**Mission Requirements:**

1. Weight less than 1500kg
2. Four passenger (75kg each), each can have maximum 10 kg bag / luggage
3. Minimum steady-straight-level-flight speed should be in between 30 to 40 m/s.
4. Design cruise speed should be in between 50 to 70 m/s.
5. Sizing of the aircraft must be iterative process.
6. Feasible to fly from mean sea level – to 10, 000 feet.
7. Rate of climb at mean sea level: 4 to 8 m/s
8. Able to fly at minimum drag condition as well as minimum power condition.
9. Low speed Aircraft.
10. Minimum 4hr endurance.
11. Minimum 1000 km range (round trip).
12. Neutral position of control surfaces at design cruise speed.
13. Landing distance: 400 to 600 metres.
14. Take-off distance: 300 to 500 metres.
15. Service sealing: 7 km.