



APEX STEEL FABRICATORS

Heavy Fabrication Unit



Division D-2, Aatmiya II Industrial Park, Por, Gujrat 391243

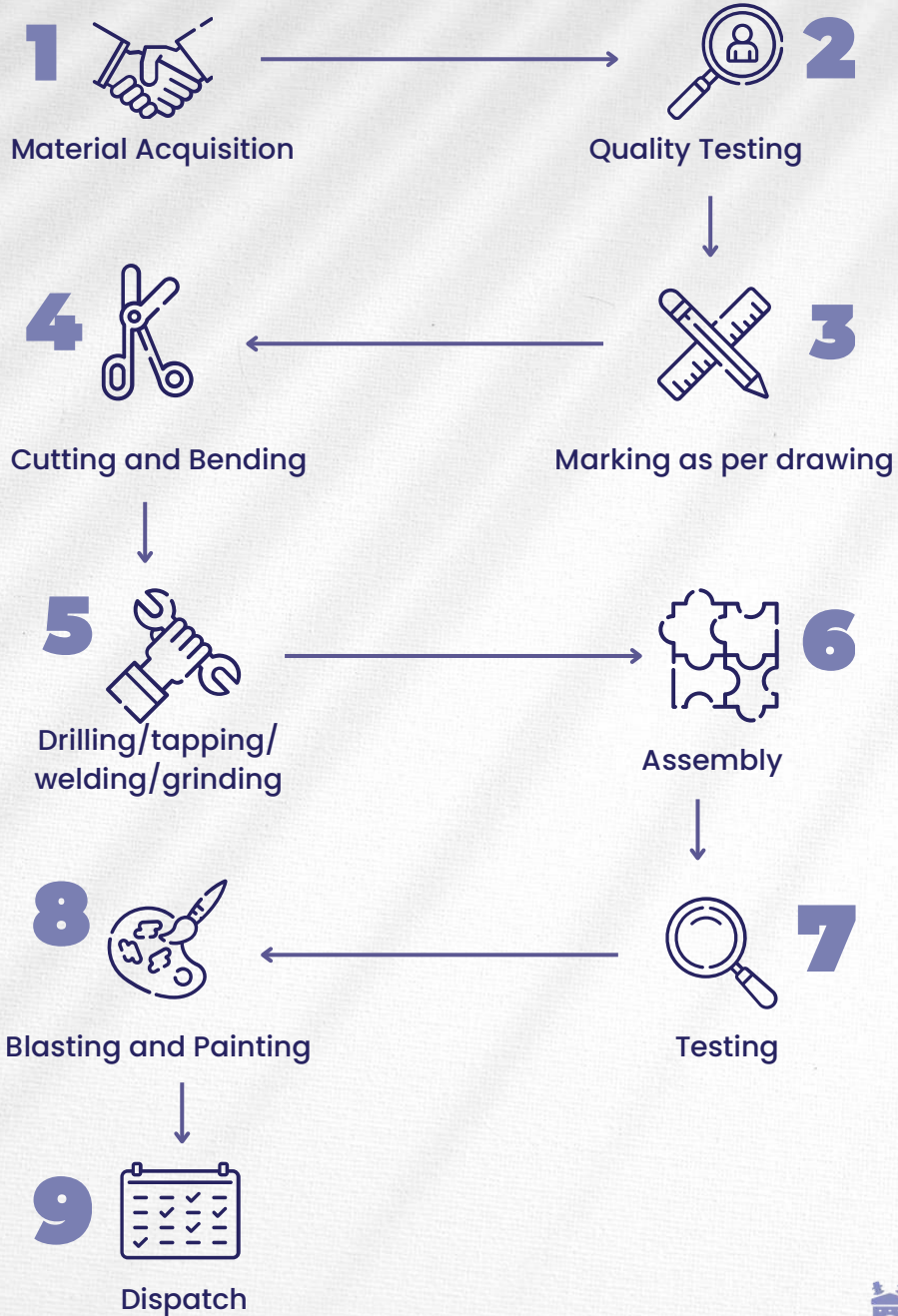
About us



We are a heavy metal fabrication unit with a special focus on manufacturing of **power transformer tanks**. Our team has over **30 years of experience** in the industry supplying to reputed transformer manufacturers such as CG Power and Bharat Bijlee Ltd. We pride ourselves for being a **one-stop-shop** for your power transformer tank needs with inhouse **Blasting, Painting, WPS/PQR** qualified welders, **CNC cutting machine** and all required testing equipment, to avoid over dependence on outside vendors. Our plant consists of an area of approximately **35,000 ft² under crane** allowing us to facilitate multiple orders of various sizes simultaneously so as to meet all delivery deadlines without unexpected delays.

