TENDER NUMBER: TNPA/2023/08/0004/38114/RFP

REQUEST FOR PROPOSAL (RFP) FOR THE PROVISION OF ELECTRICAL EQUIPMENT, SERVICING, MAINTENANCE, REPAIRS, INSPECTION AND CERTIFICATION OF ELECTRICAL COMPONENTS AND SYSTEMS ON-BOARD MARINE CRAFTS FOR THE EIGHT (8) COMMERCIAL PORTS OF TRANSNET NATIONAL PORTS AUTHORITY (TNPA) FOR A PERIOD OF THREE (3) YEARS ON AN "AS AND WHEN REQUIRED" BASIS.

ADDENDUM NO.1

DATED: 13 May 2024

1. AMENDMENTS ON THE RFP:

1.1. The following information is furnished in addition to, in amplification and substitution of, matters contained in the tender documents issued in respect of the abovementioned work.

1.1.1. Section 1- Tender Notice and Invitation to tender.

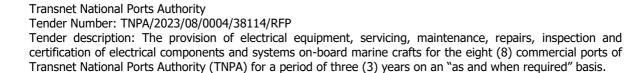
Tender Closing date has been extended from **24 May 2024** at 16:00 to **31 May 2024** at 16:00

Initial Bill of Quantities	Revised Bill of Quantities	
Section C: Cost per service.	Changed Cost per service to Rate per	
Western Region - Section C1	Hour for the below sections. Section C:	
Central Region - Section C2	Service rates	
• Eastern Region - Section C3	Western Region - Section C1	
	Central Region - Section C2	
	• Eastern Region - Section C3	
	Added additional information to the below as	
	requested by a bidder. Section B1	
	Equipment List, Item 1.1.2 General	
	lighting and connection points.	
	• Western Region - Section B1, 1.1.2	
	• Central Region - Section B2, 1.1.2	
	• Eastern Region - Section B3, 1.1.2	

1.1.2. ANNEXURE D1-D3: BILL OF QUANTITIES

NB: Respondents are to note that the initial RFP documents *Section 1-Tender Notice and Invitation to tender, Annexure D1-D3-Bill of Quantities,* are superseded and replaced with the revised information/documents provided and attached to this addendum.





Authorised signatory for and on behalf of Transnet, and the tenderer who warrants that He is duly authorised to sign this First Addendum.

TRANSNET SOC LTD 1

TENDERER

1. _____

TRANSNEF

Authorised signatory for and on behalf of Transnet, and the tenderer who warrants that he is witness to sign this First Addendum.

AS WITNESSES:

TRANSNET SOC LTD

1. S. Mweli

AS WITNESSES:

TENDERER

1._____



TO: Transnet National Ports Authority

Dear Sir / Madam

TENDER NUMBER: TNPA/2023/08/0004/38114/RFP

Receipt of Addendum No. 1 dated 13 May 2024 is hereby acknowledged.

Kind regards

TENDERER

NOTE: This acknowledgement must be signed and returned to this office on or before closing date of tender.

ANNEXURE D.1: WESTERN REGION

TITLE/BOQ: THE REPAIR, SERVICING, AND INSPECTION OF ELECTRICAL SYSTEMS AND COMPONENTS ON-BOARD MARINE CRAFTS ON AN 'AS AND WHEN REQUIRED' BASIS TO EIGHT (8) PORTS OF TRANSNET NATIONAL PORTS AUTHORITY, FOR A PERIOD OF THREE (3) YEARS

1. BILL OF QUANTITIES

SECTION B1: EQUIPMENT LIST MARINE CRAFT

SECTION C1: SERVICE RATES

SECTION B1: EQUI	SECTION B1: EQUIPMENT LIST WESTERN REGION				
SECTION B1: EQUI	PMENT LIST MARINE CRAFT				
ITEM	DESCRIPTION	Quantity	Price per Unit	Total	
1.1.1	Navigation lights and fittings				
1.1.1.1	Port Side Navigation Light - DHR 112.5° red left side navigation light. Version with base. Light bulb included OS1422001 24V - 25W. Made of black polycarbonate and stainless steel. Equipped with vertical filament bulb. Also type-tested for Marina Mercantile (Merchant Marine). OPTIONAL wall bracket kit OS1141810.	1			
1.1.1.2	Starboard Side Navigation Light - White housing. Meets I.M.O. Specifications (international regulations for prevention of collisions at sea, colreg '72). For boats of less than 20 metres in length. In order to comply with the I.M.O. regulations, each navigation light type 35 requires a special focussed 25 W bulb, type LAMP1225 (12V) or LAMP2425 (24V)				
1.1.1.3	Mast Head Navigation Light - 24V 25W Marine LED Masthead Light Marine Waterproof LED Combo Masthead Deck Light. Low Power Consumption LED: This LED mast light consumes only 25W of power, the bright LED bulb.				
1.1.1.4	Anchor Navigation Light - All-Round Anchor Navigation	1			
1.1.1.5	Search Light - DHR light adjustable from inside 24V 185mm	1			
1.1.1.6	Flood lights - 220v led, 400w	1			
1.1.1.7	Flood lights - 220v led, 600w	1			
1.1.1.8	Flood lights - 220v led, 900w,	1			
1.1.1.9	Flood lights - 220v led, 1200w	1			
1.1.2	General lighting and connection points				
1.1.2.1	Light - 220v led: e27 bulb, cool white, 15w, 220v 1				
1.1.2.2	Light - 2 foot flourescent (normal or led): cool white, 25w, 220v 1				
1.1.2.3	Light - 4 foot flourescent (normal or led): cool white, 25w, 220v 1				
1.1.2.4	Light - Edison screw(E27): e27 bulb, cool white, 25w, 220v 1				
1.1.2.5	Light - Bayonet(b22D): cool white, 25w, 220v 1				
1.1.2.6	Light - Stik led/stick lights: e27 tube, cool white, 25w, 220v 1				
1.1.2.7	Engine room lights - 20 Watts, 24VDC LED Lights: e27, cool white, 20w, 24v	1			
1.1.2.8	Emergency lighting - 24v Downlight fitting: GU10, cool white, 5w, 24v	1			

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1.1.3	Plug sockets		
1.1.3.1	Single 3 prong - 220v	1	
1.1.3.2	Double 3 prong - 220v	1	
1.1.3.3	Waterproof 380v plug sockets	1	
1.1.3.4	Double Industrial Switched Socket: Material: Steel, Working Voltage: AC100-240V ~ 50/60H. Dimensions: 6cm(L) x 12.5cm(W) x 13cm(H)	1	
1.1.4	Batteries		
1.1.4.1	Battery chargers-The battery charger is a fully automatic charger for 24V batteries and accepts any mains supply that delivers 90-265 V AC, with frequencies ranging from 45 to 65 Hz. It also accepts DC supply, ranging from 90 up to 400 V DC	1	
1.1.4.2	Batteries -Communication, starting and emergency battery-105Ah 12 volt. Deep cycle battery. Operating temperature 18°C to 52°C	1	
1.1.4.3	Batteries - Deep cycle battery 205 Ah. 12 volt	1	
1.1.5	Shore Supply		
1.1.5.1	Shore supply plug - 125A (amp) 4 pin, Earth pin positioned at 6 hour,380 - 415V (volt), 3 phase, Red colour coding, Dimensions: (L)295 x (Diameter)125mm	1	
1.1.5.2	Shore supply cable-20m, 5 core, 125 Amp - The cable used is 35mm 5core H07RN F Double insulated, Ethylene Propylene Rubber, flexible cable designed to withstand; the weather, oils/greases, mechanical and thermal stresses.	1	
1.1.6	Motors - 220~240V or 380v - Speeds and voltage vary depending on motor		
1.1.6.1	<1 Kw, 3 phase motor - Voltage: 220~240V 4 Pole = 1400rpm rated for 50/60hz	1	
1.1.6.2	1 Kw, 3 phase motor - Speed: +-2900 Voltage:380v frequency:50hz IP 44	1	
1.1.6.3	2 Kw, 3 phase motor - Speed: +-2900 Voltage:380v frequency:50hz IP 55 B3 foot mount	1	
1.1.6.4	3 Kw, 3 phase motor - Speed: +-970 Voltage:380v frequency:50hz IP 55 B3 foot moun	1	

