

NOVEMBER 2016

REVVING PASSION

PROGRESS SO FAR

HOW MUCH OF OUR CAR
HAS BEEN MANUFACTURED

TECH DEN

WHAT ARE WE
UPTO WITH OUR CAR

GEARING UP FOR FORMULA BHARAT

VARIOUS TYPES OF STATIC EVENTS &
TEAM RECRUITMENTS

GALLERY

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It is November already and winter has set in but excitement is running high in our workshop here in Mesra. Our folks are keeping extremely busy trying to complete every deadline with minimum flaws and maximum perfection. We have successfully accomplished the first deadline of the photo submission of our car on 21st October. Now, we have our eyes set on the 18th November deadline, the very crucial video submission of the running car.

Starting in summer with a mere CAD model, we have come a long way in putting our beast, our car TS17, on four wheels and now we wait to see it set the tracks on fire.



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e take great pride in announcing that the manufacturing phase of our car has finally been completed and the initial testing has yielded results which are up to the mark. The engine, KTM Duke 390cc engine, is working just fine and proving its worth in every run. Now, TSI17 is all set for its rigorous testing phase in which we will be conducting various dynamic tests on our car.

But, the path leading to completion of TSI17 has not exactly been a bed of roses. Firstly, as the car was assembled, it came to light that the ground clearance was not sufficient. So, a spring of greater stiffness was used and the length of the push rod was increased for an appropriate clearance level.

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Secondly, just near the beginning of our testing phase, the hub of our car had cracked. The cause of this was traced to the lack of the understanding of the properties of the material which turned brittle when it hardened. Trying to drive in a stud bolt, whose diameter was bigger than the diameter of the hole, led to uneven force distribution which caused the hub to crack. This problem was rectified by increasing the tolerance of the hole. Thirdly, the pneumatic component, used for shifting gear, caused a glitch. A wrong valve was used which led to problems in the pneumatic system. However, the hurdle was overcome by procuring the correct valve meeting the required specification. We faced a quite a few difficulties that would have upset our entire timeline had it not been for hard working members and supportive sponsors and well wishers.



Apart from the Dynamic events in Formula Bharat 2017, the Static events also have a critical weightage.

- * **COST PRESENTATION**- In this, we have to present an intensive cost study of all the parts present in the car.
- * **DESIGN PRESENTATION**- This involves validating the understanding and efficiency of the design of the car.
- * **BUSINESS PLAN PRESENTATION**- The objective of the presentation event is to evaluate the team's ability to develop and deliver a comprehensive business case that will convince the executives of a corporation to invest in their project and support their cause.

Currently, our members are working with full vigour on all three and conducting regular mock presentation sessions.

Amidst all the hustle bustle, the team welcomed a bunch of fresh recruits to the team. These members were selected after rigorous written and interview rounds.

On the sponsorship front, we are deeply thankful to Jiwago Precision Dies Private Limited, our Gold sponsor, for continuing their association with our team. They are a top notch manufacturer, exporter and supplier of a wide range of Industrial Components. We are extremely gratified by the valuable services provided by them to our team.



INTRODUCING THE BEAST

TSI 17







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ADITYA MISHRA
CAPTAIN
+91-7632-909-214

ATHAR ANWAR
VICE CAPTAIN
+91-9608-918-019

SHIVAM RAI
CHIEF ENGINEER
+91-8002-224-716