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## **Hydromechanical Works** Gates, Hoists & Accessories

**GENERAL MECHANICAL WORKS PVT. LTD.**

An ISO 9001 : 2008 Certified Company





## Overview



The design and manufacture of Hydel Gates is a specialized branch of Engineering and calls for a combination of structural, mechanical and electrical engineering, which necessitates considerable co-ordination between the different activities of respective disciplines.

GMW is fully equipped with well-organized modern workshops, design, engineering and research wing, skilled supervisions and our traditional expertise to manufacture such special product.

GMW, a Heavy Engineering Company, is one of the pioneers in the field of hydro mechanical equipments and have designed, manufactured, supplied and erected all types of gates and associated equipments, which are rendering trouble free services to the full satisfaction of our numerous customers.

# Designing & Engineering



GMW, by deploying its own team, is in a position to design various Hoists, Cranes and other material handling equipments, which includes medium and large capacity Rope operated / hydraulically operated Gate Hoists, Gantry Cranes, EOT Cranes, and Monorail Cranes for different Hydroelectric Projects and Thermal Projects.

The technological excellence, which GMW posses is solely due to the continuous support and contribution as obtained from our 250 brilliant devoted engineers and supporting staffs from all disciplines.

GMW's Design Office is fully equipped with all latest computer facilities, LAN, advanced designing & CAD – CAM software. Our independent fully modernized design and drawing office consists of work stations, laser printers and plotters, scanners, etc. all connected with use of LAN. Extensive use of design software like Auto CAD, Pro Engineering, ANSYS, STAAD PRO, Inventor, Solid Edge is done to generate customized solutions. We have also developed in house packages for design of intake equipment that help to standardize the models and continuously improve upon the same. All this is ably supported by our IT team maintaining powerful servers, regular backups and upgrading the system as to keep pace with the latest technology. Each of our products is custom designed for a specific location.



# Fabrication



GMW owns five fully equipped workshops located at different zones in India. Out of that One at Karjan (76000 Sq. Mtr), one at Por (22,000 Sq. Mtr.) and one at proper Vadodara, (5000 Sq. Mtr.) all in Vadodara District of Gujarat. Our 4th well equipped workshop is located at Una (10000 Sq. Mtr.) in Himachal Pradesh and the 5th one at Silliguri in West Bengal.

We have the infrastructural facility to conduct the Trial Testing and complete shop assembly of very large size Radial / Vertical Gates, Trash Rack Cleaning Machine and Travelling Water Screen etc. Use of NDT like dye penetration, UT and Radiographic tests as required is done in GMW's works.



Use of highly precision NC and CNC Machines, cutting, drilling, boring, milling and Plano-milling machineries along with highly experienced and qualified operators as well as supervisors guarantees reaching the expected quality.

Quality Assurance System

## Quality Assurance System

In order to maintain our tradition of quality and excellence of our products, strict quality control procedure have been maintained and followed to ensure the utmost consistency in the production.

GMW have established ISO 9001-2008 CERTIFIED QUALITY ASSURANCE SYSTEM. We have developed and established a reliable Quality Assurance System and Procedure to supply products to the entire satisfaction of our customers. Our bought out items are procured from reputed vendors and pass through stringent quality inspection in line with established Quality Systems.



Erection and Commissioning

## Erection and Commissioning

The erection, testing and commissioning of numerous projects all over India and abroad were conducted by our qualified and efficient engineers, after deciding the appropriate methodology of erection of each project, which would be best suited for the purpose.

## Health and Safety Policy

As a globally responsible citizen, GMW is devoted to the promotion of health-preserving, safety-oriented and environmentally friendly attitudes within the company.

With the conception and implementation of health, safety and environment (HSE) programs, we aim to mitigate health and safety risks in the workplace and impacts to the environment. In this respect, the well-being of our employees, contractors, Customers and communities is as important an issue as is sustainable development.



## WE ALSO EXECUTE ON EPC BASIS

<b>INTAKE EQUIPMENT</b>	: Travelling Water Screens, Trash Racks, Bar Screens, Stoplog Gates, Mobile Cleaning Machines.
<b>PIPING SYSTEM</b>	: Piping Systems of Low Pressure, Fire Protection System, F.O. and Large Dia Piping for Thermal and Hydro Electric Projects.
<b>STRUCTURAL STEEL</b>	: Fabrication and Erection of Heavy Steel Structures for Station Building, Coal Bunker, Switchyard etc. of Power Plants.
<b>TANKS</b>	: Floating roof and fixed roof Storage Tanks for Fuel Oil, D.M. Water, Lube Oil, etc.
<b>BALANCE OF PLANT (BOP)</b>	: Design, Supply and Installation of BOP Systems for Power Plants.

