

	SCOPE OF WORK Group Information Technology	Template Identifier	240-IT042	Rev	1
		Effective Date	April 2023		
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Description of Request	Data Center, Server Room and PMDC support and maintenance contract for a period of 5 years
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1. High level background

Data Center, Server Room and PMDC are made-up of all the necessary components used to host network connectivity, cooling, power, and racks.

At a high level, a typical Data Center, Server Room and PMDC is made up of a cooling system, power management, environmental management systems, access control systems and monitoring systems.

These components will required regular maintenance, repairs and support. This document aims to describe the scope of work that is involved.

2. Scope of work

The maintenance and support contract for Data Center, Server Room and PMDC will supply, maintain and support all Data Center, Server Room and PMDC components, including but not limited to:

- Provide and execute maintenance routines in accordance with best practise and/or OEM (original equipment manufacturer) requirements
- Ensure the Data Center, Server Room and PMDC components deliver an optimum operation and system availability to Eskom. This will be applicable to the to all Eskom Data Center and Server Room components, including (but not limited to):
 - Static UPS Units, Generators, Indoor AC units - CRACs / FCUs and Comfort Cooling, Chillers / Cooling towers & Circulation Pumps, Fresh air fans, Exhaust fans and Motorised Fire dampers, TRANSFORMERS, MV Switch gear, LV switch gear incl. ATSSs, Electrical Distribution Boards, PDUs, Fire systems - detection and suppression (Gas and Sprinkler), Room Integrity testing, Hydrostatic testing – GAS cylinder, Infrared scanning, Bulk fuel storage System, BMS Service / Software Updates / Flood Sensor Testing, Lighting Protection, , Raised/Access floor, Plumbing and General Facility, whitespace and plants).
- **Monthly maintenance:** Generators (and fuel system), UPS & batteries, HVAC (all types including chiller system) and all other electrical distribution system, Housekeeping (vermin, whitespace and plant cleaning pest and weed control), container shelter, and extremal security lights (where applicable. Report anything that appears out of the ordinary. Refill fuel on an as and when required basis.
- **Quarterly maintenance:** As per monthly service and fire detection and suppression. Report anything that appears out of the ordinary.

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- **Every six months maintenance:** as per monthly and quarterly service, and fuel system, security fencing and Transformers. Report anything that appears out of the ordinary.
- The scope of service also includes inspections and services related to relocations of server rooms and reporting services
- The supplier is to Supply and Install on request Data Center, Server Room and PMDC components (non-peripheral components) to ensure effective and efficient Data Centre operations including external elements key to the Data Centre Operation, these repairs will be triggered reports from inspections, service and maintenance by 3rd party, Eskom staff or any service provider tasked to operate in the Data Center and Server Room areas
- Server Provider to onboard Server Rooms in a phased and staggered approach (in other words as and when existing service and maintenance contracts comes to an end).

3. The 4 Regions Clustering

The sites listed in Appendix A will be grouped into clusters. The tenders may tender for one or more clusters; but no single service provider can be appointed on more one cluster. If one service provider bid successful on more than one cluster, then, they will be offered an opportunity to choose the cluster of their choice, and the other cluster will be offered to the next successful bidder.

○ Cluster A

Name	Site Co	Type	Division	Cluster
Acacia	ACP	Server Room	Generation - Peaking	A
Ankerlig	ANP	Server Room	Generation - Peaking	A
Belville 1	BLV	Server Room	Distribution	A
Belville 2	BLV	Server Room	Distribution	A
Durbanville	BLR	Server Room	Generation - Peaking	A
East London	ELN	Server Room	Distribution	A
Gariep	GRP	Server Room	Generation - Peaking	A
Gourikwa	GQP	Server Room	Generation - Peaking	A
Kendal PS	KEP	Server Room	Generation - Coal	A
Menston	?	Server Room	Distribution	A
Palmiet	PYP	Server Room	Generation - Peaking	A
Sere	SRP	Server Room	Generation - Peaking	A

○ Cluster B

Name	Site Co	Type	Division	Cluster
Arnot PS	ARP	Server Room	Generation - Coal	B
Camden PS	CDP	Server Room	Generation - Coal	B
Duvha PS	DVP	Server Room	Generation - Coal	B
Duvha ST	DVP	Server Room	NTCSA	B
Hendrina PS	HEP	Server Room	Generation - Coal	B
Koeberg	KBP	Server Room	Generation - Nuclear	B
Komati PS	KMP	Server Room	Generation - Coal	B
Kriel PS	KRL	Server Room	Generation - Coal	B
Kusile PS	KUP	Server Room	Generation - Coal	B
Majuba PS	MJP	Server Room	Generation - Coal	B
Matla PS	MAP	Server Room	Generation - Coal	B
Tutuka PS	TTP	Server Room	Generation - Coal	B

