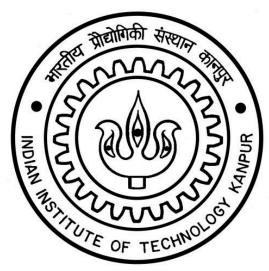
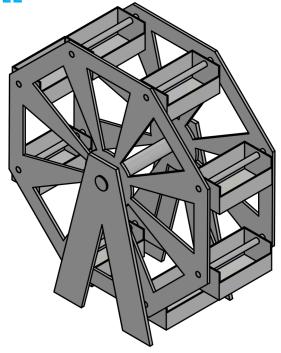
INDIAN INSTITUTE OF TECHNOLOGY, KANPUR



COURSE INSTUCTOR - PROF. KANTESH BALANI LAB IN CHARGE - MR. ANIL KUMAR VERMA COURSE IN CHARGE - MR. I.P SINGH TUTOR - PROF. KALLOL MANDOL

TOPIC- GIANT WHEEL



S. NO.	GROUP MEMBER	SIGNATURE
1	230795-PRITI VERMA	
2	230755-PIYUSH SINGAL	
3	230743-PATHAK PRINCE	
4	230744-PATIL VED VINAY	
5	230781-PRATIK KUMAR	
6	230772-PRANAV KRISHNA	

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INTRODUCTION

The Giant Wheel project aims to design and develop a large-scale Ferris wheel that serves as both an iconic landmark and a major attraction. This project involves the engineering and construction of a giant wheel, which will be a centerpiece in a recreational or urban setting, providing panoramic views and an unforgettable experience for visitors.

Motivation

We came across this idea while seeking some inspiration for our TA211. When we saw the animated image of this idea ,it caught our attention and we were stupefied by just looking at it. At this point , we decided , that we will apply our TA211 theory to make this image into concrete manifestation .

We were so fascinated by its image, that we wondered how would it feel to have this experience in physical. we thus embarked on this small journey of ours to see how it works in the flesh.

Our disposition to share this excitement with others also had some part in our project.

ACKNOWLEDGEMENT

It is with great reverence that we express our gratitude to our tutor and course instructor "Prof. Kantesh Balani, and the course in charge, Mr. Indra Pal Singh" for their precious guidance and constructive suggestions throughout the planning and development of this project. Their dedication, keen interest, and above all, their Overwhelming attitude has gone a long way in helping us achieve what we intended to. We also express our deep appreciation to highly experienced lab staff "Mr. Indra Pal, Mr. Anil Kumar Verma, Mr. Rakesh Kumar, Mr. Gaurav Mishra, Mr. Bharat Raj Singh, Mr. Surya Prakash Sonkar, Mr. Rajdipta Samandder, Mr. Avinash Chandra Saini" for their constant guidance, supervision and support has played a pivotal role in the completion of our project.

Special thanks to our TAs Mr. Praveen Kumar, Ms. Bhavna for giving us their valuable time. Finally we would also like to thank the MSE Laboratory in-charge, Mr. Anil Kumar Verma for giving us this invaluable opportunity to do something constructive using the various available manufacturing processes.

WORK DISTRIBUTION

	Week1	Week 2	Week 3	Week 4	Week 5	Week 6
Piyush	Octagonal	Octagonal	Octagonal	Octagonal	Assembly	Assembly
Singal	plate	plate	plate	plate		
Pathak	Octagonal	Octagonal	Octagonal	Octagonal	Assembly	Assembly
prince	plate	plate	plate	plate		
Pranav	Seat	Seat	Seat	Seat	Assembly	Assembly
krishna						
Patil ved	Stand	Stand	Stand	Stand	Assembly	Assembly
Pratik	Wheel axle	Wheel axle	Seat	Seat	Assembly	Assembly
Priti	Seat axle	Seat axle	Stand	Stand	Assembly	Assembly
verma						

