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

Inspection Report Date: 03 November 2022

RMS EPC Inspector: Nikhil Noidoo

Client Information			Building Lo	cation			
Company Name: Uni	iversity of Johanr	nesburg		Address 1	326 Chris Hai	ni Road, Soweto	,
Building Name: Ade		J.					
				City	Johannesbur	q	
					Gauteng	3	
					Cautering		
Client Representative			Building In	formation (from S	ANS 10400->	KA:2021)	
Name: Ma	asala Mbambeleli	i		Energy Zone		1	
Contact Number: (07	78) 667 1760			Occupancy Class	:	A3	
E-mail Address: mm	nasala@uj.ac.za		Reference	Energy Consumption		110	
Building Assessment Planning				*from	SANS10400	0-XA : 2021	
Has the Inspector identified the person				rname of the person v the site inspection:	vho represented	d the property	
who will assist the Inspector during the assessment?		Yes	Masala Mban	beleli			•
				Date 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	
Assessment Method Statement with the Building Representative? Has the Inspector confirmed the site Health & Safety arrangements?		Yes No					
	Method Statemer	nt was shared		etails on Health and S considerations apply	afety considera	tions	
Shared by Nikhil Naidoo to the client rep			General H&S	considerations apply	afety considera	tions	
Shared by Nikhil Naidoo to the client rep Confirmation by Building Representat Year of Assessment Start		2021/01/01	Building O	perations Assessment:			
chared by Nikhil Naidoo to the client rep Confirmation by Building Representat Year of Assessment Start			Building O	considerations apply perations Assessment: e or Multiple Tenants		Single	
hared by Nikhil Naidoo to the client rep Confirmation by Building Representat fear of Assessment Start fear of Assessment End		2021/01/01	Building O During the Year of Single Confirm E	considerations apply perations Assessment: e or Multiple Tenants; uilding Occupancy (%			
hared by Nikhil Naidoo to the client rep Confirmation by Building Representat ear of Assessment Start ear of Assessment End		2021/01/01	Building O During the Year of Single Confirm B	perations Assessment: e or Multiple Tenants; uilding Occupancy (%		Single 100%	hours/week
hared by Nikhil Naidoo to the client rep Confirmation by Building Representat ear of Assessment Start ear of Assessment End Energy Carriers Uring the Year of Assessment:	tive:	2021/01/01 2021/12/31	Building O During the Year of Single Confirm B Building O	considerations apply perations Assessment: e or Multiple Tenants; uilding Occupancy (% perating Hours	End	Single 100% hours/day	hours/week
hared by Nikhil Naidoo to the client rep Confirmation by Building Representat fear of Assessment Start fear of Assessment End Energy Carriers uring the Year of Assessment:	tive:	2021/01/01 2021/12/31	Building O During the Year of Single Confirm B Building O Sta	considerations apply considerations Assessment: e or Multiple Tenants; uilding Occupancy (% coerating Hours rt 07:00:00	End 18:00:00	Single 100% hours/day	44
hared by Nikhil Naidoo to the client rep Confirmation by Building Representat ear of Assessment Start ear of Assessment End Inergy Carriers United the building use grid support to the building use grid support to the building use sola	tive: plied electricity? ar PV electricity?	2021/01/01 2021/12/31 Yes No	Building O During the Year of Single Confirm B Building O Sta Mon to Thurs Fridays	considerations apply considerations Assessment: e or Multiple Tenants: uilding Occupancy (% coerating Hours d 07:00:00	End 18:00:00 18:00:00	Single 100% hours/day 11 11	44 11
hared by Nikhil Naidoo to the client rep Confirmation by Building Representat ear of Assessment Start ear of Assessment End Inergy Carriers Did the building use grid supp Did the building use sola	plied electricity? ar PV electricity? suse diesel fuel?	2021/01/01 2021/12/31 Yes No Yes	Building O During the Year of Single Confirm B Building O Sta Mon to Thurs Fridays Saturdays	considerations apply considerations Assessment: e or Multiple Tenants: uilding Occupancy (% coerating Hours a 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 Representat Year of Assessment Start Year of Assessment End Energy Carriers Did the building use grid supp Did the building use sola Did the building	plied electricity? ar PV electricity? guse diesel fuel? puilding use gas?	2021/01/01 2021/12/31 Yes No Yes	Building O During the Year of Single Confirm B Building O Sta Mon to Thurs Fridays	considerations apply considerations Assessment: e or Multiple Tenants: uilding Occupancy (% coerating Hours d 07:00:00	End 18:00:00 18:00:00	Single 100% hours/day 11 11 0 0	44 11 0 0
