



BATCH 2: CLARIFICATION QUESTIONS AND ANSWERS

TENDER	FOR THE PROVISION OF PROCUREMENT OF REDUNDANCY AND BACKUP CONNECTIVITY FOR SD-
DESCRIPTION	WAN TRAFFIC FOR A PERIOD OF THREE YEARS ON AS AND WHEN REQUIRED BASIS
RFP NUMBER	TCC/2024/09/0002/76777/RFP

No	CLARIFICATION QUESTIONS	TRANSNET RESPONSE
1.	Kindly Provide us with coordinates For all 50 Sites.	Co-ordinates for all 48 sites on the final list (Updated site_co-ordinates3.xls) have been provided (redundant site names were removed from the list reducing count from initial 50) Refer to Updated Site Coordinates Attached
2	As per 7.2 on Annexure A, how many handoff is expected from Secondary SD WAN equipment per site	To clarify there is only one SD-WAN provider (Cisco equipment owned by Transnet and currently managed/maintained by Data Centrix) that will use as primary the TFR Telecoms provided optical fibre links (via Huawei DWDM, OSI layer 2) and as secondary the "new" backup link (the scope of this RFP)
3	Is Transnet asking for 2 links from the Secondary Service Provider	Transnet is requesting for just one backup link per campus to connect to the SD-WAN edge device there. Availability of 99% required
4	As per 7.3 the Service Provider must procure necessary Optic Fibre Cables; hardware, Software, Licenses and services for Redundancy and Backup Connectivity implementation for all the 49 SD- WAN Sites	This is just a general statement; ownership of all SD-WAN equipment resides with Transnet. No SD-WAN software and licensing required from this RFP's backup link provider
5	How does Transnet want the Secondary the Secondary SD- WAN to handle redundancy failover scenarios	There is/will be only one SD-WAN (Transnet-owned) technology solution that will handle all failover and handover

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No	CLARIFICATION QUESTIONS	TRANSNET RESPONSE
140	CLARIFICATION QUESTIONS	TRANSHET RESPONSE
6	Which Service Provider is expected to deliver	the incumbent SD-WAN service provider will manage load balancing between the primary link
	these requirements, is this expected from the	(TFR-Telecoms provided) and the backup link (as per this RFP).
	current incumbent / Primary SD WAN	
	provider, Load balancing is the function that	
	need to be executed by the Primary Provider	
7	My understanding is that we sre required to	Only one backup link will be required in addition to the TFR primary link, i.e. no tertiary link
	provide a single hand off from CPE to the SD	
	WAN equipment. Our CPE should have 2	
	links to the TFR Primary Link and another	
	acting as tertiary link. Please clarify	
8	As the customer will be using the SD WAN,	Quality of Service will be activated on the SD-WAN tunnels
	Qos should be activated on the SD WAN	
	tunnel instead of the SP's underway network.	
	Transnet to confirm.	
9	Does Transnet have a Secondary SD WAN	Transnet only has one SD-WAN network equipment in place (Cisco) currently managed and
	network equipment in place?	maintained by Data Centrix.
10	how does the current SD WAN devices	Please refer to the diagram below, breakouts at the 3 Terracos
	access controller and breakout to the	
	internet?	



No	CLARIFICATION QUESTIONS	TRANSNET RESPONSE
		Browning TFR L2 Network
		Coo £ Gys Star St
11	Is the Secondary SD WAN Provider expected	There will only be one SD-WAN provider as per network diagram provided
	to take over management of SD WAN	
	management	
12	As per 11.1.2. Achieve uptime 99% for all SD	99% uptime expected per single backup link. Only one backup link per site required for this
	WAN Links. Is this SLA expected on a single	RFP.
	SD WAN?	
13	Kindly advise who owns the current SD WAN	The SD-WAN appliances are owned by Transnet-TCC
	appliances in place?	



