**OLABISI ONABANJO UNIVERSITY**

**COLLEGE OF ENGINEERING & ENVIRONMENTAL STUDIES**

**IBOGUN CAMPUS**

**INTERNAL MEMORANDUM**

**From: Ag. HOD, Mechanical** **To: Vice Chancellor**

**Through:** The Dean of Engineering,

**Date:** 15th June, 2021

Sir,

**REQUEST FOR EQUIPMENT**

I write to request for the following equipment for student practical, research work and preparation for COREN accreditation. The equipment include

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S/N | EQUIPMENT DESCRIPTION | QTY | RATE | AMOUNT |
| 1 | A Regenerative Engine Test Set (TD300)– A versatile engine test bed with instrumentations to provide the facilities to investigate the operating characteristics of compatable and interchangeable single-cylinder combustion **engines rated up to 10kw for use with - A four-stroke single cylinder petrol engine with modified cylinder head and crank and A four-stroke single cylinder diesel engine with modified cylinder head and crank.**  **Other accessories are**  **(a)** Automatic Volumetric Fuel Gauge (DVF1) – An automatic volumetric fuel gauge with an instrumentation unit for use with TD300 engine test sets  (b) Calorimeter (for TD300) – A fully instrumented exhaust gas calorimeter for use with the TD300 Regenerative Engine Test Bed to measure the heat content of engine exhaust gasses to determine the energy lost to exhaust in the energy balance for engines of various types operating at different loads and speeds | 1 | 22600000 | 22600000 |
| 2 | Digital Tachometer (0.5 to 20,000RPM) High precision (MONARCH Non contact pocket – Tach PT99 Terchmeter, PT-99, for Industrial) | 1 | 18000 | 18000 |
| 3 | Industrial Universal milling machine with all accessories—Specification :  Model name/number-: SIGMA SU3E/SU4E, Conventional, Clamping area (800x225mm), Table overall size (1100x225mm), Cross/Vertical traverse (200/350mm), Spindle range (50 to 1225rpm), Number of speed (9), spindle motor power (2HP), Brand – Sigma- | 1 | 3400000 | 3400000 |
| 4 | Static and Dynamics balancing Systems – Capacity to balance parts up to 1500kg, 6000mm in length and 2000mm indiameter in one or two planes (static/dynamic) – (For experiments in balancing a rotating mass system , statically and dynamically) | 1 | 2270100 | 2270100 |
| 5 | Exhaust gas analyzer and Integrated Monitoring Systems (multi-gas measurement capacity (NH3, CO, CO2, H2S, CH4, NO, NO2, NOx, O2, O3, SO2) – Versatile gas analysis solutions for a variety of applications, including emissions, process and air quality monitoring. N550,000:00 | 1 | 550000 | 550000 |
|  | TOTAL |  |  | N32238100 |

Thank you Sir.

Adeyemi H.O. (Dr.)