



AB *and* Associates
Electrical consultants & liaising contractors

Light your life
with us for a while



About Us

AB and Associates is a young organization of technically qualified and experienced team intended to provide end to end electrical design solutions. We have successfully delivered projects in diversified sectors like residential, commercial, IT, hotels, hospitality, malls, data center, call centers and industrial projects. We believe in providing technically viable and cost effective solution by understanding client's requirements with the help of all the modern innovations and technologies.

AB and Associates ensures that the design solutions are acceptable to all the Govt./semi Govt. authorities and electricity board as per their rules and regulations. We peruse this fact by helping our prestigious clients in getting their electrical power sanctions and completion of the electrical installations, from electricity board and competent Govt. authorities like PWD. This intern helps to give marginal savings in capex and operational electrical cost to client.

We also work in collaboration with our associates to render the design solutions in other engineering services like HVAC, plumbing and fire fitting as per client requirements.

Our aim is to build a long term association with our clients and provide them electrical design solutions right from conceptualization to completion of their dream spaces. In our strive towards excellence, we emphasize on innovative, cost effective and user friendly designs that enhance the quality of human experience.

Electrical Liaising & Approvals



- ☒ Preparation of necessary documents required to submit in statutory authorities.
- ☒ Submission of all the required documents and drawing for the approvals.
- ☒ Survey of existing electrical network around the project premises.
- ☒ Preparation of preliminary cost effective estimation along with the electricity board officer.
- ☒ Obtain the necessary sanctions from MSEDCL authorities.
- ☒ Obtain the high rise permissions and charging permissions from PWD.
- ☒ DG set approvals from the CPWD and local public welfare dept.
- ☒ Liaising and approval for the diesel storage tanks for large scale projects from fire and explosive departments.



Services offered

AB and Associates ensures that the design solutions are acceptable to all the Govt./semi Govt. authorities and electricity board as per their rules and regulations. We peruse this fact by helping our prestigious clients in getting their electrical power sanctions and completion of the electrical installations, from electricity board and competent Govt. authorities.

We undertake design consultancy for the following systems

- H.T and L.T distribution & substations
- Electrical power and lighting convenience
- Earthing and lighting protection
- Diesel generator backup system designing
- Security systems designing which includes CCTV surveillance, fire alarm, access control, public address systems

We also assist in the following processes

- Electrical power sanctioning and approvals from Electricity Board and Public welfare Department (PWD) – Electrical division
- Approvals for net metering for the solar systems
- Charging permissions for transformers and electrical systems after installations
- Electricity duty exemptions as prescribed in the electricity and MERC norms.

Solar Services - Associated with Solargica

- Roof Top Solar System - For Zero Electricity bill, Smartly designed compact Rooftop Systems.
- Solar Street Light - Solar street lights are specially designed to generate electricity during day time and store it in battery.
- Solar Water Pumping - For Heavy Duty and Maintenance free. For Agriculture, Farms, Poly house And Resorts.



General

Scope of work



AB and Associates involves and guarantees every electrical design aspects and scope required in the overall electrical design calculations, till final GFC drawings. We also ensure in-time power sanctioning process from the competent authorities.

Electrical design scope

- Required data accumulation for electrical and allied systems from concern people and concern sites.
- Electrical load calculations as per the construction area and authority norms.
- Transformer and substation design best suitable for the project.
- Diesel generator calculations as per the client's requirements and strategies planned.
- Power factor correction requirement as per available electricity board supply quality.
- HT design from tap of point to LT feeder and ensure proper power distribution.
- LT design and distribution till the final load point.
- Internal electrical design.
- Home automation scheme design in coordination with clients and architects as per their requirements.
- Fire alarm system design depending on the space usage and requirements, as per the norms of fire department.
- UPS system calculation and suggestions as per the critical and sensitive load.
- Designing the life safety and determining earth protection requirements.
- Lightning Arrester System suitable for the proposed development area.
- LV system like design including public address system, access control system, CCTV, data & voice, security systems, telephone and intercom etc.
- Landscape Lighting System with proper power distribution and ON/OFF timer requirements.
- Water body, swimming pool lighting design.
- Determining Cable Trays, Trenches and their optimum path.
- Material technical specifications and approved makes.
- Bill of material and tendering.

Our Approach

AB and Associates believes and work for 100% customer satisfaction as per their requirements and needs of electrical engineering services.



Project Planning



Understanding the client requirements in terms of engineering services.



Required data collection with respect to proposed/existing structure from client, principle architects, consultants and from site.



Electrical load calculation using various modern engineering techniques to optimize the load requirements.



Finalizing the design approach and power distribution scheme with client, principle architects and other consultants.



Give the brief to the client regarding about all the futuristic aspects concerning the requirements and latest electricity board norms, rules and regulations pertaining Energy conservation building codes (ECBC), Indian Green building council (IGBC) standards.