No	CLARIFICATION QUESTIONS	TRANSNET RESPONSE
NO	CLARIFICATION QUESTIONS	TRANSHET RESPONSE
14	Which SD WAN technology are you currently	Cisco Viptela using Cisco Catalyst 8500/8300/ISR1100 Series Edge platforms together with
	using?	vManage, vSmart, vBond and vAnalytics. A generic overview provided of Cisco SD-WAN
		solution utilised shown below.
		The Cisco SD-WAN solution is comprised of separate orchestration, management, control, and data plane components as shown in the following figure.
		Orchestration Plane vBond
		Management Plane (Multi-tenant or Dedicated) Wanagement API VManage vSmart
		(Multi-tenant or Dedicated) Orchestration Orchestration Analytics vSmart vBond
		⊕ vBond
		Control Plane (Containers or VMs)
		Control Secure Control Channel
		Data Plane (Physical or Virtual) Data Center Branch Branch Branch
15	Is the ISP required to be in control of the fall	The failover and cutback of the links will be controlled via the SD-WAN
15	over and cutbacks on this links?	The fallover and cutback of the liftks will be controlled via the SD-WAN
1.0		The area of words the old only include all the area in control for the growing.
16	The Service Provider must procure necessary	The scope of work should only include all the requirements for the provision of the single backup
	Optic Fibre Cables; hardware, Software,	link to be plugged into SD-WAN edge device
	Licenses and services for Redundancy and	
	Backup Connectivity implementation for all	
	the 49 SD- WAN Sites.	

No	CLARIFICATION QUESTIONS	TRANSNET RESPONSE
	Door this cult water to the compatibility	
	Does this only refer to the connectivity	
	portion as the S?	
17	Kindly share the KML files for the current	KML files not available to be shared
	architecture	
18	Are Physical survey required before bid	No, physical site surveys not required before bid submission
	Submission	
19	a. Please share coordinates sites and	a. Co-ordinates for final list of 48 campus sites (site_co-oridinates2.xls) have been provided
	provide routes plan for us to be able plan	b. Assume TFR Telecoms provide all primary links
	diversity.	c. Required SLA per backup link is 99%
	b. Please share last miles providers for	
	Primary Links.	
	c. Please advice on the SLA further, RFP	
	states that SLA required is 99%	
20	Kindly provide the bill of quantities.	Requirement is for one backup link per site
21	please clarify if all sites will have 2x CPE's 1	There will be sufficient connection capacity on the SD-WAN edge device for connecting the
	for the current link and 2 for the new	backup link (will replace current TFR Telecoms backup link)
	provider to connect to?	
22	Please can we re-look at the 99.99% Link	Requirement for the backup link is 99% availability, only one backup link per site required.
	SLA, as it would require us to provide dual	
	links to achieve that, meaning Transnet will	
	end up with 3x links per site?	

No	CLARIFICATION QUESTIONS	TRANSNET RESPONSE
23	Are we providing L2 links to the Teraco's	Are we providing L2 links to the Teraco's since there already is internet breakout there or
	since there already is internet breakout there	internet too?
	or internet too?	
24	QoS and Link testing, since this is a SD-WAN	The new SP will have to provide SLA stats on the backup links.
	solution wouldn't the team providing and	The active management including Qos will be done at the SD-WAN equipment level
	managing the SD-WAN look after that and	
	the new service provider to provide stats on	
	the backup links quality of service only?	
25	Can you please share the coordinates for	Co-ordinates for all 48 sites on the final list (Updated Site Coordinates.xls)
	these locations as its not on the updated site	have been provided (redundant site names were removed from the list reducing count from initial 50)
	list.	CO-ORDINATES
	Can you please share the coordinates for	Bayhead (Including Queens WH):
	these locations.	
	Bayhead (Including Queens WH)	13 Bayhead (including Queens WH) 29 84'54.5"S 31 02'15.0"E
26	Thank you for the Decimal GPS, Coordinates	
	for all the sites, as we now need to do hard	Closing Date have been extended from 24 February 2025 to 10 March 2025
	feasibility (Which requires us to engage the	REFER TO THE PUBLISHED ADDENDUM
	various planning teams to confirm the fibre	
	routes) study based on the requirement	
	received from Transnet. We also would like	
	to request for an extension on the above RFP	
	as it takes us approximately 2 weeks to do	
	hard feasibility so that we respond with a	

