RECORD Inspection Report Compiled by: Frikkie Malan Approved by: Rujeanne Swanepoel Date Approved: 12 September 2022

Client Information		Building Loca	ation			
Company Name: University of John	annesburg		Address 1	: 23 Annet Rd,	Cottesloe, Joha	nnesburg
Building Name: APB Cafeteria						
	<u> </u>		City	: Johannesbur	g	
				: Gauteng	_	
		-				
Client Representative		Building Info	ormation (from S	SANS 10400-)	(A:2021)	
Name: Masala Mbambel	leli		Energy Zone	:	1	
Contact Number: (078) 667 1760			Occupancy Class		A1	
E-mail Address: mmasala@uj.ac.z	za	Reference E	nergy Consumption	:	75	
Building Assessment Planning			*fro	om SANS10400	I-XA : 2021	
Has the Inspector identified the person			name of the person whe site inspection:	who represented	d the property	
who will assist the Inspector during the assessment?	Yes	Masala Mbamb	eleli			-
		Da	te of the Inspection	:	2022/10/06	
Has the Inspector phoned the inspection	Yes		Start Time		9:00 am	
assistant to inspection arrangements?	163		Duration		30 minutes	
Did the Inspector share the Building Assessment Method Statement with the Building Representative?	Yes					
Has the Inspector confirmed the site Health & Safety arrangements?	No					
Details on when and how Building Assessment Method Statem	nent was shared	Det	tails on Health and S	afety considera	tions	
	nent was shared		tails on Health and S	afety considera	tions	
	nent was shared			afety considera	tions	
chared by Nikhil Naidoo to the client rep Confirmation by Building Representative:		General H&S co	erations	afety considera	tions	
hared by Nikhil Naidoo to the client rep Confirmation by Building Representative:	2021/01/01	Building Ope	erations ssessment:		tions	
Confirmation by Building Representative:		Building Ope During the Year of As Single 6	erations sessment: or Multiple Tenants	?	Single	
hared by Nikhil Naidoo to the client rep Confirmation by Building Representative: ear of Assessment Start	2021/01/01	Building Ope During the Year of As Single 6	erations ssessment:	?		
nared by Nikhil Naidoo to the client rep confirmation by Building Representative: ear of Assessment Start ear of Assessment End	2021/01/01	Building Ope During the Year of As Single Confirm Building Ope	erations sessment: or Multiple Tenants	?	Single 100%	
nared by Nikhil Naidoo to the client rep confirmation by Building Representative: ear of Assessment Start ear of Assessment End nergy Carriers	2021/01/01 2021/12/31	Building Ope During the Year of As Single (Confirm Building Ope	erations ssessment: or Multiple Tenants ilding Occupancy (%	?)	Single 100%	hours/week
nared by Nikhil Naidoo to the client rep Confirmation by Building Representative: ear of Assessment Start ear of Assessment End nergy Carriers Did the building use grid supplied electricity?	2021/01/01 2021/12/31 Yes	Building Ope During the Year of As Single (Confirm Building Ope Start Mon to Thurs	erations ssessment: or Multiple Tenants ilding Occupancy (% erating Hours 07:00:00	Find 18:00:00	Single 100% hours/day	44
confirmation by Building Representative: ear of Assessment Start ear of Assessment End nergy Carriers Did the building use grid supplied electricity? Did the building use solar PV electricity?	2021/01/01 2021/12/31 Yes No	Building Ope During the Year of As Single (Confirm Building Ope Start Mon to Thurs Fridays	erations ssessment: or Multiple Tenants ilding Occupancy (% erating Hours 07:00:00 07:00:00	End 18:00:00 18:00:00	Single 100% hours/day 11 11	44 11
onfirmation by Building Representative: ear of Assessment Start ear of Assessment End nergy Carriers Did the building use grid supplied electricity? Did the building use solar PV electricity? Did the building use diesel fuel?	2021/01/01 2021/12/31 Yes No Yes	Building Ope During the Year of As Single of Confirm Building Ope Start Mon to Thurs Fridays Saturdays	erations ssessment: or Multiple Tenants ilding Occupancy (% erating Hours 07:00:00 07:00:00 00:00:00	End 18:00:00 18:00:00 00:00:00	Single 100% hours/day 11 11 0	44 11 0
confirmation by Building Representative: ear of Assessment Start ear of Assessment End inergy Carriers Did the building use grid supplied electricity? Did the building use solar PV electricity? Did the building use diesel fuel? Did the building use gas?	2021/01/01 2021/12/31 Yes No Yes No	Building Ope During the Year of As Single (Confirm Building Ope Start Mon to Thurs Fridays	erations ssessment: or Multiple Tenants ilding Occupancy (% erating Hours 07:00:00 07:00:00	End 18:00:00 18:00:00	Single 100% hours/day 11 11 0 0	44 11 0 0
