**ORAL PRESENTATION**

Accounting to the Burj Khalifa,there are 6 great beginnings in the fields of technology and architecture.

1. **The Elevator Technology**

The elevator technology achieves the ultimate.There are 53 lifts in the building, and the fastest speed of lifts can reach 35kilometers per hour,that is the fastest speed is 10meters per second.The biggest lift can take 46 passengers to the top of the tower in 2 minutes.

1. **The Building Materials**

Although widely used in high-rise building is a steel frame structure,the Burj Khalifa uses a reinforced concrete structure,which means that the Bruj Khalifa will hav a better rigidity and flexibility, and can effectively prevent deformation of the wall.

**3. The Radiating**

As one high building standing near the equator, radiating system is very important.In addition to the advanced air-conditioning system, the choice of the outer surface of the building is also very particular.There is a layer of high-tech glass cutain wall on the surface of the Burj Khalifa.On the surface of the glass,there is a layer of metal which used to block the ultraviolet rays,and interior wall is a thin layer of silver,used to block infrared rays.

**4. The Construction Speed**

As a result of pre-techology, the construction speed can reach that every floor was built in the rate of three days.Just like building blocks, all the structural parts are prepared to be easy assembled.

**5. The Wind Resisting Structure**

The basic concept of building the Burj Khalifa is around how to support the core.The staff is not a steal structure building, but made of “super-concrete”.

Overlooking this top-down design, its shape looks like a propellor, 3 the arm, or wing, from the core out .This simple geometry means when the wind belows, one of the wing will always play a supporting role in the tower.

**6. The Foundation**

Because of the shallow layer of the underground rock, there are 200 foundation piles, which are installed on the surface layer of rock below 50meters under the land surface.With these piles, the foundation can support the weight of 50million tons of the building.