



GUJARAT INDUSTRIES POWER COMPANY LTD

POWER PLANT SERVICES



LABORATORY ANALYSIS & DM WATER SUPPLY



Gujarat Industries Power Co Ltd(GIPCL), was established in June 1985 to supply power to its participating units. The Company was promoted by Gujarat Alkalies & Chemicals(GACL), Gujarat State Fertiliser Co Ltd(GSFC), Gujarat Electricity Board(Presently GUVNL). Petrofils Cooperative Ltd with active support from Govt Of Gujarat.



- The first Unit of 145 MW gas based CCPP was commissioned in 1992 at Vadodara
- 165 MW CCPP expansion at same location commissioned in 1997
- Commissioning of The first Phase of 2 x 125 MW (SLPP) Power plant based on eco friendly CFBC technology at Nani Naroli, Dist Surat in 1999
- Commissioning of SLPP-Phase-II of 2 x 125MW in year 2010



Excellent Track Record

All the Units of GIPCL have been operated with high degree of Availability throughout the year in spite of adopting relatively new technology in each project:

- GIPCL 145 MW CCPP amongst first few units of BHEL FR 6 Gas Turbine in India
- GIPCL 165 MW CCPP –First PG9171E(Fr-IX) machine commissioned in India and operated successfully on Hazardous Fuel like Naphtha
- GIPCL Mangrol 2 X 125 MW CCPP- First large CFBC Power plant in India on Lignite

Strength of the Organisation & Experience

- Proven Track record of Reliable, cost effective O&M of gas & Lignite based power plant of total 810 MW Capacity
- O&M supervision services for GMDC 250 Lignite Power Plant at Akrimota
- Pool of Experience & talented Engineers of all discipline
- Operation, Maintenance of Water Treatment plant of large capacities with testing and analysis of water, fuel & lube oil well equipped laboratory
- ISO certified since 2006, with all latest versions of QMS, EMS & OHSAS

SUPPLY OF DM WATER AND LABORATORY TESTING SERVICES

GIPCL is in the business of power generation since 1991 at Baroda. It is ISO certified since 2006 with latest versions of QMS, EMS & OHSAS certification.

Supply of Demineralised Water

GIPCL can cater to the need of pure excellent quality DM water to suit boiler and other industrial application on request basis. The same can be supplied from our Vadodara Plant on contract rate or spot basis. The DM water is tested and certified for required parameters at the time of supply.

We are producing high quality DEMINERALIZED WATER of following specifications.

pH : 5.50 to 7.00

Conductivity : < 1.00 Micro S / CM

Silica : < 0.05 ppm (less than 50 ppb)

All instruments are online. pH & Conductivity meters are High purity meters of Emerson make & Online Silica analyzer is HACH –USA make.

D.M. water can be supplied in tanker (to be arranged by Purchaser) with filling up facility at our plant.

Laboratory Testing Services

Quality Control Laboratory at Baroda , is well furnished & fully equipped with latest laboratory testing Instruments. Some of the key features about our laboratory at Baroda is as under.

- Team of well-qualified and highly experienced personnel
- Highly precise testing instruments
- Best Laboratory practices
- ISO certification for QMS, EOHS & BS – OHSAS
- Analyzing Raw water, Waste water, Cooling water, Boiler water & Lubricant oil samples.

List of Analysis, we offer :

1. Raw Water : pH, Conductivity, Total Dissolved Solids, Suspended Solids, Chloride, Sulfate, Silica, Turbidity, Nitrate, Alkalinity, Hardness, Acidity.
2. Boiler Water : pH, Conductivity, Total Dissolved Solids, Chloride, Sulfate, Silica, Turbidity, Copper, Alkalinity, Hardness, Phosphate, Hydrazine, Iron, Acidity, Ammonia, Sulfide.
3. Cooling Water : pH, Conductivity, Total Dissolved Solids, Suspended Solids, Chloride, Sulfate, Silica, Turbidity, Copper, Alkalinity, Hardness, Phosphate, Iron, Acidity, Zinc, Nitrate, Ammonical Nitrogen, Azole, Oil & Grease, Fluoride, Sulfide.
4. Waste Water : pH, Conductivity, Total Dissolved Solids, Suspended Solids, Chloride, Sulfate, Silica, Turbidity, Copper, Alkalinity, Hardness, Phosphate, Iron, Acidity, Zinc, Nitrate, Ammonical Nitrogen, Azole, Oil & Grease, Fluoride, Sulfide, Chromium, Chemical Oxygen Demand (C.O.D.)
5. Lubricant Oils : Moisture by Karl Fisher, Viscosity By Brook Field Viscometer, Specific Gravity, Acidity, Alkalinity, Mechanical Impurity.

List of Laboratory Instruments :

Sr	Instrument	Model	Make
1	SPECTROPHOTOMETER	UV- 1700	SHIMADZU
2	VISCOMETER	LV DV II + PRO	BROOKFIELD
3	VISCOMETER	FREE FALL TYPE	MAHARAJA
3	p H METER	μ p H CAL 10	ANALAB SCIENTIFIC
4	CONDUCTIVITY METER	μ CON CAL 10	ANALAB SCIENTIFIC
5	TURBIDITY METER	132	SYSTRONICS LTD
6	BALANCE	XS 204	METTLER TOLEDO
7	MOISTURE ANALYSER	μ Aqua Cal 50	ANALAB SCIENTIFIC
8	DEW POINT ANALYSER / HYGROMETER	Cat.no. 11-661-16	FISHER SCIENTIFIC
9	C.O.D. DIGESTOR	DBK 5129	DBK INSTRUMENTS



THIS BALANCE WEIGHS ACCURATELY & PRECISELY.
ACCURACY LEVEL UP TO 0.0001 GM
MODEL : XS - 204
METTLER MAKE



THIS VISCOMETER MEASURES VISCOSITY OF LUBRICANT OIL SAMPLES IN CENTISTOKES.
MODEL : LV DV PRO +
BROOKFIELD VISCOMETER



FISHER HYGROMETER USED FOR MEASURING RELATIVE HUMIDITY, Dew POINT, & TEMPERATURE OF GASEOUS SAMPLES, AIR ETC.
FISHER MAKE



MOST OF THE WATER PARAMETERS ARE MEASURED OVER HERE. MEASURES IN MICRO GRAM.
MODEL : 124 - 1700
SHIMADZU - MAKE



THIS C.O.D. DIGESTOR IS USED FOR DIGESTION OF SAMPLES UNDER TEST FOR CHEMICAL OXYGEN DEMAND ANALYSE.
DMB MAKE

Awards & Recognition

- The company won Bronze Shield for Best Plant Performance by Ministry of Power



Hon'ble PM Dr Manmohan Singh, giving away Bronze Shield for Best Performing Power Plant of India



Hon'ble CM Of Gujarat Dedicating 2 X125 MW Power Station to the Nation

An ISO 9001:2008,ISO 14001:2004, OAHAS 18001:2007 Certified company



Business Enquiry

For any Business Enquiry related to Supply of DM water or services related to Laboratory testing of Water, Fuel or Lube Oil samples, visit: <http://www.gipcl.com/services.php>