Material List

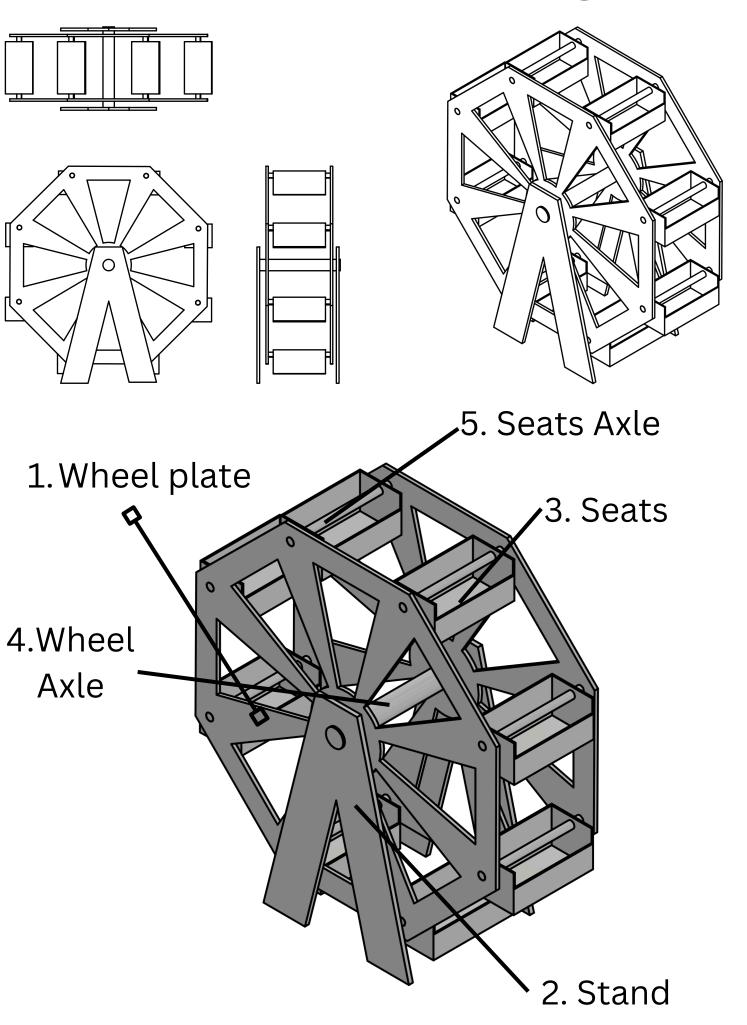
- 1.Mild steel sheet: 1.4ft X 2.8ft X 1mm
- 2. Mild steel sheet: 1.4ft X 2.8ft X 2mm
- 3.Mild steel rod: 3mm dia X 12 feet
- 4.Mild steel round pipe: 10mm dia X 1.5 feet
- 5.GI Steel: 3ft X 4ft X 0.35 mm

