

# H-SQUARE(Hovercraft + Helicopter)

Team name : The Transformers

In making of hovercraft, we want to use two motors, one for producing lift and other for propelling. We make it into helicopter by turning lift producing wing to horizontal which would be vertical for hovercraft. The shape of base, we are planning circular.

We dont know exactly what should be the rpm of main motor(producing lift in flight) as it should depend upon weight..

the material which we have thought for the base maybe either the same choroplast as we used for rc plane or we may use balsa wood too as it would be stronger..

we need ur opinion for that..

for the skirting of hovercraft, we are planning to use either rubber, or terylene coated nylon...but our preference is for nylon because its water proof, light and smooth.

And for wings(the one which would be able to convert for helicopter--lift producing) also we are planning to make it ourselves with balsawood...if u suggest than we might buy it too..

we would direct the air through pipes in hovercraft for lift while on ground..

The main wing would be converted from horizontal to vertical and vice-versa with the help of servos and remote control..

as per the cost, we would use

- Balsa wood
- choroplast
- 2 motors
- a pipe
- propellers
- rc controller---we hope insti will provide that
- mechanism similar to rc plane including esc and servos for changing direction
- terylene nylon
- styroform(if required)
- battery (according to motor)--ur opinion required

we are not making a very big model, so i think 7-8 thousand rs. should be budget, mainly due to motor and battery( we have rc plane motor though)..

please give ur suggestions and help to ensure that our proposal is accepted..

Team Transformers :D