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PRICING SCHEDULE

HYDRAULIC REPAIRS AND MAINTENANCE FOR THE DREDGING SERVICES FLEET ON AN "AS AND WHEN REQUIRED BASIS" FOR EASTERN, WESTERN AND CENTRAL REGIONS FOR A PERIOD OF THREE (3) YEARS.

Transnet National Ports Authority

Dredging Services

				YEAR 1
GENERAL AREA	DESCRIPTION OF WORK		Unit	Tendered
				Rate
VESSEL : ILEMBE				
A) Conical Bottom Valve Cylinder	1	Remove and refit	rate/each	
	2	Strip and clean for inspection	rate/each	
	3	Ceramic coat the piston rod	rate/each	
	4	Renew the piston rod	rate/each	
	5	Renew the seals	rate/each	
	6	Renew the piston	rate/each	
	7	Hone the barrel	rate/each	
	8	Assemble and pressure test	rate/each	
	9	Grit blast and paint	rate/each	
	10	Manufacture new barrel if required	rate/each	
	12	Install new bolts and nuts to the cylinders if required	rate/each	
	13	Test sensors and ensure correct signals	rate/each	

B) Self Emptying Doors	1	Remove and refit		rate/each	
	2	Strip and clean for inspection		rate/each	
	3	Ceramic coat the piston rod		rate/each	
	4	Renew the piston rod		rate/each	
	5	Renew the seals		rate/each	
	6	Renew the piston		rate/each	
	7	Hone the barrel		rate/each	
	8	Assemble and pressure test		rate/each	
	9	Grit blast and paint		rate/each	
	10	Manufacture new barrel if required		rate/each	
	12	Install new bolts and nuts to the cylinders if required		rate/each	
	13	Allow for scaffolding for the removal and refitting.		rate/each	
	14	Test sensors and ensure correct signals		rate/each	

C) Draghead Gantry Cylinder	1	Remove and refit		rate/each	
	2	Strip and clean for inspection		rate/each	
	3	Ceramic coat the piston rod		rate/each	
	4	Renew the piston rod		rate/each	
	5	Renew the seals		rate/each	
	6	Renew the piston		rate/each	
	7	Hone the barrel		rate/each	
	8	Assemble and pressure test		rate/each	
	9	Grit blast and paint		rate/each	
	10	Manufacture new barrel if required		rate/each	
	12	Install new bolts and nuts to the cylinders if required		rate/each	
	13	Allow for scaffolding for the removal and refitting.		rate/each	
D) Intermediate Gantry Cylinder	1	Remove and refit		rate/each	
	2	Strip and clean for inspection		rate/each	
	3	Ceramic coat the piston rod		rate/each	
	4	Renew the piston rod		rate/each	
	5	Renew the seals		rate/each	
	6	Renew the piston		rate/each	
	7	Hone the barrel		rate/each	
	8	Assemble and pressure test		rate/each	
	9	Grit blast and paint		rate/each	

	10	Manufacture new barrel if required		rate/each	
	12	Install new bolts and nuts to the cylinders if required		rate/each	
	13	Allow for scaffolding for the removal and refitting.		rate/each	

E) Trunnion Gantry Cylinder	1	Remove and refit		rate/each	
	2	Strip and clean for inspection		rate/each	
	3	Ceramic coat the piston rod		rate/each	
	4	Renew the piston rod		rate/each	
	5	Renew the seals		rate/each	
	6	Renew the piston		rate/each	
	7	Hone the barrel		rate/each	
	8	Assemble and pressure test		rate/each	
	9	Grit blast and paint		rate/each	
	10	Manufacture new barrel if required		rate/each	
	12	Install new bolts and nuts to the cylinders if required		rate/each	
	13	Allow for scaffolding for the removal and refitting.		rate/each	
F) Swell Compenstator Cylinder	1	Remove and refit		rate/each	
	2	Strip and clean for inspection		rate/each	
	3	Ceramic coat the piston rod		rate/each	
	4	Renew the piston rod		rate/each	
	5	Renew the seals		rate/each	
	6	Renew the piston		rate/each	
	7	Renew Damper Valve		rate/each	
	8	Hone the barrel		rate/each	
	9	manufacture new barrel if required		rate/each	