No	CLARIFICATION QUESTIONS	TRANSNET RESPONSE
	firm pricing as opposed to desktop feasibility	
	which will require site survey during project	
	deployment and might have incremental	
	impact on the pricing	
	impact on the pricing	
27	Kindly note that we have noticed that on the	Refer to the Published Addendum to the RFP: Page on page 28 under Mandatory Returnable
	new amend documentation that on the	And Essential document has since been amended and the amended area is highlighted in RED
	below Annextures it requires correction.	
	Annexure K should be Annexure M	
	That Annexure A - is the Scope of	
	Requirements – fibre and yet under the	
	essential returnable documents it is referred	
	to as ANNEXURE A : Scope of Work SAP	
	Modernisation	
28	Does Transnet require a Backup Connectivity	Yes, that is correct
	solution ONLY in terms of last mile medium	
	with internet access that will plug into	
	Transnet current SD-WAN solution	
29	This is with reference to Annexure A, section	No clear what the question is? But for SLA refer stats or document provided
	10.3. Which includes reference further in the	
	document with regards to SDWAN SLA,	
	Failover, etc.	
30	Can you provide us with the precise co-	Assume the provided GIS co-ordinates
	ordinates, or do we assume for now that we	

No	CLARIFICATION QUESTIONS	TRANSNET RESPONSE
	use these GIS co-ordinates to calculate the	
	cost of the routes	
31	Confirmation that the SD-WAN is Viptela OR	Viptela for SD-WAN,
	Huawei OR a combination of the two	Huawei DWDM for primary link
32	Breakdown of per site, the Cisco devices and	See Table provided below
	Huawei device (Make and Model and	
	Software) deployed at the 49 sites	
33	Confirm SLA - Do Transnet require a Service	Link availability of 99% required: prime goal is to achieve better combined availability and route
	Availability or Site or Link availability	diversity in conjunction with TFR-provided primary link.
34	Fiber link maps, can we please have a copy	Have shared a high-level view of TFR-Telecoms DWDM ring network
	of this fibre design.	
35	Please see attached document based on our	The list have been updated with the best available co-ordinates.
	site survey that we have conducted, the	
	provided co-ordinates is not precise and can	
	result in additional cost post award. (Please	
	see below)	
37	Can you provide more information with	This information is not regarded as relevant as the backup link should be totally independent
	regards the connectivity of the current sites	from the primary link and associated equipment and configuration
	to the OT/DWDM equipment - Interfaces,	
	Speed and Bandwidth	
38	Traffic breakdown per site and breakdown	This level of information is not available
	per services, i.e. Voice, Data and Internet	
	access	

No	CLARIFICATION QUESTIONS	TRANSNET RESPONSE
39	Or, does Transnet require a full SD-Wan	Transnet will supply and manage the SD-WAN (cisco Viptela) network and the primary link
39	,	
	solution with a hub spoke solution, with local	(using DWDM). The scope for this RFP is only the provision of a backup link. No need for
	or HUB internet breakout and an appliance	additional SD-WAN networks or
	to manage the traffic shaping, this is a	
	parallel managed SDWAN network	
40	Can you provide us more detail with regards	LAN equipment are in the process of being renewed: depending on site size following are used
	to the LAN environment (Diagrams, Make	CISCO Catalyst 9136i series, Catalyst 9000 compact 12 port, Catalyst 9300 24/48 ports.
	and Model Type and Software).	Catalyst 9300X 12/24X25 G fiber port switches. Examples of legacy (Almost all End of service)
		equipment being replaced:
41	Can you kindly assist with providing revised	Refer to updated sites coordinates
	coordinates for the below sites as they are	
	incorrect when conducting our feasibility	
	planning	
	Ermelo	
	Empangeni	
	Ladysmith	
	Bayhead (including Queens WH)	
	Heidelberg	
42	Scope of work is defined as in Question	No additional CPE hardware required.
	4:"Please confirm Scope does not include	
	management of any other device other than	
	links" which was answered as:	
	"Only management of the backup links up to	
	connection with the SD-WAN edge device",	

