

OCTOBER'16

REVIVING PASSIONS

GALLERY

PAGE NO. 6 & 7

THE TECH-CORNER

WHAT ARE WE UPTO
WITH THE TEAM

PROGRESS SO FAR

HOW MUCH OF OUR CAR HAS
BEEN MANUFACTURED

ABOUT THE SPONSORS

SUPPORT EXTENDED BY OUR
SPONSORS TOWARDS THE TEAM



"OUR HEARTS DON'T BEAT.THEY REV"



THE TECH-CORNER



CAD MODEL OF OUR CAR



DYNAMOMETER

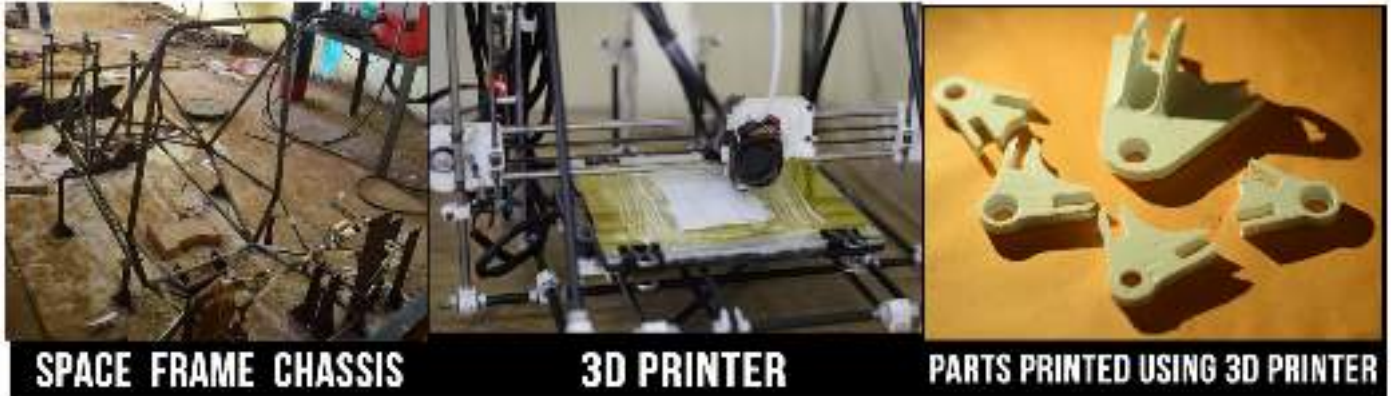


SPROCKET

As we are approaching the end of the year, we are working harder than ever to speed up the manufacturing process of TSI17. In the month of July, we had begun the manufacturing phase after finalizing the CAD model. The following months involved a necessary combination of materials procurement and manufacturing processes. During this phase, we successfully worked on the chassis, the molds of the bodywork and nose cone, the stiffness testing of the chassis and the engine testing using a self-built dynamometer.

The members were kept busy with the designing and manufacturing of differential fixtures and turnbuckles. The sprockets procured were installed in the car. The manufacturing of the half shaft was completed and the heat treatment required for the half shafts to obtain optimum mechanical properties will be done in days to come.

PROGRESS SO FAR



SPACE FRAME CHASSIS

3D PRINTER

PARTS PRINTED USING 3D PRINTER

The manufacturing of the space-frame chassis of TSI17 is complete. 3D printed prototypes of outboard inserts, bell crank and clamps were made of durable, strong and heat resistant material, Acrylonitrile butadiene styrene (ABS) polymer, and were used to pinpoint the spatial location of hardpoints. It has helped in significantly reducing the number of fixtures thus leading to lower margins of errors. After the procurement of KTM 390 Duke Engine, the engine sub-team successfully mounted the engine with the use of proper fixture as per the CAD model. Cooling systems has been installed and fuel tank welded.

The mold for the nose cone and bodywork has been completed and a hand layup of Carbon Fibre Reinforced Polymer (CFRP) will be done soon. The steering wheel has been designed to suit both normal and tight grip hand profile of the driver. It will have a 3D printed core of Acrylonitrile butadiene styrene (ABS) polymer and will be fabricated with Carbon Fiber Reinforced Polymer (CFRP) to provide high strength and lower-weight at the same time.

ABOUT THE SPONSORS



ATUL LIMITED is an integrated chemical company serving people across the globe with a dream to create large scale employment, wealth in rural India and make the country self sufficient in its requirement of chemicals. We are extremely thankful to them for their in kind sponsorship of industry grade Resins and Hardeners which will help us in making of the nose cone, custom seats for the driver and the body panels.

HINDALCO INDUSTRIES LIMITED, metals flagship Company of the Aditya Birla Group, is the world's largest aluminium rolling company and one of the Asia's biggest producer of primary aluminium. We are grateful for the humungous in kind sponsorship of aerospace grade T6 7075 series aluminum provided by Hindalco which is nothing but a boon to us.

KUNDAN LAL AND SONS is a leading manufacturer and supplier of sprockets, gears and spline shafts. We are grateful to them for being our in kind sponsor of our sprocket this Formula season.

We are gratified by the generous contribution made to us by Mr. Akshat Garg owner of **VISHNU GREENS** which is a rapidly rising farm and banquet company.

MOHIT PROFILE is one of India's leading Stainless Steel Profiles manufacturing & Plate Cutting service providing company. We extend our heartfelt gratitude to them for sponsoring their services to our team.



GALLERY



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