C 2.2. BILL OF QUANITIES

PROJECT NO: 529

APPOINTMENT OF A PANEL OF THREE (03) SERVICE PROVIDERS FOR THE SUPPLY AND DELIVERY OF MACHINERY AND EQUIPMENT FOR FIRE AND RESCUE SERVICE AS AND WHEN REQUIRED FOR A PERIOD OF 36 MONTHS.

No	Description	Unit	Rate				
	Appointment of a panel for service providers for the supply and delivery of machinery and equipment for fire and rescue services as and when required for a period of 36 months						
1.1	Appointment of a panel for service providers for the supply and delivery of machinery and equipment for fire and rescue services as and when required for a period of 36 months Nkangala District Municipality consider the fact that fire fighting equipment is a vital part of any emergency response team. It can help save lives, as well as protect property and assets.		months				

Scope firefighting equipment's

Description	RESCUE AND EXTRICATIONS	QTY	YEAR 1	YEAR 2	YEAR 3
1. Portable Generator	7KVa Capacity AVR Fuel type Petrol 25L tank size With Wheels Electric Key Start Overload protection 230v 50Hz	1			
2. Hydraulic power unit	Hydraulic oil tank capacity - min. 5I/max. 7I Working pressure nominal - 100 bar Pressure relief valve set at - 110 bar	1			
3. Hydraulic spreader	Double action cylinder Ergonomically shaped control handle with integrated safety device and piloting Set of hoses 0.5m long, with automatically locking antipollution HP quick action	1			

			T	ı	
	couplers fitted with metal				
	protection plugs				
	2 Forged high strength light				
	alloy arms fitted with				
	interchangeable serrated tips				
	without tools. The tips are				
	made from high strength,				
	hardened and anti-corrosion				
	treated steel				
4. Hydraulic shears	CU 4035 C NCT II cutter	1			
,	Versatile blade design with	_			
	straight toothed part of the				
	blade for grip and cutting				
	performance, curved outer				
	· -				
E Hydraulia rarea	part to pull material	1			
5. Hydraulic rams	Stroke 156mm	1			
	Capacity 10t				
	Closed Height 247mm				
	Single/Double Acting Single				
	Manufacturer Series				
	RC Extended Height 403mm				
	Cylinder				
	Effective Area 14.5cm ²				
	Oil Capacity 226cm ³				
	Outside Diameter 57mm				
	Maximum Operating				
	Pressure 700bar				
	Weight 4.4kg				
6. High lift jack	All-cast construction.	1			
	3175kg tested capacity.				
	1.5m long.				
	Top winch-connector clamp is				
	fitted as standard.				
	High quality and durable red				
	powder coated finish.				
	Safe use information including				
	rated load details and				
	operating instructions attached				
	to product.				
	Two-piece handle and socket,				
	proven to be the most reliable				
	and effective design.				
	_				
7 Transh	Lifts, winches, clamps, & more.	1			
7. Trench screw	Max. working pressure 12 / 1.2	1			
jacks cribbing	(bar/Mpa) 174 psi				
air chisel	locking system locknut				
	strut type pneumatic				
	Performance stroke 1030 mm				
	40.6 in				

retracted length 1620 mm 63.8 in extended length 2650 mm104.3 in force at working pressure 6 / 0.6 (kN/t) Dimensions, weight and temperature weight, ready for use 18 kg 39.7 lb dimensions (AxBxC) 1620 x 100 x 100 mm 63.8 x 3.9 x 3.9 in Voltage: 220 Vilt's rated IP65 1 meaning it's ideal for outdoor situations where wind, dust & rain is expected Lumens: 1000 Light Angle: 120 Material: Aluminum 9. Various air bags (high- and / or low pressure low pressure light weight, flexible as well as durable. The non-slip design provides grip on all surfaces. 10. Block and tackle / turfor (comealong) system				
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tested to meet safety and performance standards. Operating Mechanism: Manual or electric, with manual systems typically using a hand chain to operate the	A certific	ate may be provided		
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Operating Mechanism: Manual or electric, with manual systems typically using a hand chain to operate the	tested to	meet safety and		
Manual or electric, with manual systems typically using a hand chain to operate the	perform	nce standards.		
manual systems typically using a hand chain to operate the	Operatir	g Mechanism:		
a hand chain to operate the	Manual	r electric, with		
· I I I I I I I I I I I I I I I I I I I	manual	ystems typically using		
lifting mechanism	a hand c	ain to operate the		
men's meenanism	lifting m	1	i	
Safety Features:	III lill g III	chanism.		