	4 Kw, 3 phase motor - Speed: +-2900		
1.1.6.5	Voltage: 380v	1	
1.1.0.5	frequency:50hz	1	
	IP 55		
	B3 foot mount		
	5 Kw, 3 phase motor - Speed: +-2895		
1.1.6.6	Voltage:400v	1	
	frequency:50hz		
	6 Kw, 3 phase motor - Speed: +- 2900		
	Voltage:380v		
1.1.6.7	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B5 foot mount		
	7 Kw, 3 phase motor - Speed: +- 2900		
	Voltage:380v		
1.1.6.8	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B5 foot mount		
	8 Kw, 3 phase motor - +- 2900		
	Voltage:380v		
1.1.6.9	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B5 foot mount		
	9 Kw, 3 phase motor - +- 2900		
	Voltage:380v		
1.1.6.10	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B5 foot mount		
	10 Kw, 3 phase motor - +- 2900		
	Voltage:380v		
1.1.6.11	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B5 foot mount		
	11 Kw, 3 phase motor - +- 2900		
	Voltage:380v		
1.1.6.12	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B5 foot mount		

	12 Kw, 3 phase motor - +- 2900		
	Voltage:380v		
1.1.6.13	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B5 foot mount		
	13 Kw, 3 phase motor - +- 2900		
	Voltage:380v		
1.1.6.14	frequency:50hz	1	
	IP rating: IP 55		
	Mount: B5 foot mount		
	14 Kw, 3 phase motor - +- 2900		
	Voltage:380v		
1.1.6.15	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B5 foot mount		
	15 Kw, 3 phase motor - Speed: +- 2900		
	Voltage:380v		
1.1.6.16	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B5 foot mount		
	16 Kw, 3 phase motor - +- 735		
	Voltage:380v		
1.1.6.17	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B3 foot mount		
	17 Kw, 3 phase motor - +- 735		
	Voltage:380v		
1.1.6.18	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B3 foot mount		
	18 Kw, 3 phase motor - +- 735		
	Voltage:380v		
1.1.6.19	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B3 foot mount		

	19 Kw, 3 phase motor - +- 735			
	Voltage: 380v			
1.1.6.20	frequency:50hz	1		
	IP rating:IP 55			
	Mount: B3 foot mount			
	20 Kw, 3 phase motor - +- 735			
	Voltage: 380v			
1.1.6.21	frequency:50hz	1		
	IP rating:IP 55			
	Mount: B3 foot mount			
	21 Kw, 3 phase motor - +- 735			
	Voltage: 380v			
1.1.6.22	frequency:50hz	1		
	IP rating:IP 55			
	Mount: B3 foot mount			
	22 Kw, 3 phase motor - Speed: +- 735			
	Voltage: 380v			
1.1.6.23	frequency:50hz	1		
	IP rating:IP 55			
	Mount: B3 foot mount			
1.1.7	Switchboard/ distribution panel components			
1.1.7.1	24 VOLT Consumers panel	1		
1.1.7.2	220 VOLT Consumers panel	1		
1.1.7.3	380 VOLT Consumers panel			
1.1.8	Fans			
	Main engine room fans - Aerofoil Axial flow, Type: 1000JM			
	kW: 4.5/14.0RPM: 975/1470			
1.1.8.1	Hz/Ph: 50/3	1		
1.1.0.1	Pitch: 28/B	1		
	V: Delta – 380V			
	A: 11.61(Star) /29.5 (Delta)			
1.1.8.2	Inline extractor fans - 220v Inline 100mm, extractor fan Ranging from 200m3/hr to	1		
	2210m3/hr	-		
1.1.8.3	Inline extractor fans - 220v Inline 150m extractor fan	1		
1.1.8.4	Inline extractor fans - 220v Inline 200mm extractor fan	1		
1.1.8.5	Inline extractor fans - 220v Inline 250mm extractor fan 1			
1.1.8.6	Inline extractor fans - 220v Inline 315mm extractor fan 1			
1.1.9	Miscellaneous			
	Emergency Stops - mushroom pushbutton, 22 mm, round, metal, red, 40 mm, positive			
1.1.9.1	latching, according to EN ISO 13850, rotate-to-unlatch, without yellow backing plate, with	1		
	holder, 1 NC, screw terminal			
1.1.9.2	Electric geysers - 150I, SANS 151 approved.			
1.1.9.3	Electrical cables - Marine grade (per metre)	1		
	Sub-Total for SECTION B1: EQUIPMENT LIST MARIN	E CRAFT car	rried to Final Summary	

SECTION C1: SERVICE RATES WESTERN REGION						
SECTION C1.1: A	SECTION C1.1: Annual service of batteries and battery chargers					
Port	Vessel	Quantity	Rate per Hour	Total		
Cape Town C1.1.1						
C1.1.1.1	Usiba tugboat	1				
C1.1.1.2	Merlot tugboat	1				
C1.1.1.3	Enseleni tugboat	1				
C1.1.1.4	Umbilo tugboat	1				
C1.1.1.5	Plover pilot boat	1				
C1.1.1.6	Bishop pilot boat	1				
C1.1.1.7	Kestrel workboat	1				
C1.1.1.8	Blue Jay workboat	1				
C1.1.1.9	Koester launch	1				
C1.1.1.10	Kite launch	1				
C1.1.1.11	Adhoc Vessel	1				
		Sub T	otal of section C1.1.1			
Saldanha C1.1.2						
C1.1.2.1	Osprey tugboat	1				
C1.1.2.2	Cormarant tugboat	1				
C1.1.2.3	Jutten tugboat	1				
C1.1.2.4	Chardonnay tugboat	1				
C1.1.2.5	Avocet pilot boat	1				
C1.1.2.6	Crested Tern workboat	1				
C1.1.2.7	Adhoc Vessel	1				
		Sub T	otal of section C1.1.2			
Mossel Bay C1.1.3						
C1.1.3.1	Artic Tern workboat	1				
C1.1.3.2	Snipe launch	1				
C1.1.3.3	Adhoc Vessel	1				
			otal of section C1.1.3			
		TOTAL SECTION C1.1 carried forw	ard to Final Summary			

SECTION C1.2:	Annual service of Distribution boards, shore supply	r, transformers, switchgear and electrical wiring
Cape Town C1.	<u>2.1</u>	
C1.2.1.1	Usiba tugboat	1
C1.2.1.2	Merlot tugboat	1
C1.2.1.3	Enseleni tugboat	1
C1.2.1.4	Umbilo tugboat	1
C1.2.1.5	Plover pilot boat	1
C1.2.1.6	Bishop pilot boat	1
C1.2.1.7	Kestrel workboat	1
C1.2.1.8	Blue Jay workboat	1
C1.2.1.9	Koester launch	1
C1.2.1.10	Kite launch	1
C1.2.1.11	Adhoc Vessel	1
		Sub Total of section C1.2.1
Saldanha C1.2.	<u>2</u>	
C1.2.2.1	Osprey tugboat	1
C1.2.2.2	Cormarant tugboat	1
C1.2.2.3	Jutten tugboat	1
C1.2.2.4	Chardonnay tugboat	1
C1.2.2.5	Avocet pilot boat	1
C1.2.2.6	Crested Tern workboat	1
C1.2.2.7	Adhoc Vessel	1
		Sub Total of section C1.2.2
Mossel Bay C1.	<u>2.3</u>	
C1.2.3.1	Artic Tern workboat	1
C1.2.3.2	Snipe launch	1
C1.2.3.3	Adhoc Vessel	1
		Sub Total of section C1.2.3
		TOTAL SECTION C1.2 carried forward to Final Summary

