







LEGEND : LAB EQUIPMENT & REQUIREMENT (BY LAB CONTRACTOR)

1. <u>L/Mc</u> : Bench Lathe Machine Dim: W=660 x L=1370 x H=440mm Weight: 180kg Volt: 240V/1ph-50Hz - 13Amp	13. <u>MIG</u> : Dual MIG Welder Dim: W=285 x L=680 x H=410mm Weight: 54kg Volt: 415V/3ph-50Hz - 64Amp
2. <u>M/Mc</u> : Milling Machine Dim: W=930 x L=1220 x H=2110mm Weight: 495kg Volt: 240V/1ph-50Hz - 13Amp	14. <u>WS/T</u> : 4x Workshop Table + 4 Vices Dim: W=1220 x L=915 x H=900mm Weight: 100kg Volt: N/A
3. <u>CNC/L</u> : CNC Lathe Machine Dim: L=1655 x W=1265 x H=1910mm Weight: 900kg Volt: 415V/3ph-50Hz - 32Amp	15. <u>S/Cab</u> : 3x Steel Cabinet, Full height cupboard, Extra locking bar swing door with lock Dim: W=915 x L=457 x H=1828mm Weight: 100kg Volt: N/A
4. <u>CNC/M</u> : CNC Milling Machine DDim: L=1800 x W=1641 x H=2000mm Weight: 1800kg Volt: 415V/3ph-50Hz - 32Amp	16. <u>PG/Hole</u> : 3x Pigeon Hole Cabinet 15 holes Dim: W=915 x L=460 x H=1830mm Weight: 50kg Volt: N/A
5. <u>DG/Mc</u> : Double Ended Bench Grinder Dim: W=354 x L=510 x H=332mm Weight: 18.5kg Volt: 240V/1ph-50Hz - 13Amp	17. <u>WB.24</u> : Wall Mounted White Board Dim: W=1200 x L=2400 Weight: 10kg Volt: N/A
6. <u>PBS/Mc</u> : Metal Band Saw Machine Dim: W=720 x L=1120 x H=1590mm Weight: 18kg Volt: 415V/1ph-50Hz - 32Amp	18. <u>M/Racks</u> : Material Racks Dim: W=1000 x L=2500 x H=1600mm Weight: 150kg Volt: N/A **(Not Permanent Type. C/W H/Duty Castor Wheels, Can Be Relocate If Need To Use Roller Shutter)
7. <u>D/Mc</u> : Pedestal Drilling Machine Dim: W=550 x L=670 x H=2080mm Weight: 175kg Volt: 415V/3ph-50Hz - 32Amp	19. <u>SSK.22</u> : Stainless Steel Sink Dim: W=750 x L=2200 x H=750mm Weight: 180kg Volt: N/A
8. <u>BR/Mc</u> : Bending/Rolling Machine Dim: W=700 x L=2300 x H=1250mm Weight: 450kg Volt: N/A	20. <u>G.OXY+ACE</u> : 4x Cylinders Oxygen 4x Cylinders Acetylene Capacity: 50 Liters/cylinder c/w gas regulators and reducers + high pressure hose connections.
9. <u>F/Mc</u> : Folding Machine Dim: W=670 x L=1940 x H=1270mm Weight: 340kg Volt: N/A	21. <u>Weld/T</u> : 4x Welding Table Dim: W=450 x L=750 x H=600mm
10. <u>SF/Mc</u> : Surface Grinding Machine Dim: W=1150 x L=1330 x H=1680mm Weight: 920kg Volt: 415V/3ph-50Hz - 32Amp	22. <u>WST/C</u> : 1x Workshop Table(Custom) Dim: W=1220 x L=915 x H=900mm Weight: 100kg Volt: N/A
11. <u>SC/Mc</u> : Shearing Machine Dim: W=880 x L=1680 x H=1300mm Weight: 198kg Volt: N/A	23. <u>C/TB</u> : Computer Table + Chair Dim: W=600 x L=1000 H=750mm Weight: 10kg Volt: N/A
12. <u>GW</u> : Gas Welding & Cutting Cutting capacity up to 6"(150mm) Welding up to 3/8" (9mm) Weight: 11kg Volt: 230V/1ph-50Hz - 13Amp	

- ARCHI NOTE:
- 1) ALL WORKS SHALL BE CA IED OUT UNDER THE MAIN CONTRACTOR UNLESS SPECIFIED OTHERWISE.
  - 2) CONTRACTOR SHALL REFER CONCURRENTLY TO ARCHITECTURAL SCHEDULE OF FINISHES, WALL TYPE, CEILING TYPE, WINDOW, DOOR, IRONMONGERY AND SANITARYWARE.
  - 3) CONTRACTOR SHALL REFER CONCURRENTLY TO M&E SCHEDULES FOR MECHANICAL, ELECTRICAL ACCESSORIES AND LIGHT FITTINGS.
  - 4) CONTRACTOR SHALL SUBMIT COORDINATED SHOP DRAWNGS BASED ON VERIFIED SITE DIMENSIONS, FOR ARCHITECT'S APPROVAL.
  - 5) CONTRACTOR SHALL SUBMIT ALL PROPOSED MATERIALS AND SAMPLES, FOR ARCHITECT'S APPROVAL.
  - 6) ALL ID FITMENT, SYSTEM & LOOSE FURNITURE REFER TO ID SCHEDULE/ DETAILS (BY ID CONTRACTOR).
  - 7) ALL LAB EQUIPMENT AND REQUIREMENT WILL BE PROVIDED BY LAB CONTRACTOR/SPECIALIST.