	Brakes, overload protection, and other safety features may be included			
11. Traffic cones	Weight: 1kg Dimensions: 27 x 27 x 47cm Material: Plastic Colour: Orange	1		
12. Window breaker or window punch	Window punch is rescue tool. It is made of anodized aluminum with heat-treated steel head. Its spring mechanism allows for breaking the window in a controlled manner.	1		
13. Cervical collar (small. Medium and large	Collar adjust from neckless to tall adult neck sizes. Stores completely flat. Horizontal sizing line. Flip chin piece for easy airway access. Nasal cannula holders located on collar body.	1		
14. Short spine board / K.E.D and Long spine board	Large - 850 mm Width - 400 mm Height - 15 mm Weight - 3,5 Kg Load capacity - 150 Kg	1		
15. Scoop stretcher	Material: aluminium alloy Colour: Silver Expanded size: 214 * 42 * 7cm Folding size: 167 * 42 * 7cm Packing size: 170 * 44 * 7cm Maximum load: 159kg Net weight: 8kg packing list: 1X stretcher	1		
16. Head blocks	Side blocks with wide Velcro closures, allowing for a snug fit. Should come with a head/chin straps and a base plate that fastens easily to the board. No metal components. It's waterproof and buoyant, perfect for water rescues. Easy to clean and disinfect for reuse. The Head Immobilizer is made with the highest grade of foam with a vinyl coating that is sure to last.	1		
17. Spider hardness	Colour Coded Webbing with Velcro Straps thread through	1		

	Tuber beautiful and a second and			1	
	the board and secure around				
	the patient using buckles				
	Size adjustable from paediatric				
	to adult. Compatible with				
	almost any spine board or				
	scoop stretcher Stores easily				
10.0.1	FORCIBLE EN		T	I	I
18. Carborandum Cutter	Abrasive Material: Silicon Carbide (also known as Carborandum). Bond: Resin or reinforced bond for durability and safety. Shape: Typically disc-shaped, with various diameters and thicknesses available. Cutting Speed: Designed for efficient cutting, Applications: Cutting metal (steel, stainless steel), plastic, and other materials. Reinforced: Reinforced discs	1			
19. Halogan Tool/Bar	It features electrostatic paint for increasing the tool's resistance against harsh weather conditions. This halligan bar has all forged, high carbon heat-treated steel construction for preventing bending / breaking due to hard impacts against solid and metallic surfaces. It has a long stem for maximising leverage and minimising force requirement.	1			
20. Pick head Axe	8 lbs. Pick head Axe; 36 in. Fiberglass Handle	1			
21. Pry Axe	Top Cut axe blade design.	1			
	Long, sharp, tapered pike. Spanner wrench built into the axe head. Extendable, lockable, replaceable claw inserts. Tool head and claw inserted				
	forged from high alloy steel				

	and heat treated for maximum strength.			
	High-phosphorous eletroless nickel plating for hardness, wear resistance and corrosion protection.			
	3 interchangeable claw designs: standard, cutting and compact.			
	Unique locking lever allows the tool to be used in two positions, closed and extended.			
	Molded rubber handle offers a non-slip grip.			
	Hole in the tool head to insert the claw shaft to pry and split in forcible entry.			
22. Hack Axe	Handle length: 845mm Axe weight: 4.5lb	1		
23. Ceiling hook	A traditional pike pole fitted to a pole constructed of fiberglass strands pultruded over a Honey comb core offers strength, safety, durability and	1		
24. Rotary/Circular	it easy to manoeuvre Saw Type - Circular Saw	1		
saw	Corded/Cordless - Cordless Diameter - 20mm Brushed/Brushless Motor - Brushed Blade Diameter - 165mm Maximum Speed - 3700rpm Voltage Rating- 18V Battery Type - Body Only			
25. Reciprocating Saw	Saw Type - Circular Saw Corded/Cordless - Cordless Diameter - 20mm Brushed/Brushless Motor - Brushed Blade Diameter - 165mm Maximum Speed - 3700rpm Voltage Rating- 18V Battery Type - Body Only	1		
26. Bolt Cutter	Model: 10244 Made of: steel	1		

