



## SCM ENGINEERING SERVICES

Technical Report on

### *MODELING AND DRAFTING OF WATER PIPE INLET*

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# MODELING AND DRAFTING OF WATER PIPE INLET

## ***INTRODUCTION:***

Piping system has become one of the main source of supplying water for different commodities, this has been mainly enhanced by developing great designs on the piping systems and connections.

The requirements today indicate a large margin for creative design of such components and **SCM Engineering Services** has undertaken modeling of water pipe inlet component, which is mainly used for piping system. This project is done for one of the leading **US client**, a global power leader, having a corporation of complementary business units that design, manufacture, distribute and service engines and related technologies, including fuel systems, controls, air handling, filtration, emission solutions and electrical power generation systems.

## ***OBJECTIVE:***

To design and draft a 3D model of the Water Pipe Inlet.

## ***METHODOLOGY USED:***

The requirements were to design and draft a 3D model of the water pipe inlet. The sketches containing required dimensions were received from the client in AutoCAD drawing file format. The model was then built up from the initial model to meet the criteria. Technical details were incorporated from the given sketches. The final draft was made keeping in mind the manufacturing requirements and costs.

## ***SOFTWARE USED:***

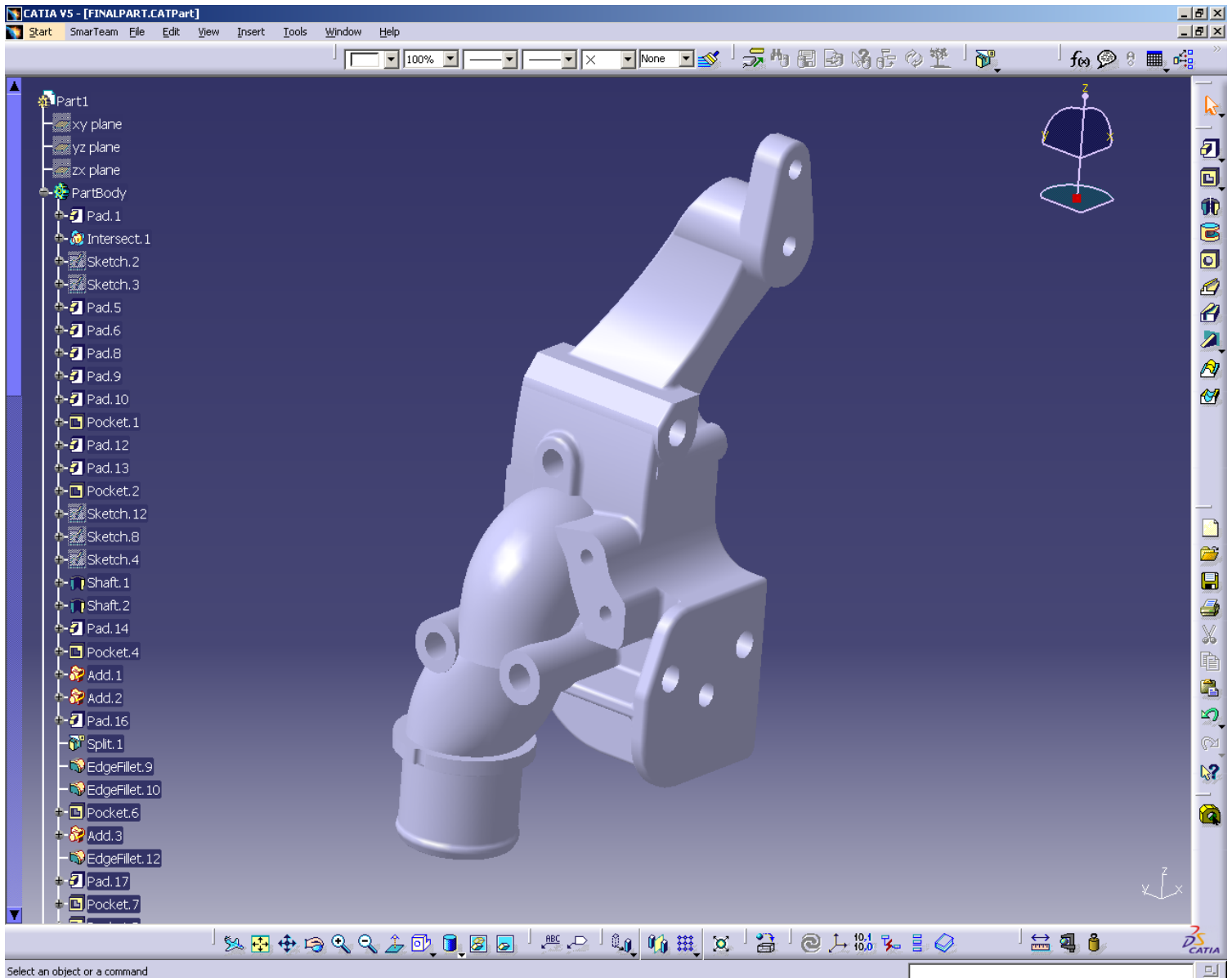
For the present work Catia V5R12 software was used.

