



**BGR Engineering
Services Private
Limited**





Overview

BGR Engineering Services is a sister concern of Arvensis Energy Private Limited, established in 2015 with highly experienced and skilled designers to cater to the needs of Power Transmission and Distribution industry and Telecom infra Structure Industry.

Main Pillars:

MR.B.G.RAO (B.Tech Electrical) one of the **Directors** has worked in POWER GRID COOPERATION OF INDIA, JSW. Energy, SESCO Engg Sdn Bhd and Lindenberg Emirates LLC has thorough knowledge of project management, material inspection and construction Supervision, can steer his team for successful completion of projects in time.

Dr. MUTHUKRISHNAN (B.E.,M.E.,Struct, Ph.D, Struct, F.I.E. F.I.V), **DESIGN HEAD** is one of the renowned specialist in Structural design for power and Telecom industry. Under his guidance several Tower designs were type tested and certified by international bodies. He is familiar with almost all the international standards.

Mr. Ashok Kumar (B.E Electrical): 37 years of Experience in Private as well as Public Utility & Electricity Regulatory Commission in the various fields, such as Engineering , Project Planning & Procurement for Infrastructure Projects in 400KV Sub-station & Transmission lines, Testing and Commissioning of 400 Grid Sub-Station , Execution of Hydro Power Plants & Regulatory Control of Power Utilities, Tendering, Business development, for domestic as well as international Bid ding. He has worked in Haryana State Electricity Board and Andhra Pradesh Electricity Regulatory Commission Hyderabad. Apart from this he has worked in various prestigious organizations like LANCO, ASTER etc. He is having expertise in Sub-Station primary engineering & techno-commercial aspects for Projects.

MAJOR DESIGN AND ENGINEERING ACTIVITIES:



MR. GMB SARATH KUMAR – DEE – with 40 years of experience in various industries like Power Generation, Transmission, Cement and processing industries has thorough knowledge of electrical equipment, its installation, testing and commissioning. To his credit he has successfully commissioned 28 projects and assisted in commissioning of more than 100 projects. He has also experienced in solar and wind power projects.

MR.SRINIVAS TATA – BE, **Over 20 years** experience in Projects Execution, Instrumentation and Control. Proficient in **PLCs** used – Schneider and Rockwell PLCs, **SCADA** used – RSView32 of Rockwell and Citect of Schneider and **Switch Gear** used – ABB, Schneider Electric. Strong skills in designing system, Preparing and tracking of the project schedule, conducting inspection and holding kick off meeting with the customer. Experienced in handling Industrial Automation Projects as per client's requirement. Well versed with PLC, in Process industries like Cement and Steel etc. An effective communicator & leader with strong analytical, logical, problem solving abilities.

The above three are assisted by experienced/ skilled and qualified engineer and Supervisors ever ready to take up any challenges in the industry.



1. Power Transmission & Distribution:

- A. Tower Designs.
- B. Foundation Designs
- C. Survey and Tower spotting.
- D. Tower footing protection design.
- E. Sag Charts for Conductor, OPGW and Ground Wire.
- F. Sub-Station Layouts.
- G. Complete Primary Engineering of Sub-Stations.
- H. Complete Secondary Engineering of Sub-Stations
- I. Sub-Station Structural Designs.
- J. Sub-Station Earthing Design.
- K. Tower retrofitting works.
- L. Complete power automation works
- M. SCADA in cement and processing industries.



2. Telecom Infra Designs and Engineering:

- A. Telecom Towers
- B. Roof Top Mono Poles.
- C. Site Layouts.
- D. Telecom Towers grounding and Lightning System.
- E. All types of foundations designs.
- F. Shelter designs.
- G. RF Engineering Works from Survey to Drive test.
- H. Electrical site layout for Telecom Sites.
- I. Organizing third party design approvals.
- J. Tower Strengthening works.

3. Project Management Services:

- A. Preparation of Tender/RFPs as per client's requirements.
- B. Complete Project Management of Transmission and Telecom Projects.
- C. QA/QC services.
- D. Inspection Services.
- E. Construction Supervisions

Various Types of Structures in Transmission and Distribution



In Power Transmission & Distribution:

1. Broad Based Lattice Towers
2. Narrow Based Lattice Towers
3. Mono Poles
4. Guy Masts
5. Multi Circuit Towers

In Telecommunication Tower

1. 4 Legged Lattice Angular type Tower
2. 3 Legged Lattice Angular Tower
3. 4 Legged lattice Tubular Tower
4. 3 Legged Lattice Tubular Tower
5. Mono Poles for Ground and Roof Top.
6. Roof Top for the above
7. Pipe Type roof Top
8. Guy Masts
9. Rapid Deployment Tower

Various Software's Used



1. I- Tower
2. PLS – Tower
3. PLS Pole
4. PLS-CAD
5. STADD PRO
6. AUTO CAD
7. BOCAD
8. MS Projects.
9. MS Office

Our Teams are Familiar with the Material Specifications and Standards of:

1. JAPAN
2. CHINA
3. EUROPE
4. AUSTRALIA
5. USA
6. INDIA

MAJOR TYPE TESTS CONDUCTED ON TRANSMISSION TOWERS

To the credit of individuals the following designs/Engineering, testing and certification are achieved during their career progress.

S. No	Description of Designs	Client	Certified Tested By
1	330KV Towers and Foundations	TCN Nigeria	CPRI, Bangalore
2	Reverse Engineering works on Telecomm Towers	Netis, Ghana	Trans design, South Africa
3	2 Types 132KV DC Towers	TCN, Nigeria	R & C Nagpur
4	60 and 70 Meter Telecom Towers	Telenor, Myanmar	YCDC, Yangon
5	4 types of 33KV DC Towers	ECG Ghana	CPRI, Bangalore
6	8 Types of 132KV DC Towers	TCN, Nigeria	CPRI, Bangalore
7	400M Radio Tower	Jaggard, Dubai	SERC
8	5 Types of 132KV DC Tower	NEA(Nepal Electricity Authority)	CPRI, Bangalore
9	275KV Detailing and Designs	TNB Malaysia	CPRI, Bangalore
10	7 Num of 275kv D/C Towers	TNB SABAH Malaysia	CPRI, Bangalore
11	2 Num of 275Kv	TNB SABAH Malaysia	CPRI, Bangalore
12	2 Num of 275Kv River Xing Towers	SARAWAK SABAH	CPRI, Bangalore
13	5 Num of 132Kv Reverse Engg of Existing Towers	TNB SABAH Malaysia	CPRI, Bangalore
14	8 Num of 275Kv Tower Basic Span	TNB SABAH Malaysia	CPRI, Bangalore
15	3 num of 33kv	ECG, Ghana	CPRI, Bangalore
16	3 num of 132kv	TCN, Nigeria	CPRI, Bangalore

MAJOR CLIENTS:



Power Transmission:

Electricity Company Ghana Ltd (ECG),
Power Holding Company of Nigeria (PHCN), Kenya
Power Lighting Corporation (KPLC),
NEA Nepal,
EEPCO, Ethiopia
Tenaga National Berhad, Malaysia, Sarawak
Energy Supply Co, Malaysia etc...

Telecom:

ZTE,
MTN,
NTC Nepal,
Zain, Motorola etc.

THANK YOU

**BGR ENGINEERING SERVICES Pvt Ltd.,
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