nared by Nikhil Naidoo to the client rep Confirmation by Building Representative: ear of Assessment Start ear of Assessment End nergy Carriers Did the building use grid supplied electricity? Did the building use solar PV electricity? Did the building use diesel fuel? Did the building use gas? Did the building use gas?	2021/01/01 2021/12/31 Yes No Yes	Building Ope During the Year of As Single of Confirm Building Ope Start Mon to Thurs Fridays Saturdays	erations ssessment: or Multiple Tenants ilding Occupancy (% erating Hours 07:00:00 07:00:00 00:00:00	End 18:00:00 18:00:00 00:00:00	Single 100% hours/day 11 11 0	44 11 0
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Confirmation by Building Representative: ear of Assessment Start ear of Assessment End inergy Carriers uring the Year of Assessment: Did the building use grid supplied electricity? Did the building use solar PV electricity? Did the building use diesel fuel? Did the building use any solid fuel for energy? Was energy exported from the building?	2021/01/01 2021/12/31 Yes No Yes No No	Building Ope During the Year of As Single of Confirm Building Ope Building Ope Start Mon to Thurs Fridays Saturdays Sundays	erations ssessment: or Multiple Tenants ilding Occupancy (% erating Hours 07:00:00 07:00:00 00:00:00	End 18:00:00 18:00:00 00:00:00 00:00:00	Single 100% hours/day 11 11 0 Total	44 11 0 0
confirmation by Building Representative: ear of Assessment Start ear of Assessment End nergy Carriers Did the building use grid supplied electricity? Did the building use solar PV electricity? Did the building use diesel fuel? Did the building use any solid fuel for energy? Was energy exported from the building?	2021/01/01 2021/12/31 Yes No Yes No No	Building Ope During the Year of As Single of Confirm Building Ope Building Ope Start Mon to Thurs Fridays Saturdays Sundays	erations ssessment: or Multiple Tenants ilding Occupancy (% erating Hours 07:00:00 07:00:00 00:00:00 00:00:00	End 18:00:00 18:00:00 00:00:00 00:00:00	Single 100% hours/day 11 11 0 Total	44 11 0 0
Confirmation by Building Representative: ear of Assessment Start ear of Assessment End Energy Carriers uring the Year of Assessment: Did the building use grid supplied electricity? Did the building use solar PV electricity? Did the building use diesel fuel? Did the building use grid supplied for energy? Was energy exported from the building?	2021/01/01 2021/12/31 Yes No Yes No No No	Building Ope During the Year of As Single of Confirm Bui Building Ope Start Mon to Thurs Fridays Saturdays Sundays Any further	erations ssessment: or Multiple Tenants ilding Occupancy (% erating Hours 07:00:00 07:00:00 00:00:00 00:00:00	End 18:00:00 18:00:00 00:00:00 00:00:00	Single 100% hours/day 11 11 0 Total	44 11 0 0
Confirmation by Building Representative: Fear of Assessment Start Fear of Assessment End Energy Carriers For Indian Start Did the building use grid supplied electricity? Did the building use solar PV electricity? Did the building use diesel fuel? Did the building use and fuel for energy? Was energy exported from the building? Net Floor Area (are these on the plans?) Building layout during the year of assessment	2021/01/01 2021/12/31 Yes No Yes No No No	Building Ope During the Year of As Single of Confirm Bui Building Ope Start Mon to Thurs Fridays Saturdays Sundays Any further	erations ssessment: or Multiple Tenants ilding Occupancy (% erating Hours 07:00:00 07:00:00 00:00:00 00:00:00	End 18:00:00 18:00:00 00:00:00 00:00:00	Single 100% hours/day 11 11 0 Total	44 11 0 0
Did the building use solar PV electricity? Did the building use diesel fuel? Did the building use gas? Did the building use any solid fuel for energy? Was energy exported from the building? Net Floor Area (are these on the plans?) Building layout during the year of assessment Store rooms?	2021/01/01 2021/12/31 Yes No Yes No No No	Building Ope During the Year of As Single of Confirm Bui Building Ope Start Mon to Thurs Fridays Saturdays Sundays Any further	erations ssessment: or Multiple Tenants ilding Occupancy (% erating Hours 07:00:00 07:00:00 00:00:00 00:00:00	End 18:00:00 18:00:00 00:00:00 00:00:00	Single 100% hours/day 11 11 0 Total	44 11 0 0