SECTION C 1.3	Annual Service of Pump motors and fans(inc	uding megger testing when required)
Cape Town C1.	<u>3.1</u>	
C1.3.1.1	Usiba tugboat	1
C1.3.1.2	Merlot tugboat	1
C1.3.1.3	Enseleni tugboat	1
C1.3.1.4	Umbilo tugboat	1
C1.3.1.5	Plover pilot boat	1
C1.3.1.6	Bishop pilot boat	1
C1.3.1.7	Kestrel workboat	1
C1.3.1.8	Blue Jay workboat	1
C1.3.1.9	Koester launch	1
C1.3.1.10	Kite launch	1
C1.3.1.11	Adhoc Vessel	1
		Sub Total of section C1.3.1
Saldanha C1.3.	2	
C1.3.2.1	Osprey tugboat	1
C1.3.2.2	Cormarant tugboat	1
C1.3.2.3	Jutten tugboat	1
C1.3.2.4	Chardonnay tugboat	
C1.3.2.5	Avocet pilot boat	1
C1.3.2.6	Crested Tern workboat	1
C1.3.2.7	Adhoc Vessel	1
		Sub Total of section C1.3.2
Mossel Bay C1	<u>3.3</u>	
C1.3.3.1	Artic Tern workboat	1
C1.3.3.2	Snipe launch	1
C1.3.3.3	Adhoc Vessel	1
		Sub Total of section C1.3.3
		TOTAL SECTION C1.3 carried forward to Final Summary

SECTION C1.4:	Annual Service of Alternators, air compress	ors and pre-heaters		
Cape Town C1.4	<u>4.1</u>			
C1.4.1.1	Usiba tugboat	1		
C1.4.1.2	Merlot tugboat	1		
C1.4.1.3	Enseleni tugboat	1		
C1.4.1.4	Umbilo tugboat	1		
C1.4.1.5	Plover pilot boat	1		
C1.4.1.6	Bishop pilot boat	1		
C1.4.1.7	Kestrel workboat	1		
C1.4.1.8	Blue Jay workboat	1		
C1.4.1.9	Koester launch	1		
C1.4.1.10	Kite launch	1		
C1.4.1.11	Adhoc Vessel	1		
		Si	ib Total of section C1.4.	1
Saldanha C1.4.	2			
C1.4.2.1	Osprey tugboat	1		
C1.4.2.2	Cormarant tugboat	1		
C1.4.2.3	Jutten tugboat	1		
C1.4.2.4	Chardonnay tugboat	1		
C1.4.2.5	Avocet pilot boat	1		
C1.4.2.6	Crested Tern workboat	1		
C1.4.2.7	Adhoc Vessel	1		
		Su	b Total of section C1.4.2	2
Mossel Bay C1.4	<u>4.3</u>			
C1.4.3.1	Artic Tern workboat	1		
C1.4.3.2	Snipe launch	1		
C1.4.3.3	Adhoc Vessel	1		
			b Total of section C1.4.3	
		TOTAL SECTION C1.4 carried fo	rward to Final Summary	/

SECTION C 1.	5 Annual Service of electrical wiring, plug sockets, lig	ht fixtures and bulbs (including insulation te	sts conducted or	n a 4 year cycle)
Cape Town C1.	<u>5.1</u>			
C1.5.1.1	Usiba tugboat	1		
C1.5.1.2	Merlot tugboat	1		
C1.5.1.3	Enseleni tugboat	1		
C1.5.1.4	Umbilo tugboat	1		
C1.5.1.5	Plover pilot boat	1		
C1.5.1.6	Bishop pilot boat	1		
C1.5.1.7	Kestrel workboat	1		
C1.5.1.8	Blue Jay workboat	1		
C1.5.1.9	Koester launch	1		
C1.5.1.10	Kite launch	1		
C1.5.1.11	Adhoc Vessel	1		
			Sub Total of secti	ion C1.5.1
Saldanha C1.5	2			
C1.5.2.1	Osprey tugboat	1		
C1.5.2.2	Cormarant tugboat	1		
C1.5.2.3	Jutten tugboat	1		
C1.5.2.4	Chardonnay tugboat	1		
C1.5.2.5	Avocet pilot boat	1		
C1.5.2.6	Crested Tern workboat	1		
C1.5.2.7	Adhoc Vessel	1		
		9	Sub Total of secti	ion C1.5.2
Mossel Bay C1.	5.3			
C1.5.3.1	Artic Tern workboat	1		
C1.5.3.2	Snipe launch	1		
C1.5.3.3	Adhoc Vessel	1		
			ub Total of section	
		TOTAL SECTION C1.5 carried f	orward to Final S	Summary

SECTION C 1. 6	Adhoc fault finding, maintenance, repairs an	l replacements
Cape Town C1.	6. <u>1</u>	
C1.6.1.1	Usiba tugboat	1
C1.6.1.2	Merlot tugboat	1
C1.6.1.3	Enseleni tugboat	1
C1.6.1.4	Umbilo tugboat	1
C1.6.1.5	Plover pilot boat	1
C1.6.1.6	Bishop pilot boat	1
C1.6.1.7	Kestrel workboat	1
C1.6.1.8	Blue Jay workboat	1
C1.6.1.9	Koester launch	1
C1.6.1.10	Kite launch	1
C1.6.1.11	Adhoc Vessel	1
		Sub Total of section C1.6.1
Saldanha C1.6.	2	
C1.6.2.1	Osprey tugboat	1
C1.6.2.2	Cormarant tugboat	1
C1.6.2.3	Jutten tugboat	1
C1.6.2.4	Chardonnay tugboat	1
C1.6.2.5	Avocet pilot boat	1
C1.6.2.6	Crested Tern workboat	1
C1.6.2.7	Adhoc Vessel	1
		Sub Total of section C1.6.2
Mossel Bay C1.	<u>6.3</u>	
C1.6.3.1	Artic Tern workboat	1
C1.6.3.2	Snipe launch	1
C1.6.3.3	Adhoc Vessel	1
		Sub Total of section C1.6.3
		TOTAL SECTION C1.6 carried forward to Final Summary

	FINAL SUMMARY TABLE		Total
Total brought forward f	rom SECTION B1: EQUIPMENT LIST MARINE CRAFT		
Total brought forward f electrical wiring	rom SECTION C1.1: Annual service of Distribution boards, shore supply, transformers, switchgear and		
Total brought forward f	rom SECTION C1.2: Annual Service of Pump motors and fans(incl megger testing when required)		
Total brought forward f	rom SECTION C1.3: Annual Service of Alternators, air compressors and pre-heaters		
Total brought forward f bulbs	rom SECTION C1.4: Insulation tests and Annual Service of electrical wiring, plug sockets, light fixtures a	nd	
Total brought forward f insulation test conducte	rom SECTION C1.5: Annual Service of electrical wiring, plug sockets, light fixtures and bulbs (including ed on a 4 year cycle)		
Total brought forward f	rom SECTION C1.6: Adhoc fault finding, maintenance, repairs and replacements		
	Total carried forward to MULTI-YEAR PRICING TABLE WESTERN REGI	ON	
	MULTI-YEAR PRICING TABLE - EASTERN REGION	CPI	TOTAL
	= (YR1 Total costs) BROUGHT FORWARD FROM FINAL SUMMARY TABLE	0	
	= (YR1 total cost X CPI adjustment)	4.5	
	= (YR2 total cost XCPI adjustment)	4.4	
TOTAL EXCL. VAT			
15% VAT			
TOTAL INCL. VAT			
	Notes to the Multi- Year Pricing Table:		
1	The first year of the contract will not be subject to price escalation		
2	Tendered rates will be subject to escslation from year 2 onwards		
3	Tendered rates will be adjusted annually based on the actual escalation indices published by Stats SA.		
4	The formula for adjustment and the method of adjustment is set out in more detail in the tender document		
5	The "CPI" figures provided in the "Multi-Year Pricing Table" above are forward projections from the Bureau for Economic Research and are used as an estimate in able to obtain a total price over the contract term.		

