

LEGEND:

NEW

L.T. EL

₄(H2)	EX. HYDROGEN
ĸ (He)	EX. HELIUM
₄ (02)	EX. OXYGEN
4 €N2	EX. NITROGEN
⊷Ar/5%H2	EX. ARGON / HELIUM MIX
Ar Ar	EX. ARGON
⊷ (C)	EX. CARBON MONOXIDE
4 €02	EX. CARBON DIOXIDE
	EX. METHANE
k+(L.₱.G.	EX. L.P.G.
krH2	NEW HYDROGEN FOR MeOH Reactor / PCT Pro / Charge / Discharge Demo
�(H2)/ CO2	NEW HYDROGEN / CO2 MIX FOR MeOH Reactor
4 €N2	NEW N2 FOR MeOH Reactor
w(MI)X	NEW MIXTURE FOR PCT Pro / Charge / Discharge Demo
DHA	NEW EMERGENCY GLOBE TYPE ISOLATING VALVE
Ы	NEW FLASHBACK ARRESTOR FOR HYDROGEN

NOTES:

THE LATEST AMENDMENTS OF THE FOLLOWING SHALL

BE COMPLIED WITH: 1. THE STANDARD REGULATIONS FOR WIRING OF PREMISES ISSUED BY THE SOUTH AFRICAN INSTITUTE OF

ELECTRICAL ENGINEERS. 2. MACHINERY AND OCCUPATIONAL SAFETY ACT NO. 85 OF 1993 AS AMENDED.

3. SANS 10087: PART 1, 2, 3, 7 OF 2000 LATEST AMENDMENT. 4. SANS 10260: PART 1, 2, 3, 4 OF 2000 LATEST AMENDMENT. 5. ALL PIPEWORK SHALL BE COLOUR CODED ACCORDING TO SANS 10140-3 OF 2010.

6. WARNING NOTICES SHALL BE POSITIONED ADJACENT TO THE VALVES CLEARLY AND PROMINENTLY STATING THAT THE VALVES SHALL NOT BE CLOSED BY UNAUTHORISED PERSONS. 7. PRESSURE GAUGES SHALL BE OF THE BOURDON DIAL TYPE. 8. ALL TESTING OPERATIONS SHALL BE WITNESSED BY THE

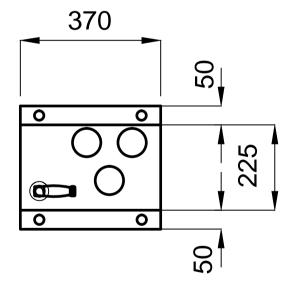
ENGINEER. 9. GASBANK IS TO BE FURNISHED WITH 1 x 9 kG DCP FIRE EXTIGUISHERS IN A LOCKABLE CABINET WITH BREAK GLASS.

10. ALL GAS PIPES SHALL BE SLEEVED WHERE PIPES PASS THROUGH WALLS AND SLABS, AND SEALED WITH SUITABLE FLIE GAUZE.

11. ALL RELEVANT SAFETY SIGNS MUST BE MOUNTED AT THE GASBANK. NO NAKED FLAME, NO SMOKING FLAMMABLE AND DANGER.

12. DUE TO THE HIGH LINE PRESSURES INVOLVED ONLY SUITABLE QUALIFIED GAS CONTRACTORS FOR HIGH PRESSURES MAY PERFORM THE LABORATORY GAS INSTALLATION. 13. NON FLAMMABLE GASES : 191.91 KG

FLAMMABLE GASES: 2,22 KG



GAS CONTROL PANEL

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EACH OF THESE GASES HAS A 1 CHANGE OVER MANIFOLD FROM

C.S.I.R. BRUMMERIA, PRETORIA

CLIENT/PROJECT

PROPOSED LABORATORY GAS INSTALLATION FOR HySA AT BUILDING NO.15

SCALE - 1:100 ; 1:50					
	NAME	DATE	REF. No.		
DRAWN	-	25-08-2021			
CHECKED	-	25-08-2021	DRAWING No.	REV	
APPROVED	-	25-08-2021	01/02/2020-MG-02	1	
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