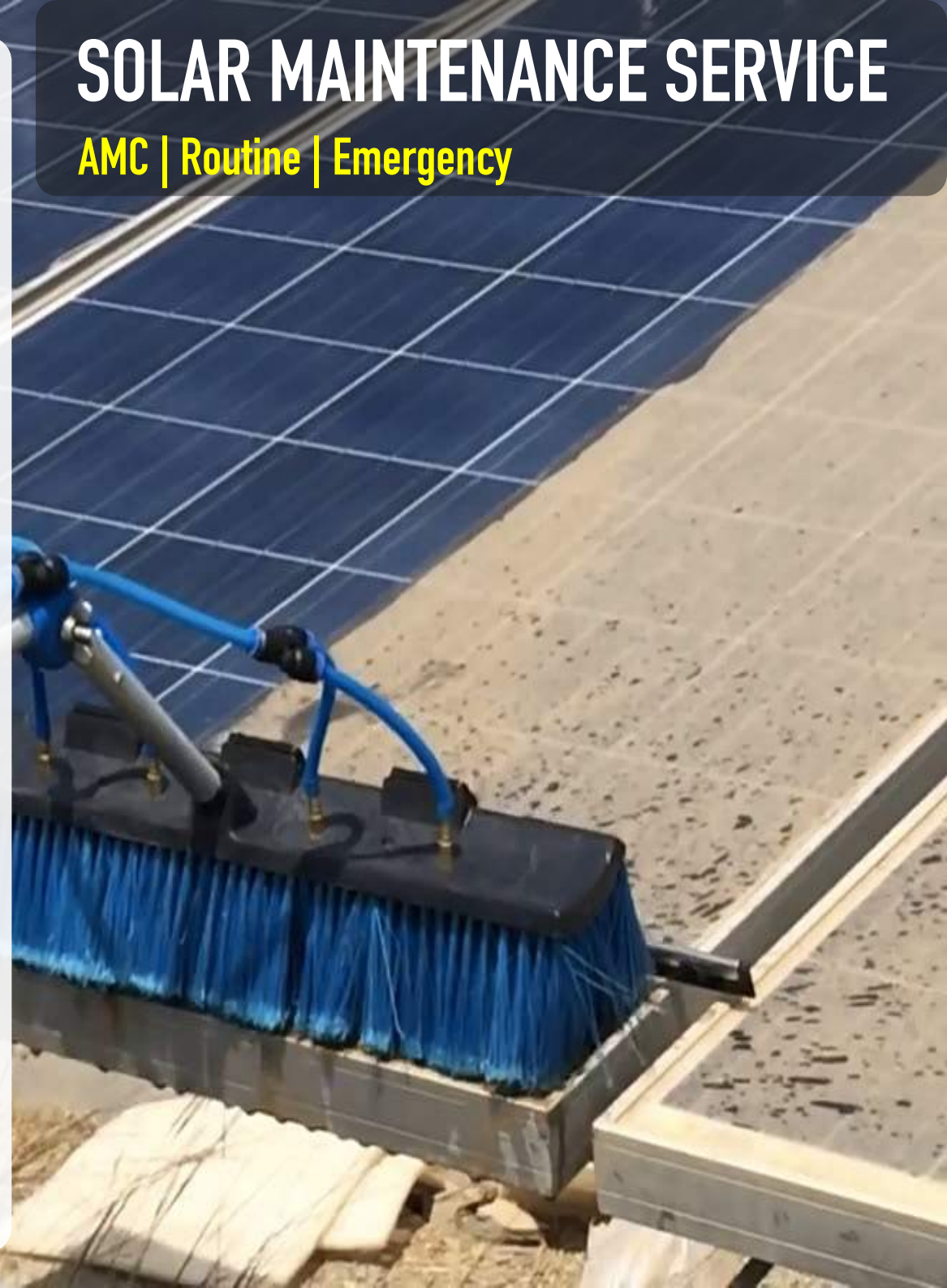
AMC | Routine | Emergency

Every Solar PV installation is a long term investment, deemed to give you returns year after year. But like any other investment, you need to ensure these returns are optimum and your assets value is safe. A Solar PV installation that has not been cleaned for over a month will give you a power yield less than it's rated capacity. The power generation can fall by as much as 30%

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SCOPE IN AMC SERVICE

- ◆ Panels cleaning at defined intervals.
- ◆ Trained Team with knowledge of Installation and Commissioning to review and report any other factors affecting Power output.
- ◆ Mechanical as well as Electrical Assistance available immediately in case of any defects observed during Cleaning.
- ◆ Option of only Washing or AMC or combined Packages.
- ◆ Carry out the tests during the contract period.
- ◆ Keep recording of all records.
- ◆ Calibration of Sensors, SCADA, Monitoring system.



TRANSFORMER MAINTENANCE

AMC | Routine | Emergency



Failure of transformers can cost you millions in lost revenue because replacements can take time to purchase and install. Worse, a transformer failure can trigger fire and explosions, endangering your people and threatening your plant's critical assets. Fortunately, losses due to transformer failure can be avoided. Through preventive and predictive maintenance and testing, we can identify potential issues and repair problems before a unit fails. We offers a complete range of power and distribution transformers maintenance to grant the reliability, durability, and efficiency required in utility, industrial, and commercial applications. Supported by the crew of accomplished and endowed professionals, we are highly indulged in providing Transformer Maintenance Services. These provided services are performed under the supervision of skilled professionals using supreme grade basic material and contemporary techniques.

Reasons for Maintenance

- ◆ Allows transformers to function at manufacturer's standards
- ◆ Maintenance prevents overheating or arc fault conditions from occurring
- ◆ OEM certified engineers servicing transformers offer peace of mind
- ◆ Maintenance for transformers should be taken annually
- ◆ Cost of repair or replacement is much greater than cost of maintenance



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WE SUPPORT
VOCAL
FOR
LOCAL



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