Confirmation by Building Representat (ear of Assessment Start (ear of Assessment End Energy Carriers Did the building use grid supp Did the building use sola Did the building use sola Did the building use any solid:	plied electricity? ar PV electricity? guse diesel fuel? pullding use gas? fuel for energy?	2021/01/01 2021/12/31 Yes No Yes No No	Building O During the Year of Single Confirm B Building O Sta Mon to Thurs Fridays Saturdays	considerations apply considerations Assessment: e or Multiple Tenants: uilding Occupancy (% coerating Hours a 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 Representat (ear of Assessment Start (ear of Assessment End Energy Carriers Did the building use grid supp Did the building use sola Did the building use sola Did the building use any solid Was energy exported fro	plied electricity? ar PV electricity? use diesel fuel? unidding use gas? fuel for energy? om the building?	2021/01/01 2021/12/31 Yes No Yes	Building O During the Year of Single Confirm B Building O Sta Mon to Thurs Fridays Saturdays Sundays	considerations apply considerations Assessment: e or Multiple Tenants: uilding Occupancy (% coerating Hours a 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 Representat (ear of Assessment Start (ear of Assessment End Energy Carriers Did the building use grid supp Did the building use sola Did the building use sola Did the building use any solid Was energy exported fro	plied electricity? ar PV electricity? g use diesel fuel? building use gas? fuel for energy? om the building?	2021/01/01 2021/12/31 Yes No Yes No No	Building O During the Year of Single Confirm B Building O Sta Mon to Thurs Fridays Saturdays Sundays	considerations apply considerations Assessment: e or Multiple Tenantsi uilding Occupancy (% corrating Hours rt 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 Representat Fear of Assessment Start Fear of Assessment End Energy Carriers Furing the Year of Assessment: Did the building use grid supp Did the building use sola Did the building use sola Did the building use any solid Was energy exported fro	plied electricity? ar PV electricity? g use diesel fuel? building use gas? fuel for energy? om the building?	2021/01/01 2021/12/31 Yes No Yes No No No	Building O During the Year of Single Confirm B Building O Sta Mon to Thurs Fridays Saturdays Sundays Any furthe	considerations apply considerations Assessment: e or Multiple Tenantsi uilding Occupancy (% corrating Hours rt 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 Representat Year of Assessment Start Year of Assessment End Energy Carriers During the Year of Assessment: Did the building use grid supp Did the building use sola Did the building use sola Did the building use any solid Was energy exported fro Net Floor Area (are these on the plans	plied electricity? ar PV electricity? guse diesel fuel? building use gas? fuel for energy? om the building? S?) ar of assessment	2021/01/01 2021/12/31 Yes No Yes No No No	Building O During the Year of Single Confirm B Building O Sta Mon to Thurs Fridays Saturdays Sundays Any furthe	considerations apply considerations Assessment: e or Multiple Tenantsi uilding Occupancy (% corrating Hours rt 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 sola Did the building Did the b Did the building use any solid Was energy exported fro Net Floor Area (are these on the plans) Building layout during the year	plied electricity? ar PV electricity? guse diesel fuel? building use gas? fuel for energy? om the building? S?) ar of assessment Store rooms?	2021/01/01 2021/12/31 Yes No Yes No No No Yes Yes	Building O During the Year of Single Confirm B Building O Sta Mon to Thurs Fridays Saturdays Sundays Any furthe	considerations apply considerations Assessment: e or Multiple Tenantsi uilding Occupancy (% corrating Hours rt 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

