



# DHA SUFFA UNIVERSITY

DG -78, Off Khayaban-e-Tufail, Phase -VII (Extension), DHA, Karachi – 75500

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In reply, please quote,  
DHA/DSU/48/RFQ/0001/2013-14

## RFQ

Description : Procurement of Electronic Components  
Date of Issue : July 11, 2013  
Last Date for Submission of Quotation : July 26, 2013 11:00 pm  
Time of Opening : July 26, 2013 at 11:15 pm  
Contact Person & Telephone : Procurement Officer, DSU  
021-35244872

| S. No | Description | Value          | Qty Req |
|-------|-------------|----------------|---------|
| 1.    | Resistors   | 1 M $\Omega$   | 200     |
| 2.    | Resistors   | 100 M $\Omega$ | 200     |
| 3.    | Resistors   | 1 k $\Omega$   | 200     |
| 4.    | Resistors   | 5 k $\Omega$   | 200     |
| 5.    | Resistors   | 10 k $\Omega$  | 200     |
| 6.    | Resistors   | 22 k $\Omega$  | 200     |
| 7.    | Resistors   | 30 k $\Omega$  | 200     |
| 8.    | Resistors   | 47 k $\Omega$  | 200     |
| 9.    | Resistors   | 100 k $\Omega$ | 200     |
| 10.   | Resistors   | 220 k $\Omega$ | 200     |
| 11.   | Resistors   | 560 k $\Omega$ | 200     |
| 12.   | Resistors   | 10 $\Omega$    | 200     |
| 13.   | Resistors   | 22 $\Omega$    | 200     |
| 14.   | Resistors   | 100 $\Omega$   | 200     |
| 15.   | Resistors   | 220 $\Omega$   | 200     |
| 16.   | Resistors   | 330 $\Omega$   | 200     |
| 17.   | Resistors   | 470 $\Omega$   | 200     |
| 18.   | Resistors   | 560 $\Omega$   | 200     |
| 19.   | Capacitors  | 1 uF           | 200     |
| 20.   | Capacitors  | 470uF          | 200     |
| 21.   | Capacitors  | 100 uF         | 200     |
| 22.   | Capacitors  | 1000 uF        | 200     |
| 23.   | Capacitors  | 10 uF          | 200     |
| 24.   | Capacitors  | 0.1 uF         | 200     |
| 25.   | Capacitors  | 22 uF          | 200     |

|     |                                       |           |        |
|-----|---------------------------------------|-----------|--------|
| 26. | Capacitors                            | 2.2 uF    | 200    |
| 27. | Capacitors                            | 330 uF    | 200    |
| 28. | Capacitors                            | 30 uF     | 200    |
| 29. | Capacitors                            | 100nF     | 200    |
| 30. | Capacitors                            | 10nF      | 200    |
| 31. | Capacitors                            | 4.7nF     | 200    |
| 32. | Capacitors                            | 0.1pF     | 200    |
| 33. | Capacitors                            | 1pF       | 200    |
| 34. | Capacitors                            | 10pF      | 200    |
| 35. | Capacitors                            | 100pF     | 200    |
| 36. | Inductors                             | 1uH       | 200    |
| 37. | Inductors                             | 10 uH     | 200    |
| 38. | Inductors                             | 100 uH    | 200    |
| 39. | Inductors                             | 200 uH    | 200    |
| 40. | Inductors                             | 500 uH    | 200    |
| 41. | Inductors                             | 750 uH    | 200    |
| 42. | Diodes                                | IN4001 1A | 200    |
| 43. | Diodes                                | IN4007 1A | 200    |
| 44. | Diodes                                | IN5403 3A | 200    |
| 45. | Diodes                                | IN5408 3A | 200    |
| 46. | Zener Diodes                          | 1.5V (1A) | 200    |
| 47. | Zener Diodes                          | 6V (1A)   | 200    |
| 48. | Zener Diodes                          | 3.5V (1A) | 200    |
| 49. | Zener Diodes                          | 9V (1A)   | 200    |
| 50. | Bipolar Junction Transistors BJT      | 2N3904    | 200    |
| 51. | Bipolar Junction Transistors BJT      | 2N3906    | 200    |
| 52. | Bipolar Junction Transistors BJT      | 2N2222    | 200    |
| 53. | Field Effect Transistors (FETs)       | 2N4220    | 200    |
| 54. | Field Effect Transistors (FETs)       | 2N4221    | 200    |
| 55. | Field Effect Transistors (FETs)       | 2N4222    | 200    |
| 56. | MOSFETs                               | IRF630    | 200    |
| 57. | MOSFETs                               | IRF3710   | 200    |
| 58. | MOSFETs                               | BS170     | 200    |
| 59. | Op-amps                               | LM 741    | 200    |
| 60. | Op-amps                               | LM 358    | 200    |
| 61. | 555 Timer                             | ICs       | 200    |
| 62. | Bread board jumper wires (AWG 22 -24) | red       | 400 ft |
| 63. | Bread board jumper wires (AWG 22      | blue      | 400 ft |
| 64. | Bread board jumper wires (AWG 22      | green     | 400 ft |
| 65. | Bread board jumper wires (AWG 22      | yellow    | 400 ft |
| 66. | LEDs                                  | red       | 200    |

