

The Maintenance of CCTV security surveillance system, Access Control System, FSD System, EVAC System and Public Addressing System and the provision of spares on an "as- and- when" required basis at Arnot Power Station for a 60- month period

PART 2: PRICING DATA

TSC3 Option A

Document reference	Title	No of pages
C2.1	Pricing assumptions: Option A	2
C2.2	The <i>price list</i>	[•]

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C2.1 Pricing assumptions: Option A

1. How work is priced and assessed for payment

Clause 11 in NEC3 Term Service Contract (TSC3) core clauses and Option A states:

Identified and defined terms	11 11.2	(12) The Price List is the <i>price list</i> unless later changed in accordance with this contract. (17) The Price for Services Provided to Date is the total of <ul style="list-style-type: none"> • the Price for each lump sum item in the Price List which the <i>Contractor</i> has completed and • where a quantity is stated for an item in the Price List, an amount calculated by multiplying the quantity which the <i>Contractor</i> has completed by the rate. (19) The Prices are the amounts stated in the Price column of the Price List. Where a quantity is stated for an item in the Price List, the Price is calculated by multiplying the quantity by the rate.
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This confirms that Option A is a priced contract where the Prices are derived from a list of items of service which can be priced as lump sums or as expected quantities of service multiplied by a rate or a mix of both.

2. Function of the Price List

Clause 54.1 in Option A states: "Information in the Price List is not Service Information". This confirms that instructions to do work or how it is to be done are not included in the Price List but in the Service Information. This is further confirmed by Clause 20.1 which states, "The *Contractor* Provides the Service in accordance with the Service Information". Hence the *Contractor* does **not** Provide the Service in accordance with the Price List. The Price List is only a pricing document.

3. Link to the *Contractor's* plan

Clause 21.4 states "The *Contractor* provides information which shows how each item description on the Price List relates to the operations on each plan which he submits for acceptance". Hence when compiling the *price list*, the tendering contractor needs to develop his first clause 21.2 plan in such a way that operations shown on it can be priced in the *price list* and result in a satisfactory cash flow in terms of clause 11.2(17).

4. Preparing the *price list*

Before preparing the *price list*, both the *Employer* and tendering contractors should read the TSC3 Guidance Notes pages 14 and 15. In an Option A contract, either Party may have entered items into the *price list* either as a process of offer and acceptance (tendering) or by negotiation depending on the nature of the *service* to be provided. Alternatively the *Employer*, in his Instructions to Tenderers or in a Tender Schedule, may have listed some items that he requires the *Contractor* to include in the *price list* to be prepared and priced by him.

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It is assumed that in preparing or finalising the *price list* the *Contractor*:

- Has taken account of the guidance given in the TSC3 Guidance Notes relevant to Option A;
- Understands the function of the Price List and how work is priced and paid for;
- Is aware of the need to link operations shown in his plan to items shown in the Price List;
- Has listed and priced items in the *price list* which are inclusive of everything necessary and incidental to Providing the Service in accordance with the Service Information, as it was at the time of tender, as well as correct any Defects not caused by an *Employer's* risk;
- Has priced work he decides not to show as a separate item within the Prices or rates of other listed items in order to fulfil the obligation to complete the *service* for the tendered total of the Prices.
- Understands there is no adjustment to items priced as lump sums if the amount, or quantity, of work within that item later turns out to be different to that which the *Contractor* estimated at time of tender. The only basis for a change to the (lump sum) Prices is as a result of a compensation event.

4.1. Format of the *price list*

(From the example given in an Appendix within the TSC3 Guidance Notes)

Entries in the first four columns in the *price list* in section C2.2 are made either by the *Employer* or the tendering contractor.

If the *Contractor* is to be paid an amount for the item which is not adjusted if the quantity of work in the item changes, the tendering contractor enters the amount in the Price column only, the Unit, Expected Quantity and Rate columns being left blank.

If the *Contractor* is to be paid an amount for an item of work which is the rate for the work multiplied by the quantity completed, the tendering contractor enters the rate which is then multiplied by the Expected Quantity to produce the Price, which is also entered.

If the *Contractor* is to be paid a Price for an item proportional to the length of time for which a service is provided, a unit of time is stated in the Unit column and the expected length of time (as a quantity of the stated units of time) is stated in the Expected Quantity column.

