

### GOVERNMENT POLYTECHNIC, VADNAGAR MECHANICAL ENGINEERING DEPARTMENT

MINI PROJECT

**KNUCKLE JOINT ASSEMBLY** 

**PREPARED BY:** 

1.PATEL DHRUV MAHESHBHAI (206280319004)

#### **KNUCKLE JOINT ASSEMBLY**

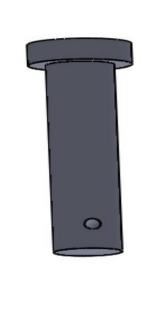


### LIST OF PARTS

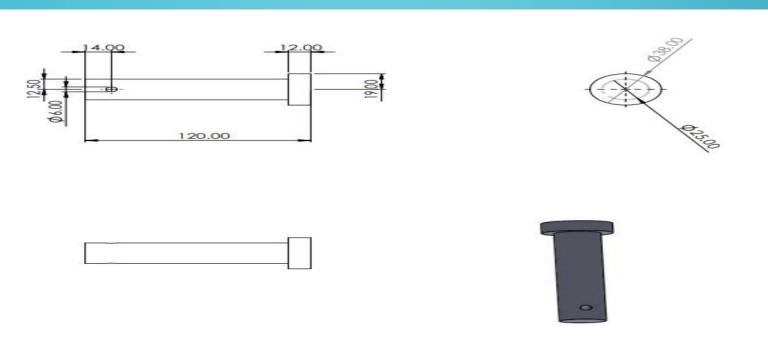
Sr.No.	Name of part		
1	Pin		
2	Taper pin		
3	Coller		
4	Eye end		
5	Fork end		

### 3D MODEL OF KNUCKLE JOINT

PART-1: PIN



## DETAILED MANUFACTURING DRAWING PART-1:PIN



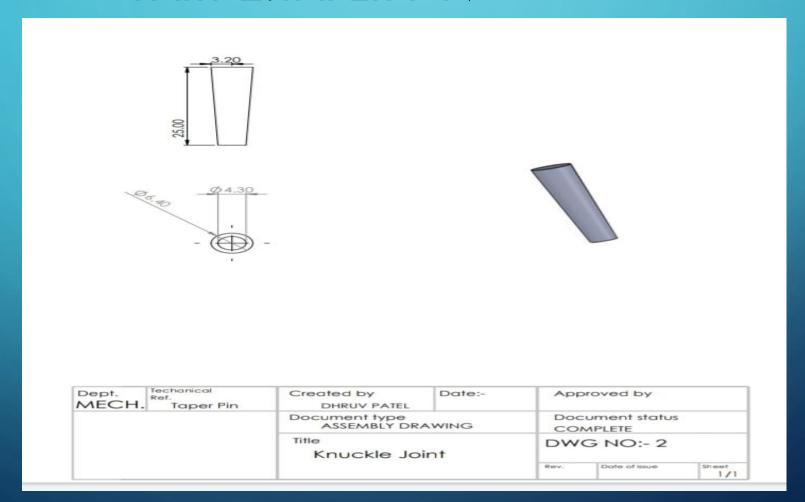
Dept. MECH.	Techanical Ref. Pin	Created by DHRUV PATEL	Date:-	App	proved by	
		Document type ASSEMBLY DRAWING  Title  Knuckle Joint		Document status COMPLETE DWG NO:- 1		
				Rev.	Date of issue	Sheet 1/1