TRANSNET RESPONSE	
rovided for	
roven that its	
e link (i.e. not	

No	CLARIFICATION QUESTIONS	TRANSNET RESPONSE
	Question (c) Can you please clarify this statement.	
45	Question 46 dealing with QoS also refers to failover links in general. Best practice on SDWAN is to run Active/Active, and not Primary/Failover. When running Active/Active, this removes the need for failover testing and failover latency. Question (d) Is the intent of Transnet to run the links as Active/Active, or in a Primary/Failover configuration?	Transnet would like the flexibility of running in either mode (Active/active or Primary/Failover). In the case where active/active mode is selected the failover testing, latency etc methodology can be adjusted accordingly.





CISCO SD-WAN devices installed

Site #		PHYSICAL ADDRESS	SDWAN Devices installed
	RING 1		
1	Newcastle	8 CTC Building, Madadeni Road, Newcastle	2 X ISR1100-4G; 2 X Teltonika
2	Springs	1 Appel Ave, Geduld, Springs	2 X ISR1100-4G; 2 X Teltonika
3	Sentrarand	1 Du Randt Rd, Sentrarand, Benoni	2 X C8300-1N1S-6T; 2 X Teltonika
4	Ermelo	CTC Ermelo - Infra Telecoms Workshop	2 X C8300-1N1S-6T; 2 X Teltonika
5	Vryheid	Side East CTC Building, Hlobane Road Number 2, Vryheid	2 X C8300-1N1S-6T; 2 X Teltonika
6	Ogies	No 1 Main Road, Transnet Building	2 X C8300-1N1S-6T; 2 X Teltonika
7	Standerton	Room 1 Walter Sisulu Road, Standerton Station	2 X ISR1100-4G; 2 X Teltonika
8	Empangeni	1 Station Rd, Empangeni Rail, Empangeni	2 X C8300-1N1S-6T; 2 X Teltonika
9	Richards Bay	Nsezi CTC, Nsezi Rd, Richards Bay	2 X C8300-1N1S-6T; 2 X Teltonika
10	Pietermaritzburg	16 Devenshire Road, Pietermaritzburg	2 X ISR1100-4G; 2 X Teltonika
11	Ladysmith	7 Albert Str, Ladysmith	2 X ISR1100-4G; 2 X Teltonika
12	Durban	Transnet Durban CTC, Stamford Hill, Durban	2 X C8300-1N1S-6T; 2 X Teltonika
13	Bayhead	Loliwe House, 151 South Coast Rd, Rossburgh	2 X C8300-1N1S-6T; 2 X Teltonika
14	Isando	114 Pretoria Rd, Kempton Park	2 X C8300-1N1S-6T; 2 X Teltonika
15	Heidelberg	10 Van Zyl Street, Heidelberg	2 X ISR1100-4G; 2 X Teltonika
16	Esselen Park	Essellen Server Rm, 1st Flr, Church St, Tembisa	2 X C8300-1N1S-6T; 2 X Teltonika
17	Vooruitsig	R23, Vooruitsig train Station	2 X ISR1100-4G; 2 X Teltonika
	RING 2		
18	Kroonstad	01 Sterley St, Kroonstad, 9501, South Africa	2 X C8300-1N1S-6T; 2 X Teltonika
19	Bethlehem	101 Joubert St, Bethlehem, 9701, South Africa	2 X C8300-1N1S-6T; 2 X Teltonika
20	Bloemfontein	2 Harvey Rd, Bloemfontein, Free State	2 X C8300-1N1S-6T; 2 X Teltonika
21	Klerksdorp		2 X C8300-1N1S-6T; 2 X Teltonika
22	Potchefstroom	Stasie Road, Potchefstroom, 2520, South Africa	2 X ISR1100-4G; 2 X Teltonika
23	Langslaagte	103 Pomeroy Ave, Johannesburg, 2092, South Africa	2 X C8300-1N1S-6T; 2 X Teltonika
24	Krugersdorp		2 X ISR1100-4G; 2 X Teltonika
25	Vereeniging	56C Union St, Vereeniging, 1936, South Africa	2 X C8300-1N1S-6T; 2 X Teltonika
26	Germiston	4 Railway Str, Georgetown, Germiston	2 X C8300-1N1S-6T; 2 X Teltonika
27	Johannesburg	JCC, Rissik St, Johannesburg, 2000, South Africa	2 X C8300-1N1S-6T; 2 X Teltonika