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C2.2 the *price list*

Item nr	Description	Unit	Expected Quantity for 5 years	Rate	Price
1	Site establishment (1 (one) office to accommodate the team)	Ea.	1		
2	Site de-establishment	Ea.	1		
3	Monthly Maintenance of the systems (Refer to foot note at the bottom of the pricelist)	Ea.	60		
4	<u>Safety requirements</u>				
	2-piece overalls (fire retardant)	Yearly	5		
	Hard hats	Yearly	5		
	Safety shoes	Yearly	5		
	Ear protection	Yearly	5		
	Googles	Yearly	5		
	Gloves	Yearly	5		
	Medicals	Yearly	5		
	Safety file – 1 st year	Yearly	1		
	Safety file – 2 nd – 5 th years	Yearly	4		
5	Fire testing – every six (6) months Fire system smoke emitters for system certification to comply with NFPA and SANS	Ea.	10		
6	Systems software update Operating software, product software upgrades and updates of annual licences	Yearly	5		
7	Tools and equipment (Electrician toolboxes & testers)	Ea.	4		
8	Travelling (shall be within an 80km radius with a return trip of 160km around Arnot), only for call out purposes	Km	52800		
9	<u>Overtime: (Saturdays and during the weekdays) Calculated @ 1.5</u>				

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	Technicians x 2	HR	1200		
	Senior Technicians x 2	HR	1200		
10	<u>Overtime: (Sunday and public holidays) Calculated @ 2</u>				
	Senior Technicians x 2	HR	1200		
	Technicians x 2	HR	1200		
11	Training of Eskom personnel on access control and surveillance systems (operator training) includes system operation literature per day session with instruction and evaluation of 2 operators (On job training)	Day	30		
12	Service of mechanical booms	Day	5		
13	Splicing optic including ODTR reports	Ea.	5		
14	<u>Perimeter cameras & detection spares</u>				
	384 x 288mm micro bolometer with athermilized 60mm lens, bnc video output, 12V DC power, ip56 Mild steel -810E housing & pole mounted	Ea.	15		
	Thermal camera communication cable harness Mil spec with amphanol connector, 15m, shielded	Ea.	4		
	220VAC surge protection	Ea.	8		
	Ground loop transformer – isolation video cable	Ea.	25		
	Video intrusion detection unit with 1 x audio and 1 x video channels, MPEG 4, CIF resolution	Ea.	16		
	Video intrusion detection unit with 1 x video channels, MPEG 4, CIF resolution	Ea.	4		
	4 channel video analytic unit rack mount, 220V mains fed	Ea.	4		
	8 port layer- 12VDC, smart managed field switch	Ea.	6		
	NUK for thermal image cameras	Ea.	25		
	Outdoor battery pack – 12VDC with built in surge protection provides 24 hours discharge time load dependant		6		
	12V Battery – 18Ah	Ea.	70		
	12V Battery – 7Ah	Ea.	35		

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15	<u>Audio intrusion system spares</u>				
	30W Reflex horn speaker for wide frequency response	Ea.	3		
	30W Desk Top Amplifier	Ea.	3		
16	<u>PT Thermal cameras spares</u>				
	Outdoor ready thermal network camera, IP66-rated, 640 x 480 resolution, 8.33 fps, and 9° angle of view. It supports ONVIF, PT heads, H.264, audio, local storage, I/O, PoE, tampering alarm, includes PT Head_and PSU	Ea.	4		
	Field hardened 3KVA UPS with a special battery back 24hour discharge time	Ea.	4		
17	<u>CCD Static Cameras spares</u>				
	High resolution ½ inch black / white camera with 10 – 40mm video drive lens	Ea.	4		
	Day/night vandal resistant mini dome camera 550TV lines resolution, 3.5-8mm lens	Ea.	5		
	1 channel field standalone encoder	Ea.	4		
	Four channel blade cards with PTZ control	Ea.	3		
	Four channel field standalone encoder	Ea.	6		
	Media convertor set RX and TX	Ea.	6		
18	<u>Dome cameras spares</u>				
	Day/ night 470TV lines 3.5 -129mm lens, 37 x optical zoom, 24Vac, IP66	Ea.	3		
19	<u>Control Equipment spares</u>				
	CCTV keyboard for latitude NVMS	Ea.	3		
	48 port layer 3 managed switch 10G	Ea.	4		
	Output IP module, 12 I/P and 8 O/P	Ea.	3		
	Exchange XE1 IP server for max of 552 points	Ea.	3		
	Master station IP desk vandal resistant	Ea.	3		
	Substation IP kit	Ea.	4		
20	<u>Types of Servers</u>				
	Latitude 1U Primary server with mirrored OS and no internal storage. Hot plug NL-SAS HDD.	Ea.	4		

