

ETHER

Engineering Educational Equipments



Cert. No. 4493



An **ISO 9001:2008** Certified Co

MODELS OF POWER PLANTS

★ MODEL OF THERMAL POWER PLANT

★ MODEL OF DIESEL POWER PLANT

★ MODEL OF GAS TURBINE COMBINED CYCLE POWER PLANT.

★ MODEL OF GAS TURBINE POWER PLANT (Open Cycle)

★ MODEL OF HYDRO-ELECTRIC POWER INSTALLATION

★ MODEL OF NUCLEAR POWER PLANT

★ MODEL OF PARABOLIC TROUGH SOLAR POWER PLANT

★ MODEL OF WASTE WATER TREATMENT PLANT

★ MODEL OF DRINKING WATER TREATMENT PLANT

MODEL OF THERMAL POWER PLANT



MODEL OF THERMAL POWER PLANT:

Model shows schematic arrangement and general Layout of a modern Thermal power plant.

The main components of Thermal Power Plant Model are Cooling tower, Transmission line, Step-up transformer, Electrical generator, Low pressure steam turbine, Intermediate pressure steam turbine, Generator, Feedwater heater, Coal conveyor, Coal hopper, Coal pulverizer, Boiler steam drum, Bottom ash hopper, Super heater, Forced draught (draft) fan Reheater, Combustion air intake, Economiser, Air pre-heater, Precipitator, Flue-gas stack etc.

All metal construction, finished in different colours. All are named for easy identification. Mounted on wooden base board size 175 cm. x 40 cm.

MODEL OF DIESEL POWER PLANT



MODEL OF DIESEL POWER PLANT:

Model shows schematic arrangement and general Layout of a modern Diesel power plant. The main components of power plant model are Diesel Engine, Air filter and supercharger, Exhaust system, Fuel system, cooling system, Lubrication system and starting system. Generator and power transmission system.

All metal construction, finished in different colours. All parts are named for easy identification. Mounted on wooden base board. size 90 cm. x 75 cm.

MODEL OF GAS TURBINE COMBINED CYCLE POWER PLANT.



MODEL OF GAS TURBINE POWER PLANT (COMBINED CYCLE):

Model shows schematic arrangement and general Layout of a modern Gas Turbine Combined Cycle power plant. The main components of power plant model are air compressor, a combustion chamber (combustor), turbine. heat recovery steam turbine, Electric Generators, Cooling Tower, , Power transmission system etc.

All metal construction, finished in different colours. All parts are named for easy identification Mounted on wooden base board. size 120 cm.x 65 cm.

MODEL OF GAS TURBINE POWER PLANT (Open Cycle)



MODEL OF GAS TURBINE POWER PLANT (Open Cycle):

Model shows schematic arrangement and general Layout of a modern Gas Turbine power plant (Open Cycle). The main components of power plant model are air compressor, combustion chamber (combustor) and turbines. Electric Generator, Stack Power transmission system.

All metal construction, finished in different colours. All parts are named for easy identification Mounted on wooden base board. size 85 cm.x 45 cm.

MODEL OF HYDRO-ELECTRIC POWER INSTALLATION:



MODEL OF HYDRO-ELECTRIC POWER INSTALLATION:

Model shows schematic arrangement and general Layout of a modern HYDRO-ELECTRIC power plant. The main components of the plant model are Dam site, Intake, Control gate, Penstock, Water Turbine with Generator, power transmission system etc. Plant body made of wood with metal parts , finished in different colours.

All parts are named for easy identification. Mounted on wooden base board. size 65 cm.x 40 cm.

MODEL OF NUCLEAR OWER PLANT:



MODEL OF NUCLEAR POWER PLANT:

Model shows schematic arrangement and general Layout of a modern Nuclear power plant. The main components of power plant model are Containment Structure, Reactor Vessel, Control Rods, Pressurizer, Steam Generator, Steam Turbine, Condenser, Electric Generator, Cooling Tower, Power Transmission System etc.

All metal and wood construction, finished in different colours. All parts are named for easy identification. Mounted on wooden base board. size 100 cm.x 50 cm.

MODEL OF PARABOLIC TROUGH SOLAR POWER PLANT:



MODEL OF PARABOLIC TROUGH SOLAR POWER PLANT:

Model shows schematic arrangement and general Layout of a modern Parabolic Trough power plant. The main components of power plant model are Solar Trough Field, Hot Salt Tank, Thermal Energy Storage, Steam Boiler, Steam Turbine, Oil Circuit Heat exchanger, Cooling Tower. Electric Generator, Power Transmission System etc.

All metal construction, finished in different colours. All parts are named for easy identification. Mounted on wooden base board. size 130cm.x 90 cm.

MODEL OF WASTE WATER TREATMENT PLANT



MODEL OF WASTE WATER TREATMENT PLANT

Model shows schematic arrangement and general Layout of Waste Water Treatment Plant. It consists of Waste water inlet, Coarse screen. Pumping station, Fine screen. Aerated grit and grease removal tank, Primary sedimentation tank, Aeration tank Secondary sedimentation Tank, U.V disinfection unit, Sludge thickener Anaerobic sludge digester, Sludge dewatering unit, Biogas storage tank, Cogeneration system power plant, etc. showing piping system , sludge treatment, water treatment system etc.

All metal construction, finished in different colours. All parts are named for easy identification. Mounted on wooden base board. size 180cm.x 75 cm.

MODEL OF DRINKING WATER TREATMENT PLANT:



MODEL OF DRINKING WATER TREATMENT PLANT:

Model shows schematic arrangement and general Layout of DRINKING WATER TREATMENT PLANT. Consists of Intake pipe, Pumping station, Raw water storage, Bar Screen, Low lift Pump Well, Pre Chlorination, Coagulation, Flocculation, Sedimentation Basin, Sand Filtration system, Post Chlorination, High Lift Pump Well, Water storage Tower, and Water Distribution outlet etc.

All metal construction, finished in different colours. All parts are named for easy identification. Mounted on wooden base board. size 150 cm.x 80 cm.

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