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

Certification Name:	Offiversity of John	annesburg_APB Great Hal					
Client Information			Ruild	ng Location			
	University of Johan	anachura	- Dulla		· 23 Annot Rd	Cottesloe, Joha	nnechuro
		mesbury		Address 1	. 25 Allilet Nu,	cottesioe, joilu	illesburg
Building Name: /	APB Great Haii						
					: Johannesbur	g	
				Province	: Gauteng		
Client Representative			Build	ng Information (from S	SANS 10400-	XA:2021)	
Name:	Masala Mbambele	eli		Energy Zone	:	1	
Contact Number: ((078) 667 1760			Occupancy Class	:	A1	
E-mail Address: /	mmasala@uj.ac.za	a	Ref	erence Energy Consumption	:	75	
				*fron	n SANS1040	0-XA : 2021	
Building Assessment Planning							
			Name :	nd Surname of the person v	who renresented	d the property	
				during the site inspection:	viio represente	a the property	
Has the Inspector identified the person who will assist the Inspector during the		Yes	Masala	Mbambeleli			-
assessment?		163	Widshid	Wiballibelell			
				Data of the Increase		2022/10/00	
Has the Inspector phoned the inspection				Date of the Inspection		2022/10/06	
assistant to inspection arrangements?		Yes		Start Time		9:00 am	
				Duration	:	30 minutes	
Did the Inspector share the Building							
Assessment Method Statement with the		Yes					
Building Representative?							
Has the Inspector confirmed the site		No					
Has the Inspector confirmed the site Health & Safety arrangements?		No					
Health & Safety arrangements?							
Health & Safety arrangements? Details on when and how Building Assessment	ent Method Stateme		_	Details on Health and S	afety considera	itions	
Health & Safety arrangements? Details on when and how Building Assessment	ent Method Stateme		Genera	Details on Health and S H&S considerations apply	afety considera	itions	
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Health & Safety arrangements? Details on when and how Building Assessment Shared by Nikhil Naidoo to the client rep Confirmation by Building Represent Year of Assessment Start		ent was shared	Buildi During th	H&S considerations apply ng Operations Year of Assessment: Single or Multiple Tenants	?	Single	
Health & Safety arrangements? Details on when and how Building Assessment shared by Nikhil Naidoo to the client reposterior of the client reposteri		2021/01/01	Buildi During th	H&S considerations apply ng Operations Year of Assessment:	?		
Health & Safety arrangements? Details on when and how Building Assessmenthared by Nikhil Naidoo to the client report of the client rep		2021/01/01	Buildi During th	H&S considerations apply ng Operations Year of Assessment: Single or Multiple Tenants	?	Single	
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Health & Safety arrangements? Details on when and how Building Assessment in the client reposition of the client reposition re		2021/01/01	Build During th	H&S considerations apply ng Operations Year of Assessment: Single or Multiple Tenants firm Building Occupancy (%	?	Single	hours/week
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Report Date	03 November 2022
RMS EPC Inspector:	Lee Ferreira

Consumption Course Data	Bulk check meter data				
Consumption Source Data	Bulk Cleck 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	145 048
	Compare Serial numbers (data file vs reticulation)	Yes		kWh per Annum	145 048
	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 check the nnected to one metering point, a pro-ra	e impact of deviating the figure by 10% on the building EPC ta based on NFA had to be used. A fairly large deviation of 1	Yes grade. This was found to			
sensitivity analsyis was done to check the onnected to one metering point, a pro-ra	ds used e impact of deviating the figure by 10% on the building EPC ta based on NFA had to be used. A fairly large deviation of 1	Yes grade. This was found to			
sensitivity analsyis was done to check th onnected to one metering point, a pro-ra nd the most conservative grade was sele	ds used e impact of deviating the figure by 10% on the building EPC ta based on NFA had to be used. A fairly large deviation of 1 cted.	Yes grade. This was found to			
sensitivity analsyis was done to check th onnected to one metering point, a pro-ra Id the most conservative grade was sele	ds used e impact of deviating the figure by 10% on the building EPC ta based on NFA had to be used. A fairly large deviation of 1 cted.	Yes grade. This was found to			
sensitivity analsyis was done to check th innected to one metering point, a pro-ra id the most conservative grade was sele	ds used e impact of deviating the figure by 10% on the building EPC ta based on NFA had to be used. A fairly large deviation of 1 cted.	Yes grade. This was found to			
sensitivity analsyis was done to check th onnected to one metering point, a pro-ra nd the most conservative grade was sele	ds used e impact of deviating the figure by 10% on the building EPC ta based on NFA had to be used. A fairly large deviation of 1 cted.	Yes grade. This was found to			
sensitivity analsyis was done to check th onnected to one metering point, a pro-ra nd the most conservative grade was sele	ds used e impact of deviating the figure by 10% on the building EPC ta based on NFA had to be used. A fairly large deviation of 1 cted.	Yes grade. This was found to			
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sensitivity analsyis was done to check th onnected to one metering point, a pro-ra Id the most conservative grade was sele	ds used e impact of deviating the figure by 10% on the building EPC ta based on NFA had to be used. A fairly large deviation of 1 cted.	Yes grade. This was found to			

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Certification Name:	University of Johannesburg_APB Great Hall		
Energy Carrier: Solar PV Supp	olied Electricity		
Consumption Source Data	Energy source not in building		
Validations Checks		Results	
	Confirm meter location with reticulation diagram	Consumption Unit of Measure	kWh
	Confirm 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		
Inspector comments from site a No diesel genset	ssessment		
List any further actions that may	y be needed:		
No further action required			

