ANNEXURE C2.2 – PRICING SCHEDULE / BILL OF QUANTITIES

RW10392896/25R

THE PRICING SCHEDULE

Based on Annexure B and proposed solution design for Rand Water Note: Excluding VAT and in ZAR

PUBLIC CLOUD

INFRASTRUCTURE as a Service

		I	PRIMARY - PRODU	CTION - Resource	S		
Resource	Quantity	Year 1	Year 2	Year 3	Year 4	Year 5	Total Cost (5 years)
Production VMs	124						
TOTAL							

Table 1

		HIGH	AVAILABILITY - PF	RODUCTION - Reso	ources		
Resource	Quantity	Year 1	Year 2	Year 3	Year 4	Year 5	Total Cost (5 years)
Critical VMs	39						
TOTAL							

			DEVELOPMENT A	ND QA - Resources	3		
Resource	Quantity	Year 1	Year 2	Year 3	Year 4	Year 5	Total Cost (5 years)
Development VMs	26						
Quality and Assurance VMs	18						
TOTAL							

Table 3

BACKUP as a Service

BACKUP - Storage						
Resource	Year 1	Year 2	Year 3	Year 4	Year 5	Total Cost (5 years)
Production (critical and non-critical)						
Development						
Quality and Assurance						
TOTAL						

Table 4

Disaster Recovery as a Service

		DISAS	STER RECOVERY - St	torage		
Resource	Year 1	Year 2	Year 3	Year 4	Year 5	Total Cost (5 years)

Production (Critical and non-critical)			
Development			
Quality and Assurance			
DR Drill (Quarterly)			
TOTAL			

Table 5

NETWORK

Networking							
Resource	Quantity	Unit Cost	Total cost (per year)	Total Cost (5 years)			
Redundant 5GE Physical links (Fibre)	2						
Ports	2						
Cross connect		2					
Public Cloud network data charge	es (between Availability Zones)	1GB		Null			
Ingress		1GB		Null			
Egress		1GB		Null			
		•	·	·			
TOTAL							

Security

Security - Services						
Resource	Year 1	Year 2	Year 3	Year 4	Year 5	Total Cost (5 years)
Asset Security, Host Security, Web Application Security. etc						
TOTAL						

Table 7

Software

Virtualization and licences

		VIRTUALIZA	ATION – Software				
Item	Specification	Unit	Quantity	Unit Cost	Total Cost (5 years)		
Cloud Foundation Virtualization Platform	Cloud Virtualization License	Per Package					
Unified Cloud Management Platform	Unified Cloud Management Platform License	Per Package					
Windows Licenses				Rand Water to pro	vide		
Unix Linux Licenses				Rand Water to provide			
Client Access Licenses (CALs)		3500					
Additional software licences							
	•			<u>.</u>			
TOTAL							

FROM PRIVATE CLOUD

Backup

Excluding licences

			BACKUP - Storage			
Resource	Year 1	Year 2	Year 3	Year 4	Year 5	Total Cost (5 years)
Cloud Backup Storage (From On-premises to Public Cloud)						
Reporting (Monthly)						
TOTAL			Toble 0			

Table 9

Disaster Recovery

Excluding licences

DISASTER RECOVERY - Storage							
Resource	Year 1	Year 2	Year 3	Year 4	Year 5	Total Cost (5 years)	
Cloud Backup Storage (From On-premises to Public Cloud)							
DR Drill (Quarterly)							

PRIVATE CLOUD

Hardware

All pricing must make include 5 years maintenance

SERVERS - Hardware								
Item	Specification	Unit	Quantity	Unit Cost	Total Cost (5 years)			
Network Node	2*24 Core CPU, 16*32 GB Memory, 1 Raid card, 2 Riser card	Per device	3					
Management Node	2*24 Core CPU, 24*32 GB Memory, 1 Raid card, 1 Riser card	Per device	7					
Compute Node	2*24 Core CPU, 8*32 GB Memory, 1 Raid card, 2 Riser card	Per device	16					
Additional Servers								

STORAGE - Hardware						
Item	Specification	Unit	Quantity	Unit Cost	Total Cost (5 years)	
Product Distributed Storage	3.84TB SSD SAS Disk*12	Per device	3			
Additional storage						

