INDUSTRIAL VISIT
TO
66 KV SUBSTATION (GETCO) RANASAN
&
KOKILA ELECTRICALS

Report Submitted By :
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66 KV SUBSTATION RANASAN

Above diagram is a single line diagram of 66KV Substation.
66KV Substation:

- There are 3 lines receiving i.e. VIJAPUR RANASAN LINE, RANASAN HIRPURA LINE & RANASAN DEDHROTA LINE of 66KV each.
- The very first equipment in any substation is Lighting arrester. It is used for protection purpose.
- Next equipment after lighting arrester is Isolator. It isolates the system.
- After isolator, Circuit Breaker is connected. It is used to make or break the circuit.
- Current Transformer is connected after circuit breaker. It is used to measure low current and also for protection purpose.
- Bus-bar is connected in a line. It has 66KV voltage of each line. On both the sides of bus-bars isolators are connected.
- Above isolator and circuit breaker are connected for protection at receiving line.
- Now again isolator and circuit breaker are connected for protection of transformer.
- Transformer of 66/11KV is used to step down high voltage.
- This 11KV is send to distribution through feeders.

Control panel:

Above diagram is a Control panel of 66KV Substation.
KOKILA ELECTRICALS

COMPANY PROFILE :

KOKILA ELECTRICALS was established in 1991. We are one of the fastest growing Companies of India, Who designs manufacture a complete range of “Quality Transformers”

They are pleased to introduce ourselves as an ISO 9001:2000 certified manufacturer of Power Transformers and Distribution at vijapur exploring entire INDIA. We are highly engaged in the field of Power transformers, Rectiformers, Distribution transformers, Special design transformers (LST), Generator transformers, Furnace Transformers and Special transformers as per customer requirement since 1991.

Kokila Electricals was our initial effort which resulted into other three units – Its sisters consults viz Kamla Electricals, Chirag Electricals and R.K Electricals within short period. At present all the four firms are fully engaged in the field of transformers exploring entire region of Transformers field.

After gaining a remarkable success in this field we have successfully entered in the field of manufacturing and have achieved a good response in the said field. The initial financial year too was booster for Kokila Electricals as we manage our annual selling target completed within nine months and also gaining good feedback for the Transformers installed.

Kokila Electricals has always shown a keen interest in educational activities too, we have been sharing our knowledge with Engineering institutes, providing them visits to our plants, interested students are trained free of cost, we assist them heartily to carry over their projects and also managing free lectures by our expert engineers in different colleges.

They are also holding an industrial visit of the students of Government Institute / Technical colleges. We are bide member of many Technical institutes and are always ready to provide them the support they demand whether it is regarding research work or any Technical assistance. We have given on job training to the students of ITI and Diploma holders of Visnagar Polytechnic.

Factory is well equipped with high standard machinery and testing equipments with capability to tackle with wide range and different types of Transformers. We have highly skilled workers and qualified engineers and have the capacity to manufacture Transformers upto 22 MVA and repair the various type of transformers upto 100 MVA.
Kokila Electricals furnish below brief particulars regarding our capabilities:

- **Design**: We have in-house designing, headed by Director (Elec.), including Dy. Manager, Design Engineers & Draftsmans. We have also developed in house design software.

- **Quality Control**: We are an ISO 9001:2000 certified company & strictly follow quality procedures & systems as per our quality manual.

- **Testing Standards**: We follow testing procedures as per the IS 9815 & IS 2026.

- **Manufacturing Unit /Repairing Unit**: We have separate unit for manufacturing and Repairing of transformers. Our plants are equipped with latest machinery and skilled workers to achieve the highest quality standards, including IS, IEC and other required.

- **Customers Base**: We are pleased to inform you that our products are in operation under the brand names of "KOKILA" at several prestigious organizations, a few are listed below:

  1) **Power Sector**: Electro steel, ONGC, Kalpataru Power, UGVCL, Reliance Energy, Gujarat Energy Transmission LTD, SUZLON Infrastructures Ltd, W.T.P.S, MGVCL, Torrent power, GSEG.

  2) **Oil Sector**: Essar, Indraprastha Gases, GAIL, Indian Oil, Bharat Petroleum, M.V. Oil Mill, Balaji Oil Industries.

  3) **Mall**: Iscon Mega Mall (AHEMADABAD), Iscon Mall SURAT, Iscon MALL RAJKOT, ISCON Mall Ahmedabad, Dev Arcade.


CUSTOM TRANSFORMERS:

- 100 KVA to 3000 KVA of class 11, 22, 33 kv oil cooled distribution transformers with On Load Tap Changer & Off Load Tap Changer.

- Power Transformers with On Load Tap Changer.

- LST Transformers

- Cast Resin Transformers.

- Earthing Transformer.

- Auto Transformer.

- Furnace Transformers with OLTC. & Series & Shunt Reactor.

- Converter duly Transformers for HVDC System.

- High Voltage Testing Transformers for Aeronautics.

- Special purpose transformers according to customer specifications.

Pics of transformer:
These two pictures are of core design and windings.