|      |   |                     |      |
|------|---|---------------------|------|
| 67.  | LEDs  | green               | 200  |
| 68.  | LEDs  | yellow              | 200  |
| 69.  | LEDs  | blue                | 200  |
| 70.  | Step down transformer current rating: 500mA | 220V <sub>rms</sub> | 45   |
| 71.  | Step down transformer current rating: 500mA | 12V <sub>rms</sub>  | 45   |
| 72.  | Push button                                 | switches            | 200  |
| 73.  | Push button                                 | Dip switches        | 200  |
| 74.  | Potentiometers                              | 100 Ω               | 200  |
| 75.  | Potentiometers                              | 1 kΩ                | 200  |
| 76.  | Potentiometers                              | 10 kΩ               | 200  |
| 77.  | Potentiometers                              | 100 kΩ              | 200  |
| 78.  | Potentiometers                              | 1 MΩ                | 200  |
| 79.  | Potentiometers                              | 10 MΩ               | 200  |
| 80.  | Voltage regulators                          | 7805                | 200  |
| 81.  | Voltage regulators                          | 7812                | 200  |
| 82.  | Voltage regulators                          | 7815                | 200  |
| 83.  | Voltage regulators                          | 7905                | 200  |
| 84.  | Voltage regulators                          | 7912                | 200  |
| 85.  | Voltage regulators                          | 7915                | 200  |
| 86.  | Soldering irons                             | 45W rating          | 25   |
| 87.  | Soldering iron                              | holder              | 25   |
| 88.  | Soldering iron                              | stand               | 25   |
| 89.  | Soldering Flux                              | -                   | 25   |
| 90.  | Vero boards                                 | 4 x 6               | 40   |
| 91.  | Capacitor                                   | 0.01uF              | 1000 |
| 92.  | Resistor                                    | 100 Ohm             | 1000 |
| 93.  | Resistor                                    | 1K Ohm              | 1000 |
| 94.  | Resistor                                    | 5K Ohm              | 1000 |
| 95.  | Resistor                                    | 10K Ohm             | 1000 |
| 96.  | Resistor                                    | 100K Ohm            | 1000 |
| 97.  | Resistor                                    | 1 Meg Ohm           | 1000 |
| 98.  | NOT Gate                                    | IC 74LS04           | 1000 |
| 99.  | NOR Gate                                    | IC 74LS02           | 1000 |
| 100. | OR Gate                                     | IC 74LS32           | 1000 |
| 101. | AND Gate                                    | IC 74LS08           | 1000 |
| 102. | NAND  | IC 74LS00           | 1000 |
| 103. | XOR   | IC 74LS86           | 1000 |
| 104. | 3-8 line decoder                            | C 74LS138           | 1000 |
| 105. | BCD to Seven Segment Decoder                | IC 74LS47           | 1000 |
| 106. | 4-bit magnitude comparator                  | IC 74LS85           | 1000 |
| 107. | 8 input Multiplexer / 4 to 1 Multiplexer    | IC 74LS151          | 1000 |

|      |                              |                  |        |
|------|------------------------------|------------------|--------|
| 108. | Timer IC                     | 555              | 1000   |
| 109. | Dual D Flip Flop             | IC 74LS74        | 1000   |
| 110. | Dual JK Flip Flop            | IC 74LS76        | 1000   |
| 112. | LED's                        | Red,Green,Yellow | 1000   |
| 113. | Dip Switches                 | -                | 1000   |
| 114. | Push Button Switch           | -                | 1000   |
| 115. | Seven Segment Display        | S5611AR          | 1000   |
| 116. | Jumper Wires for Bread Board | -                | 800 Ft |

**Important:** Vendors / suppliers are **strongly** advised to visit DSU for available / ready samples before submitting their quotations.

**Terms & Conditions:**

1. Companies/Firm/Vendors/Suppliers registered with Sales Tax and Income Tax ordinance Act invited to submit their quotation.
2. All applicable taxes will be deducted as per SRO/rules.
3. Transport and Cartage will be the responsibility of the vendor/supplier/contractor, DSU must not be charged for the same at any stage.
4. DSU reserves the right to award Purchase / Work Order to either on Itemized lowest or Overall lowest basis.
5. Duly signed and stamped Quotations in sealed envelopes should be submitted at the Office of the Procurement Officer, DSU between 9:00 am to 5:00 pm on working days.
6. Quotations will be opened on date & time mentioned above in the presence of representatives who may care to attend. In case of holiday, quotations shall be opened on next working day at the same place and time.
7. DSU reserves the right to cancel any or all Purchase / Work Order(s) if material is not in accordance with our specifications or if the delivery is delayed.
8. Payment will be made through crossed cheque after delivery of the above items and receipt of the bill.
9. Penalty at the rate of 2% per month on actual will be imposed on delayed delivery.
10. The rate / price quoted for each item shall be final and no change will be allowed.
11. Competent Authority reserves the right to change / alter / remove any item or article or reduce / increase quantity upto 15% without assigning any reason.
12. Invoice / Bill & Delivery Challan should be submitted to the Procurement Officer, DSU.
13. No subletting in any case / item / form will be allowed.
14. Sample(s) / image(s) are available in the Procurement Office, DSU and can be seen during office hours for ready reference.
15. Quotations must be on the company / vendor / supplier's Original Letter Head, indicating land line telephone numbers, registered postal address & National Tax Number.
16. Quotations which are incomplete or do not conform to the Specifications, Terms & Conditions stated above shall be rejected.
17. In case of any dispute, the decision of Competent Authority i.e., Vice Chancellor, DHA Suffa University shall be final and binding.
18. In case of any complaints, please contact Admin Officer, DSU on Ph no. 021-35244860.

**Procurement Officer**