



(An ISO 9001:2015 Company)

Pitath Electric Private Limited

'Engineering for Future'

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About the Company

PITATH ELECTRIC PRIVATE LIMITED is an organization established in 2019, having motto of “**Engineering for Future**”. The company is based in GHAZIABAD, NCR Region, India. Company’s major expertise is in eBOP engineering of following:

Development of Renewable Parks
(Wind + Solar) and Product
Development Engineering

Battery Energy Storage System
(BESS)


HV AIS/GIS Substation Engineering
(33kV up to 765kV)

AUX System Design of Thermal and
CCPP power plants

Special Application Engineering
– HVDC Projects (LCC & VSC)
- FACTS (SVC & STATCOM)

Reactive Power Compensation and
Harmonic Filtering

Field of Expertise/Software Expertise



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| THERMAL POWER PLANT ENGINEERING | <ul style="list-style-type: none">• COAL BASED THERMAL POWER PLANT ENGINEERING• COMBINED CYCLE POWER PLANT ENGINEERING |
| POWER TRANSMISSION & DISTRIBUTION | <ul style="list-style-type: none">• HV TRANSMISSION SUBSTATION ENGINEERING• DISTRIBUTION SUBSTATION ENGINEERING• INDUSTRIAL INSTALLATION |
| RENEWABLE ENGINEERING | <ul style="list-style-type: none">• WIND PARK ENGINEERING• SOLAR PARK ENGINEERING• HYDRO POWER PLANT |

Solar Project – PV Syst, Auto Cad 2025, Revit, Dialux

BESS – Auto Cad 2025, Creo/Revit, Etap21.0.1, Dialux

EHV Substation – Auto Cad 2025, Revit, Etap21.0.1, Dialux

Powe Plant – Auto Cad 2025, Creo, Etap21.0.1, Dialux

Electrical and Civil Engineering Services Offered

- ▶ Feasibility Studies and Detailed Project Report
- ▶ Project Management /Project Planning and Scheduling
- ▶ Site Selection and Site Survey
- ▶ Plant Conceptual Design/Layout/3D Model
- ▶ System Design Engineering Including FEED Studies
- ▶ Preparation of Specification, Bid Evaluation & Procurement Assistance
- ▶ Suppliers Design and Drawing Review
- ▶ Detailed Engineering Including Earthing, Cabling System Design, Cable Schedule
- ▶ FAT and SAT witnessing Services
- ▶ Construction Management & Site Supervision
- ▶ Operation and Maintenance Services
- ▶ Electrical Equipment and Systems Erection Commissioning Services
- ▶ Due Diligence Study/Owner's Engineering
- ▶ Lender's Engineering
- ▶ Site Survey and Auditing of Electrical Installations
- ▶ Data Collection, Analysis Support
- ▶ Third Party Manpower Supplier
- ▶ As Built Drawings

Electrical Power System Studies / Conceptual Engineering

- ▶ Load Flow
- ▶ Short Circuit
- ▶ System Stability
- ▶ Voltage Drop
- ▶ Motor Starting
- ▶ Transformer Sizing
- ▶ DG Sizing
- ▶ DC Battery & Charger Sizing
- ▶ Power Cable Sizing
- ▶ TOV Studies
- ▶ Lightning Protection Study
- ▶ Earthing Design Study
- ▶ Relay Co-ordination
- ▶ Arc Flash Study
- ▶ Reduced Network Study
- ▶ Bus bar Sizing
- ▶ Sag and Tension Calculation
- ▶ Preliminary Load List
- ▶ Preliminary One Line Diagram
- ▶ Load Flow / Short Circuit Study Report/ Protection Co-ordination
- ▶ Main Equipment Sizing
- ▶ Preliminary Electrical Equipment / Switchgears Layouts
- ▶ Block Logic Diagrams
- ▶ Design Basis Reports

Electrical Detail Design Engineering

- ▶ Electrical Equipment / switchgear /switchyard/transformer yard layouts & sections
- ▶ Earthing system design & layouts
- ▶ Detailed load list & feeder lists for switchgears, MCCs, DBs
- ▶ HV / LV Power cable sizing & layout
- ▶ Cable carrier system design and detailed cabling layouts
- ▶ Design of illumination system and area wise illumination layouts & details
- ▶ Lightning protection layouts
- ▶ Plant inter communication system layouts
- ▶ Equipment hookup / interconnection drawings
- ▶ Power & Control Cable Listing & Cable Schedules
- ▶ Relay Settings Schedules & Protection Co-ordination Charts
- ▶ Site Erection & Commissioning Instructions
- ▶ Operation & Maintenance Manuals
- ▶ As-built drawings
- ▶ 3D Model Development
- ▶ Layout Engineering
- ▶ Civil and Architectural Drawings

Civil Detail Design Engineering

- Prepare as built drawings for the works designed by the consultant.