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○ **Cluster C**

Name	Site Co	Type	Division	Cluster
EAL	EAL	Server Room	Corporate	C
GrootMei PS	GVP	Server Room	Generation - Coal	C
Lethabo PS	LEP	Server Room	Generation - Coal	C
MWP2	MWP	Data Center	Corporate	C
PMDC Middleburg	MDO	PMDC	Generation - Coal	C
PMDC RoteK	ERI	PMDC	Corporate	C
PMDC Simmerpan	SPN	PMDC	Distribution	C
Rosherville (ERIC)	RVL	Server Room	Corporate	C
Simmerpan Dx	SPN	Server Room	Distribution	C
Simmerpan Tx	SPN	Server Room	NTCSA	C
Witbank Network Room	WTK	Server Room	Distribution	C
Witbank Server Room	WTK	Server Room	Distribution	C

○ **Cluster D**

Name	Site Co	Type	Division	Cluster
Blackenbergvlei	KBB	Server Room	Distribution	D
Bloemfontein	BFN	Server Room	Distribution	D
Drakensberg Comms	DRP	Server Room	Generation - Peaking	D
Drakensberg Equipment	DRP	Server Room	Generation - Peaking	D
Ingula	IGP	Server Room	Generation - Peaking	D
Klerksdorp	KDP	Server Room	Distribution	D
Matimba PS	MTP	Server Room	Generation - Coal	D
Medupi PS	MUP	Server Room	Generation - Coal	D
Mkondeni	MKD	Server Room	Distribution	D
New Germany	NGY	Server Room	Distribution	D
PMDC Matimba	MYP?	PMDC	Generation - Coal	D
Polokwane	PGB	Server Room	Distribution	D

4. Safety

- The vendor will be required to provide safety files upon award of the tender and prior to visiting the Eskom sites.

5. System Lifecycle Consideration

- N/A

6. Service Level Agreement requirements

- As per the Service Level Agreement document

7. Approvals:

End user / requestor:	Name:	Wisani Makamu
	Designation:	Middle Manager – Data Center & Server Rooms Hosting Services (Acting)