	1		1	1
	Cutting ability up to 3/8 inch or			
	1cm			
	Length: 24inch or 600mm			
	Weight: 5lb or 2.26kg			
27 Co. Los	24 inch bolt cutter	4		
27. Crawbar	Made of carbon steel	1		
	Heat treated, polished and powder coated			
	Bar length: 24in or 600mm			
	Bar thickness 13/16 or 20mm			
	Chisel width: 1-3/16in or			
	30mm			
	Claw width: 1-5/16 or 35mm			
	Colour: bright orange			
	Weight: 4lb or 1.8kg			
28. Sledge Hammer	hammer sledge 6.3kg	1		
	Rubber handle 750mm			
29. Claw Hammer	Weight of Head - grams - 570 g	1		
	Length [mm]- 340 mm			
30. Chisel	1 1/2" (38mm) Fire sharp			
	Heavy Duty Masonry Chisel			
31. Fire blankets	Working temperatures: up to	1		
	1000°C			
	Fireproof material: according			
	to DIN 4102 with normative			
	against fire BS 476			
	Flashpoint: +1200°C			
	Melting point: +1450 – 1650°C			
	Thermal shock: 300°C			
	Auto ignition: 435°C at 100% O ²			
		\ED0		
22. 6' . . .	GROUND LADI	_		
32. Single ladder	Safe working load : 115kg	1		
	Maximum static vertical			
	load : 150kg Steps: 22			
	Height: 6.0m			
	Wide rung for long term			
	comfort			
	Slip resistance ladder feet			
	for added safety and			
	stability			
	Dimension 6000(L) x 430			
	(W) X 65 (H) mm			
33. Roof ladder	2-Piece integral set that	1		
	transforms a Modular			
	Scaling Ladder into a roof			
	ladder			
	Foldable and easy to stow			
	Includes rubber spacer to			
	protect roof from damage			

	I		I	
	Wheels make it easy to			
	roll the ladder up the roof			
	pitch to a secure hooked			
	position			
34. Folding ladder	Tested and manufactured	1		
	according to EN 1147 and			
	BS			
	Built with 28 mm			
	reinforced square-profile			
	rungs that are milled and			
	welded to the beams			
	Joints lock into place and			
	ensure a secure climb			
	Can be used as both a			
	stepladder and leaning			
	ladder			
	Suitable for a maximum			
	load of 2 persons			
35. Extension ladder	Tested and manufactured	1		
	according to ÖNORM F			
	4047 and EN 1147			
	standards			
	Staridards			
	Built with swaged			
	Built with swaged			
	firefighting rungs (34 mm			
	in diameter) which are			
	milled into the beams			
	Equipped with side			
	mounted slide guides			
	which reduce friction for			
	smooth extension with			
	minimal pull-out force			
	needed			
	New ladder slide guides			
	eliminate the need for			
	guide brackets			
	Name and the state			
	New rope brake:			
	immediately prevents the			
	ladder from collapsing, as			
	well as aids the ladder in			
	folding smoothly			
	New design allows for			
	more stability with less			
	weight			
	Suitable for a maximum			
	load of 2 person			
	load of 2 person			