## ***HARDWARE USED:***

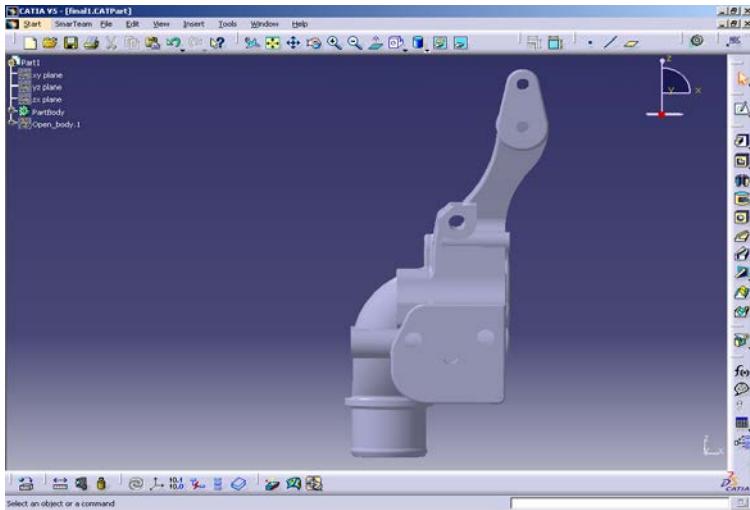
For the present work Intel(R) based Pentium-4 CPU 2.4 GH, 1 GB RAM machine was used.

## ***RESULTS AND DISCUSSION:***

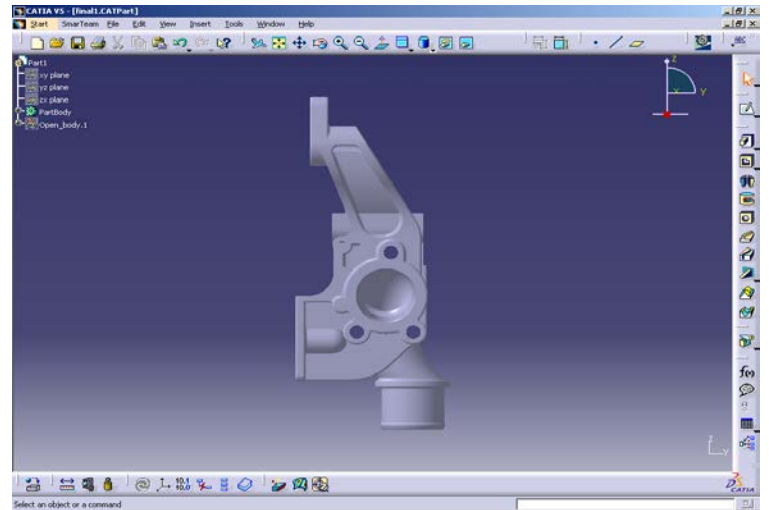
The following figures show the complete design and drafting of WATER PIPE INLET



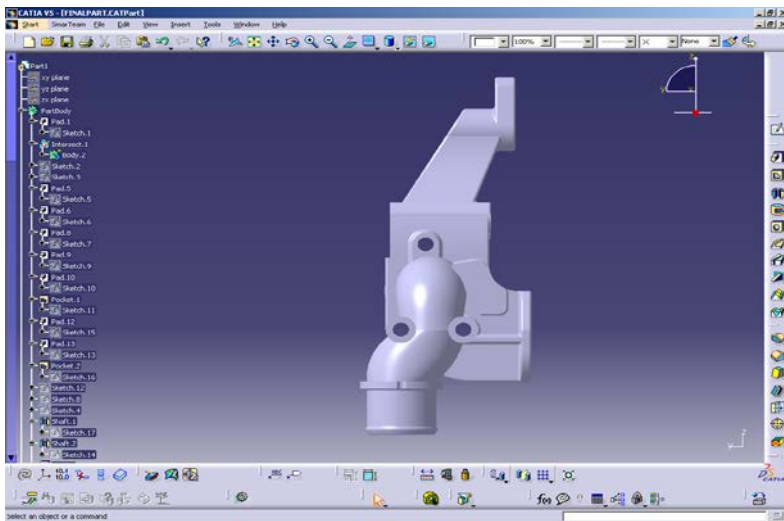
**Fig.1 Isometric View Of Water Pipe Inlet**