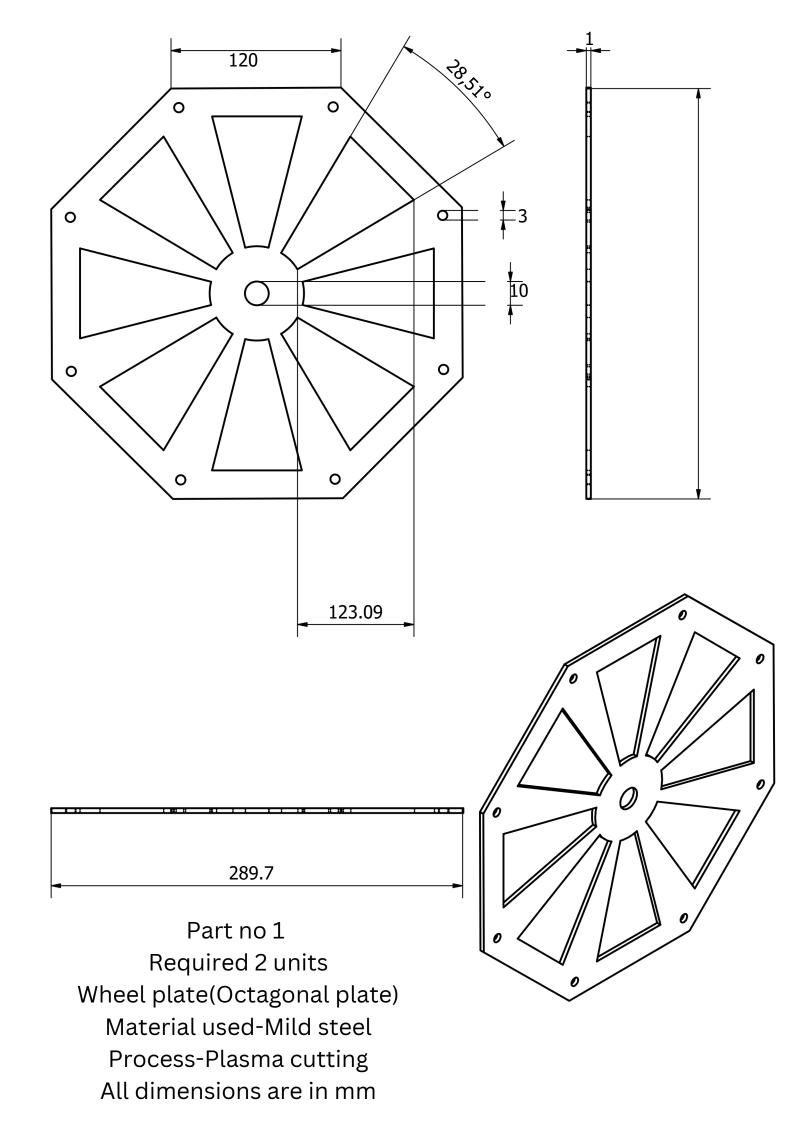
Cost Estimation

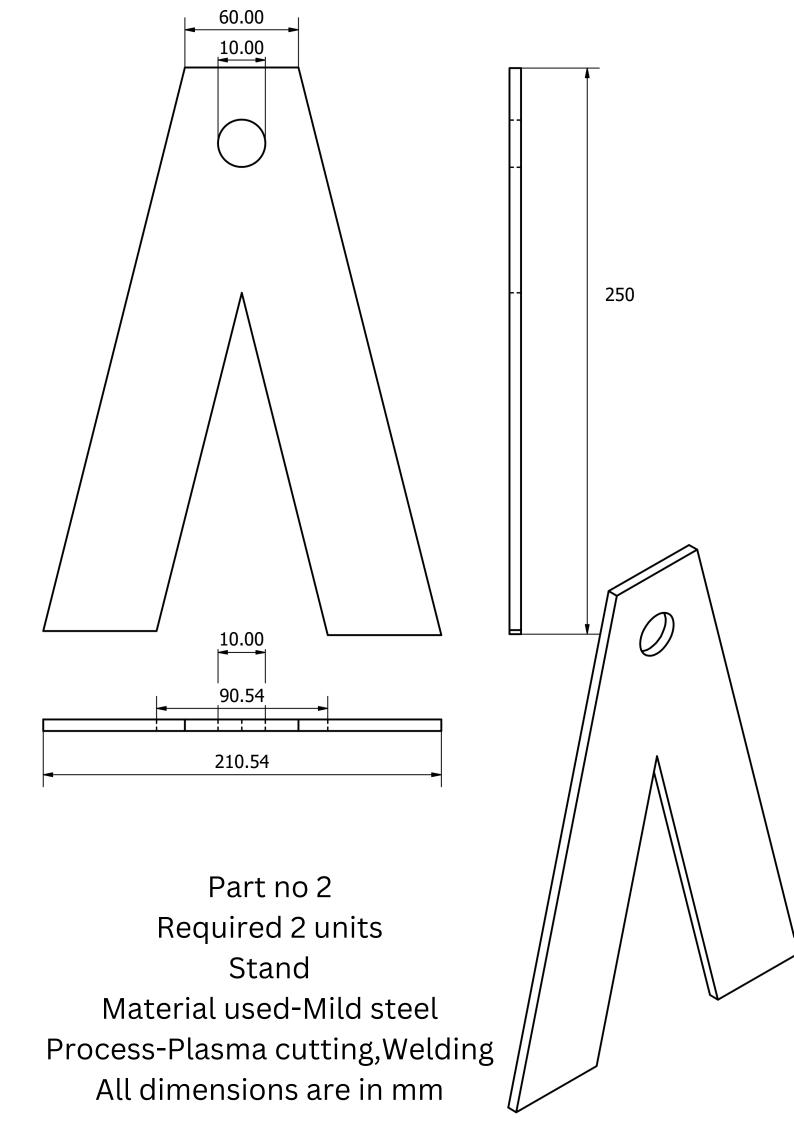
- 1.Mild steel sheet: Rs 535/-
- 2.Mild steel rod: Rs 72/-
- 3.Mild steel pipe: Rs 25/-
- 4.GI Steel: Rs 780/-

