**FIDE-AKWUOBI ANTHONY CHIZALU**

**17/ENG06/037**

**MECHANICAL ENGINEERING**

**ENG 384**

**JUNE CLASS TEST 2**

**B.E.M.E FOR HYBRID ELECTRIC CARS MANUFACTURING**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ITEM** | **DESCRIPTION** | **UNIT** | **QUANTITY** | **RATE** | **AMOUNT** |
| **1.0** | **Components of the hybrid and electric engine** |  |  |  |  |
| **1.0.1** | 284 hp Induction Motors |  | 20 | 250 000 | 5 000 000 |
| **1.0.2** | 6L IC Engine block |  | 20 | 500 000 | 10 000 000 |
| **1.0.3** | Torque Converters |  | 20 | 330 000 | *6 600 000* |
| **1.0.4** | Gear Transmission boxes |  | 20 | 420 000 | *8 400 000* |
| **1.0.5** | Variable Resistors |  | 20 | 90 000 | *1 800 000* |
| **1.0.6** | Crankshafts, Pistons, Connecting Rods |  | 20 | 370 000 | *7 400 000* |
| **2.0** | **Vehicle Chassis** |  |  |  |  |
| **2.0.1** | Metal Framework |  | 20 | 540 000 | *10 800 000* |
| **2.0.2** | Fiber Chassis |  | 20 | 240 000 | *4 800 000* |
| **3.0** | **Drive System** |  |  |  |  |
| **3.0.1** | Wheels |  | 20 | 260 000 | *5 200 000* |
| **3.0.2** | Brakes system |  | 20 | 740 000 | *14 800 000* |
| **3.0.3** | Suspension System |  | 20 | 580 000 | *11 600 000* |
| **4.0** | **Electrical System** |  | **20** | **789 000** | ***15 780 000*** |
|  |  |  |  |  | ***Total=102 180 000*** |