**Table 1: All Motors Rotation State with Time and Rotate Duration for One Button Press: (Theoretically)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Time | Motor1 | Motor2 | Motor3 | Motor4 |
| 0s-3s | Clockwise | Anti-clockwise | Clockwise | Anti-clockwise |
| 3s-6s | Anti-clockwise | Clockwise | Anti-clockwise | Clockwise |
| 6s-9s | Clockwise | Anti-clockwise | Clockwise | Anti-clockwise |
| 9s-12s | Anti-clockwise | Clockwise | Anti-clockwise | Clockwise |

**Table 2: Wiper Moving Position with Time: (Theoretically)**

|  |  |
| --- | --- |
| Time | Wiper Cleaning position |
| 0s-3s | Top to Bottom |
| 3s-6s | Bottom to Top |
| 6s-9s | Top to Bottom |
| 9s-12s | Bottom to Top |

**Table 3: Time Required for Complete Wiping: (From Simulation)**

|  |  |
| --- | --- |
| Observation | Time(sec) |
| 1 | 13.48s |
| 2 | 12.78s |
| 3 | 14.91s |
| 4 | 12.22s |
| 5 | 16.24s |

**Table 4: Cost Analysis:**

|  |  |
| --- | --- |
| Components Name | Price |
| 1 Arduino Mega | BDT 900 |
| 2 piece Motor Driver | BDT (490x2)=980 |
| 10k Ohm resistor | BDT 10 |
| 50v 10uF Capacitor | BDT 5 |
| OLED Display | BDT 280 |
| A Switch(Push) | BDT 10 |
| 9v DC Power Supply | BDT 120 |
| Jumper Wire | BDT 90 |
| Breadboard | BDT 99 |
| 4 piece 6v DC motor | BDT (130x4)=520 |
| Wiper | BDT 120 |
| **Total Cost:** | **BDT 3134** |