	10	assemble and pressure test		rate/each	
	11	Renew bush on compensator		rate/each	
	12	Grit blast and paint		rate/each	
	14	Install new bolts and nuts to the cylinders if required		rate/each	
	15	Allow for scaffolding for the removal and refitting.		rate/each	

G) Overflow cylinders	1	Remove and refit		rate/each	
	2	Strip and clean for inspection		rate/each	
	3	Ceramic coat the piston rod		rate/each	
	4	Renew the piston rod		rate/each	
	5	Renew the seals		rate/each	
	6	Renew the piston		rate/each	
	7	Hone the barrel		rate/each	
	8	Assemble and pressure test		rate/each	
	9	Grit blast and paint		rate/each	
	10	Manufacture new barrel if required		rate/each	
	12	Install new bolts and nuts to the cylinders if required		rate/each	
	13	Allow for scaffolding for the removal and refitting.		rate/each	
H) Dredge Valves - size: 900mm	1	Remove and refit		rate/each	
	2	Strip and clean for inspection		rate/each	
	3	Ceramic coat the piston rod		rate/each	
	4	Renew the piston rod		rate/each	
	5	Renew the seals		rate/each	
	6	Renew the piston		rate/each	
	7	Hone the barrel		rate/each	
	8	Assemble and pressure test		rate/each	
	9	Grit blast and paint		rate/each	

	10	Manufacture new barrel if required		rate/each	
	12	Install new bolts and nuts to the cylinders if required		rate/each	
	13	Test and ensure correct signals of sensors		rate/each	
I) Dredge Valves - size: 800mm	1	Remove and refit		rate/each	
	2	Strip and clean for inspection		rate/each	
	3	Ceramic coat the piston rod		rate/each	
	4	Renew the piston rod		rate/each	
	5	Renew the seals		rate/each	
	6	Renew the piston		rate/each	
	7	Hone the barrel		rate/each	
	8	Assemble and pressure test		rate/each	
	9	Grit blast and paint		rate/each	
	10	Manufacture new barrel if required		rate/each	
	12	Install new bolts and nuts to the cylinders if required		rate/each	
	13	Test and ensure correct signals of sensors		rate/each	

J) Dredge Valves - Size: 250mm	1	Remove and refit		rate/each	
	2	Strip and clean for inspection		rate/each	
	3	Ceramic coat the piston rod		rate/each	
	4	Renew the piston rod		rate/each	
	5	Renew the seals		rate/each	
	6	Renew the piston		rate/each	
	7	Hone the barrel		rate/each	
	8	Assemble and pressure test		rate/each	
	9	Grit blast and paint		rate/each	
	10	Manufacture new barrel if required		rate/each	
	12	Install new bolts and nuts to the cylinders if required		rate/each	
	13	Test and ensure correct signals of sensors		rate/each	
K) Push Ring/ Locking Pin Cylinder	1	Remove and refit		rate/each	
	2	Strip and clean for inspection		rate/each	
	3	Ceramic coat the piston rod		rate/each	
	4	Renew the piston rod		rate/each	
	5	Renew the seals		rate/each	
	6	Renew the piston		rate/each	
	7	Hone the barrel		rate/each	
	8	Assemble and pressure test		rate/each	
	9	Grit blast and paint		rate/each	

	10	Manufacture new barrel if required		rate/each	
	12	Install new bolts and nuts to the cylinders if required		rate/each	

L) Removal and refitting of the cylinder pins	1	Remove (Lance), supply and refit cylinder pins		rate/each	
M) Hydraulic Piping	1	Supply Stainless steel pipng - 25mm diameter		rate/meter	
	2	Supply Stainless steel pipng - 16mm diameter		rate/meter	
	3	Supply flexible hoses - 1/2 inch diameter		rate/meter	
	4	Supply flexible hoses - 1/4 inch diameter		rate/meter	
	5	Supply flexible hoses - 1 inch diameter		rate/meter	
P) Butterfly Valves	1	500mm diameter valve		rate/each	
	2	350mm diameter valve		rate/each	
	3	250mm diameter valve		rate/each	
	4	200mm diameter valve		rate/each	
Q) Protective Tape	1	Remove, supply and apply protective tape		rate/meter	
R) Day Labour		1. Supervisory.		rate/hr	
		2. Skilled.		rate/hr	
		3. Semi-Skilled.		rate/hr	
		4. Unskilled (Labourer)		rate/hr	
		5. Machine shop work		rate/hr	
S) Staging		1. Tower		rate/m^3	

