



Republic of the Philippines
ILOILO SCIENCE AND TECHNOLOGY UNIVERSITY

La Paz, Iloilo City

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SUPPLEMENTAL / BID BULLETIN

November 8, 2021

ADDENDUM NO. 01

This supplemental/bid bulletin is being issued to further clarify the **technical specifications** of items for the **PROCUREMENT OF DIGITAL ELECTRONIC TRAINER BOARD FUND 164**.

Project Reference Number : **ISAT U GOODS-2021-06-059**
Location of the Contract : **ISAT University Main Campus, Burgos Street, La Paz, Iloilo City**
Fund Source : **Fund 164**
Approved Budget : **PhP 200,000.00**

Please be informed of the **additional or corrected technical specifications** of the items, as follow;

Digital Electronic Trainer Board – Corrected Technical Specifications

- ✦ 16 TTL/CMOS Logic Level Inputs with Dual Color LED for Logic Low & Logic High.
- ✦ 16 output LED's for Logic level Indicators.
- ✦ Fixed (TTL) Clock generator of 1Hz, 10Hz, 100Hz, 1KHz, 100KHz, 1MHz.
- ✦ Signal Generator Five step 200 KHz SINE, SQUARE(TTL), TRIANGLE output, Sine/Triangle Output Voltage - 20V p-p max.
- ✦ Dual Pulser Generator with four debounced Output Logic Probe to detect High/Low level pulses, with bi-colour LEDs to indicate Facility.
- ✦ Two digit 7 segment display with HEX to 7segment decoder.
- ✦ Two digit 7 segment display with all segment inputs
- ✦ LED BAR graph with 10 LED indicators to display 0-5 V input.
- ✦ On board DPM (4 no) provided with mode selection: DC volt/ current.
- ✦ On-board 1K & 1M Variable Potentiometer.
- ✦ On-board Buzzer for alarm application.
- ✦ On-board +12V SPDT Relay for Control application.
- ✦ On-board 1280 TIE points Bread Board.
- ✦ Fixed DC Power Supply: +5V/2A, ±12V/250mA.
- ✦ Variable DC Power supply of 0 to +15V, 0 to -15V & 0 to +30V output.
- ✦ C Power Supply of 15V-0-15V.
- ✦ All Inputs/Outputs are brought on 2mm Sockets
- ✦ Set of 2mm Banana PatchCords.
- ✦ Should support KMS series ready to use Electronics board.
- ✦ Bare board Tested Glass Epoxy SMOBC PCB is used.
- ✦ User's Manual.

Digital experimental boards:

1. GATES/ARITHMETIC LOGIC BOARD



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3. **DN-03 BUFFER/LATCH/ SEVEN SEGMENT DECODER BOARD**
 - Experiments on Buffer output.
 - Experiments on Latch output.
 - Experiments on Seven Segment Decoder.

4. **DN-04 FLIP FLOP/ SHIFT REGISTER BOARD**
 - Experiments on RS, T, & D Flip Flop.
 - Experiments on JK Flip Flop & Master Slave JK Flip Flop.
 - Experiments on Universal Shift Register.

5. **DN-05 MULTIPLEXER/DEMUX/ MAGNITUDE COMPARATOR BOARD.**
 - Experiments on 8 channel Multiplexer.
 - Experiments on 8 channel Demultiplexer.
 - Experiments on 4 bit Magnitude Comparator.

6. **DN-06 SYNCHRONOUS/ ASYNCHRO-NOYS COUNTER BOARD.**
 - Experiments on 4 bit Asynchronous Counter.
 - Experiments on 4 bit Synchronous Counter.

7. **DN-06 8 BIT ADC & DAC BOARD.**
 - Experiments on 8 bit Analog to Digital Convertor.
 - Experiments on 8 bit Digital to Analog Convertor.

8. **DN-08 EPROM/RAM EXPERIMENTAL BOARD**
 - Experiments on Program & Write operation of 64k Eprom.
 - Experiments on Read & Write operation of 32K RAM.

9. **DN-09 CPLD XC9572 BOARD.**
 - Experiments on Full Adder, Adder/ Substractor.
 - Experiments on Seven Segment Decoder.
 - Experiments on Binary to Grey Conversion.
 - Experiments on Comparator, Decoder, Demultiplexer.
 - Experiments on Encoder, Multiplexer, Parity Generator.
 - Experiments on T, D JK Flip Flop

This Supplemental Bid Bulletin No. 1 shall form part of the Bidding Documents.
For the guidance and information of all concerned.


DR. CORAZON C. CORBAL
BAC Chair