

## HELP POURS IN FOR STUDENTS WHO BUILT RACE CAR AT BITS ... CONTINUED FROM PAGE 1 Jay adds, "The vehicle weighs 280 kg with the driver; it has a very low centre of gravity, which makes it very stable while cornering. Also, the wheel assembly is designed and tuned to perfection. The safety of the driver was given utmost im-"Being the first Formula Student team in Goa, we have been struggling with a lot of things. Firstly, we had to set up a huge knowledge base before starting. So the designing part was difficult as we hardly had any references or benchmarks. We had trouble manufacturing it, because we had to order some costly materials from outside Goa," says Kedar Khapre, the captain of the team, also a third-year student of chemical engineering. Grease Monkeys were sponsored and helped by engineering companies. "The car, if you were to make it from new components, would cost about ₹5 lakh. Our institute helped us a lot with the finances. Engineering and metal companies have helped us with manufacturing components, while another engineering company provided us with our tool inventory. Our faculty coordinator, Ranjit S Patil, and the BITS workshop assisted us without which making this car would have been impossible," says Aman Pandae, vice-captain, a student from third year, electrical engineering. The Mandrill; (below right) the team that built it II Name: Mandrill II Engine of the KTM Duke 390, a 373 cc mill is installed in the vehicle II It gives 43 HP @ 9500 rpm M A torque of 35 Nm @ 7250 rpm The car has a chassis length of 2.4m Wheelbase of 1.6m and an average track width of 1.1m If has a custom-designed wheel assembly which has been manufactured using Aluminium 7076