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	Dual, hot-plug PS IDRAC7 express SM, includes OS optimization for Latitude application. Latitude software purchased separately				
	Latitude video wall workstation (very high end) with quad monitor support (quad DVI-D connectors). includes OS optimization for Latitude application. Latitude software purchased separately	Ea.	4		
	Latitude client workstation (high end) with dual monitor support (dual DVI-D connectors). includes OS optimization for Latitude application. Latitude software purchased separately	Ea.	4		
	Network video recorder (NVR) latitude 1U SMB Elite server with 16TB RAID -5 storage (12TB usable) Hot-plug NL-SAS HDD. Single cabled PS basic embedded SM, includes OS optimization for Latitude application. Latitude software purchased separately	Ea.	2		
	24" LCD monitor	Ea.	4		
	42" industrial LCD monitors, surveillance room video wall, 24/7/365	Ea.	4		
21	<u>Access control spares</u>				
	Card reader controller – TCP/IP ready, includes power supply unit	Ea.	6		
	HID proxpoint 50-75mm read range	Ea.	12		
	No touch free exit button	Ea.	12		
	Resettable Fire Glass Break Detector (GBD/R)	Ea.	12		
	Heavy duty door closure	Ea.	12		
	300Kg Magna lock with quick mount bracket	Ea.	12		
	12VDC 3Amp power supply unit including a 7A/h battery, surge suppression & mains monitoring (AV1/D/12Ah)	Ea.	8		
	iClass access clamshell Prox cards – next sequence in range supplied	Ea.	12000		
	Printer	Ea.	4		
	Direct to cartridge	Ea.	40		
	Card sticky backs	Ea.	12000		
	Cleaning kit needed at every 2 nd cartridge change to increase printer lifespan	Ea.	45		
	Card reader gooseneck stainless steel	Ea.	16		

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	Boom arms 4m	Ea.	14		
22	<u>VSFD System spares</u>				
	Layer 3 Full Gigabit managed switch, 12_slot	Ea.	3		
	Gigabit Ethernet interface module 4 port 100/1000 BaseT (X), SM	No	3		
	Gigabit Ethernet interface module 4 port 100/1000 BaseT (X), MM	No.	3		
	SFP + module with 1 10 Gbase - LR 10km, LC, 0 to 60 Deg.	No.	4		
	Small Form Factor pluggable transceiver with 1000 BaseLX, LC connector, 10Km	No.	10		
	Layer 2 Full Gigabit managed switch, 20 x 10/100/1000 BaseT (X) ports, 4 x 10/100/1000/10000 BaseT ports	No.	3		
	Managed Gigabit Ether switch, 3 x 10/100 BaseT (X) ports, 4 POE 10/100 BaseT (x) ports and 3 x 10/100/1000 ports	No.	2		
	Industrial switch Gigabit managed, 7 x 10/100 BaseT (X) and 3 SFP	No.	4		
	Industrial switch Gigabit managed, 7 x 10/100 BaseT (X), 1 x 10/100/1000 BaseT (TX) and 2 SFP	No.	4		
	Industrial switch Gigabit managed, 16 x 10/100 BaseT (X), 2 x Combo 10/100/1000 BaseT (TX)	No.	4		
	Industrial switch Gigabit managed, 4 x 10/100/1000 BaseT (X), 5 x 10/100/1000 BaseT (TX)	No.	4		
	Remote Ethernet I/O, 16 DO, 2 Port switch	No.	4		
	Remote Ethernet I/O, 16 DI, 2 Port switch	No.	4		
	NVR Server (Very High End) with mirrored OS drives and 6000GB raw (5400GB usable) RAID-5 configured internal storage. Includes OS optimization for Fire Detection application.	No.	4		
	Client Workstation (Very High End) with quad monitor support (quad DVI-D connectors). Includes OS optimization for Fire Detection application.	No.	2		
	Video analytic (Fire Detection Camera), Lens, Camera polymer housing side opening and wall mount Bracket	No.	25		
VARIO White-light 12v DC or 24V DC, Illuminator, including 4 lens options.	No.	16			

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	White-light 12v DC or 24V DC, Illuminator, intrinsically Safe (Battery Room).	No.	4		
23	<u>Evac, PA system spares</u>				
	2 Channel power amp @ 120W RMS per channel	No.	2		
	Emergency PSU	No.	4		
	PSU Frame	No.	4		
	Dual PSU Module	No.	4		
	6W Flush Mount-Fire Res, Ceiling Speaker (Firedome, Ceramic Terminals and thermal fuse).	No.	14		
	10W Reflex Horn Speaker foe wide_Frequency Response (100V Ver).	No.	14		
	Power Amp input module	No.	14		
	4 Channel power amp @ 60W RMS per Ch.	No.	8		
	Audio input Unit	No.	2		
	Audio output Unit	No.	4		
	System Manager	No.	1		
	Recording Interface	No.	1		
	IP Master Station	No.	1		
	Microphone/Line Input Module for D-901 Digital Mixer with XLR connectors	No.	1		
	12V DC 65 A/H Batteries	No.	8		
	AC Adapter for N-8500MS and N-8540DS	No.	2		
SX-2000CO, Control Output Unit	No.	2			

The total of the Prices

Notes:

- Item 3 on the pricelist (Monthly Maintenance of the systems All the rates and prices will be assumed to be fully inclusive of everything necessary (such as correct labour rates, allowances, bonus, annual and sick leave, etc) to provide the service as described at the time of entering into this contract.
- The supplier is responsible to determine and appoint enough resources as deemed fit to provide the service on this contract as per scope of work
- Please note that you are obliged to meet the monthly cost obligation including payment of salaries for your employees and equipment, and that no work stoppages will happen due to unpaid employees