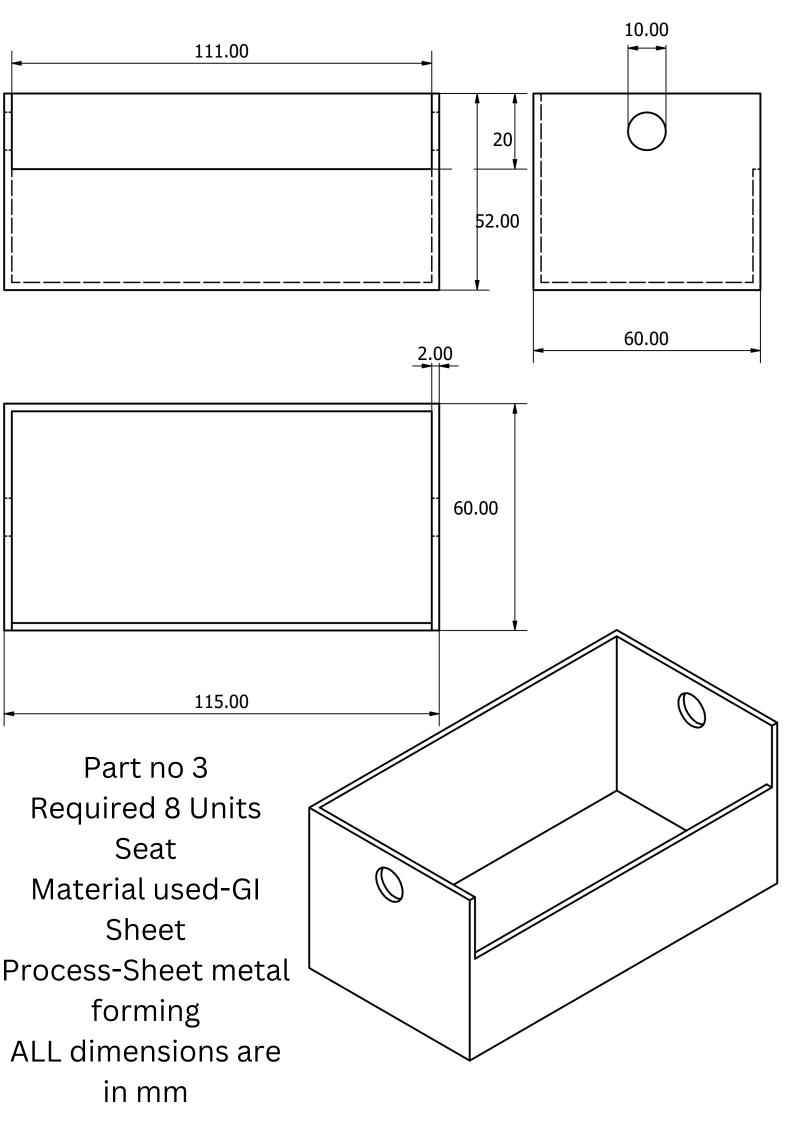
Total Estimated Cost = Rs 1412/-

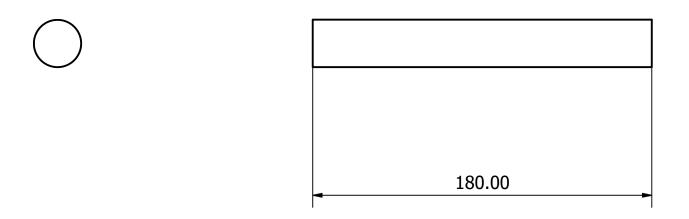
Isometric Drawing

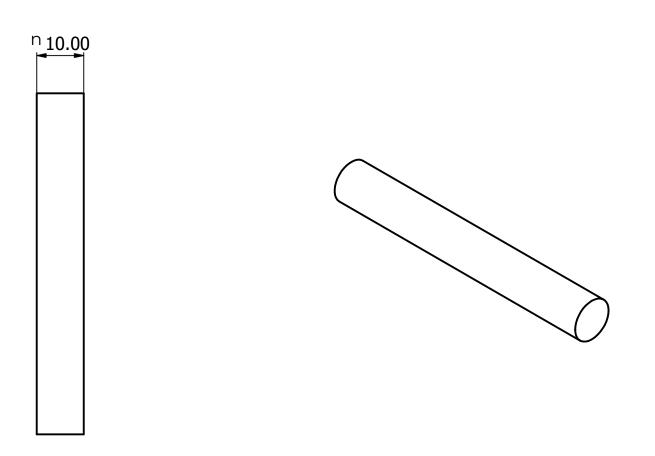




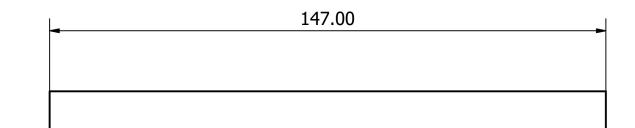


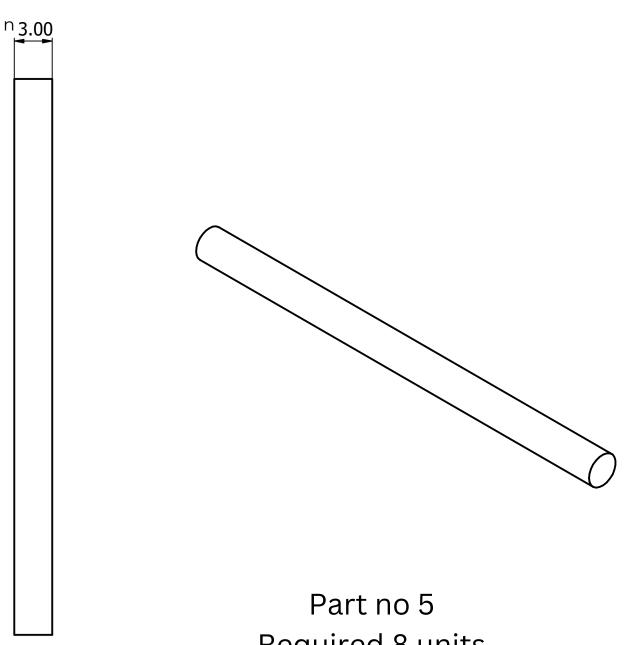






Part no 4
Required 1 unit
Wheel Axle(Centre rod)
Material used-Mild steel
Process-Turning cutting,Welding
ALL dimensions are in mm





Required 8 units
Seat Axle
Material used-Mild steel
Process-Turning, cutting, Welding
ALL dimensions are in mm