		2. Drop		rate/m^3	

VESSEL : ISANDLWANA				
A) Conical Bottom Valve Cylinder	1	Remove and refit	rate/each	
	2	Strip and clean for inspection	rate/each	
	3	Ceramic coat the piston rod	rate/each	
	4	Renew the piston rod	rate/each	
	5	Renew the seals	rate/each	
	6	Renew the piston	rate/each	
	7	Hone the barrel	rate/each	
	8	Assemble and pressure test	rate/each	
	9	Grit blast and paint	rate/each	
	10	Manufacture new barrel if required	rate/each	
	12	Install new bolts and nuts to the cylinders if required	rate/each	
	13	Test sensors and ensure correct signals	rate/each	
B) Self Emptying Doors	1	Remove and refit	rate/each	
	2	Strip and clean for inspection	rate/each	
	3	Ceramic coat the piston rod	rate/each	
	4	Renew the piston rod	rate/each	
	5	Renew the seals	rate/each	
	6	Renew the piston	rate/each	

	7	Hone the barrel		rate/each	
	8	Assemble and pressure test		rate/each	
	9	Grit blast and paint		rate/each	
	10	Manufacture new barrel if required		rate/each	
	12	Install new bolts and nuts to the cylinders if required		rate/each	
	13	Allow for scaffolding for the removal and refitting.		rate/each	
	14	Test sensors and ensure correct signals		rate/each	

C) Draghead Gantry Cylinder	1	Remove and refit		rate/each	
	2	Strip and clean for inspection		rate/each	
	3	Ceramic coat the piston rod		rate/each	
	4	Renew the piston rod		rate/each	
	5	Renew the seals		rate/each	
	6	Renew the piston		rate/each	
	7	Hone the barrel		rate/each	
	8	Assemble and pressure test		rate/each	
	9	Grit blast and paint		rate/each	
	10	Manufacture new barrel if required		rate/each	
	12	Install new bolts and nuts to the cylinders if required		rate/each	
	13	Allow for scaffolding for the removal and refitting.		rate/each	
D) Intermediate Gantry Cylinder	1	Remove and refit		rate/each	
	2	Strip and clean for inspection		rate/each	
	3	Ceramic coat the piston rod		rate/each	
	4	Renew the piston rod		rate/each	
	5	Renew the seals		rate/each	
	6	Renew the piston		rate/each	
	7	Hone the barrel		rate/each	
	8	Assemble and pressure test		rate/each	
	9	Grit blast and paint		rate/each	

	10	Manufacture new barrel if required		rate/each	
	12	Install new bolts and nuts to the cylinders if required		rate/each	
	13	Allow for scaffolding for the removal and refitting.		rate/each	

E) Trunnion Gantry Cylinder	1	Remove and refit		rate/each	
	2	Strip and clean for inspection		rate/each	
	3	Ceramic coat the piston rod		rate/each	
	4	Renew the piston rod		rate/each	
	5	Renew the seals		rate/each	
	6	Renew the piston		rate/each	
	7	Hone the barrel		rate/each	
	8	Assemble and pressure test		rate/each	
	9	Grit blast and paint		rate/each	
	10	Manufacture new barrel if required		rate/each	
	12	Install new bolts and nuts to the cylinders if required		rate/each	
	13	Allow for scaffolding for the removal and refitting.		rate/each	
F) Swell Compensator Cylinder	1	Remove and refit		rate/each	
	2	Strip and clean for inspection		rate/each	
	3	Ceramic coat the piston rod		rate/each	
	4	Renew the piston rod		rate/each	
	5	Renew the seals		rate/each	
	6	Renew the piston		rate/each	
	7	Renew Damper Valve		rate/each	
	8	Hone the barrel		rate/each	
	9	manufacture new barrel if required		rate/each	