Mr. Abhijit Bidarkar was the first who approached MSEDCL for the residential franchisee scheme and succeed to get a franchisee approval for the prestigious residential projects when he was associated with one of the reputed builders in Pune.

He also proposed and installed bus ducting system along with the dual source metering in one of the very reputed and premium residential projects in Pune for the first time along with all technical compliances desired by electricity board, which gives 15 % saving in over all capital cost

He also proposed and got approval for the usage of 1250 KVA transformers in the residential projects which are having the load above 2 MVA, by which developer can get a marginal saving in his Capex

Our key factors





Mr. Abhijit Bidarkar

Principle Consultant

He is a founder member of this young organization. He holds a degree of Bachelor of Electrical Engineering and has also done Masters in Business Administration (MBA) (SIBM, Pune). Before establishing his own venture he had 13 years of experience in electrical power system design, HT and LT distribution schemes, control system designing in various sectors like residential, commercial, process industries, manufacturing units, data centers, IT industries, malls, hotels, hospitality and wide range of premium residential townships and office spaces in India and abroad.

He has offshore project experience in countries like United Kingdom (UK), United Arab Emirates (UAE).

Ms. Arathi Shengali

Associate consultant

She is an associate member. She holds a degree of Bachelor of Electrical & Electronics Engineering (BE – Honors Graduate) and has 11 years of work experience in project management, site execution, electrical system design in hospitality and residential sectors. She is a certified member of IGBC (Indian Green Building Council) – Accredited professional (IGBC AP)-2010.





Liaising Projects

Siddhivinak Kohinoor Venture

Pune

Approval for shifting of 6 X 630 KVA transformers along with HT panels to new location at existing residential apartment project of 400 flats.

Siddha Construction

Pune

Approval from "Central Railway Department" to shift 110 KV HT electrical tower by designing technically feasible and suitable alternative tower and transmission plan

Centerone by Accropolis Purple Developers

Pune

1,00,000 Sq. Ft of commercial complex located at mitra mandal square, pune

Scope :

1. Approval and sanctioning of electrical power from MSEDCL
 2. High rise building permission from PWD
 3. High side electrical designing and execution including HT cable laying, transformers erections, HT/ LT panel erections, switching station installation etc
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9 Hills

Location

Located at NIBM Road, Nine Hills with elegant 2 & 3 BHK apartments in 6 buildings 13-storey towers. This Project is spread over 6 acres.

Scope:

1. Sanctioning of electrical power from MSEDCL
2. Obtaining high rise building permissions and charging permissions from PWD
3. High side electrical designing and execution including HT cable laying, transformers erections, HT/ LT panel erections, switching station installation etc

Designing Projects



Bajaj Corporate Office

Akurdi, Pune

A new corporate office with all modern design concepts and technologies at Bajaj auto premises, Akurdi, Pune. The office is of 20,000 sq.ft with @ 350 work stations, cafeteria and server room.

SCOPE :

1. All Electrical designing including load calculations, power distribution scheme, along with panel design, single line diagrams, conduit layouts and switch board details
2. Fire alarm system design
3. CCTV and access control system design



Bajaj

Ghaziabad

2000 sq.ft regional office of Bajaj Auto Ltd located at most developing area of Uttarpradesh.

SCOPE :

1. Electrical designing and consultation including load calculations, power distribution scheme with all cost effective solutions along with panel design, single line diagrams, conduit layouts and switch board details
2. Fire alarm system design as per fire norms.
3. CCTV and access control system design as a part of security system design.



Bajaj Auto Human and Resource Dept. office

Pune

25000 Sq. ft of office corporate development for "Human and Resource department of Bajaj Auto, Pune in their Akurdi campus. An elite and elegant design structure by NGK studios, Pune.

SCOPE :

1. Electrical designing and consultation including load calculations, power distribution scheme with all cost effective solutions along with panel design, single line diagrams, conduit layouts and switch board details
2. Fire alarm system design as per fire norms
3. CCTV and access control system design as a part of security system design



Our Prestigious Client

Bajaj Corporate Office & Training Center

Delhi

26000 sq.ft regional office and one of its kind training center for three wheelers of Bajaj Auto Ltd located at capital of India.

SCOPE :

1. Electrical designing and consultation including load calculations, power distribution scheme with all cost effective solutions along with panel design, single line diagrams, conduit layouts and switch board details.
2. Training center and conference room specialized electrical design.
3. Fire alarm system design as per fire norms.
4. CCTV and access control system design as a part of security system design.

Bajaj MD Office and Clubhouse

Pune

India's one of the most promising business tycoon, Mr. Rajiv Bajaj's office and club house is one of our prestigious projects. The proposed structure is spread in 50000 sq. ft area located at Bajaj Auto campus, Akurdi Pune. It's a unique structure coming up in complete reinforced cement concrete architecturally designed by NGK studio, Pune.