Report Date

RECORD Inspection Report

Compiled by: Frikkie Malan Approved by: Rujeanne Swanepoel Date Approved: 12 September 2022

ertification Name:	University of Johannesburg_APB Cafeteria				
ergy Carrier: Grid Supplied	Electricity				
	D. H. abanda and an date				
nsumption Source Data	Bulk check meter data				
	Validations Checks		Results		
	Confirm meter location with reticulation diagram	Yes		Consumption Unit of Measure	kWh
	Confirm meter existence and purpose with building rep	Yes		Annual Consumption Value	157 615
	Compare Serial numbers (data file vs reticulation)	Yes		kWh per Annum	157 615
	Check that data time-period is for Year of Assessment	Yes			
	Check data completeness (identify estimates)	Yes			
	Compare data with another data source	Yes			
	Visually inspect meter on site	Yes			
sensitivity analsyis was done to che	Compare meter serial number (on meter) with other S/N ethods used ck the impact of deviating the figure by 5% on the building EPC g	Yes	re an impact on the EPC gra	de, but the most conservative	e grade was
ensitivity analsyis was done to che	ethods used		re an impact on the EPC gra	de, but the most conservative	e grade was
ensitivity analsyis was done to che	ethods used		e an impact on the EPC gra	de, but the most conservative	e grade was
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ensitivity analsyis was done to che ected.	ethods used ck the impact of deviating the figure by 5% on the building EPC g		re an impact on the EPC gra	de, but the most conservative	e grade was

03 November 2022

RECORD Inspection Report Compiled by: Frikkie Malan Approved by: Rujeanne Swanepoel Date Approved: 12 September 2022

Certification Name:	University of Johannesburg_APB Cafeteria		
Energy Carrier: Solar PV Supplied	l Electricity		
Consumption Source Data	Energy source not in building		
consumption source sucu			
Validations Checks		Results	
	Confirm meter location with reticulation diagram	Consumption Unit of Measure	kWh
Confirm	n meter existence and purpose with building representative	Annual Consumption Value (Raw)	0
	Compare Serial numbers (data file vs reticulation)	kWh per Annum	0
	Check that data time-period is for Year of Assessment		
	Check data completeness (identify estimates)		
	Compare data with another data source		
	Visually inspect meter on site		
	Compare meter serial number (on meter) with other S/N		
Describe any other validation metho	ods used		
Inspector comments from site asses No diesel genset	sment		
List any further actions that may be No further action required	needed:		

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Certification Name:	University of Johannesburg_APB Cafeteria			
From Andre Blanks of				
Energy Carrier: Diesel Fuel				
Consumption Source Data	Another source			
				
	Validations Checks		Results	
	Confirm invoices/delivery notes are for this building location	No	Consumption Unit of Measure	kN
	Confirm invoices/delivery notes are for the Year of Assessment	No	Annual Consumption Value (Raw)	6 56
	Inspect generator or other diesel consuming equipment	Yes	MJ/ per unit of measure	3
	Inspect diesel storage facilities	Yes	GJ per annum	25
	Confirm diesel refilling rules	Yes	kWh per Annum	6 56
Describe any other validation med				
Inspector comments from site ass				
An assumption was made that the	diesel energy footprint accounts for 4% of the total	energy footprint.		
List any further actions that may No further action required	be needed:			
The state of dead in Equition				

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Certification Name:	University of Johannesburg_APB Cafeteria		
nergy Carrier: Gas			
onsumption Source Data	Energy source not in building	Ī	
	0,		
lidations Checks		Results	
	Confirm invoices/delivery notes are for this building location	Consumption Unit of Measure	kWH
	Confirm invoices/delivery notes are for the Year of Assessment	Annual Consumption Value (Raw)	0
	Inspect gas consuming equipment	MJ/ per unit of measure	46.1
	Inspect gas storage facilities	GJ per annum	0
	Confirm gas refilling rules	kWh per Annum	0
spector comments from site ass	sessment		
spector comments from site ass	sessment		
spector comments from site ass	sessment		
spector comments from site ass	sessment		
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Certification Name:	University of Johannesburg_APB Cafeteria		
Energy Carrier: Solid Fuel			
Consumption Source Data	Energy source not in building	1	
		_	
Validations Checks		Results	
	Confirm invoices/delivery notes are for this building location	Consumption Unit of Measure	kg
	Confirm invoices/delivery notes are for the Year of Assessment	Annual Consumption Value (Raw)	0
	Inspect generator or other diesel consuming equipment	MJ/ per unit of measure	0.0
	Inspect storage facilities	GJ per annum	0
	Confirm refilling rules	kWh per Annum	0
Inspector comments from site assess	ment		
	needed:		
List any further actions that may be r No further action required	needed:		
	needed:		