	10	assemble and pressure test		rate/each	
	11	Renew bush on compensator		rate/each	
	12	Grit blast and paint		rate/each	
	14	Install new bolts and nuts to the cylinders if required		rate/each	
	15	Allow for scaffolding for the removal and refitting.		rate/each	
G) Overflow cylinders	1	Remove and refit		rate/each	
	2	Strip and clean for inspection		rate/each	
	3	Ceramic coat the piston rod		rate/each	
	4	Renew the piston rod		rate/each	
	5	Renew the seals		rate/each	
	6	Renew the piston		rate/each	
	7	Hone the barrel		rate/each	
	8	Assemble and pressure test		rate/each	
	9	Grit blast and paint		rate/each	
	10	Manufacture new barrel if required		rate/each	
	12	Install new bolts and nuts to the cylinders if required		rate/each	
	13	Allow for scaffolding for the removal and refitting.		rate/each	

H) Dredge Valves - size: 900mm	1	Remove and refit		rate/each	
	2	Strip and clean for inspection		rate/each	
	3	Ceramic coat the piston rod		rate/each	
	4	Renew the piston rod		rate/each	
	5	Renew the seals		rate/each	
	6	Renew the piston		rate/each	
	7	Hone the barrel		rate/each	
	8	Assemble and pressure test		rate/each	
	9	Grit blast and paint		rate/each	
	10	Manufacture new barrel if required		rate/each	
	12	Install new bolts and nuts to the cylinders if required		rate/each	
	13	Test and ensure correct signals of sensors		rate/each	
I) Dredge Valves - size: 800mm	1	Remove and refit		rate/each	
	2	Strip and clean for inspection		rate/each	
	3	Ceramic coat the piston rod		rate/each	
	4	Renew the piston rod		rate/each	
	5	Renew the seals		rate/each	
	6	Renew the piston		rate/each	
	7	Hone the barrel		rate/each	
	8	Assemble and pressure test		rate/each	

	9	Grit blast and paint		rate/each	
	10	Manufacture new barrel if required		rate/each	
	12	Install new bolts and nuts to the cylinders if required		rate/each	
	13	Test and ensure correct signals of sensors		rate/each	

J) Dredge Valves - Size: 250mm	1	Remove and refit		rate/each	
	2	Strip and clean for inspection		rate/each	
	3	Ceramic coat the piston rod		rate/each	
	4	Renew the piston rod		rate/each	
	5	Renew the seals		rate/each	
	6	Renew the piston		rate/each	
	7	Hone the barrel		rate/each	
	8	Assemble and pressure test		rate/each	
	9	Grit blast and paint		rate/each	
	10	Manufacture new barrel if required		rate/each	
	12	Install new bolts and nuts to the cylinders if required		rate/each	
	13	Test and ensure correct signals of sensors		rate/each	
K) Push Ring/ Locking Pin Cylinder	1	Remove and refit		rate/each	
	2	Strip and clean for inspection		rate/each	
	3	Ceramic coat the piston rod		rate/each	
	4	Renew the piston rod		rate/each	
	5	Renew the seals		rate/each	
	6	Renew the piston		rate/each	
	7	Hone the barrel		rate/each	
	8	Assemble and pressure test		rate/each	
	9	Grit blast and paint		rate/each	

	10	Manufacture new barrel if required		rate/each	
	12	Install new bolts and nuts to the cylinders if required		rate/each	
L) Removal and refitting of the cylinder pins	1	Remove (Lance), supply and refit cylinder pins		rate/each	
M) Hydraulic Piping	1	Supply Stainless steel piping - 25mm diameter		rate/meter	
	2	Supply Stainless steel piping - 16mm diameter		rate/meter	
	3	Supply flexible hoses - 1/2 inch diameter		rate/meter	
	4	Supply flexible hoses - 1/4 inch diameter		rate/meter	
	5	Supply flexible hoses - 1 inch diameter		rate/meter	
P) Deck Crane	1	¾ multi spiral hose c/w stainless steel fittings 1.2 meter		rate/each	
	2	3/8 multi spiral hose c/w stainless steel fittings 1.2 meter		rate/each	
	3	1 ¼ 2 wire hose c/w ss fittings 600 mm		rate/each	
	4	¾ BSP adaptor		rate/each	
	5	3/8 BSP adaptor		rate/each	
	6	1 ¼ BSP adaptor		rate/each	
	7	¾ dowty washer ss		rate/each	
	8	3/8 dowty washer ss		rate/each	
	9	1 dowty washer ss		rate/each	
	10	1 ¼ dowty washer		rate/each	
	11	Filter element		rate/each	