CIVIL & STRUCTURAL ENGINEERING

- Analysis & Design of RCC and Steel Structures
- High Rising Buildings
- Retaining Structures
- Pile Foundations
- Joint Detailing of Steel Structures both Welded and Bolted
- Settlement Analysis of Structure & Foundation
- Underground RCC structure
- Structural Optimization Study & Recommendation
- Retrofitting and Strengthening of Existing Structures

MECHANICAL ENGINEERING

- Detailed design and fabrication drawings for different types of steel structure.
- Selection of materials for construction

REVIEW ENGINEERING

- Review engineering for system design from Economical view.
- Review and Approval of Structural Analysis and Design Calculations.
- Review of Architectural Detailing & Drawings.
- Review of Fabrication Drawings.

SITE SUPERVISION

- Coordination with Main Civil Contractor
- Supervision of Civil and Structural Work
- Quality Control



Clienteles and Work Executed

Major Clienteles

ReNew Power

STS Infracon

Tata Projects

Tricolite LLP

GEPDEC

L&T E And C

Sterlite

Major Work Executed

- ▶ 80MW Solar power Project Integration Study in ETAP (including modeling of existing Electrical system of Aluminum Smelter plant) for ReNew
- ▶ Load flow, Short Circuit Study and Auxiliary System Design, 75MW/150MWhr BESS Solution in Karnataka For ReNew.
- ▶ Site Survey for 33/11 kV feeder for Tricolite
- ▶ Layout Review, Protection Scheme Review and Cabling System Design (Interlocking System Development, Cable Schedule, Cable Termination, BOM etc for 400/220/132kV Jaunpur Substation) for UPPCL/GEPDEC
- ▶ Layout and eBOP Engineering for 132kV GIS Rishikesh and Srinagar For UPPTCL/STS
- ▶ 66/11kV AIS, LEHDO, Laddakh (3500M Altitude) Ongoing for LPDD/STS
- ▶ Pre BID Engineering Support for 765kV GIS
- ▶ 3D Plant and Equipment Model Development of Switchyard up to 765kV (In-House)