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kWh
bW/b
b\Wh
kW/h
KVVII
97 108
97 108

03 November 2022

List any further actions that may be needed:	
No further action required	

RMS_REC_7.4 ISO/IEC 17020: 2012 Clause 7.4 RECORD Inspection Report Compiled by: Frikkie Malan Approved by: Rujeanne Swanepoel Date Approved: 12 September 2022

 Rev No: v05r00

 Report Date
 03 November 2022

 RMS EPC Inspector:
 Nikhii Naidoo

Results Consumption Unit of Measure	
Consumption Unit of Measure	
	kWh
Annual Consumption Value (Raw)	C
kWh per Annum	(
	nsitivity analysis to have no impact on the building grade.

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

Report Date 03 November 2022
RMS EPC Inspector: Nikhil Naidoo

Certification Name:	University of Johannesburg_Adelaide Taml	00		
Energy Carrier: Diesel Fuel				
Consumption Source Data	Another source			
			<u> </u>	
	Validations Checks		Results	
	Confirm invoices/delivery notes are for this building location	No	Consumption Unit of Measure	kWh
	Confirm invoices/delivery notes are for the Year of Assessment	No	Annual Consumption Value (Raw)	4 046
	Inspect generator or other diesel consuming equipment	Yes	MJ/ per unit of measure	39
	Inspect diesel storage facilities	Yes	GJ per annum	156
	Confirm diesel refilling rules	Yes	kWh per Annum	4 046
Inspector comments from site a	ssessment			
No diesel genset found by site				
List any further actions that may	y be needed:			
No further action required				

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Report Date	03 November 2022
RMS EPC Inspector:	Nikhil Naidoo

	Certification Name:	University of Johannesburg_Adelaide Tambo		
Additations Checks Confirm Invoices/delivery notes are for this building location Confirm Invoices/delivery notes are for this building location Confirm Invoices/delivery notes are for the Year of Assessment Annual Consumption Unit of Measure Annual Consumptio	Energy Carrier: Gas			
Additations Checks Confirm Invoices/delivery notes are for this building location Confirm Invoices/delivery notes are for this building location Confirm Invoices/delivery notes are for the Year of Assessment Annual Consumption Unit of Measure Annual Consumptio				
Confirm invoices/delivery notes are for the Vear of Assessment Consumption Unit of Measure Annual Consumption Unit of Measure Annual Consumption Value (Raw) O Inspect gas storage facilities Gi per annum O Confirm gas refilling rules Describe any other validation methods used Inspect or comments from site assessment	Consumption Source Data	Energy source not in building		
Confirm invoices/delivery notes are for the Vear of Assessment Consumption Unit of Measure Annual Consumption Unit of Measure Annual Consumption Value (Raw) O Inspect gas storage facilities Gi per annum O Confirm gas refilling rules Describe any other validation methods used Inspect or comments from site assessment				
Confirm invoices/delivery notes are for the Vear of Assessment Consumption Unit of Measure Annual Consumption Unit of Measure Annual Consumption Value (Raw) O Inspect gas storage facilities Gi per annum O Confirm gas refilling rules Describe any other validation methods used Inspect or comments from site assessment				
Confirm Invokes/delivery notes are for the Year of Assessment Inspect gas consuming equipment Inspect gas storage facilities Confirm gas refilling rules Confirm gas refilling rules Describe any other validation methods used Inspect or comments from site assessment Inspector comments from site assessment Inspector comments from site assessment Inspector comments from site assessment	Validations Checks		Results	
Inspect gas consuming equipment MJ/per unit of measure 46.1 Inspect gas storage facilities Gi per annum 0 Confirm gas refilling rules WWh per Annum 0 Describe any other validation methods used Inspect gas consuming equipment MJ/per unit of measure 46.1 Inspect gas storage facilities Gi per annum 0 WWh per Annum 0 Describe any other validation methods used		Confirm invoices/delivery notes are for this building location	Consumption Unit of Measure	kWH
Inspect gas storage facilities GJ per annum O Confirm gas refilling rules kWh per Annum O Describe any other validation methods used Inspector comments from site assessment List any further actions that may be needed:		Confirm invoices/delivery notes are for the Year of Assessment	Annual Consumption Value (Raw)	0
Confirm gas refilling rules Describe any other validation methods used Inspector comments from site assessment List any further actions that may be needed:		Inspect gas consuming equipment	MJ/ per unit of measure	46.1
Describe any other validation methods used Inspector comments from site assessment List any further actions that may be needed:		Inspect gas storage facilities	GJ per annum	0
nspector comments from site assessment List any further actions that may be needed:		Confirm gas refilling rules	kWh per Annum	0
ist any further actions that may be needed:	Jescribe any other validation me	tnoas usea		
ist any further actions that may be needed:				
ist any further actions that may be needed:				
ist any further actions that may be needed:				
ist any further actions that may be needed:				
ist any further actions that may be needed:				
ist any further actions that may be needed:				
ist any further actions that may be needed:				
	Inspector comments from site as:	sessment		
	•			
No further action required		be needed:		
	No further action required			