### 3D MODEL OF KNUCKLE JOINTD

PART-2: Taper pin



### DETAILED MANUFACTURING DRAWING PART-2:TAPER PIN

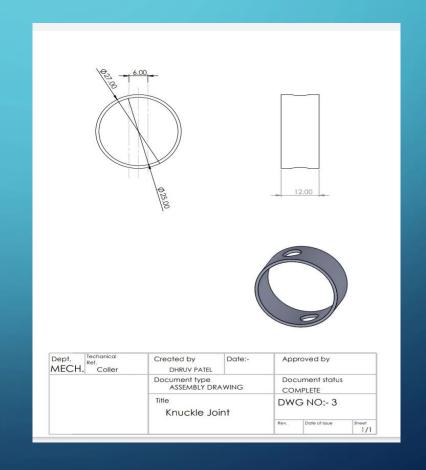


### 3D MODEL OF KNUCKLE JOINT

PART-3:COLLER

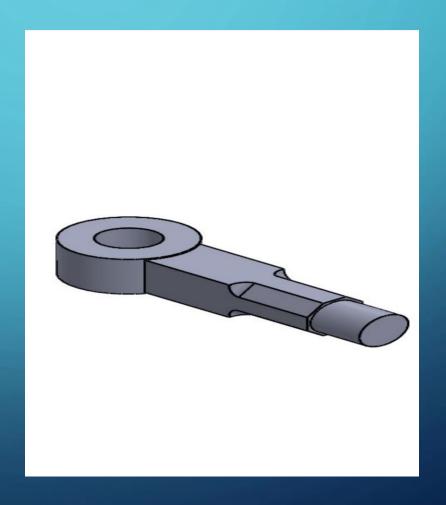


### DETAILED MANUFACTURING DRAWING PART-3:COLLER

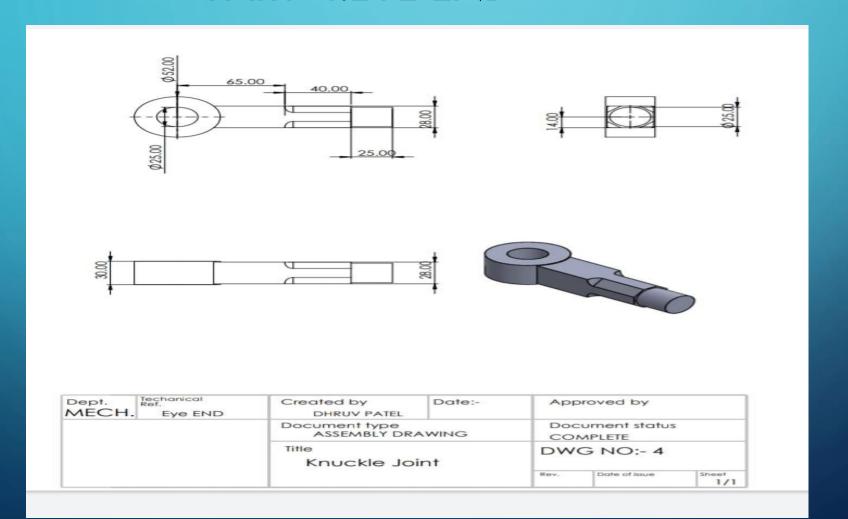


### 3D MODEL OF KNUCKLE JOINTD

PART-4:EYE END



### DETAILED MANUFACTURING DRAWING PART-4:EYE END

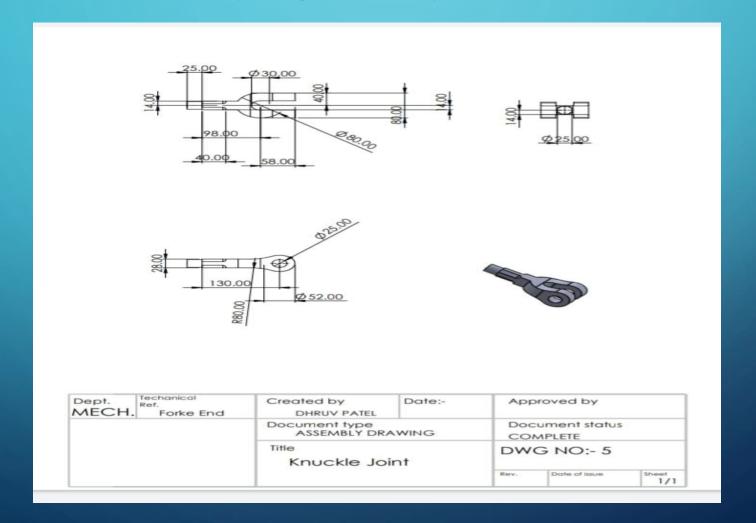


### 3D MODEL OF KNUCKLE JOINTD

PART-5:FORK END



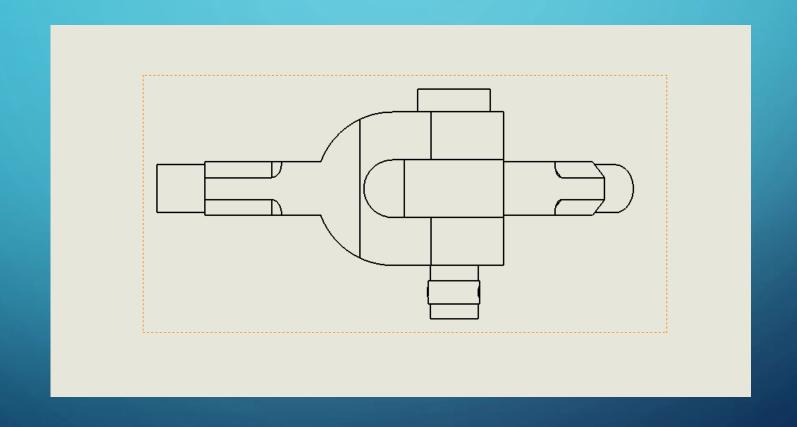
### DETAILED MANUFACTURING DRAWING PART-5:FORK END