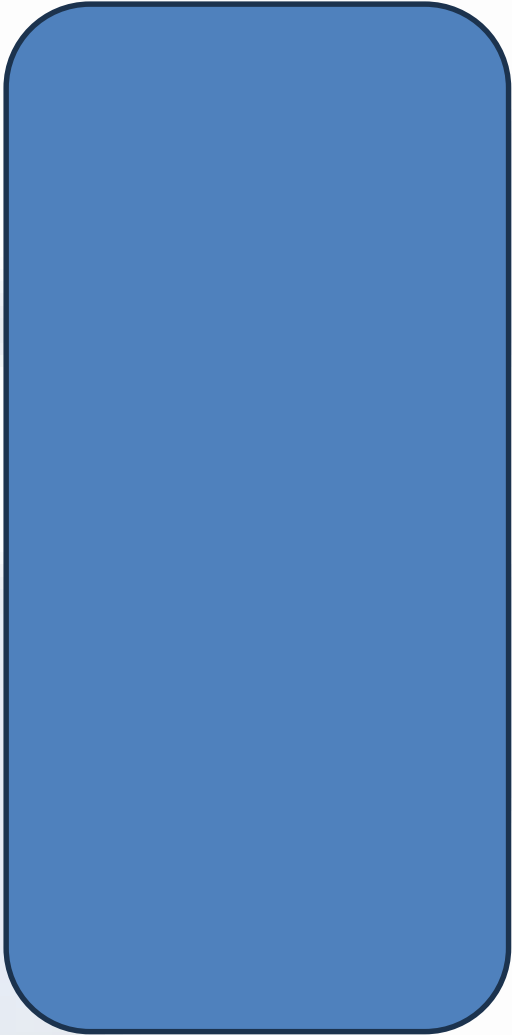
Clienteles and Work Experienc

Major Clienteles SR Engineering

Major Work Executed

- ▶ 132/33kV GIS Bhangel, Noida - Layout Review, Protection Scheme Review and Cabling System Design (Interlocking System Development, Cable Schedule, Cable Termination, BOM etc. for 132/33kV GIS, Bhangel, Noida for STS)
- ▶ 400/22kV GIS Patran - Layout Review, Protection Scheme Review and Cabling System Design (Interlocking System Development, Cable Schedule, Cable Termination, BOM etc. For STS)
- ▶ Provided Third Party Resource (Draftsmen) for the preparation of the layout drawing of PGCIL Manesar control center for L&T
- ▶ 400kV AIS Kallam III - Design Engineering including AC and DC system for 400kV AIS Bay extension project Kallam Ph-3 (2Nos Bays) for INDIGRID/STS
- ▶ 400kV AIS Kallam IV - Design Engineering including AC and DC system for 400kV AIS Bay extension project Kallam 4 (7Nos Bays) for INDIGRID/STS
- ▶ 132kV AIS Sawai Madho Singh Stadum Bay Extension (STERLITE)
- ▶ 400/220/33 kV AIS Annegiri Karnatka - BID Engineering Support Electrical + Civil for 900MW Annegiri RTC project Substation
- ▶ 66kV C-DOT AIS Bay extension Project New Delhi (Sterlite)

Clienteleles and Work Experienc



Major Work Executed

- ▶ 220/132/33kV AIS Bhadoti, Rajasthan – Design Engineering including AC and DC system for 220/132/33kV AIS GSS at Bhadoti for STS.

OUR EXPERTS



| S. No. | NAME | Education | Designation | Project Experience |
|--------|-------------------------|---|--|--|
| 1 | Anamika Upadhyay | MBA – IMT Ghaziabad CDL, BHU | MD & HRD and Sr. Customer Commercial Manager | 7 plus years of Experience in Energy Business. |
| 2 | Anil Kumar (NeelSri) | B. Tech – Electrical, >20Years Of Experience | Principal Consultant (Electrical and System Studies) | Previously Worked with Tetra Tech, ALSTOM POWER/GRID, SST (BHEL DEPUTATION), PHOENIX etc. Design and engineering experience in the areas of following areas EHV substation up to 765kV, Both AIS and GIS, System Studies like Load Flow, Short Circuit and Relay Co-ordination. Battery Energy Storage System 75/150MWhr), HVDC and STATCOM, Load Flow for Solar System. EV Charging Solutions, |
| 3 | Aryan Upadhyay | Pursuing Graduation | MD and Commercial Manager | >1 Years of experience in Commercial Operations |
| 4 | Shridhar Upadhyay | Graduation | Director - Administration | > 40Years of experience in Operation Management and Facility Management |
| 5 | Rabindra Mahapatra | B. Tech – Civil, > 25 Years of Experience | Sr. Consultant – Civil | Civil Engineering Partner (SR Engineering) - Structural Design, Foundation Design, Control Room, Site Layout, Roads, Trenches, Cable Trenches etc. |

OUR EXPERTS



| S. No. | NAME | Education | Designation | Project Experience |
|--------|---------------------|---|--|---|
| 6 | Santosh Kumar Gupta | B. Tech (Mechanical Engineering) | Sr. Consultant Mechanical > 19 Years of Experience | Experience in Customer Management, MEP design of Large Control rooms, Malls and residential buildings. |
| 7 | Yati Kumar | B.Tech – Electrical and Electronics > 5 Years of Experience | Sr. Design Engineer (Electrical) | Experience in Primary and Secondary Engineering of AIS and GIS up to 400kV, |
| 8 | Santosh Maurya | B.Tech – Electrical and Electronics > 2 Years of Experience | Sr Design Engineer – Electrical | Experience in Primary and Secondary Engineering of AIS and GIS up to 400kV |
| 9 | Sunil Khansli | ITI – Draftsmen, >15 Years of experience | Sr. Design Engineer | Auto CAD Drafting Expert in the areas of Mechanical, Civil and Electrical. As built Marking and As built drawing preparation. |



Thank You