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

Report Date 03 November 2022
RMS EPC Inspector: Nikhil Naidoo

Confirm invoices/delivery notes are for the Year of Assessment Annual Consumption Value (Raw) Inspect generator or other diesel consuming equipment MI/ per unit of measure O. Inspect storage facilities GJ per annum	Certification Name:	University of Johannesburg_Adelaide Tambo		
Validations Checks Confirm invoice/delivery notes are for this building location Consumption Unit of Measure Annual Consumption Value (Raw) Inspect generator or other diesel consuming equipment Inspect storage facilities Confirm refilling rules Confirm refilling rules Describe any other validation methods used Inspector comments from site assessment List any further actions that may be needed:	Energy Carrier: Solid Fuel			
Confirm involces/delivery notes are for this building location Consumption Unit of Measure Roman Inspect generator or other diesel consuming equipment Inspect storage facilities Confirm refilling rules Confirm refilling rules Describe any other validation methods used List any further actions that may be needed:	Consumption Source Data	Energy source not in building		
Confirm involces/delivery notes are for this building location Consumption Unit of Measure Roman Inspect generator or other diesel consuming equipment Inspect storage facilities Confirm refilling rules Confirm refilling rules Describe any other validation methods used List any further actions that may be needed:			-	
Confirm invoices/delivery notes are for the Year of Assessment Inspect generator or other diesel consuming equipment Inspect storage facilities Confirm refilling rules Confirm refilling rules Describe any other validation methods used Inspector comments from site assessment List any further actions that may be needed:	Validations Checks			
Inspect generator or other diesel consuming equipment Inspect storage facilities Confirm refilling rules Confirm refilling rules Describe any other validation methods used Inspector comments from site assessment List any further actions that may be needed:				kg
Inspect storage facilities Confirm refilling rules Describe any other validation methods used Inspector comments from site assessment List any further actions that may be needed:				0
Describe any other validation methods used Inspector comments from site assessment List any further actions that may be needed:		Inspect generator or other diesel consuming equipment	MJ/ per unit of measure	0.0
Describe any other validation methods used Inspector comments from site assessment List any further actions that may be needed:		Inspect storage facilities	GJ per annum	0
Inspector comments from site assessment List any further actions that may be needed:		Confirm refilling rules	kWh per Annum	0
	Inspector comments from site assess	ment		
	List any further actions that may be n	needed.		
		leeueu.		
	no farther action required			

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Report Date	03 November 2022
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Certification Name:	University of Johannesburg_Adelaide Tambo		
Energy Carrier: Export Energy			
Consumption Source Data	Energy source not in building		
- Consumption Course Data	3,		
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
	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	ls used		
Inspector comments from site assessr	ment		
List any further actions that may be n	eeded:		
No further action required			