RECORD Inspection Report Compiled by: Frikkie Malan Approved by: Rujeanne Swanepoel Date Approved: 12 September 2022

Report Date	03 November 2022
RMS EPC Inspector:	Lee Ferreira

Certification Name:	University of Johannesburg_APB Cafeteria		
Energy Carrier: Export Energy			
Consumption Source Data	Energy source not in building		
Validations Checks		Results	
Validations Checks	Confirm invoices/delivery notes are for this building location	Consumption Unit of Measure	ka
	Confirm invoices/delivery notes are for the Year of Assessment	Annual Consumption Value (Raw)	kg 0
	Check whether readings are actual and not estimates	MJ/ per unit of measure	0.0
	Inspect storage facilities	GJ per annum	0
	Check data against another source	kWh per Annum	0
Describe any other validation metho	ds used		
Inspector comments from site assess	ment		
List any further actions that may be r	needed:		
No further action required			

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Report Date 03 November 2022
RMS EPC Inspector: Lee Ferreira

	Certification Name: University of Johannesburg_APB Cafeteria		
Store Rooms Not applicable Outside Areas No. The floor plan does not show all the outside areas No. The floor plan does not show all the outside areas Construction Area: Store Rooms Total Outside Areas Total Parking Area Total Vertical Elements Excluded Areas Total Net Floor Area Net Floor Area Net Floor Area Report Findings	Exclusions		
Not applicable Pes, the floor plan shows all the parking areas Net Floor Area Report Findings No. The floor plan does not show all the outside areas Construction Area: Store Rooms Total Outside Areas Total Parking Area Total Vertical Elements Excluded Areas Total Net Floor Area			
Outside Areas Net Floor Area Report Findings No. The floor plan does not show all the outside areas Construction Area: Store Rooms Total Outside Areas Total Parking Area Total Vertical Elements Excluded Areas Total Net Floor Area	Store Rooms	Garages/Basement Parking	
No. The floor plan does not show all the outside areas Store Rooms Total Outside Areas Total Parking Area Total Vertical Elements Excluded Areas Total Net Floor Area	Not applicable	Yes, the floor plan shows all the parking areas	
No. The floor plan does not show all the outside areas Store Rooms Total Outside Areas Total Parking Area Total Vertical Elements Excluded Areas Total Net Floor Area			
No. The floor plan does not show all the outside areas Store Rooms Total Outside Areas Total Parking Area Total Vertical Elements Excluded Areas Total Net Floor Area			
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Store Rooms Total Outside Areas Total Parking Area Total Vertical Elements Excluded Areas Total Net Floor Area			
Outside Areas Total Parking Area Total Vertical Elements Excluded Areas Total Net Floor Area	No. The floor plan does not show all the outside areas		1
Parking Area Total Vertical Elements Excluded Areas Total Net Floor Area			
Vertical Elements Excluded Areas Total Net Floor Area			
Excluded Areas Total Net Floor Area			
Net Floor Area			
			1
LANUMEU ATER AF		Excluded Area %	
Exclusion Comments	No further action required		
No further action required			

Load Type	Qty	Wattage	Hours/Week	Wh/Week	Wks/Yr	kWh/Yea
			84			-
						-
						-
					-	-
						-
						-
						-
						-
			Excluded Areas Total			-
			Excluded Area Energy	y as % of Total		09

Excluded Energy is less than 10% of total building energy consumption and does not have to be shown on the certificate



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Report Date 03 November 2022

RIVIS EPC Inspector:	Lee rerieilu

Certification Name:

University of Johannesburg_APB Cafeteria

Building Details

Building Name	APB Cafeteria
Energy Zone	1
Reference Energy Consumption (kWh/m2.annum)	75
Year of Assessment Start	01 January 2021
Year of Assessment End	31 December 2021
Occupancy Class	A1
Occupancy Rate	100%