## SOME OF THE PROJECTS COMMISSIONED/UNDER EXECUTION

Sr. No.	Name of Customer	Brief Description of Work and Name of Project
01	Abir Infrastructure Pvt. Ltd., Haryana	Design, Manufacture, Shop Inspection, Painting, Packing, Transportation, Storage & Preservation, Erection, Testing and Commissioning of Gates, Hoist and Cranes for 1200 MW TEESTA III Hydro Electric Project at Sikkim.
02	Hindustan Construction Co. Ltd., Mumbai	Design, Manufacture, Shop Inspection, Painting, Packing, Transportation, Storage & Preservation, Erection, Testing and Commissioning of Gates, Hoist and Cranes & Penstock for 100 MW Sainj- Hydro Electric Project.(M/s HPPCL)
03	L&T Uttaranchal Hydropower Ltd.	Hydro Mechanical Equipments - Gates and Hoists package for Singoli Bhatwari Hydro Electric Power Project (3x33MW) on the River Mandakini in Rudraprayag District, State of Uttarakhand India.
04	Angelique International Ltd, (Export Order)	3 Nos. Intake Gate of Size : 5.32 M x 5.32 M, with individual Hoists 3 Nos. Draft Tube Gate of Size : 5.6 m x 3.856 M with one Gantry Crane and 6 Nos. Intake Trash Rack of Size : 4.05 m x 7.5 m for Nam Song Hydro Power Project, Laos.
05	International Power Corpn. Ltd, Bangalore	4 Nos. Radial Gates with 50 T capacity Hydraulic Hoist, 3 Nos. Draft Tube Gates, Surge Shaft Gates with 30 T capacity Hydraulic Hoist, Intake Gates & Trash Rack for Kemphole Mini Hydel Project (Karnataka).
06	Tamil Nadu Electricity Board, Chennai	21 Nos. 15.0 M x 9.0 M Vertical Gates with Rope Drum Hoist, 2 sets Stoplog Gates & 1 No. 35 T Capacity Gantry Crane, 4 Nos. 5.7 M x 15.7 M Intake Gate with 70 T Capacity Crane & 2 Nos. 12.4 M x 9.2 M Draft Tube Gates with two 65 T capacity Rope Drum Hoist for Bhavani Kattalai Barrage-I (Tamil Nadu)
07	Maneri Bhali Hydro Electric Project, Uttarkashi	1 set of Adit Gate, 1 set of Surge Shaft Gate with more than 150 T capacity Rope Drum operated Hoist against a design head of more than 100 M and 1 No. 40 T capacity Gantry Crane (Uttarakhand).
08	Tehri Hydro Development Corporation Ltd, Tehri.	1 set of Tail Race Tunnel Outlet Gate consisting of 5 units each of size 11.0 M x 1.6 M and 5 units each of size 11 M x 1.5 M with all accessories, 2 sets of Draft Tube Gate each set consisting of 3 elements of each of size 6.7 M x 3 M with all accessories and 1 set of Wheel type Maintenance Gate consisting of size 5.0 M x 11 M with all accessories (Uttarakhand).
09	NCL Energy Ltd, Hyderabad	3 Nos. Intake Gate with 30 T capacity Rope Drum Hoist, 3 Nos. Draft Tube Gates with 25 T capacity Hoist & 1 set Stoplog Gate with 25 T capacity Crane for Pothireddipadu Mini Hydel Scheme, (Andhra Pradesh)
10	NCL Energy Ltd, Hyderabad	3 Nos. Bonnet Gates with Hydraulic Hoist, 3 Nos. Draft Tube Gates, 12 Nos. Trash Racks & 1 set Stoplog Gate for Tungbhadra Dam, Mini Hydel Project (Andhra Pradesh)
11	Atria Hydel Power Ltd, Bangalore	2 Nos. Intake Gates with 50 T capacity Hydraulic Hoists, 2 sets Stoplog Gates, 2 Nos. Draft Tube Gates with 20 T capacity Rope Drum Hoist & 2 Nos. Trash Racks for Sivasamudram / Brindavan Hydel Scheme (Karnataka).
12	Angelique International Ltd, (Export Order)	Manufacturing, Testing and Supply of Radial Gates, Hoists and Hoist Bridges for Salma Dam Project (Afghanistan).



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