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ore Rooms	Garages/Basement Parking	
ot applicable	Yes, the floor plan shows all the parking areas	
tside Areas	Net Floor Area Report Findings	
o. The floor plan does not show all the outside areas	Construction Area:	1
	Store Rooms Total	
	Outside Areas Total	
	Parking Area Total	
	Vertical Elements	
	Excluded Areas Total	
	Net Floor Area	1
	Excluded Area %	(

Load Type	Qty	Wattage	Hours/Week	Wh/Week	Wks/Yr	kWh/Yea
big recessed circle	0	16	84	-	-	
square wall light	14	10	84	11 760	-	61
lantern pole	0	50	84	-	-	
small LED flood	6	20	84	10 080	-	52
LED street light with v	3	25	84	6 300	-	32
double 1 ft LED	2	18	84	3 024	-	15
big cylinder light	0	12	84	-	-	
circular wall light	0	10	84	-	-	
2-globe cannister	0	12	84	-	-	
small recessed circle					-	
					-	
					-	
	ı	L	Excluded Areas Total	kWh per Year	1	1 62
			Excluded Area Energy	•		2

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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University of Johannesburg_Adelaide Tambo

Building Details

Certification Name:

Building Name Adelaide Tambo
Energy Zone 1
Reference Energy Consumption (kWh/m2.annum) 110
Year of Assessment Start 01 January 2021
Year of Assessment End 31 December 2021

Occupancy Class A3
Occupancy Rate 100%

Energy Carriers

Total Energy Consumption (kWh)	101 154
Grid Electricity (kWh):	97 108
Solar PV Electricity (kWh):	0
Diesel Fuel (kWh):	4 046
Gas (kWh):	0
Solid Fuel (kWh):	0
Export Energy (kWh):	0

Building Energy Performance

Energy per Unadjusted Net Floor Area (kWh/m2.annum):	66
Energy per Adjusted Net Floor Area (kWh/m2.annum):	66

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

Net Floor Area

Total Net Floor Area	1 504
Excluded Area	0
Excluded Area % of Total	0%

Excluded Area Energy Consumption

Excluded Area Elierby consumption						
Total Excluded Area Energy Consumption (kWh)	1 621					
Net Energy = Total Energy - Exclusions = 101 154 - 1 621						
Equals (kWh)	99 534					
Excluded Area Energy as % of Total	2%					

Building EPC Calculcation

building EPC Calculcation	
Reference Energy (kWh/m2.annum):	110
(from SANS 10400-XA:2021)	
Variance = 66 - 110	
Equals (kWh/m2.annum):	-44
Actual/Reference Energy = 66 / 110	
Equals:	0.60
Provisional Building Rating:	С

Additional Information

No of floors (excl parking):	2
Year of Construction: >2 years	
Year of Renovation: Within th	e past 2 years
Date of Approved Plans: >2 years	
Cadastral (Erf no) Info: MANOR I	MP1&2 11KV WOODLANDS DRIVE

Signature: Inspector

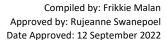
Rating G: energy performance >= 1.7Ereference

Inspection Report Date: 03 November 2022

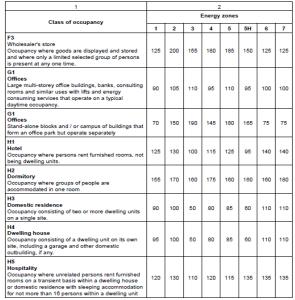
Certification Name: University of Johannesburg_Adelaide Tambo

Signature: Client









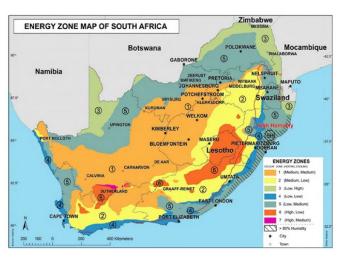


Table 1 — Maximum annual energy consumption per building classification for each energy zone (kWh/m²/a) (Energy zones as shown in figure 1 and annex C)

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