Energy Carriers

Total Energy Consumption (kWh)	164 182
Grid Electricity (kWh):	157 615
Solar PV Electricity (kWh):	0
Diesel Fuel (kWh):	6 567
Gas (kWh):	0
Solid Fuel (kWh):	0
Export Energy (kWh):	0

Building Energy Performance

Energy per Unadjusted Net Floor Area (kWh/m2.annum):	131
Energy per Adjusted Net Floor Area (kWh/m2.annum):	131

Building Performance

building i criomance
Building Performance Scale (from SANS 1544)
Rating A: energy performance < 0.3Ereference
Rating B: 0.3Ereference <= energy performance < 0.6Ereference
Rating C: 0.6Ereference <= energy performance < 0.9Ereference
Rating D: 0.9Ereference <= energy performance < 1.1Ereference
Rating E: 1.1Ereference <= energy performance < 1.4Ereference
Rating F: 1.4Ereference <= energy performance < 1.7Ereference
Rating G: energy performance >= 1.7Ereference

Additional Information

Additional Information		
	No of floors (excl parking):	2
	Year of Construction: >2 years	
	Year of Renovation: Within the p	ast 2
	Date of Approved Plans: >2 years	
	Cadastral (Erf no) Info:	

Signature: Inspector

Inspection Report Date: 03 November 2022

Certification Name: University of Johannesburg_APB Cafeteria

Net Floor Area

Total Net Floor Area	1 253
Excluded Area	0
Excluded Area % of Total	0%

Excluded Area Energy Consumption

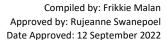
Excluded Area Elierby colladiliption					
Total Excluded Area Energy Consumption (kWh)	0				
Net Energy = Total Energy - Exclusions = 164 182 - 0					
Equals (kWh)	164 182				
Excluded Area Energy as % of Total	0%				

Building EPC Calculcation

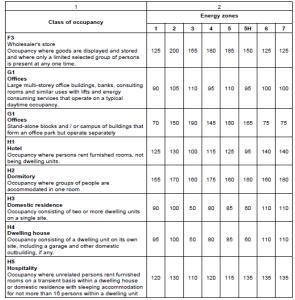
75	Reference Energy (kWh/m2.annum):
	(from SANS 10400-XA:2021)
	Variance = 131 - 75
56	Equals (kWh/m2.annum):
	Actual/Reference Energy = 131 / 75
1.75	Equals:
G	Provisional Building Rating:

Signature: Client









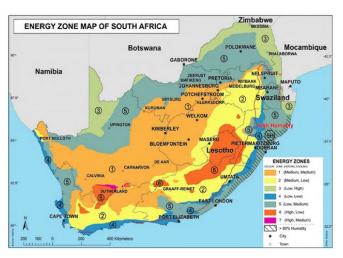


Table 1 — Maximum annual energy consumption per building classification for each energy zone (kWh/m²/a) (Energy zones as shown in figure 1 and annex C)

1	2							
Class of annual control	Energy zones							
Class of occupancy		2	3	4	5	5H	6	7
A1 Entertainment and public assembly Occupancy where persons gather to eat, drink, dance or participate in other recreation.	75	75	95	70	95	95	80	80
A2 Theatrical and indoor sport Occupancy where persons gather for the viewing of theatrical, operatic, orchestral, choral, cinematographical or sport performances.	95	95	110	90	110	110	105	105
A3 Places of instruction Occupancy other than primary or secondary schools, where students or other persons assemble for the purpose of tuition or learning.	110	155	110	125	140	140	120	120
A3 Places of instruction Occupancy where school children assemble for the purpose of tuition or learning	60	65	55	60	55	60	65	65
A4 Worship Occupancy where persons assemble for the purpose of worshipping.	70	45	45	40	50	40	70	70
E2 Hospital Occupancy where people are cared for or treated because of physical or mental disabilities and where they are generally bed-ridden.	325	335	225	295	295	230	345	345
E3 Other institutional (residential) Occupancy where groups of people who either are not fully fit, or who are restricted in their movements or their ability to make decisions, reside and are cared for	120	95	90	90	100	80	130	130
F1 Large shop Occupancy where merchandise is displayed and offered for sale to the public and the floor area exceeds 250 m².	125	200	155	180	185	150	125	125
F2 Small shop Occupancy where merchandise is displayed and offered for sale to the public and the floor area does not exceed 250 m².	75	150	100	125	130	95	80	80