HOSES	AND HOSE FITTINGS				
36. Rubber hoses	Outer / Inner: Rubber	1			
	layers with adhesion				
	layers.				
	Bursting Pressure: 62 bar				
	(6200 kPa)				
	Testing Pressure: 24 bar				
	(2400 kPa)				
	Working Pressure: 16 bar				
	(1600 kPa)				
	Diameters Available: 38,				
	45, 65, 100 mm				
	Designed especially for				
	firefighting, chemical				
	spillage, wash down,				
	water transfer, marine				
	mining, oil field and				
	construction.				
37. Double jacket hose	Service Pressure - 400	1			
	psi. Test Pressure - 800				
	psi. Burst Pressure -				
	1,200 psi. Inside Diameter - 3 inches. Lay Flat Width				
	- 5.5 inches. Length - 25				
	feet. Couplings - 3"				
	NH/NST fire hose				
	threads. Material - Double				
	jacket polyester. Lining -				
38. Divider breaching	Inside rubber. Colour - red Suitable for 2.5" (64mm)	1			
(Siamese wye)	lay flat hose	-			
(Siamese wye)	Inlet: 2½" Instantaneous				
	Male to BS 336				
	Outlet: 2 x 2½"				
	Instantaneous Female to				
	BS 336				
	Gunmetal				
39. Collector breaching	Size and Threads:	1			
(Siamese wye)	Common sizes include	_			
(0.0	2.5" and 4", with various				
	thread types like Storz,				
	NH, and NST.				
	Material Specifications:				
	Aluminum alloy (hardcoat				
	anodized and powder				
	coated) and brass are				
	common.				
	Pressure Rating: Must be				
	capable of withstanding				
	the pressures				
	encountered in fire				
	suppression operations.				
	suppliession operations.		l	l .	l

	NEDA C. III. OC.		1	
	NFPA Compliance: Often			
	built to meet National			
	Fire Protection			
	Association (NFPA)			
	standards.			
	Corrosion Resistance:			
	Essential for long-term			
	reliability and			
	performance in harsh			
	conditions.			
40. Hand Controlled 2-	Aluminium Magnesium	1		
Way Divider	Alloy	_		
way bividei	Valve body is ADC12			
	Anodized surface Anti-			
	Corrosion treatment			
	process			
	Plastic spray valve body			
	25 bar Nominal pressure			
	37 bar Test pressure			
	Suitable for Water, water			
	and foam mixture			
41. 3 X way divider	Aluminium Magnesium	1		
/collector breaching	Alloy A6061			
	Valve body is ADC12			
	Anodized surface Anti-			
	Corrosion treatment			
	process			
	Plastic spray valve body			
	25 bar Nominal pressure			
	37 bar Test pressure			
	Suitable for Water, water			
	and foam mixture			
42. Hard suction hose	High quality pvc with rigid	1		
42. Hard Saction Hose	pvc helix 6 inches (15.2	_		
	cm) in diameter. Large			
	diameter hose are carried			
42.11	on full-size fire engines,			
43. Hose washer	Material:	1		
	Typically made from			
	rubber (like EPDM) or			
	other durable, flexible			
	materials. Shape: Often			
	flat, circular, or slightly			
	curved to fit snugly within			
	the connection.			
	Size: 16x13mm (for			
	garden taps) and			
	19x11x2mm (for flexi			
	hoses).Thickness:			
	Standard thickness is			
	crucial for proper sealing.			
	1 stacial for proper scaling.		l .	l .

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	Pressure Rating: May					
	have a pressure rating,					
	especially for hoses used					
	with pressure washers or					
	in industrial applications.					
	Compatibility: Must be					
	compatible with the fire					
	hose and fitting size and					
	types					
44. Hose spanner	Fits 1 1/2" and 2 1/2"	1				
	storz couplings					
	Length - 10 inches					
	Material - Aluminium					
45. Double female	Siamese Wye 3 X 2.5 X 2.5	1				
adapter	All Female					
46. Double male adapter	Usage: To connect two	1				
	pipe together					
	Size: As per client's need					
	Sturdiness					
	Excellent strength					
	Elevated durability					
47. Hose ramps / bridges	This open solid rubber	1				
	hose bridge also called					
	cable bridge, The					
	maximum diameter of the					
	cables that can be used in					
	the bridge is 120 mm. The					
	maximum carrying weight					
	of the cable tray is 20					
	tons. Cables are easy to					
	store in the cable bridge					
	VENTILATIO	NS				
48. PPV (Positive	Superior and stable airflow	1				
Pressure ventilator)	characteristics					
·	Compact design with fold-					
	out towing handle and					
	frame tilt mechanism					
	Hard wearing 150 mm					
	rubber wheels					
	Smooth reliable operation					
	Lightweight ergonomic					
	design for fast deployment					
	Carrier frame protects the					
	equipment at the fire scene					
	Oil alert protection system					
	guards against damage					
	from low oil production					
	LOSS CONTR	ROL				
2000 00111102						