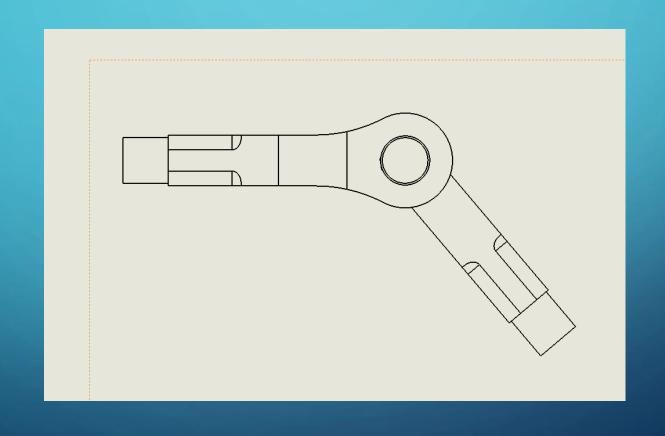
### BILL OF MATERIAL

Part No.	Description	Material	Quantity
1	Pin	Structural Steel	1
2	Taper pin	Structural Steel	1
3	Coller	Structural Steel	1
4	Eye end	Structural Steel	1
5	Fork end	Structural Steel	1

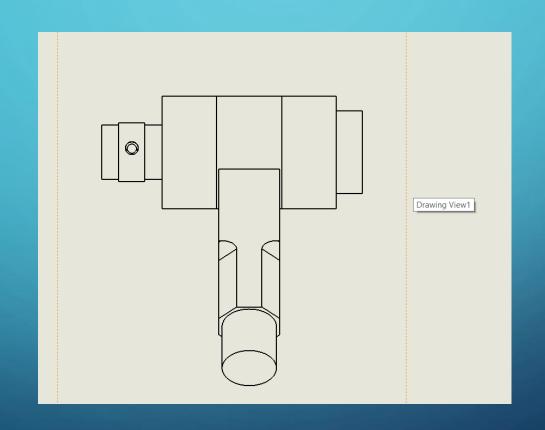
### FINAL ASSEMBLY DRAWING TOP VIEW



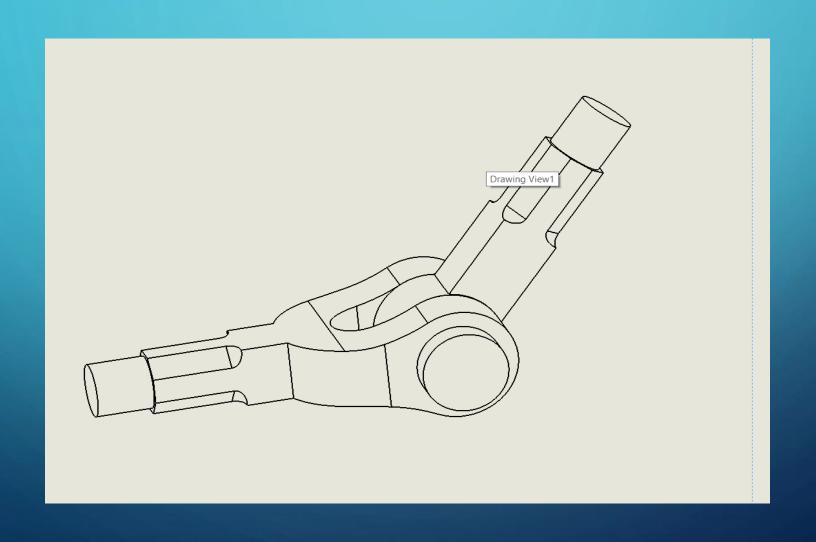
### FINAL ASSEMBLY DRAWING FRONT VIEW



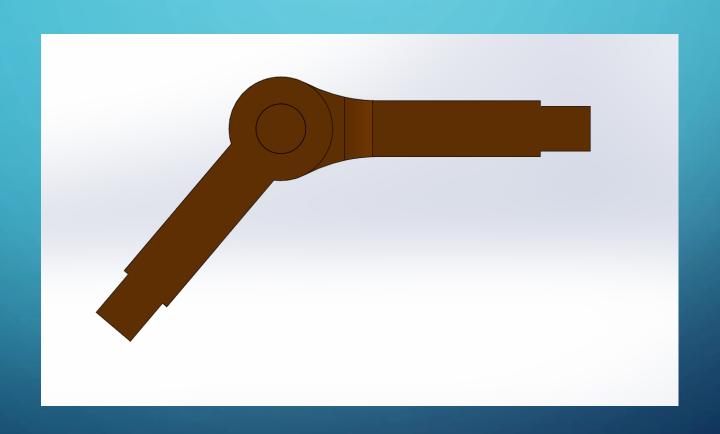
#### FINAL ASSEMBLY DRAWING RIGHTSIDE VIEW



### FINAL ASSEMBLY DRAWING ISOMETRIC VIEW



### FINAL ASSEMBLY DRAWING SECTIONAL VIEW



### FINAL ASSEMBLY DRAWING SECTIONAL VIEW



### **KNUCKLE JOINT ASSEMBLY**



# THANK YOU