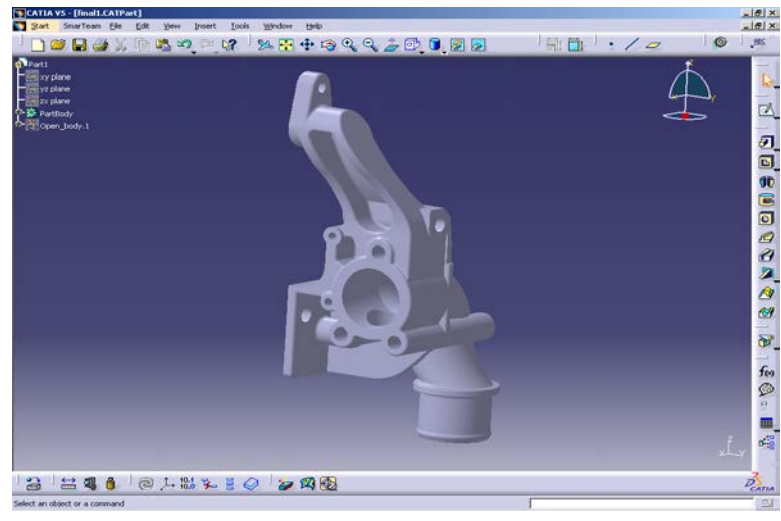
**Fig.2 (a) Side View**



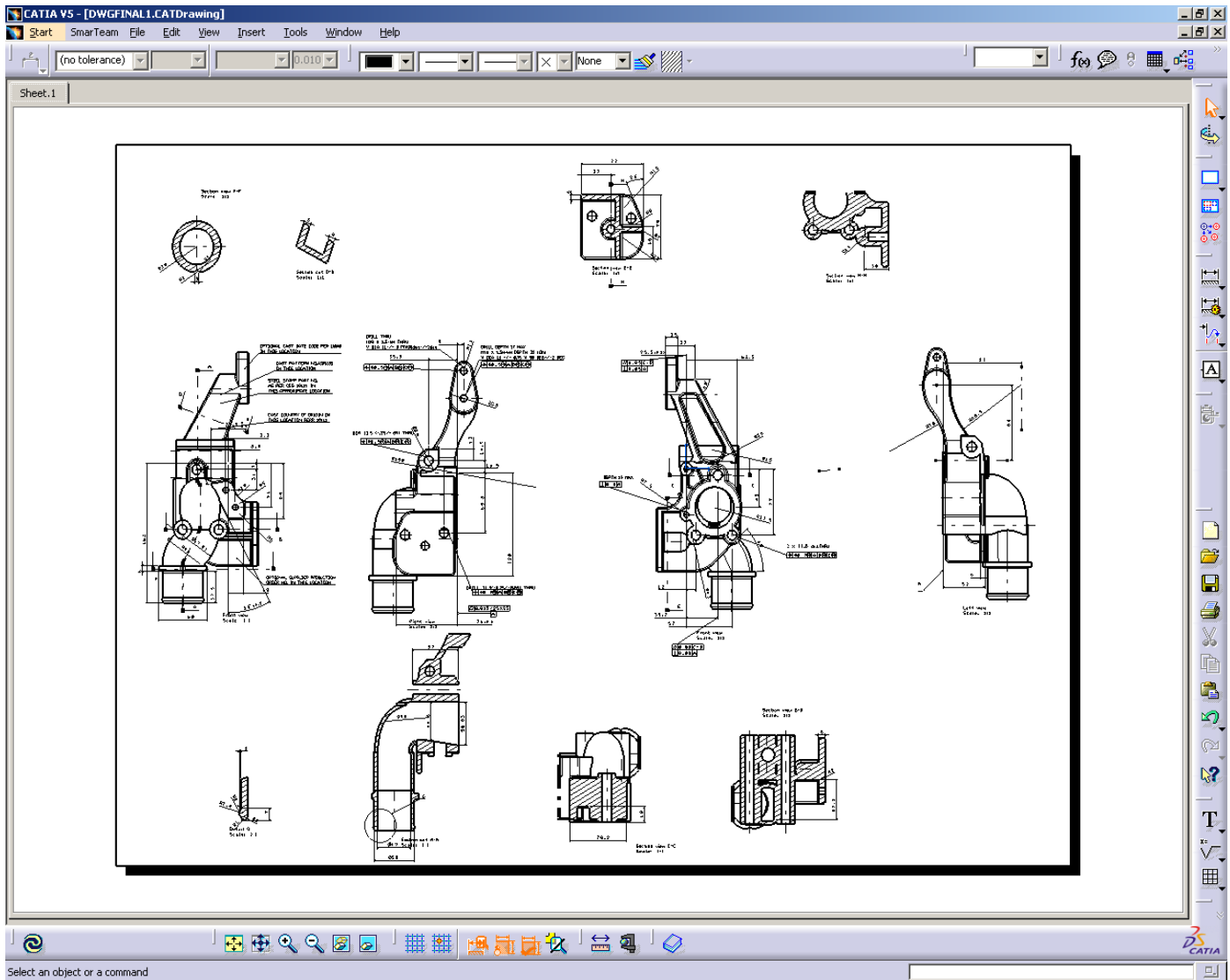
**Fig.2 (b) Front View**



**Fig.2 (c) Back View**



**Fig.2 (d) Isometric View**



**Fig.3 2-D Drawing Of Water Pipe Inlet**

***CONCLUSION:***

The final 3-D Model and 2-D Drawings are done in 40 Man working hours.