	12	Filter gauge		rate/each	
	13	¼ SS flow control valve		rate/each	
Q) Proctective Tape	1	Remove, supply and apply protective tape		rate/meter	
R) Day Labour		1. Supervisory.		rate/hr	
		2. Skilled.		rate/hr	
		3. Semi-Skilled.		rate/hr	
		4. Unskilled (Labourer)		rate/hr	
		5. Machine shop work		rate/hr	
S) Staging		1. Tower		rate/m^3	
		2. Drop		rate/m^3	
VESSEL : ITALENI					
A) Bottom Door Cylinder	1	Remove and refit		rate/each	
	2	Strip and clean for inspection		rate/each	
	3	Ceramic coat the piston rod		rate/each	
	4	Renew the piston rod		rate/each	
	5	Renew the seals		rate/each	
	6	Renew the piston		rate/each	
	7	Hone the barrel		rate/each	

	8	Assemble and pressure test		rate/each	
	9	Grit blast and paint		rate/each	
	10	Manufacture new barrel if required		rate/each	
	12	Install new bolts and nuts to the cylinders if required		rate/each	
	13	Test sensors and ensure correct signals		rate/each	
B) Removal and refitting of the cylinder pins	1	Remove (Lance), supply and refit cylinder pins		rate/each	
C) Butterfly Valves	1	Remove, supply and install 200mm diameter valve		rate/each	
	2	Remove, supply and install 100mm diameter valve		rate/each	
	3	Remove, Supply and install 125mm diameter valve		rate/each	
	4	Remove, supply and install 350mm diameter valve		rate/each	
D) Hydraulic Piping	1	Supply and install 12x2mm steel piping		rate/meter	
	2	supply and install 22x2mm steel piping		rate/meter	
	3	Supply and install 30x3mm steel piping		rate/meter	
	4	Supply and install 42x3mm steel piping		rate/meter	

	5	Supply and install 1.5 inch flexible hose		rate/meter	
E) Proctective Tape	1	Remove, supply and apply protective tape		rate/meter	
F) Return oil filter	1	Remove and refit filter element		rate/each	
	2	renew 10 micron filter element		rate/each	
I) Day Labour		1. Supervisory.		rate/hr	
		2. Skilled.		rate/hr	
		3. Semi-Skilled.		rate/hr	
		4. Unskilled (Labourer)		rate/hr	
		5. Machine shop work		rate/hr	
J) Staging		1. Tower		rate/m^3	
		2. Drop		rate/m^3	

VESSEL : MOHOMA					
A) Directional Control Valves	1	Supply and install control valves		rate/each	
B) Proctective Tape	1	Remove, supply and apply protective tape		rate/meter	
D) Day Labour		1. Supervisory.		rate/hr	
		2. Skilled.		rate/hr	
		3. Semi-Skilled.		rate/hr	
		4. Unskilled (Labourer)		rate/hr	
		5. Machine shop work		rate/hr	
E) Hydraulic Piping	1	Supply and install 12x2mm steel piping		rate/meter	
	2	supply and install 22x2mm steel piping		rate/meter	
	3	Supply and install 30x3mm steel piping		rate/meter	
	4	Supply and install 42x3mm steel piping		rate/meter	
	5	Supply and install 1.5 inch flexible hose		rate/meter	
F) Staging	1	Tower		rate/m^3	
	2	Drop		rate/m^4	
TOTAL COST FOR YEAR 1 (EXCL. VAT)					
TOTAL COST FOR YEAR 2 = TOTAL COST FOR YEAR 1					
TOTAL COST FOR YEAR 3 = TOTAL COST FOR YEAR 2					
VAT (15%)					
GRAND TOTAL FOR THREE (3) YEARS (INCL. VAT)					