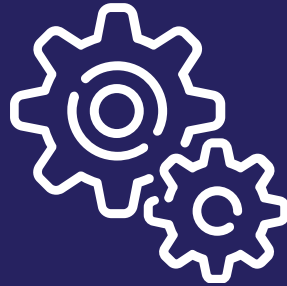
All these factors allow us to accomplish our goal of delivering a **well-tested** and **high quality** product that exceeds expectations all while maintaining a **customer first approach**.

Process Map



Machinery

Our plant boasts a wide array of the finest machinery required in power transformer tank manufacturing. Hence allowing us to be a one-stop shop for our customers' power transformer tank needs.



ASF



Welding

We have WPS/PQR qualified welders operating machinery for TIG, MIG, Arc, Flux cored, Solid Wire and automatic easy ofc welding.



Cutting

In addition to handheld cutting machines, we boast a CNC plasma and oxyfuel cutting machine with a bed of 2.5m x 12.5m and a bandsaw machine



Drilling/Tapping

We have an array of pillar and radial drills in addition to tapping machines



Blasting and Painting

Our individual blasting and painting booths allow us to efficiently paint tanks upto 500 MVA. We can accomodate customer specified surface roughness along with paint specifications including Zinc spray painting.



Cranes

We have 2 EOT cranes with 20 ton capacities. Each crane has 2 crabs for efficient handling.



Measurements and Finishing

A large array of calibrated measuring equipment and abundance of finishing equipment allows us to produce accurate to drawing and aesthetically pleasing tanks.

Testing

We pride ourselves at offering the highest quality product. To do so, every tank we manufacture undergoes thorough testing.





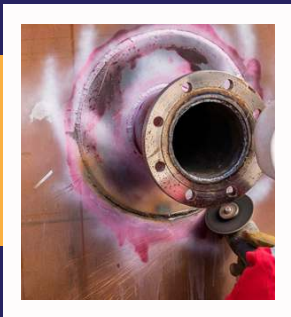
Ultrasonic Testing

All plates used to manufacture our tanks are tested ultrasonically for internal soundness.



Vaccum/Pressure Testing

We use pumps to generate vacuum/pressure within the tank after which the tank is made to hold the vacuum / pressure for a period of minimum one hour based on customer requests. Multiple measurements are taken before, while holding and after releasing the vacuum/ pressure to ensure that the tank can safely withstand the conditions without deforming.



Dye Penetration Testing

The test involves cleaning the weld surface, applying a visible or fluorescent dye and allowing penetration into surface cracks. A developer is applied to draw out the dye from flaws. Indications are then visually inspected to detect surface-breaking defects in the welded joint which can then be promptly corrected.



Leak Testing

All products are filled with compressed air and made to hold the same. After this a mix of detergent and water is sprayed onto the product. In case any leaks are present, the surface will begin to foam and corrective action is taken.



Alignment and Flatness Testing

We ensure complete alignment after mounting all accessories and pipes with required dummies if any. Furthermore, flatness of all required parts is measured on a calibrated bed plate using the required equipment. This allows us to ensure perfect connections and a hassle-free assembly in addition to a aesthetically pleasing finished product.

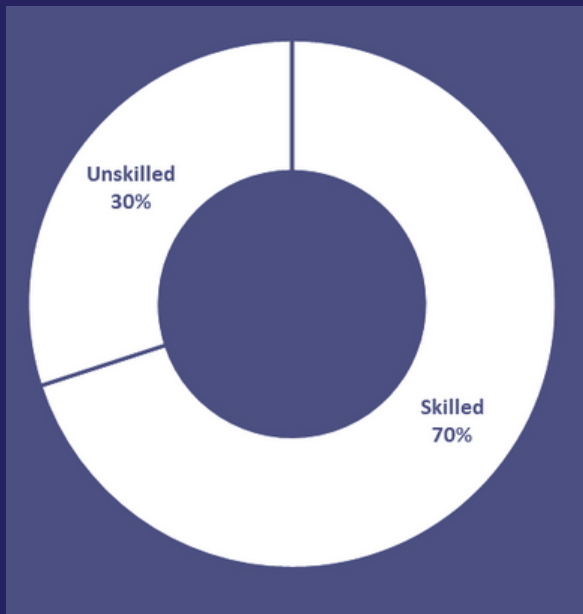


Surface Preparation and Paint Thickness Testing

After the blasting process, a gauge is used to determine whether all surfaces have reached the required level of roughness. This ensures optimal and long lasting adhesion of paint onto the steel. Additionally, paint viscosity and coating thickness is also tested to ensure all customer specifications are met.

Staff

With 40 employees we have the perfect mix of accountants, engineers, certified welders, trained blasters & painters, CNC operators and AutoCAD designers.



ISO certificates





Proud vendors of



Contact us at



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