ANNEXURE D.2: CENTRAL REGION

TITLE/BOQ: THE REPAIR, SERVICING, AND INSPECTION OF ELECTRICAL SYSTEMS AND COMPONENTS ON-BOARD MARINE CRAFTS ON AN 'AS AND WHEN REQUIRED' BASIS TO EIGHT (8) PORTS OF TRANSNET NATIONAL PORTS AUTHORITY, FOR A PERIOD OF THREE (3) YEARS

1. BILL OF QUANTITIES

SECTION B2: EQUIPMENT LIST MARINE CRAFT

SECTION C2: SERVICE RATES

FION B2: EQUIPMENT LIST WESTERN REGION FION B2: EQUIPMENT LIST MARINE CRAFT				
ITEM	DESCRIPTION	Quantity	Price per Unit	Total
1.1.1	Navigation lights and fittings			
1.1.1.1	Port Side Navigation Light - DHR 112.5° red left side navigation light. Version with base. Light bulb included OS1422001 24V - 25W. Made of black polycarbonate and stainless steel. Equipped with vertical filament bulb. Also type-tested for Marina Mercantile (Merchant Marine). OPTIONAL wall bracket kit OS1141810.			
1.1.1.2	Starboard Side Navigation Light - White housing. Meets I.M.O. Specifications (international regulations for prevention of collisions at sea, colreg '72). For boats of less than 20 metres in length. In order to comply with the I.M.O. regulations, each navigation light type 35 requires a special focussed 25 W bulb, type LAMP1225 (12V) or LAMP2425 (24V)	1		
1.1.1.3	Mast Head Navigation Light - 24V 25W Marine LED Masthead Light Marine Waterproof LED Combo Masthead Deck Light. Low Power Consumption LED: This LED mast light 1 consumes only 25W of power, the bright LED bulb.			
1.1.1.4	Anchor Navigation Light - All-Round Anchor Navigation	1		
1.1.1.5	Search Light - DHR light adjustable from inside 24V 185mm	1		
1.1.1.6	Flood lights - 220v led, 400w	1		
1.1.1.7	Flood lights - 220v led, 600w	1		
1.1.1.8	Flood lights - 220v led, 900w,	1		
1.1.1.9	Flood lights - 220v led, 1200w	1		
1.1.2	General lighting and connection points			
1.1.2.1	Light - 220v led: e27 bulb, cool white, 15w, 220v	1		
1.1.2.2	Light - 2 foot flourescent (normal or led): cool white, 25w, 220v	1		
1.1.2.3	Light - 4 foot flourescent (normal or led): cool white, 25w, 220v 1			
1.1.2.4	Light - Edison screw(E27): e27 bulb, cool white, 25w, 220v 1			
1.1.2.5	Light - Bayonet(b22D): cool white, 25w, 220v 1			
1.1.2.6	Light - Stik led/stick lights: e27 tube, cool white, 25w, 220v 1			
1.1.2.7	Engine room lights - 20 Watts, 24VDC LED Lights: e27, cool white, 20w, 24v 1			
1.1.2.8	Emergency lighting - 24v Downlight fitting: GU10, cool white, 5w, 24v 1			

TRANSNEL



1.1.3	Plug sockets		
1.1.3.1	Single 3 prong - 220v	1	
1.1.3.2	Double 3 prong - 220v	1	
1.1.3.3	Waterproof 380v plug sockets	1	
1.1.3.4	Double Industrial Switched Socket: Material: Steel, Working Voltage: AC100-240V ~ 50/60H. Dimensions: 6cm(L) x 12.5cm(W) x 13cm(H)	1	
1.1.4	Batteries		
	Battery chargers-The battery charger is a fully automatic charger for 24V batteries and		
1.1.4.1	accepts any mains supply that delivers 90-265 V AC, with frequencies ranging from 45 to 65 Hz. It also accepts DC supply, ranging from 90 up to 400 V DC	1	
1.1.4.2	Batteries -Communication, starting and emergency battery-105Ah 12 volt. Deep cycle battery. Operating temperature 18°C to 52°C	1	
1.1.4.3	Batteries - Deep cycle battery 205 Ah. 12 volt	1	
1.1.5	Shore Supply		
1.1.5.1	Shore supply plug - 125A (amp) 4 pin, Earth pin positioned at 6 hour,380 - 415V (volt), 3 phase, Red colour coding, Dimensions: (L)295 x (Diameter)125mm	1	
1.1.5.2	Shore supply cable-20m, 5 core, 125 Amp - The cable used is 35mm 5core H07RN- F Double insulated, Ethylene Propylene Rubber, flexible cable designed to withstand; the weather, oils/greases, mechanical and thermal stresses.	1	
1.1.6	Motors - 220~240V or 380v - Speeds and voltage vary depending on motor		
1.1.6.1	<1 Kw, 3 phase motor - Voltage: 220~240V 4 Pole = 1400rpm rated for 50/60hz	1	
1.1.6.2	1 Kw, 3 phase motor - Speed: +-2900 Voltage:380v frequency:50hz IP 44	1	
1.1.6.3	2 Kw, 3 phase motor - Speed: +-2900 Voltage:380v frequency:50hz IP 55 B3 foot mount	1	
1.1.6.4	3 Kw, 3 phase motor - Speed: +-970 Voltage:380v frequency:50hz IP 55 B3 foot moun	1	

	4 Kw, 3 phase motor - Speed: +-2900		
1.1.6.5	Voltage:380v		
		1	
1.1.0.5	frequency:50hz IP 55	1	
	B3 foot mount		
1100	5 Kw, 3 phase motor - Speed: +-2895	4	
1.1.6.6	Voltage:400v	1	
	frequency:50hz		
	6 Kw, 3 phase motor - Speed: +- 2900		
4467	Voltage:380v		
1.1.6.7	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B5 foot mount		
	7 Kw, 3 phase motor - Speed: +- 2900		
1100	Voltage:380v		
1.1.6.8	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B5 foot mount		
	8 Kw, 3 phase motor - +- 2900		
	Voltage:380v		
1.1.6.9	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B5 foot mount		
	9 Kw, 3 phase motor - +- 2900		
	Voltage:380v		
1.1.6.10	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B5 foot mount		
	10 Kw, 3 phase motor - +- 2900		
	Voltage:380v		
1.1.6.11	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B5 foot mount		
	11 Kw, 3 phase motor - +- 2900		
	Voltage:380v		
1.1.6.12	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B5 foot mount		

	12 Kw, 3 phase motor - +- 2900		
1.1.6.13	Voltage:380v		
	frequency:50hz	1	
1.1.0.15	IP rating:IP 55	1	
	Mount: B5 foot mount		
	13 Kw, 3 phase motor - +- 2900		
	Voltage: 380v		
1.1.6.14	frequency:50hz	1	
11110111	IP rating:IP 55	-	
	Mount: B5 foot mount		
	14 Kw, 3 phase motor - +- 2900		
	Voltage: 380v		
1.1.6.15	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B5 foot mount		
	15 Kw, 3 phase motor - Speed: +- 2900		
	Voltage:380v		
1.1.6.16	frequency:50hz	1	
	IP rating: IP 55		
	Mount: B5 foot mount		
	16 Kw, 3 phase motor - +- 735		
	Voltage:380v		
1.1.6.17	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B3 foot mount		
	17 Kw, 3 phase motor - +- 735		
	Voltage:380v		
1.1.6.18	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B3 foot mount		
	18 Kw, 3 phase motor - +- 735		
	Voltage:380v		
1.1.6.19	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B3 foot mount		

	19 Kw, 3 phase motor - +- 735		
	Voltage:380v		
1.1.6.20	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B3 foot mount		
	20 Kw, 3 phase motor - +- 735		
	Voltage:380v		
1.1.6.21	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B3 foot mount		
	21 Kw, 3 phase motor - +- 735		
	Voltage:380v		
1.1.6.22	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B3 foot mount		
	22 Kw, 3 phase motor - Speed: +- 735		
	Voltage:380v		
1.1.6.23	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B3 foot mount		
1.1.7	Switchboard/ distribution panel components		
1.1.7.1	24 VOLT Consumers panel	1	
1.1.7.2	220 VOLT Consumers panel	1	
1.1.7.3	380 VOLT Consumers panel	1	
1.1.8	Fans		
	Main engine room fans - Aerofoil Axial flow, Type: 1000JM		
	kW: 4.5/14.0RPM: 975/1470		
1 1 0 1	Hz/Ph: 50/3		
1.1.8.1	Pitch: 28/B	1	
	V: Delta – 380V		
	A: 11.61(Star) /29.5 (Delta)		
	Inline extractor fans - 220v Inline 100mm, extractor fan Ranging from 200m3/hr to		
1.1.8.2	2210m3/hr	1	
1.1.8.3	Inline extractor fans - 220v Inline 150m extractor fan	1	
1.1.8.4	Inline extractor fans - 220v Inline 200mm extractor fan	1	
1.1.8.5	Inline extractor fans - 220v Inline 250mm extractor fan	1	
1.1.8.6	Inline extractor fans - 220v Inline 315mm extractor fan	1	
1.1.9	Miscellaneous		
	Emergency Stops - mushroom pushbutton, 22 mm, round, metal,		
1.1.9.1	red, 40 mm, positive latching, according to EN ISO 13850, rotate-to-unlatch, without	1	
	yellow backing plate, with holder, 1 NC, screw terminal		
1.1.9.2			
1.1.9.3			
111010	Sub-Total for SECTION B2: EQUIPMENT LIST MARI	NE CRAFT carried to Fin	al Summary