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Certification Name:	University of Johannesburg_APB Great Hall			
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	kWh
Cc	onfirm invoices/delivery notes are for the Year of Assessment	No	Annual Consumption Value (Raw)	6 044
	Inspect generator or other diesel consuming equipment	Yes	MJ/ per unit of measure	39
	Inspect diesel storage facilities	Yes	GJ per annum	233
	Confirm diesel refilling rules	Yes	kWh per Annum	6 044
Inspector comments from site asse				
An assumption was made that the d	liesel energy footprint accounts for 4% of the total	energy tootprint.		
List any further actions that may be	e needed:			
No further action required				

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Certification Name:	University of Johannesburg_APB Great Hall		
Energy Carrier: Gas			
Consumption Source Data	Energy source not in building	_	
Validations 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
Describe any other validation m	ethods used		
Inspector comments from site a	ssessment		
List any further actions that may	y ho needed:		
No further action required	y be needed.		

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Energy source not in building Results Consumption Unit of Measure kg firm invoices/delivery notes are for this building location Inspect generator or other diesel consuming equipment Inspect storage facilities Confirm refilling rules Results Consumption Unit of Measure kg Annual Consumption Value (Raw) O Mil/per unit of measure O.O Confirm refilling rules KWh per Annum O
Results Consumption Unit of Measure kg firm invoices/delivery notes are for this building location Consumption Unit of Measure kg Inspect generator or other diesel consuming equipment Inspect storage facilities Results Consumption Unit of Measure kg Mnual Consumption Value (Raw) Output Output
Results Consumption Unit of Measure kg firm invoices/delivery notes are for this building location Consumption Unit of Measure kg invoices/delivery notes are for the Year of Assessment Annual Consumption Value (Raw) O Inspect generator or other diesel consuming equipment Inspect storage facilities GJ per annum O
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onfirm invoices/delivery notes are for this building location Consumption Unit of Measure kg firm invoices/delivery notes are for the Year of Assessment Annual Consumption Value (Raw) O Inspect generator or other diesel consuming equipment Inspect storage facilities GJ per annum O
firm 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
Inspect generator or other diesel consuming equipment MIJ/ per unit of measure 0.0 Inspect storage facilities GJ per annum 0
Inspect storage facilities GJ per annum 0
•
Confirm refilling rules kWh per Annum 0

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Report Date	03 November 2022
RMS EPC Inspector:	Lee Ferreira

Certification Name:	University of Johannesburg_APB Great Hall		
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 O
	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 method	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

tore Rooms	Garages/Basement Parking	
lot applicable	Yes, the floor plan shows all the parking areas	
utside Areas	Net Floor Area Report Findings	
. The floor plan does not show all the outside areas	Construction Area:	3
	Store Rooms Total	
	Outside Areas Total	
	Parking Area Total	
	Vertical Elements	
	Excluded Areas Total	
	Net Floor Area	3
	Excluded Area %	

Load Type	Qty	Wattage	Hours/Week	Wh/Week	Wks/Yr	kWh/Ye
			84			-
						-
						-
						-
						-
						-
						-
						-
						-
						-
						-
						-
			Fundamental Association	Malh man Vaar		
			Excluded Areas Total			
			Excluded Area Energy	as % or 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
RMS EPC Inspector: Lee Ferreira

Certification I	Name:

University of Johannesburg_APB Great Hall

Building Details

<u> </u>
Building Name APB Great Hall
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)	151 092
Grid Electricity (kWh):	145 048
Solar PV Electricity (kWh):	0
Diesel Fuel (kWh):	6 044
Gas (kWh):	0
Solid Fuel (kWh):	0
Export Energy (kWh):	0

Building Energy Performance

Energy per Unadjusted Net Floor Area (kWh/m2.annum):	47
Energy per Adjusted Net Floor Area (kWh/m2.annum):	47

Building Performance

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

Additional Information

Rating G: energy performance >= 1.7Ereference

Additional information		
	No of floors (excl parking):	4
	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 Great Hall

Net Floor Area

Total Net Floor Area	3 214
Excluded Area	236
Excluded Area % of Total	7%

Excluded Area Energy Consumption

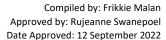
zwiadca / ii ca zwieß / companipation				
Total Excluded Area Energy Consumption (kWh)	0			
Net Energy = Total Energy - Exclusions = 151 092 - 0				
Equals (kWh)	151 092			
Excluded Area Energy as % of Total	0%			

Building EPC Calculcation

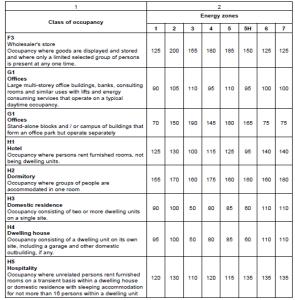
75
-28
0.63
С

Signature: Client









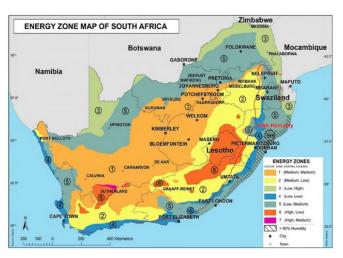


Table 1 — Maximum annual energy consumption per building classification for each energy zone (kWh/m²/a) (Energy zones as shown in figure 1 and annex C)

1				:	2			
Class of annuary	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