SCOPE :

1. Electrical designing and consultation using all modern technologies including load calculations, power distribution schemes with all cost effective solutions along with panel design, single line diagrams, conduit layouts and switch board details
2. Fire alarm system design as per fire norms designed to installed in concrete structure.
3. CCTV and access control system design as a part of security concerns.



Bajaj

Mohali

7000 sq.ft regional office of Bajaj Auto Ltd located at capital Panjab and Hariyana state.

SCOPE :

1. Electrical designing and consultation including load calculations, power distribution scheme with all cost effective solutions along with panel design, single line diagrams, conduit layouts and switch board details.
2. Fire alarm system design as per fire norms.
3. CCTV and access control system design as a part of security system design.

Designing Projects



K. D. Joshi Rubber Industry

Pune

An ISO 9001:2008 certified rubber industry at MIDC, Pimpri.

SCOPE :

Load augmentation and metering
KIOSK replacement.



Satara, Maharashtra

1.5 KW Rooftop Solar System on
Grid Connect For Home.



Yavatmal Court, Maharashtra

5 KW Off Grid Rooftop Back up System
For Yavatmal Court.

Citizen Umbrella

Sanjan, Gujarat

India's largest umbrella manufacturing company located at sanjan industrial estate, Gujarat, spread in 10,00,000 Sq.ft area.

SCOPE :

1. All electrical designing including load calculations, LT panels, electrical point layout, power distributions etc.
2. Transformer calculations, substation design, HT cable calculations and route finalization as per the DGVCL norms.
3. Specialized electrical design as per the industry requirements.
4. Shop floor manufacturing unit electrical design.



Embrio Clinic

Baner

Highly advanced, assisted reproduction clinic with all the new setup at, Pride Gateway, Baner.

SCOPE :

1. Accumulation of all the required data for the entire electrical services.
2. Understating the sensitivity and functionality various medical equipments required for the operation chamber, labs and diagnostic room.
3. Design of entire electrical network system and distribution as per the required parameters.
4. Design of security and surveillance systems like fire alarm, access control and CCTV for the upcoming premises.

Ahmednagar, Maharashtra

Solar Water Pump in Ahmednagar
Independent System with no grid support.



Sinhagad Road, Pune

10kw on grid connected solar system along with 5x 1.5 kw Roof top solar system for individual flats with net metering.

Designing Projects



Seed Studio

Mahad, Pune

Located on NIBM Road, Nine Hills with elegant 2 & 3 BHK apartments in 6 buildings 13-storey towers. This Project is spread over 6 acres.

SCOPE :

All Electrical designing including load calculations, LT panels, electrical point layouts, power distribution schemes etc
D Fire alarm system designing Security system designing



Blossom Residential

Wagholi, Pune

11 story four residential buildings located at Wagholi, Pune, project by N.G Rathi and associates.

SCOPE :

1. All electrical designing including load calculations, LT panels, electrical point layout, power distributions etc
2. Transformer calculations, substation design, HT cable calculations and route finalization
3. Lighting automation system designing
4. Electrical load sanctioning from MS&EDCL
5. Fire alarm system design
6. CCTV , access control and security system design



Purple Developers

NIBM Road, Pune

Located on NIBM Road, Nine Hills with elegant 2 & 3 BHK apartments in 6 buildings 13-storey towers. This Project is spread over 6 acres.

SCOPE :

Sanctioning of electrical power from MSEDCL
Obtaining high rise building permissions and charging permissions from PWD
High side electrical designing and execution including HT cable laying, transformers erections, HT/ LT panel erections, switching station installation etc.



Central Point

Pune

1 L sq. ft of commercial complex located at very prime location of mitra mandal chauk, swargate, Pune

SCOPE :

Electrical power sanctioning for the entire project from MSEDCL and PWD.
High side electrical execution/installation including HT cable laying, transformer and HT/LT panel erections.
Obtaining the PMC permission from road excavation



Residential Projects

Madhupushpa Residential

Pieangut, Pune

9 story two residential buildings located at Pirangut area project by N.G Rathi and associates.

SCOPE :

1. All electrical designing including load calculations, LT panels, electrical point layout, power distributions etc.
2. Lighting automation system designing.
3. Electrical load sanctioning from MSEDCL.
4. Fire alarm system design.
5. CCTV, access control and security system design.

Serria

Undri

One of the elite and premium bungalow project located at Undari, Pune by N.G Rathi and Associates.

SCOPE :

1. All electrical designing including load calculations, LT panels, electrical point layout, power distributions etc.
2. Transformer calculations, substation design, HT cable calculations and route finalization.
3. Lighting automation system designing.
4. Electrical load sanctioning from MSEDCL.
5. Fire alarm system design.
6. CCTV, access control and security system design.



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