

SAMRAT ASHOK TECHNOLOGICAL INSTITUTE VIDISHA (M.P.)



INDUSTRIAL VISIT REPORT

on

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at



Grow More Plastic Pipe Industries Vidisha (M.P.)

About industry:

Growmore Plastic Pipe Industries in Vidisha is known to satisfactorily cater to the demands of its customer base. The business came into existence in 2017 and has, since then, been a known name in its field. It stands located at Industrial Area **Pitalmeel Chauraha, Vidisha Sanjay Agency, 8 Ibrahimganj Gali**. It has earned stamps like Jd Verified, Jd Pay substantiating the credentials of the business. The business strives to make for a positive experience through its offerings.

Customer centricity is at the core of Growmore Plastic Pipe Industries in Vidisha and it is this belief that has led the business to build long-term relationships. Ensuring a positive customer experience, making available goods and/or services that are of top-notch quality is given prime importance.

India's leading B2B market place, Jd Mart ensures engaging in business activities is a seamless process for small and medium enterprises as well as large businesses. In a wake to enable these businesses to reach their audience, this portal lets them showcase their offerings in terms of the products and/or services through a digital catalogue. This business has a wide range of product offerings and the product/catalogue list includes Diesel Pump, Flexible Pipe, HDPE Flange, HDPE Pipe Fitting, HDPE Pipe etc.



Products:



HDPE White Garden Pipe



HDPE Agriculture Pipe



PVC Casing Pipe



UPVC Column Pipes



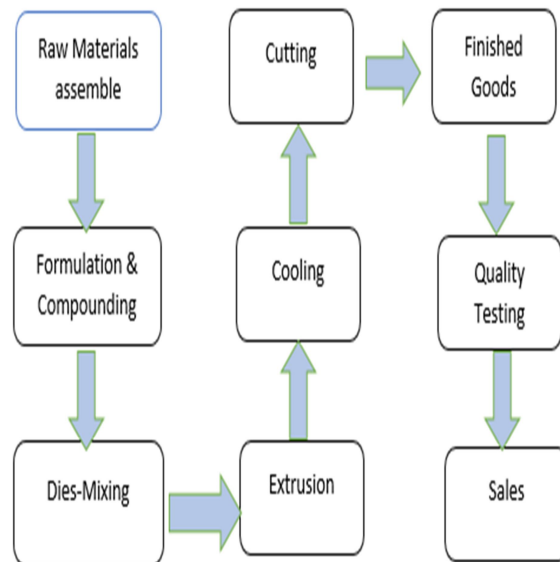
HDPE Tailpiece

HDPE pipe manufacturing:

HDPE pipe is a type of flexible plastic pipe used for fluid and gas transfer and is often used to replace ageing concrete or steel mains pipelines. Made from the thermoplastic HDPE (high density polyethylene), its high level of impermeability and strong molecular bond make it suitable for high pressure pipelines. HDPE pipe is used across the globe for applications such as water mains, gas mains, sewer mains, slurry transfer lines, rural irrigation, fire system supply lines, electrical and communications conduit, and stormwater and drainage pipes.



PROCESS FLOW CHART:



HDPE pipes have become an essential part of the infrastructure of many things. The majority of HDPE pipes are used in water supply, gas supply, sewage, drainage, but there are other examples such as **the HDPE coil pipes** which are used in underground infrastructure because of their durability and high density.

Steps of manufacturing HDPE pipe:

❖ Accumulation of Raw Material:

The raw material forms the most integral part of the manufacturing process because without the inclusion and availability of raw material,



it would be impossible for a manufacturer to produce pipes. The raw material which goes into making an **HDPE pipe** is HDPE granules and carbon black. The HDPE granules are small chunks of high density polyethylene which are blended with carbon black in a high temperature container.



❖ Melting The Raw Material:



Before the pipe is brought into shape by using the extrusion machine and further processes, the raw material is kept in a container and subjected to a high temperature wherein it is held until it melts.

❖ Vacuum and Pressure Calibration:



Among the other important processes, the pipe has to go through this process as well. The vacuum and pressure calibration of the pipe allows the **HDPE pipe manufacturers** to know what kind of pressure can the pipe withstand.



❖ **Cooling Bath:**



It is obvious that the **HDPE coil pipes** are going to be hot when they come out of the above-mentioned processes. That is why, it is important that they undergo a cooling bath process which makes them go through a uniformly distributed water shower so that every curve of the pipe is covered well.



❖ **Haul off unit:**

It is the second last stage of manufacturing the pipe and after the pipe that has been cooled down undergoes this stage, it qualifies for the final stage of the process which is known as the cutting unit.



❖ Cutting unit:

The pipes are given a distinct length by cutting them off. Most of the pipes are usually 3 meters, 6 meters and 9 meters long, but in the case of HDPE pipes, this length is usually higher.



❖ Storage:



Summary:

Grow More Company is a prominent manufacturer of pipes, situated in Vidisha. The company specializes in producing a wide range of pipes used in various industries, such as construction, infrastructure, and agriculture. Their commitment to quality and innovation has made them a reliable player in the market.

Students Feedback:

During the visit, we were given a comprehensive tour of the manufacturing facility. The process began with the raw materials - coils of metal - being inspected and prepared for processing. We witnessed the intricate machinery used for cutting, shaping, and welding the pipes. It was impressive to observe the precision and automation involved in each step.

Witnessing the various stages of pipe production, from raw materials to finished products, helped us grasp the complexities involved in industrial manufacturing. The visit bridged the gap between classroom learning and practical application, illustrating how theoretical knowledge translates into tangible products. The industrial visit to **Grow More** Company was an enriching experience that broadened our understanding of industrial operations, manufacturing processes, and quality control practices.