	SECTION C2: SERVICE RATES CENTRAL REGION				
SECTION C2.1:	Annual service of batteries and battery chargers				
Port	Vessel	Quantity Rate per Hour Total			
Port Elizabeth C2	2.1.1				
C2.1.1.1	Mvezo tugboat	1			
C2.1.1.2	Qunu tugboat	1			
C2.1.1.3	Ivubu pilot boat	1			
C2.1.1.4	Royal Tern workboat	1			
C2.1.1.5	Adhoc Vessel	1			
		Sub Total of section C2.1.1			
Ngqura C2.1.2					
C2.1.2.1	Shasa tugboat	1			
C2.1.2.2	Orca tugboat	1			
C2.1.2.3	Lizibuko tugboat	1			
C2.1.2.4	Tsitsikama pilot boat	1			
C2.1.2.5	Adhoc Vessel	1			
		Sub Total of section C2.1.2			
East London C2.:	L <u>.3</u>				
C2.1.3.1	Umthwalume tugboat	1			
C2.1.3.2	Impunzi tugboat	1			
C2.1.3.3	Tristan Tern workboat	1			
C2.1.3.4	Adhoc Vessel	1			
		Sub Total of section C2.1.3			
		TOTAL SECTION C2.1 carried forward to Final Summary			

SECTION C2.2 Annual service of Distribution boards, shore supply, transformers, switchgear and electrical wiring		
Port Elizabeth		
C2.2.1.1	Mvezo tugboat	1
C2.2.1.2	Qunu tugboat	1
C2.2.1.3	Ivubu pilot boat	1
C2.2.1.4	Royal Tern workboat	1
C2.2.1.5	Adhoc Vessel	1
		Sub Total of section C2.2.1
Nggura C2.2.2		
C2.2.2.1	Shasa tugboat	1
C2.2.2.2	Orca tugboat	1
C2.2.2.3	Lizibuko tugboat	1
C2.2.2.4	Tsitsikama pilot boat	1
C2.2.2.5	Adhoc Vessel	1
		Sub Total of section C2.2.2
East London C	2.2.3	
C2.2.3.1	Umthwalume tugboat	1
C2.2.3.2	Impunzi tugboat	1
C2.2.3.3	Tristan Tern workboat	1
C2.2.3.4	Adhoc Vessel	1
		Sub Total of section C2.2.3
		TOTAL SECTION C2.2 carried forward to Final Summary

SECTION C 2.3	Annual Service of Pump motors and fans(incuding me	egger testing when required)
Port Elizabeth		
C2.3.1.1	Mvezo tugboat	1
C2.3.1.2	Qunu tugboat	1
C2.3.1.3	Ivubu pilot boat	1
C2.3.1.4	Royal Tern workboat	1
C2.3.1.5	Adhoc Vessel	1
		Sub Total of section C2.3.1
Nggura C.2.3.2	2	
C2.3.2.1	Shasa tugboat	1
C2.3.2.2	Orca tugboat	1
C2.3.2.3	Lizibuko tugboat	1
C2.3.2.4	Tsitsikama pilot boat	1
C2.3.2.5	Adhoc Vessel	1
		Sub Total of section C2.3.2
East London C	.2.3.3	
C2.3.3.1	Umthwalume tugboat	1
C2.3.3.2	Impunzi tugboat	1
C2.3.3.3	Tristan Tern workboat	1
C2.3.3.4	Adhoc Vessel	1
		Sub Total of section C2.3.3
		TOTAL SECTION C2.3 carried forward to Final Summary

SECTION C2.4 Annual Service of Alternators, air compressors and pre-heaters			
Port Elizabeth	<u>C2.4.1</u>		
C2.4.1.1	Mvezo tugboat	1	
C2.4.1.2	Qunu tugboat	1	
C2.4.1.3	Ivubu pilot boat	1	
C2.4.1.4	Royal Tern workboat	1	
C2.4.1.5	Adhoc Vessel	1	
		Sub Total of section C2.4.1	
Nggura C2.4.2			
C2.4.2.1	Shasa tugboat	1	
C2.4.2.2	Orca tugboat	1	
C2.4.2.3	Lizibuko tugboat	1	
C2.4.2.4	Tsitsikama pilot boat	1	
C2.4.2.5	Adhoc Vessel	1	
		Sub Total of section C2.4.2	
East London C	<u>2.4.3</u>		
C2.4.3.1	Umthwalume tugboat	1	
C2.4.3.2	Impunzi tugboat	1	
C2.4.3.3	Tristan Tern workboat	1	
C2.4.3.4	Adhoc Vessel	1	
		Sub Total of section C2.4.3	
		TOTAL SECTION C2.4 carried forward to Final Summary	

SECTION C2.5	Annual Service of electrical wiring, plug sockets, lig	ht fixtures and bulbs (including insulation tests conducted on a 4 year cycle)
Port Elizabeth	<u>C2.5.1</u>	
C2.5.1.1	Mvezo tugboat	1
C2.5.1.2	Qunu tugboat	1
C2.5.1.3	Ivubu pilot boat	1
C2.5.1.4	Royal Tern workboat	1
C2.5.1.5	Adhoc Vessel	1
		Sub Total of section C2.5.1
Nggura C2.5.2		
C2.5.2.1	Shasa tugboat	1
C2.5.2.2	Orca tugboat	1
C2.5.2.3	Lizibuko tugboat	1
C2.5.2.4	Tsitsikama pilot boat	1
C2.5.2.5	Adhoc Vessel	1
		Sub Total of section C2.5.2
East London C	<u>2.5.3</u>	
C2.5.3.1	Umthwalume tugboat	1
C2.5.3.2	Impunzi tugboat	1
C2.5.3.3	Tristan Tern workboat	1
C2.5.3.4	Adhoc Vessel	1
		Sub Total of section C2.5.3
		TOTAL SECTION C2.5 carried forward to Final Summary

SECTION C2.6 Adhoc fault finding, maintenance, repairs and replacements			
Port Elizabeth	<u>C2.6.1</u>		
C2.6.1.1	Mvezo tugboat	1	
C2.6.1.2	Qunu tugboat	1	
C2.6.1.3	Ivubu pilot boat	1	
C2.6.1.4	Royal Tern workboat	1	
C2.6.1.5	Adhoc Vessel	1	
		Sub Total of section C2.6.1	
Nggura C2.6.2			
C2.6.2.1	Shasa tugboat	1	
C2.6.2.2	Orca tugboat	1	
C2.6.2.3	Lizibuko tugboat	1	
C2.6.2.4	Tsitsikama pilot boat	1	
C2.6.2.5	Adhoc Vessel	1	
		Sub Total of section C2.6.2	
East London C	<u>2.6.3</u>		
C2.6.3.1	Umthwalume tugboat	1	
C2.6.3.2	Impunzi tugboat	1	
C2.6.3.3	Tristan Tern workboat	1	
C2.6.3.4	Adhoc Vessel	1	
		Sub Total of section C2.6.3	
		TOTAL SECTION C2.6 carried forward to Final Summary	