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Appendix A – Sites List

Name	Site Code	Type	Division	Province	Address	Estimated scheduled maintenance to be carried out per quarter	Estimated scheduled test per quarter	Additional test over and above scheduled tests	Repairs
Belville 1	BLV	Server Room	Distribution	WC	60 Voortrekker St, Belville	1	1	On request	On request
Belville 2	BLV	Server Room	Distribution	WC	60 Voortrekker St, Belville	1	1	On request	On request
East London	ELN	Server Room	Distribution	EC	SOP, Bonza Bay Road, Beacon Bay	1	1	On request	On request
Mkondeni	MKD	Server Room	Distribution	KZN	1 Portland rd, Mkondeni	1	1	On request	On request
Menston		Server Room	Distribution	KZN	3 Menston Rd, Westville	1	1	On request	On request
New Germany	NGY	Server Room	Distribution	KZN	25 Valleyview rd, New Germany	1	1	On request	On request
Bloufontein	BFN	Server Room	Distribution	FS	Eskom Centre, 120 Henry Street, Westdene, Bloufontein	1	1	On request	On request
Polokwane	POB	Server Room	Distribution		30 Hans Van Rensburg Street, Polokwane	1	1	On request	On request
Witbank Server Room	WTK	Server Room	Distribution	MOU	28 Langenhoven St	1	1	On request	On request
Witbank Network Room	WTK	Server Room	Distribution	MOU	28 Langenhoven St	1	1	On request	On request
Klerksdorp	KDP	Server Room	Distribution	NW	22 Golden Avenue, Klerksdorp New Town, Klerksdorp	1	1	On request	On request
Blackenbergdel	KBB	Server Room	Distribution	NC	Cnr Aristote Ave & Hill Street, Kimberley	1	1	On request	On request
Simmerpan Dk	SPN	Server Room	Distribution	GP	Simmerpan Complex Cnr Power & Lake Road, Denlee Germiston 1401	1	1	On request	On request
PMDC Simmerpan	SPN	PMDC	Distribution	GP	Simmerpan Complex Cnr Power & Lake Road, Denlee Germiston 1401	1	1	On request	On request
Simmerpan Tx	SPN	Server Room	NTCSA	GP	Simmerpan Complex Cnr Power & Lake Road, Denlee Germiston 1401	1	1	On request	On request
Duvha ST	DVP	Server Room	NTCSA	MP	Duvha Power Station, old Bethal road, eMalahleni, 1034	1	1	On request	On request
Teraco	TRG	Data Center	Corporate	GP		1	1	On request	On request
MWP2	MWP	Data Center	Corporate	GP	Maxwell Dr, Sunninghill, Sandton, 2157	1	1	On request	On request
PMDC Rotek	ERI	PMDC	Corporate	GP	Lower Germiston Rd, Rossmore, Johannesburg, 2094	1	1	On request	On request
EAL	EAL	Server Room	Corporate	GP	Dale Road P/Bag X13, Midrand, 1665	1	1	On request	On request
Rosherville (ENIC)	REL	Server Room	Corporate	GP	2094, Elandsfontein 107-lr, Johannesburg South	1	1	On request	On request
Durbanville	BLR	Server Room	Generation - Peaking	WC	15 Pisita Street, Rosenpark, Durbanville	1	1	On request	On request
Ankerlig	ANP	Server Room	Generation - Peaking	WC	Ankerlig Power Station, Neil Hare Road, Atlantis	1	1	On request	On request
Palmiet	PIP	Server Room	Generation - Peaking	WC	Palmiet Power Station, Rockview Road, Grabouw	1	1	On request	On request
Gourikwa	GOP	Server Room	Generation - Peaking	WC	Gourikwa Power Station, N2, Mosselbay	1	1	On request	On request
Acacia	ACP	Server Room	Generation - Peaking	WC	Acacia Power Station, Montague Road, Edgemead	1	1	On request	On request
Drakensberg Comms	DIP	Server Room	Generation - Peaking	KZN	Drakensberg Power Stations, Jagersrust/Bergville, KZN	1	1	On request	On request
Drakensberg Equipment	DIP	Server Room	Generation - Peaking	KZN	Drakensberg Power Stations, Jagersrust/Bergville, KZN	1	1	On request	On request
Ingula	IGP	Server Room	Generation - Peaking	KZN	Eskom Ingula Pumped Storage Scheme, Off R103 into P275 (Bester), Lelystad	1	1	On request	On request
Gariep	GIP	Server Room	Generation - Peaking	NP	Gariep Power Station, R701, Gariep Dam	1	1	On request	On request
Sere	SIP	Server Room	Generation - Peaking	WC	Sere Windfarm, Off R363, Lutzville	1	1	On request	On request
Komati PS	KIP	Server Room	Generation - Coal	MP	Komati Power Station	1	1	On request	On request
Kusile PS	KUP	Server Room	Generation - Coal			1	1	On request	On request
Kriel PS	KRL	Server Room	Generation - Coal	MP	Eskom Kriel Power Station, Location: Ogies Road, Kriel	1	1	On request	On request
Malla PS	MIP	Server Room	Generation - Coal	MP	Malla Power Station	1	1	On request	On request
Camden PS	CDP	Server Room	Generation - Coal	MP	Camden Power Station, Piet Retief Road, Nuccam, 2355	1	1	On request	On request
Tutuka PS	TTP	Server Room	Generation - Coal	MP	Tutuka Power Station, Bethal Road, Standerton	1	1	On request	On request
Lethabo PS	LEP	Server Room	Generation - Coal	GP	Lethabo Power Station, Farm 1814, Viljoensdrift, Vereeniging	1	1	On request	On request
Matimba PS	MTP	Server Room	Generation - Coal	LP	Nelson Mandela Dr, Lephalale, 0555	1	1	On request	On request
Medupi PS	MUP	Server Room	Generation - Coal	LP		1	1	On request	On request
Kendal PS	KEP	Server Room	Generation - Coal	MP	Kendal Power Station, R545 Near Ogies	1	1	On request	On request
Grootvlei PS	GVP	Server Room	Generation - Coal	MP	Grootvlei Power Station, Grootvlei, Mpumalanga	1	1	On request	On request
Mandridina PS	MIP	Server Room	Generation - Coal	MP	N11, Volksrust, 2470	1	1	On request	On request
Majuba PS	MJP	Server Room	Generation - Coal	MP	N11, Volksrust, 2470	1	1	On request	On request
Duvha PS	DVP	Server Room	Generation - Coal	MP	Old Bethal Road, eMalahleni, 1034	1	1	On request	On request
Amot PS	AMP	Server Room	Generation - Coal			1	1	On request	On request
Koerberg	KBP	Server Room	Generation - Nuclear	WC		1	1	On request	On request
PMDC Middleburg	MDO	PMDC	Generation - Coal	MP	Middelburg Industrial, 1690	1	1	On request	On request
PMDC Matimba	MIP?	PMDC	Generation - Coal	LP	Nelson Mandela Dr, Lephalale, 0555	1	1	On request	On request
Witbank Server Room						1	1	On request	On request