28	Kimberley	35 Knight St, Kimberley, 8300, South Africa	2 X C8300-1N1S-6T; 2 X Teltonika
	RING 3	55 Kinghe St, Kimberley, 6500, South Airied	Z X COSOS INIS OT, Z X Telestina
29	Bellville	01 Caledon St, Transnet, Cape Town	2 X C8300-1N1S-6T; 2 X Teltonika
30	Worcester	18 Bains St, Worcester, 6850, South Africa	2 X C8300-1N1S-6T; 2 X Teltonika
31	Saldanha	Fisheagle Rd, Durban, South Africa	2 X C8300-1N1S-6T; 2 X Teltonika
32	Beaufort West	Kerk St, Beaufort West, 6970, South Africa	2 X C8300-1N1S-6T; 2 X Teltonika
33	Cape Town	McDonald Rd, Transnet, Cape Town, 7505, South Africa	2 X C8300-1N1S-6T; 2 X Teltonika
	RING 4		
34	Witbank	2 Langermann St, Emalahleni, 1035, South Africa	2 X C8300-1N1S-6T; 2 X Teltonika
35	Middelburg		2 X C8300-1N1S-6T; 2 X Teltonika
36	Rustenburg		2 X C8300-1N1S-6T; 2 X Teltonika
37	Polokwane	Forssman St, Modimolle, 0510, South Africa	2 X C8300-1N1S-6T; 2 X Teltonika
38	Pretoria North	Ou Warmbadpad Rd, Pretoria, 0110, South Africa	2 X ISR1100-4G; 2 X Teltonika
39	Nelspruit	1 Andrew Str, Nelspruit	2 X C8300-1N1S-6T; 2 X Teltonika
40	Hoedspruit	Klaserie Rd, Hoedspruit, 1380, South Africa	2 X C8300-1N1S-6T; 2 X Teltonika
41	Nzasm	2677 Skietpoort Ave, Pretoria, 0002, South Africa	2 X C8300-1N1S-6T; 2 X Teltonika
42	Pretoria	340 Koos De La Rey St, Pretoria	2 X C8300-1N1S-6T; 2 X Teltonika
43	Koedoespoort	313 Moreleta St, Pretoria, 0184, South Africa	2 X C8300-1N1S-6T; 2 X Teltonika
	RING 5		
44	East London	1A Cambridge St, East London	2 X C8300-1N1S-6T; 2 X Teltonika
45	PE North	Broad Serv Rd, North End, Gqeberha	2 X C8300-1N1S-6T; 2 X Teltonika
46	Noupoort	18 Shaw St, Noupoort, 5950, South Africa	2 X C8300-1N1S-6T; 2 X Teltonika
47	Mossel Bay	40 Bland St, Mossel Bay, 6500, South Africa	2 X C8300-1N1S-6T; 2 X Teltonika