	FINAL SUMMARY TABLE		Total
Fotal brought forwa	ard from SECTION B2: EQUIPMENT LIST MARINE CRAFT		
Total brought forwa	ard from SECTION C2.1: Annual service of Distribution boards, shore supply, transformers, switchgear and el	ectrical wiring	
Fotal brought forwa	ard from SECTION C2.2: Annual Service of Pump motors and fans(incl megger testing when required)		
otal brought forwa	ard from SECTION C2.3: Annual Service of Alternators, air compressors and pre-heaters		
otal brought forwa	ard from SECTION C2.4: Insulation tests and Annual Service of electrical wiring, plug sockets, light fixtures a	nd bulbs	
Total brought forwa a 4 year cycle)	ard from SECTION C2.5: Annual Service of electrical wiring, plug sockets, light fixtures and bulbs (including in	nsulation test conducted on	1
Total brought forwa	ard from SECTION C2.6: Adhoc fault finding, maintenance, repairs and replacements		
	Total carried forward to MULTI-YEAR PRICING	TABLE CENTRAL REGIO	N
	MULTI-YEAR PRICING TABLE - EASTERN REGION	CPI	TOTAL
TOTAL COSTS YEAR 1 = (YR1 Total costs) BROUGHT FORWARD FROM FINAL SUMMARY TABLE 0			
	R 2 = (YR1 total cost X CPI adjustment)	4.5	
	R 3 = (YR2 total cost XCPI adjustment)	4.4	
FOTAL EXCL. VAT			
15% VAT			
TOTAL INCL. VA	Γ		
	Notes to the Multi- Year Pricing Table:		
1	The first year of the contract will not be subject to price escalation		
2	Tendered rates will be subject to escalation from year 2 onwards		
	Tendered rates will be adjusted annually based on the actual escalation indices published		
3	by Stats SA.		
4	The formula for adjustment and the method of adjustment is set out in more detail in the		
	tender document		
-			
4	The "CPI" figures provided in the "Multi-Year Pricing Table" above are forward projections		
5	The "CPI" figures provided in the "Multi-Year Pricing Table" above are forward projections from the Bureau for Economic Research and are used as an estimate in able to obtain a		

Notes to the Multi- Year Pricing Table:	
The first year of the contract will not be subject to price escalation	
Tendered rates will be subject to escslation from year 2 onwards	
Tendered rates will be adjusted annually based on the actual escalation indices published	
by Stats SA.	
The formula for adjustment and the method of adjustment is set out in more detail in the	
tender document	
The "CPI" figures provided in the "Multi-Year Pricing Table" above are forward projections	
from the Bureau for Economic Research and are used as an estimate in able to obtain a	
total price over the contract term.	

ANNEXURE D.3: EASTERN REGION

TITLE/BOQ: THE REPAIR, SERVICING, AND INSPECTION OF ELECTRICAL SYSTEMS AND COMPONENTS ON-BOARD MARINE CRAFTS ON AN 'AS AND WHEN REQUIRED' BASIS TO EIGHT (8) PORTS OF TRANSNET NATIONAL PORTS AUTHORITY, FOR A PERIOD OF THREE (3) YEARS

1. BILL OF QUANTITIES SECTION B3: EQUIPMENT LIST MARINE CRAFT

SECTION C3: SERVICE RATES

TRANSNE



	PMENT LIST WESTERN REGION PMENT LIST MARINE CRAFT			
ITEM	DESCRIPTION	Quantity	Price per Unit	Total
1.1.1	Navigation lights and fittings			
1.1.1.1	Port Side Navigation Light - DHR 112.5° red left side navigation light. Version with base. Light bulb included OS1422001 24V - 25W. Made of black polycarbonate and stainless steel. Equipped with vertical filament bulb. Also type-tested for Marina Mercantile (Merchant Marine). OPTIONAL wall bracket kit OS1141810.	1		
1.1.1.2	Starboard Side Navigation Light - White housing. Meets I.M.O. Specifications (international regulations for prevention of collisions at sea, colreg '72). For boats of less than 20 metres in length. In order to comply with the I.M.O. regulations, each navigation light type 35 requires a special focussed 25 W bulb, type LAMP1225 (12V) or LAMP2425 (24V)	1		
1.1.1.3	(24V) Mast Head Navigation Light - 24V 25W Marine LED Masthead Light Marine Waterproof			
1.1.1.4	Anchor Navigation Light - All-Round Anchor Navigation	1		
1.1.1.5	Search Light - DHR light adjustable from inside 24V 185mm	1		
1.1.1.6	Flood lights - 220v led, 400w	1		
1.1.1.7	Flood lights - 220v led, 600w	1		
1.1.1.8	Flood lights - 220v led, 900w,	1		
1.1.1.9	Flood lights - 220v led, 1200w	1		
1.1.2	General lighting and connection points			
1.1.2.1	Light - 220v led: e27 bulb, cool white, 15w, 220v	1		
1.1.2.2	Light - 2 foot flourescent (normal or led): cool white, 25w, 220v	1		
1.1.2.3	Light - 4 foot flourescent (normal or led): cool white, 25w, 220v	1		
1.1.2.4	Light - Edison screw(E27): e27 bulb, cool white, 25w, 220v	1		
1.1.2.5	Light - Bayonet(b22D): cool white, 25w, 220v	1		
1.1.2.6	Light - Stik led/stick lights: e27 tube, cool white, 25w, 220v	1		
1.1.2.7	Engine room lights - 20 Watts, 24VDC LED Lights: e27, cool white, 20w, 24v	1		

1.1.3	Plug sockets		
1.1.3.1	Single 3 prong - 220v	1	
1.1.3.2	Double 3 prong - 220v	1	
1.1.3.3	Waterproof 380v plug sockets	1	
1.1.3.4	Double Industrial Switched Socket: Material: Steel, Working Voltage: AC100-240V ~ 50/60H. Dimensions: 6cm(L) x 12.5cm(W) x 13cm(H)	1	
1.1.4	Batteries		
1.1.4.1	Battery chargers-The battery charger is a fully automatic charger for 24V batteries and accepts any mains supply that delivers 90-265 V AC, with frequencies ranging from 45 to 65 Hz. It also accepts DC supply, ranging from 90 up to 400 V DC	1	
1.1.4.2	Batteries -Communication, starting and emergency battery-105Ah 12 volt. Deep cycle battery. Operating temperature 18°C to 52°C	1	
1.1.4.3	Batteries - Deep cycle battery 205 Ah. 12 volt	1	
1.1.5	Shore Supply		
1.1.5.1	Shore supply plug - 125A (amp) 4 pin, Earth pin positioned at 6 hour, 380 - 415V (volt), 3 phase, Red colour coding, Dimensions: (L)295 x (Diameter)125mm	1	
1.1.5.2	Shore supply cable-20m, 5 core, 125 Amp - The cable used is 35mm 5core H07RN- F Double insulated, Ethylene Propylene Rubber, flexible cable designed to withstand; the weather, oils/greases, mechanical and thermal stresses.	1	
1.1.6	Motors - 220~240V or 380v - Speeds and voltage vary depending on motor		
1.1.6.1	<1 Kw, 3 phase motor - Voltage: 220~240V 4 Pole = 1400rpm rated for 50/60hz	1	
1.1.6.2	1 Kw, 3 phase motor - Speed: +-2900 Voltage:380v frequency:50hz IP 44	1	
1.1.6.3	2 Kw, 3 phase motor - Speed: +-2900 Voltage:380v frequency:50hz IP 55 B3 foot mount	1	
1.1.6.4	3 Kw, 3 phase motor - Speed: +-970 Voltage:380v frequency:50hz IP 55 B3 foot moun	1	

4 Kw, 3 phase motor - Speed: +-2900 Voltage:380v 1.1.6.5 frequency:50hz IP 55	
1.1.6.5 frequency:50hz 1 IP 55 1	
IP 55	
B3 foot mount	
5 Kw, 3 phase motor - Speed: +-2895	
1.1.6.6 Voltage:400v 1	
frequency:50hz	
6 Kw, 3 phase motor - Speed: +- 2900	
Voltage:380v	
1.1.6.7 frequency:50hz 1	
IP rating:IP 55	
Mount: B5 foot mount	
7 Kw, 3 phase motor - Speed: +- 2900	
Voltage:380v	
1.1.6.8 frequency:50hz 1	
IP rating:IP 55	
Mount: B5 foot mount	
8 Kw, 3 phase motor - +- 2900	
Voltage:380v	
1.1.6.9 frequency:50hz 1	
IP rating:IP 55	
Mount: B5 foot mount	
9 Kw, 3 phase motor - +- 2900	
Voltage:380v	
1.1.6.10 frequency:50hz 1	
IP rating:IP 55	
Mount: B5 foot mount	
10 Kw, 3 phase motor - +- 2900	
Voltage:380v	
1.1.6.11 frequency:50hz 1	
IP rating:IP 55	
Mount: B5 foot mount	
11 Kw, 3 phase motor - +- 2900	
Voltage:380v	
1.1.6.12 frequency:50hz 1	
IP rating:IP 55	
Mount: B5 foot mount	

