School of Engineering & Applied Science

Ahmedabad University

Electronics System Design

ICT Monsoon 2017

Semester-1

**Project Components Requisition Form**

1. **Project Title :** *Solar Tracking Device*
2. **Project Group No :** *G11*
3. **Student Details :**

|  |  |
| --- | --- |
| **Name of Student** | **Enrolment No** |
| *Aditya Shah* | *1741007* |
| *Aman Dave* | *1741003* |
| *Param Shah* | *1741019* |
| *Shivansh Nautiyal* | *1741017* |

1. **Requirements :**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sr.**  **No** | **Name of Component** | **Detailed Specifications** | **Web-link for Price and Specification**  **(If you have)** | **No of Quantity** | **Cost per Quantity (Approx.)** | **Total** |
| *1.* | *Servo Motor* | *SG 90* | *https://www.amazon.in/Robodo-Electronics-Tower-Micro-Servo/dp/B00MTFFAE0/ref=sr\_1\_2?ie=UTF8&qid=1507559959&sr=8-2&keywords=servo+motor+sg90* | *2* | *184* | *368* |
| *2.* | *Arduino Board* | *Arduino UNO* | *https://www.amazon.in/ePro-Labs-ADU-0004-Arduino-UNO/dp/B00H1HR576/ref=sr\_1\_4?s=industrial&ie=UTF8&qid=1507560021&sr=1-4&keywords=arduino+uno* | *1* | *459* | *459* |
| *3.* | *Solar Panel* | *SKU#735\_4* | *http://www.ebay.in/itm/6V-Mini-Solar-Epoxy-Panel-Power-Battery-For-LED-DIY-Charger-SKU-735-4-/352118822745?hash=item51fbead759:g:kA8AAOSwi7RZIsBb* | *1* | *176* | *176* |
| *4.* | *LDR* | *NPN* | *https://www.amazon.in/Robo-India-LDR-Ldr-Dependent/dp/B00WO3VCD0/ref=sr\_1\_3?s=industrial&ie=UTF8&qid=1507560270&sr=1-3&keywords=ldr* | *4* | *18* | *72* |
|  | *Resistors* | *1K Ohm* | *https://www.amazon.in/ELECTROBOT-100-PCS-1K-OHM/dp/B072HC6ZYW/ref=sr\_1\_34?s=industrial&ie=UTF8&qid=1507560391&sr=1-34&keywords=resistors* | *10* | *1* | *10* |
| *6.* | *9V Battery* | *HW001* | *https://www.amazon.in/Hi-Watt-9v-BATTERY-Set-10/dp/B015WTFDQE/ref=sr\_1\_1?s=industrial&ie=UTF8&qid=1507560489&sr=1-1&keywords=9v+batteries* | *1* | *30* | *30* |
| *7.* | *Voltage Regulator* | *LM317* | *https://www.amazon.in/Adraxx-1-2-37V-Positive-Voltage-Regulator/dp/B06XHN253V/ref=sr\_1\_1?ie=UTF8&qid=1507635175&sr=8-1&keywords=lm317+regulator* | *1* | *70* | *70* |
| *8.* | *Diode* | *1N4007* | *https://www.amazon.in/Robo-India-Diode-1N4007-Pcs/dp/B00WO1B83G/ref=sr\_1\_3?ie=UTF8&qid=1507635221&sr=8-3&keywords=Diode+%E2%80%93+1n4007* | *1* | *10* | *10* |
| *9.* | *Capacitor* | *0.1uF* | [*https://www.amazon.in/Multilayer-Ceramic-Capacitor104-50V104-2-54mm/dp/B01EE3MEQG/ref=sr\_1\_1?ie=UTF8&qid=1507635240&sr=8-1&keywords=Capacitor+–+0.1uF*](https://www.amazon.in/Multilayer-Ceramic-Capacitor104-50V104-2-54mm/dp/B01EE3MEQG/ref=sr_1_1?ie=UTF8&qid=1507635240&sr=8-1&keywords=Capacitor+–+0.1uF) | *1* | *10* | *10* |
| *10.* | *Schottkey*  *Diode* | *1N5819* | [*https://www.amazon.in/Generic-20pcs-1N5819-DO-41-Schottky/dp/B01AUTHKOO/ref=sr\_1\_1?ie=UTF8&qid=1507635276&sr=8-1&keywords=Schottky+diode*](https://www.amazon.in/Generic-20pcs-1N5819-DO-41-Schottky/dp/B01AUTHKOO/ref=sr_1_1?ie=UTF8&qid=1507635276&sr=8-1&keywords=Schottky+diode) | *1* | *30* | *30* |
| *11.* | *Potentiometer* | *2K Ohm* | [*https://www.amazon.in/Potentiometer-2K-MIL-R-94-STYLE-RV4/dp/B06XFXZK8R/ref=sr\_1\_1?ie=UTF8&qid=1507636036&sr=8-1&keywords=2k+potentiometer*](https://www.amazon.in/Potentiometer-2K-MIL-R-94-STYLE-RV4/dp/B06XFXZK8R/ref=sr_1_1?ie=UTF8&qid=1507636036&sr=8-1&keywords=2k+potentiometer) | *1* | *510* | *510* |
| *12.* | *DC Buck Converter* | *LM2596* | [*https://www.amazon.in/Adraxx-LM2596-Converter-1-5-35V-Adjustable/dp/B01N23Z1JO/ref=sr\_1\_fkmr2\_4?ie=UTF8&qid=1507695505&sr=8-4-fkmr2&keywords=buck+converter+ic*](https://www.amazon.in/Adraxx-LM2596-Converter-1-5-35V-Adjustable/dp/B01N23Z1JO/ref=sr_1_fkmr2_4?ie=UTF8&qid=1507695505&sr=8-4-fkmr2&keywords=buck+converter+ic) | *1* | *175* | *175* |
| **Total Cost** | | | | | | **1920** |