



A Paharpur Class 800 Natural Draught Cooling Tower at Gujarat Torrent Energy Corp. Ltd's 655 MW Combined Cycle Power Plant at Paguthan. EPC Contractor - Siemens Ltd., Germany.

Class 800 Natural Draught

The biggest of cooling towers. These concrete counterflow hyperbolic design towers are custom engineered to meet the most extreme power generation requirements, and, this design can meet those requirements with minimum operating costs and a low pump head.

The absence of fans results in 100 % saving of fan energy consumption and eliminates maintenance of moving equipment.

Paharpur utilizes the latest in construction technology by adopting automatic climbing formwork with a net lift of 1.5m. Shell geometry is controlled by a computerised laser surveying station. Concreting and material handling for the shell construction is controlled by a centrally erected tower crane.

By eliminating manual methods and computerising project management techniques, Paharpur can easily average shell construction rates of over 25m per month and peak rates of over 30m per month.

Please turn over



Additional Services

offered by

Paharpur Cooling Towers

Paharpur is dedicated to serving the needs of customers - needs that begin far in advance of the actual purchase of a new cooling tower, and vary over the operating lifetime of the project. In order of probable occurrence, the additional services offered by Paharpur are as follows :

1. APPLICATION/SIZING/LAYOUT SERVICES -

Paharpur field application engineers are trained to assist you in choosing the proper type and size of cooling tower, and will guide you in its appropriate location on site. They will also help you write the specifications for its purchase. Being the only manufacturer that makes all types of cooling towers, Paharpur can be totally unbiased in pursuit of your requirements.

2. CONSTRUCTION SERVICES - Paharpur undertakes turnkey responsibility for civil construction and mechanical erection of your cooling tower, finishing up with the final testing and commissioning of the completed tower - freeing you to look after the rest of the project.

3. PARTS SERVICES - Paharpur maintains a stock of spare parts for your specific tower. You will **not** be at the mercy of an outsider vendor, because **all** of the parts required (except the motor) are designed and manufactured by Paharpur.

4. MAINTENANCE SERVICE - In addition to providing complete instructions and continuing guidance, Paharpur will provide as much "hands on" maintenance as you require.

5. CONDITION SERVICE - From time to time, for your peace of mind, Paharpur can give your tower a

thorough inspection to evaluate its current condition. This usually allows you to foresee and forestall problems before they become serious.

6. RECONSTRUCTION SERVICES - Due to operating or atmospheric conditions, or age, sooner or later your tower will be in need of repairs above and beyond those categorized as normal maintenance. Paharpur's reconstruction service can return your tower to grade A condition.

7. PERFORMANCE IMPROVEMENT SERVICE - Systems served by cooling towers grow in response to demand for the product produced by that system. In most cases, customers find that more product could be produced if the cooling tower were capable of delivering colder water. Fortunately, cooling tower technology advances with time, and Paharpur can apply this increased technology to upgrade your tower's thermal performance.

8. TOWER REPLACEMENT SERVICE - Occasionally, customers will find it of greater advantage to them to replace an existing tower than to attempt refurbishing. Paharpur stands ready to assist you in that endeavor - and, in most cases, the replacement will require little or no change in your concrete basin or support structure.

9. COOLING TOWER INFORMATION SERVICE - It is Paharpur's feeling that the more informed customers are - the more easily their needs can be recognized and served. Regular mailings of technical bulletins work to our mutual advantage. To place your name on our mailing list, please write to our Corporate Communication & Marketing Support Services Division.



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