	12 Kw, 3 phase motor - +- 2900		
	Voltage:380v		
1.1.6.13	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B5 foot mount		
	13 Kw, 3 phase motor - +- 2900		
	Voltage:380v		
1.1.6.14	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B5 foot mount		
	14 Kw, 3 phase motor - +- 2900		
	Voltage:380v		
1.1.6.15	frequency:50hz	1	
	IP rating: IP 55		
	Mount: B5 foot mount		
	15 Kw, 3 phase motor - Speed: +- 2900		
	Voltage:380v		
1.1.6.16	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B5 foot mount		
	16 Kw, 3 phase motor - +- 735		
	Voltage:380v		
1.1.6.17	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B3 foot mount		
	17 Kw, 3 phase motor - +- 735		
	Voltage:380v		
1.1.6.18	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B3 foot mount		
	18 Kw, 3 phase motor - +- 735		
	Voltage:380v		
1.1.6.19	frequency:50hz	1	
	IP rating:IP 55		
	Mount: B3 foot mount		

	19 Kw, 3 phase motor - +- 735			
	Voltage: 380v			
1.1.6.20	frequency:50hz	1		
	IP rating:IP 55			
	Mount: B3 foot mount			
	20 Kw, 3 phase motor - +- 735			
	Voltage:380v			
1.1.6.21	frequency:50hz	1		
	IP rating:IP 55			
	Mount: B3 foot mount			
	21 Kw, 3 phase motor - +- 735			
	Voltage:380v			
1.1.6.22	frequency:50hz	1		
	IP rating:IP 55			
	Mount: B3 foot mount			
	22 Kw, 3 phase motor - Speed: +- 735	1 1 1		
	Voltage:380v			
1.1.6.23		1		
1.1.7				
1.1.7.1		1		
		1		
1.1.7.3	380 VOLT Consumers panel	1		
1.1.6.23frequency:50hz IP rating:IP 55 Mount: B3 foot mount111.1.7Switchboard/ distribution panel components				
	Main engine room fans - Aerofoil Axial flow, Type: 1000JM			
1 1 0 1	Hz/Ph: 50/3			
1.1.8.1	Pitch: 28/B	1		
	V: Delta – 380V			
	A: 11.61(Star) /29.5 (Delta)			
1.1.8.2	2210m3/hr	1		
1.1.8.3		1		
1.1.8.4	Inline extractor fans - 220v Inline 200mm extractor fan	-		
1.1.8.5	Inline extractor fans - 220v Inline 250mm extractor fan			
1.1.8.6	Inline extractor fans - 220v Inline 315mm extractor fan	1		
1.1.9	w, 3 phase motor - +- 735 ge:380v lency:50hz th: B3 foot mount w, 3 phase motor - Speed: +- 735 ge:380v lency:50hz th: B3 foot mount thorad/ distribution panel components 0LT Consumers panel 0LT Consumers panel 0LT Consumers panel 0LT Consumers panel 1 VOLT Consumers panel VOLT Consumers panel 1 VOLT Co			
	Emergency Stops - mushroom pushbutton, 22 mm, round, metal, red, 40 mm, positive			
1.1.9.1	latching, according to EN ISO 13850, rotate-to-unlatch, without yellow backing plate, with	1		
	holder, 1 NC, screw terminal			
1.1.9.2	Electric geysers - 150l, SANS 151 approved.			
1.1.9.3	Electrical cables - Marine grade (per metre)	1		
	Sub-Total for SECTION B3: EQUIPMENT LIST MARIN	E CDAET com	od to Final Summar	

	SECTION C3: SERVICE R	ATES EASTERN REGION		
SECTION C3.1: A	nnual service of batteries and battery chargers			
Port	Vessel	Quantity	Rate per Hour	Total
Richards Bay C3.1	1			-
C3.1.1.1	Ukhozi tugboat	1		
C3.1.1.2	Lilani tugboat	1		
C3.1.1.3	Iphotwe tugboat	1		
C3.1.1.4	Indlazi tugboat	1		
C3.1.1.5	Uhuva tugboat	1		
C3.1.1.6	Jojosi pilot boat	1		
C3.1.1.7	Swift Tern workboat	1		
C3.1.1.8	Adhoc Vessel	1		
		Sub T	otal of section C3.1.1	
Durban C3.1.2				
C3.1.2.1	Umkhomazi tugboat	1		
C3.1.2.2	Pholela tugboat	1		
C3.1.2.3	Lotheni tugboat	1		
C3.1.2.4	Mkhuze tugboat	1		
C3.1.2.5	Uthekela tugboat	1		
C3.1.2.6	Palmiet tugboat	1		
C3.1.2.7	Umvoti tugboat	1		
C3.1.2.8	Inyalazi tugboat	1		
C3.1.2.9	Umhlali tugboat	1		
C3.1.2.10	Umsunduzi tugboat	1		
C3.1.2.11	Lufafa pilot boat	1		
C3.1.2.12	Indlovu pilot boat	1		
C3.1.2.13	Umcishu launch	1		
C3.1.2.14	Uqoyi launch	1		
C3.1.2.15	Moorhen launch	1		
C3.1.2.16	Unonkilonki launch	1		
C3.1.2.17	Ifuba launch	1		
C3.1.2.18	Adhoc Vessel	1		
		Sub T	otal of section C3.1.2	
	ТО	TAL SECTION C3.1 carried forwa	ard to Final Summary	

Richards Bay C3	Annual service of Distribution boards, shore supply, transfo		
C3.2.1.1	Ukhozi tugboat	1	
C3.2.1.2	Lilani tugboat	1	
C3.2.1.3	Iphotwe tugboat	1	
C3.2.1.4	Indlazi tugboat	1	
C3.2.1.5	Uhuva tugboat	1	
C3.2.1.6	Jojosi pilot boat	1	
C3.2.1.7	Swift Tern workboat	1	
C3.2.1.8	Adhoc Vessel	1	
		Sub Total of section C3.2.1	
Durban C3.2.2			
C3.2.2.1	Umkhomazi tugboat	1	
C3.2.2.2	Pholela tugboat	1	
C3.2.2.3	Lotheni tugboat	1	
C3.2.2.4	Mkhuze tugboat	1	
C3.2.2.5	Uthekela tugboat	1	
C3.2.2.6	Palmiet tugboat	1	
C3.2.2.7	Umvoti tugboat	1	
C3.2.2.8	Inyalazi tugboat	1	
C3.2.2.9	Umhlali tugboat	1	
C3.2.2.10	Umsunduzi tugboat	1	
C3.2.2.11	Lufafa pilot boat	1	
C3.2.2.12	Indlovu pilot boat	1	
C3.2.2.13	Umcishu launch	1	
C3.2.2.14	Uqoyi launch	1	
C3.2.2.15	Moorhen launch	1	
C3.2.2.16	Unonkilonki launch	1	
C3.2.2.17	Ifuba launch	1	
C3.2.2.18	Adhoc Vessel	1	
		Sub Total of section C3.2.2	
		TOTAL SECTION C3.2 carried forward to Final Summary	