- M&E NOTE:
- 1) ALL EQUIPMENT DIMENSION SHOWN IS PRELIMINARY & ACTUAL DIMENSION TO BE DETERMINED BASED ON EQUIPMENT SELECTED.
  - 2) 300 LUX LEVEL DESIGN BASED ON MS STANDARD:1525 (2007)
  - 3) TO MEET MINIMUM REQUIREMENTS OF VENTILATION RATE IN ASHRAE 62.1 OR THE LOCAL BUILDING CODE WHICHEVER IS MORE STRINGENT.
  - 4) THIS DRAWING SHALL BE STUDIED IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL & PLUMBING DRAWING.
  - 5) CEILING HEIGHT SHALL ACHIEVE 2800MM MINIMUM.
  - 6) JUNCTION BOX & UNDERFLOOR TRUNKING/ CONCEALED CONDUIT/TRUNKING SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR
- FOR AUDIO/VISUAL SERVICES TO LECTURER SEATING AREA.

CONSTRUCTION DRAWING

PROJECT TITLE : CADANGAN MEMBINA SEBUAH KOLEJ UNIVERSITI SWASTA DI ATAS PT 5828, PERSIARAN CASSIA BARAT 3, BATU KAWAN, MK. 13, SEBERANG PERAI SELATAN YANG MENGANDUNGI : BLOK A – PUSAT PENTADBIRAN 5 TINGKAT BLOK B – PERPUSTAKAAN DAN BILIK KULIAH 6 TINGKAT BLOK C – BANGUNAN AKADEMIK DAN DEWAN SERBAGUNA B3 TINGKAT DENGAN PODIUM BLOK D – DEWAN KULIAH DAN KAFETERIA 3 TINGKAT BLOK E – BANGUNAN AKADEMIK 5 TINGKAT 2 UNIT PONDOK PENGAWAL DAN 1 UNIT TNB 11 KV STESEN SUIS UTAMA UNTUK: TETUAN KDU COLLEGE (PG) SDN. BHD		LAND OWNER & BUILDING OWNER SIGNATURE :  NAME : DR.CHONG BENG KEOK CHIEF EXECUTIVE OFFICER (CEO) IC. NO : 610612-02-5048 ALAMAT :KDU COLLEGE (PG) SDN.BHD. 32, JALAN ANSON, 10400 GEORGE TOWN, PULAU PINANG. TEL. NO : 604-2386368		DESIGN ARCHITECT :  ARCHITECTURE GROUP - STUDIO A CPG CONSULTANTS PTE LTD 1 Gateway Drive #23-01 Westgate Tower, Singapore 608531 Tel : +63574888 ; fax: +63574188   15TH FLOOR, BANGUNAN AMMETLIFE, NO.1, JLN. LUMUT, 50400 KUALA LUMPUR. TEL: (30)-4046-1346 FAX: (03) 4043-1349 EMAIL: ybhwa@nrasb.com.my		C&S CONSULTANT :  PERUNDING KELANA CIVIL & STRUCTURAL ENGINEERS Level 12, Unit 12(D), Wisma Boon Siew, No.1, Penang Road, 10000 Penang. Tel: 2622628, Fax: 2641618 (Company No. A50232772-W)  M&E CONSULTANT :  Consulting Mechanical & Electrical Engineers. 8-01, WISMA PANTAI, JALAN WISMA PANTAI, 12200 BUTTERWORTH, PENANG. TEL. NO. : (604) 3337990 FAX NO. : (604) 3317337 E-MAIL : project@pla-group.com		QS CONSULTANT :  UNITECH QS CONSULTANCY SDN. BHD. 12A-A, MENARA NORTHAM, 55, JALAN SULTAN AHMAD SHAH, 10050 PENANG  KITCHEN SPECIALIST :  DISHES SDN BHD NO. 21-1, JALAN SEMENYIH SENTRAL 1, SEMENYIH SENTRAL, SEMENYIH, 43500 SELANGOR TEL : +603-872-71207 email : info@dishes.com.my webmail : www.dishes.com.my		DRAWING TITLE : BLOCK E_GROUND FLOOR MACHINE WELDING WORKSHOP FURNITURE LAYOUT PLAN					
DATE : 11.03.16		SCALE : 1:75		CHECK BY : EJ/EDM		PROJECT NO. : 55314		STATUS : CA		BLOCK : E		DWG. NO : 0001		REVISION : A	