					г
49. 2m X 2m salvage	The flame retardant process	1			
sheet	used will NOT be removed by				
	washing and is effective for				
	the life of the fabric.				
	NFPA 701 certified				
	Rip Stop base fabric				
	High UV resistance				
	These covers last!				
FO Em VEm calvago	with The Reflective Edge The flame retardant process	1			
50. 5m X 5m salvage	used will NOT be removed by	1			
	washing and is effective for				
	the life of the fabric.				
	NFPA 701 certified				
	Rip Stop base fabric				
	High UV resistance				
	These covers last!				
	with The Reflective Edge				
FIRE STREAMS					
51. Adjustable nozzle	Heavy-duty, aluminum metal	1			
	adjustable spray patterns:				
	ergonomic design with non-				
	slip grip				
52. Solid stream	Model NW 500 & 700 with 3"	1			
nozzle	BSP inlet				
	Model NW 1000 with 4" BSP				
	inlet				
	Inlet connection size 3" BSP				
	female for model NW 500 &				
	NW 700				
	Inlet connection size 4" BSP				
	female for MODEL NW 1000				
	Fixed gallonage heavy duty				
	Nozzle for use with monitors Fix flow 1900, 2650, 3785 lpm				
	(500, 700 & 1000 gpm)				
	Excellent water stream				
53. Master stream	Integrated ball valve to	1			
device	control flow of water to the				
	monitor with MANUAL gear actuator				
	with Electric or Manual				
	Stream Master II				
	90° discharge valve with 2 ½"				
	NH threads for extension of				
EA Foom in duster	hose	4			
54. Foam inductor	Material: Aluminium Allow	1			
	Foams: AFFFF, AR-AFFF,				
	Protein			1	

	T	I		
	Sizes: 225, 450, 950 l/min			
	Expansion Ratio: 7:8			
	Inlet: BIC 65 mm			
	Flow Rate: @7 bar			
	Throw Range: 22, 25, 40 m @			
	7 bar			
55. Gas detector	Small size and light-weight	1		
	Simple operation with only 1			
	button Adjustable alarm			
	levels and span calibration			
	value. STEL & TWA alarm for			
	toxic gases Self-protection for			
	combustible gas sensor			
	against high concentration.			
	Battery low voltage alert.			
	Confidence beep. Self-test			
	after power on. Self-			
	diagnostic and self-correction			
101.0	function			
	TER SUPPLY			
56. Stand pipe, key &	Hydrant Standpipe Key. Size:	1		
bar	1.3/4"			
	AF Head with 980mm handle			
57 Bestelle Cons	length.			
57. Portable foam	Flow Rate: Measured in litres	1		
pump	per minute (L/min) or cubic			
	meters per hour (m³/hr),			
	indicating the volume of foam			
	solution pumped per unit of			
	time.			
	Pressure: Measured in bar or			
	psi, indicating the force with			
	_			
	which the foam solution is			
	delivered.			
	Materials: Often constructed			
	with corrosion-resistant			
	materials like stainless steel			
	and bronze to handle various			
	foam concentrates.			
	Connection Types: Flanged,			
	grooved, or threaded			
	connections for water and			
	foam concentrate lines.			
	Speed: Maximum pump			
	speed in revolutions per			

minute (RPM) often specified.		
Viscosity: Maximum viscosity of the foam concentrate that the pump can handle.		
Compatibility: Specific foam concentrates that the pump is designed to work with, often adhering to industry standards like EN 13565-1 and NFPA 11.		

SUB-TOTAL (All Items)	
PLUS 15% VALUE ADDED TAX	
TOTAL AMOUNT TO BE FORWARDED TO FORM C 1.1 (FORM OF OFFER)	

Notes:

LOCATION OF WORKS

- 1. The final product must be delivered to Thembisile Hani Fire Station (Tweefontein E next to Miliva garage & Dr JS Moroka Fire station at Vaalbank & Nokaneng satellite fire station where each unit will be tested and inspected to ensure compliance.
- 2. The total amount should include delivery fee