Richards Bay C	Annual Service of Pump motors and fans(incuding megger t 3.3.1	• • •		
C3.3.1.1	Ukhozi tugboat	1		
C3.3.1.2	Lilani tugboat	1		
C3.3.1.3	Iphotwe tugboat	1		
C3.3.1.4	Indlazi tugboat	1		
C3.3.1.5	Uhuva tugboat	1		
C3.3.1.6	Jojosi pilot boat	1		
C3.3.1.7	Swift Tern workboat	1		
C3.3.1.8	Adhoc Vessel	1		
		Sub To	otal of section C3.3.1	
Durban C3.3.2				
C3.3.2.1	Umkhomazi tugboat	1		
C3.3.2.2	Pholela tugboat	1		
C3.3.2.3	Lotheni tugboat	1		
C3.3.2.4	Mkhuze tugboat	1		
C3.3.2.5	Uthekela tugboat	1		
C3.3.2.6	Palmiet tugboat	1		
C3.3.2.7	Umvoti tugboat	1		
C3.3.2.8	Inyalazi tugboat	1		
C3.3.2.9	Umhlali tugboat	1		
C3.3.2.10	Umsunduzi tugboat	1		
C3.3.2.11	Lufafa pilot boat	1		
C3.3.2.12	Indlovu pilot boat	1		
C3.3.2.13	Umcishu launch	1		
C3.3.2.14	Uqoyi launch	1		
C3.3.2.15	Moorhen launch	1		
C3.3.2.16	Unonkilonki launch	1		
C3.3.2.17	Ifuba launch	1		
C3.3.2.18	Adhoc Vessel	1		
		Sub Te	otal of section C3.3.2	
		TOTAL SECTION C3.3 carried forwa	rd to Final Summary	

Richards Bay C3	3.4.1			
C3.4.1.1	Ukhozi tugboat	1		
C3.4.1.2	Lilani tugboat	1		
C3.4.1.3	Iphotwe tugboat	1		
C3.4.1.4	Indlazi tugboat	1		
C3.4.1.5	Uhuva tugboat	1		
C3.4.1.6	Jojosi pilot boat	1		
C3.4.1.7	Swift Tern workboat	1		
C3.4.1.8	Adhoc Vessel	1		
		Sub	Total of section C3.4.1	
Durban C3.4.2				-
C3.4.2.1	Umkhomazi tugboat	1		
C3.4.2.2	Pholela tugboat	1		
C3.4.2.3	Lotheni tugboat	1		
C3.4.2.4	Mkhuze tugboat	1		
C3.4.2.5	Uthekela tugboat	1		
C3.4.2.6	Palmiet tugboat	1		
C3.4.2.7	Umvoti tugboat	1		
C3.4.2.8	Inyalazi tugboat	1		
C3.4.2.9	Umhlali tugboat	1		
C3.4.2.10	Umsunduzi tugboat	1		
C3.4.2.11	Lufafa pilot boat	1		
C3.4.2.12	Indlovu pilot boat	1		
C3.4.2.13	Umcishu launch	1		
C3.4.2.14	Uqoyi launch	1		
C3.4.2.15	Moorhen launch	1		
C3.4.2.16	Unonkilonki launch	1		
C3.4.2.17	Ifuba launch	1		
C3.4.2.18	Adhoc Vessel	1		
		Sub	Total of section C3.4.2	

Richards Bay C	Annual Service of electrical wiring, plug sockets, light fixture 3.5.1		
C3.5.1.1	Ukhozi tugboat	1	
C3.5.1.2	Lilani tugboat	1	
C3.5.1.3	Iphotwe tugboat	1	
C3.5.1.4	Indlazi tugboat	1	
C3.5.1.5	Uhuva tugboat	1	
C3.5.1.6	Jojosi pilot boat	1	
C3.5.1.7	Swift Tern workboat	1	
C3.5.1.8	Adhoc Vessel	1	
		Sub Total of section C3.5.1	
Durban C3.5.2			
C3.5.2.1	Umkhomazi tugboat	1	
C3.5.2.2	Pholela tugboat	1	
C3.5.2.3	Lotheni tugboat	1	
C3.5.2.4	Mkhuze tugboat	1	
C3.5.2.5	Uthekela tugboat	1	
C3.5.2.6	Palmiet tugboat	1	
C3.5.2.7	Umvoti tugboat	1	
C3.5.2.8	Inyalazi tugboat	1	
C3.5.2.9	Umhlali tugboat	1	
C3.5.2.10	Umsunduzi tugboat	1	
C3.5.2.11	Lufafa pilot boat	1	
C3.5.2.12	Indlovu pilot boat	1	
C3.5.2.13	Umcishu launch	1	
C3.5.2.14	Uqoyi launch	1	
C3.5.2.15	Moorhen launch	1	
C3.5.2.16	Unonkilonki launch	1	
C3.5.2.17	Ifuba launch	1	
C3.5.2.18	Adhoc Vessel	1	
		Sub Total of section C3.5.2	
		TOTAL SECTION C3.5 carried forward to Final Summary	

Richards Bay C	Adhoc fault finding, maintenance, repairs and replacements 3.6.1			
C3.6.1.1	Ukhozi tugboat	1		
C3.6.1.2	Lilani tugboat	1		
C3.6.1.3	Iphotwe tugboat	1		
C3.6.1.4	Indlazi tugboat	1		
C3.6.1.5	Uhuva tugboat	1		
C3.6.1.6	Jojosi pilot boat	1		
C3.6.1.7	Swift Tern workboat	1		
C3.6.1.8	Adhoc Vessel	1		
		Sub	Total of section C3.6.1	
Durban C3.6.2				
C3.6.2.1	Umkhomazi tugboat	1		
C3.6.2.2	Pholela tugboat	1		
C3.6.2.3	Lotheni tugboat	1		
C3.6.2.4	Mkhuze tugboat	1		
C3.6.2.5	Uthekela tugboat	1		
C3.6.2.6	Palmiet tugboat	1		
C3.6.2.7	Umvoti tugboat	1		
C3.6.2.8	Inyalazi tugboat	1		
C3.6.2.9	Umhlali tugboat	1		
C3.6.2.10	Umsunduzi tugboat	1		
C3.6.2.11	Lufafa pilot boat	1		
C3.6.2.12	Indlovu pilot boat	1		
C3.6.2.13	Umcishu launch	1		
C3.6.2.14	Uqoyi launch	1		
C3.6.2.15	Moorhen launch	1		
C3.6.2.16	Unonkilonki launch	1		
C3.6.2.17	Ifuba launch	1		
C3.6.2.18	Adhoc Vessel	1		
			Total of section C3.6.2	
		TOTAL SECTION C3.6 carried forw	ard to Final Summary	

FINAL SUMMARY TABLE		Total
Total brought forward from SECTION B3: EQUIPMENT LIST MARINE CRAFT		
Total brought forward from SECTION C3.1: Annual service of Distribution boards, shore supply, transformers, switchgea	ar and electrical wiring	
Total brought forward from SECTION C3.2: Annual Service of Pump motors and fans(incl megger testing when required)	
Total brought forward from SECTION C3.3: Annual Service of Alternators, air compressors and pre-heaters		
Total brought forward from SECTION C3.4: Insulation tests and Annual Service of electrical wiring, plug sockets, light fi	xtures and bulbs	
Total brought forward from SECTION C3.5: Annual Service of electrical wiring, plug sockets, light fixtures and bulbs (inc 4 year cycle)	cluding insulation test conducted on a	
Total brought forward from SECTION C3.6: Adhoc fault finding, maintenance, repairs and replacements		
Total carried forward to MULTI-YEAR P	RICING TABLE EASTERN REGION	1
MULTI-YEAR PRICING TABLE - EASTERN REGION	CPI	TOTAL
TOTAL COSTS YEAR 1 = (YR1 Total costs) BROUGHT FORWARD FROM FINAL SUMMARY TABLE	0	
TOTAL COSTS YEAR 2 = (YR1 total cost X CPI adjustment)	4.5	
TOTAL COSTS YEAR 3 = (YR2 total cost XCPI adjustment)	4.4	
TOTAL EXCL. VAT		
15% VAT		
TOTAL INCL. VAT		

Notes to the Multi- Year Pricing Table:				
1	The first year of the contract will not be subject to price escalation			
2	Tendered rates will be subject to escslation from year 2 onwards			
2	Tendered rates will be adjusted annually based on the actual escalation indices published			
5	by Stats SA.			
4	The formula for adjustment and the method of adjustment is set out in more detail in the			
4	tender document			
	The "CPI" figures provided in the "Multi-Year Pricing Table" above are forward projections			
5	from the Bureau for Economic Research and are used as an estimate in able to obtain a			
	total price over the contract term.			