	NETWORK - Hardware					
Item	Specification	Unit	Quantity	Unit Cost	Total Cost (5 years)	
Network Leaf	48*10G SFP+, 6*100G QSFP28	Per device	2			
Compute/ Storage Node Leaf	48*10G SFP+, 6*100G QSFP28	Per device	2			
External access TOR	48*10G SFP+, 6*100G QSFP28	Per device	2			
Management Leaf	48*10G SFP+, 6*100G QSFP28	Per device	2			
Management Firewall	8*GE COMBO + 4*GE RJ45 + 10*10GE SFP	Per device	2			
Core Switch	64-Port 100GE QSFP28	Per device	2			
BMC switch	48*GE RJ45, 4*10GE SFP	Per device	2			
Compute Node	2*24 Core CPU, 8*32 GB Memory, 1 Raid card, 2 Riser card	Per device	16			

Software

Virtualization and licences

VIRTUALIZATION – Software							
Item	Specification	Unit	Quantity	Unit Cost	Total Cost (5 years)		
Cloud Foundation Platform	Cloud Virtualization License	Per Package					
Unified Cloud Management Platform	Unified Cloud Management Platform License	Per Package					
Windows Licenses	Windows Licenses			Rand Water to provide			
Unix Linux Licenses			Rand Water to provide				
Client Access Licenses (CALs)		300					
Additional software licences							
	•		•	·	•		
TOTAL							

Table 14

Backup

Software. This exclude public cloud storage

BACKUP - Software								
Item	Specification	Quantity	Year 1	Year 2	Year 3	Year 4	Year 5	Total Cost (5 years)
Cloud Backup (From On- premises to Public Cloud)	Cloud Backup Software							
Reporting (Monthly)		12						
TOTAL								

Disaster Recovery

Software. This exclude public cloud storage

DISASTER RECOVERY - Software								
Item	Specification	Quantity	Year 1	Year 2	Year 3	Year 4	Year 5	Total Cost (5 years)
Cloud Disaster Recovery Service (From On- premises to Public Cloud)	Disaster Recovery Software							
TOTAL								

Table 16

Security

			Security - So	ftware		
Item	Year 1	Year 2	Year 3	Year 4	Year 5	Total Cost (5 years)
Asset Security, Host Security, Web Application Security. etc						
TOTAL						

Professional services

Platform operations, Infrastructure and Environment Support

Service	Specification	Year 1	Year 2	Year 3	Year 4	Year 5	Total cost (5 Years)
Public Cloud	Enterprise						
Private Cloud	Enterprise						
Additional support							
TOTAL							

Table 18

Implementation, Design and Delivery

			Total Cost
Public Cloud	Cloud Migration Tools	Once-off	
	VM & Data Migration Implementation	Once-off	
	Training	10 Rand Water engineers	
	Design, Planning, Implementation of Public Cloud	Once-off	
Additional Service			
	<u> </u>		
Private Cloud	Cloud Migration Tools	Once-off	
	VM & Data Migration Implementation	Once-off	
	Training & Certification	10 Rand Water engineer	
	Design, Planning, Implementation of Private Cloud	Once-off	
Additional Services			
TOTAL			

THE PRICING SCHEDULE SUMMARY

Total Cost (5 years)

Item	Table	Pricing Descriptions	ZAR Total Price excl. VAT
	1	Primary Production	
	2	High Availability - Production	
	3	Development and QA	
PUBLIC CLOUD	4	Backup as a Service	
	5	Disaster Recovery as a Service	
	6	Network	
	7	Security	
	8	Virtualization and Licences	
Fueluding licenses	9	Backup	
Excluding licences	10	Disaster Recovery	
Total			
	11	Servers	
	12	Storage	
	13	Network	
PRIVATE CLOUD	14	Virtualization and Licences	
	15	Backup	
	16	Disaster Recovery	
	17	Security	
Total	•		
Professional services	18	Platform Operations, Infrastructure and Environment Support	
F TOTESSIONAL SETVICES	19	Implementation, Design and Delivery	
Total		Additional/Adhoc	
Sub-Total Cost. Excl VAT (5	years)		
VAT			
Total Cost. Incl VAT (5	years)		