7 METRIC TONNE KNUCKLE BOOM CRANE TRUCK WITH ROLL OFF HOIST

	SPECIFICATIONS	YES	NO	DEVIATION
	GENERAL REQUIREMENT/CHARACTERISTICS			
1	Make:	I		
2	Model:			
3	Chassis:			
4	Need: current need is for a crane truck with the attachments to assist the drainage team with the cleaning	g of local	canals a	and drainage pits, truck hauls
	debris from drainage pits and canals. Need mechanisms for roll-on/roll-off container movement.			
	VEHICLE DIMENSIONS AND WEIGHT			
5	Overall length: not exceeding 315 inches			
6	Overall width: not exceeding 94 inches			
7	Overall height: not exceeding 10 foot 2 inches			
8	Gross vehicle weight (fully loaded): not exceeding 36,000 lbs.			
9	Engine capacity: not exceeding 6,000 c.c.'s			
10				
	FRAME AND EQUIPMENT	-		
11	Steel Rails and Steel Cross members: 10-1/4 inch			
12	Wheelbase: 138 inches to 146 inches			
13	Frame Components BOC to Rear Front Spring Hanger: bolted			
14	EOF Square without crossmember; for use with body builder installed crossmember			
15	Include: mud flaps, side storage boxes and hangars			
	FRONT AXLE AND EQUIPMENT	-		
16	Front Axle: 12,000 lb. Axle is designed for applications with a gross axle			
	Weight rating (GAWR) of 12,000 lb. The axles should have exclusive one-piece forged			
	Knuckle including steer arm, tie rod arm and spindle. This feature helps in greater			
	reduced maintenance.			
17	Springs: Taper Leaf Springs, Shocks 12,000 lb			
18	Steering: Power Steering, 12K Capacity, Single Power			
19	Hubs: Hubs-Air Disc or equivalent			
20	Brakes: Air Disc Front Brakes, complies with reduced stopping distance regulations.			
	REAR AXLE AND EQUIPMENT			
21	Rear Axle: 21,000 lb			
22	Hubs: Iron Hubs, 11-1/4 inch bolt circle. Provide extended coverage up to 3 yearyears/			
	Years / 350,000 miles for bearings and seals or equivalent.			
23	Brakes: Drive Axle(s). Recommend Standard Stroke Parking Brakes.			
24	Differential Lock: Rear-Rear or Single Drive Axle (Air Rocker Switch occupies the space of			
	Guage) recommend.			
25	Drive Axle(s): Gusseted Cam Brackets or equivalent			
26	Spring Brake Modulation Valve: recommend a spring brake modulation (SBM) system for			
	Emergency braking application. This system requires an SBM valve and a relay valve with			
	Brakes on the rear axles. The SBM valve allows the foot valve to operate the rear axle			
07	Brakes if a failure exists in the rear air system.			
27	Electronic Braking System: Electronic Baking System with AntiLock Brakes and			
00	ATC			
28	Drum Brakes: Air Cam Rear Drum Brakes 16.5x7, includes Automatic			
00	Slack Adjusters and Out board Mounted Brake drums.			
29	Axle Ratio: recommend a Ratio 6.50 Rear Axle			
30	Taper Leaf: Taper Leaf 21,000 lb			
31	Shock Absorbers: Heavy-Duty Shock Absorbers – single drive suspension			
	Drive suspension.			

	ENGINE AND EQUIPMENT		II	
		VEO		
		YES	NO	DEVIATION
32 33	Engine capacity: not to exeed 6,000 c.c.'s			
33	Efficiency: (2018) Emissions) include aluminum flywheel housing, cruise control, provide			
24	Interface point for Electronic Service Analysis and other approved diagnostic tools.			
34	Oil Drain plug: ensure oil engine oil plug is magnetic, it captures and holds any metal			
25	fragments in engine oil to extend service life.			
	Engine oil: ensure engine oil is specially formulated for new low emissions engines.			
36	Engine and Equipment, recommended: Standard Maximum Speed Limit,			
	Expiration distance, hard maximum speed limit, maximum accelerator pedal, speed limit,			
	Accelerator, pedal vehicle speed, maximum cruise speed, reserve speed function reset			
	Maximum cycle distance, maximum active distance, reserve speed limit offset, engine			
	Shut down, gear down protection, Max PTO speed, cruise control auto resume, auto engine			
	In cruise, expiration distance, enable idle shut down park brake set, timer setting, enable			
	Impending shut down warning, timer for impending shutdown warning, engine load			
	Shutdown manual overrule, enable hot ambient automatic overrule, low ambient			
	threshold, intermediate ambient temperature threshold, high ambient temperature			
	threshold.			
37	CARB Engine Idling Compliance: include the required factory installed serialized sticker on			
	Door to identify them as meeting the NOx idling standard.			
	Alternator: 160 amp Alternator, Brushed recommended.			
39	Cold Start: Cold start Engine Grid Heater, effective to -4 F / -20 C			
	Starter: 12V Delco starter or equivalent			
41	Battery: 2 Premium 12V Dual purpose Battery 1460 CCA or equivalent, threaded stud type			
	terminal. Stranded copper battery carles are double aught (00) or larger to reduce			
40	resistance.			
	Battery Switch: Battery Disconnect Switch, mounted on battery box.			
43	Clutch fan: Viscous Type Fan Clutch			
	Air Compressor: must be able to produce 18.7 CFM and must have Teflon lined stainless			
45	Steel braided compressor discharge lines.			
45	Cooling System: preferred cooling module should be a combination of steel and aluminum		┝──┤	
	Components, with aluminum connections to maximize performance and cooling capability.		┝──┤	
	Please provide silicone based radiator and heater hoses that will enhance value, durability		┝──┤	
	And reliability. Include constant tension band clamps to reduce leaks. Use ClimaTech		┝──┤	
	Coolant or equivalent to reduce maintenance costs. Anti-freeze effective to -30 degrees F			
	Helps protect the engine. Provide low coolant level sensor's, which will warn of low level			
	Coolant conditions and prevent engine damage. Suggested radiator sizes by Model:			
	587: 1330 sq in, 579/367 FEPTO 1325sq in, 567/365/367: 1440 sq in, 384/386: 1301 sq in, 365			
46	FEPTO: 1184 sq in, 389/367 HH: 1669 sq in, 348: 100 sq in, 320: 1242 sq in.		┝──┤	
	Air Cleaner: minimum of 1 Air Cleaner fender Mounted RH BOC			
	Air Intake: High Air Intake			
	Exhaust: single RH Horizontal Exhaust Under Frame.			
	TRANSMISSION AND EQUIPMENT			
49	Transmission: Preferred Allison – Generation 5, rugged duty deries, TranSynd Automatic			
	transmission Fluid, and Water Oil Heat Exchanger. Include features that monitor the			
	transmission fluid, filter and clutch condition. Ensure the displays are installed which show			
	indicate the life remaining for the transmission fluid, filter and clutches on the shift selector.			
 	information can be displayed using the Mode and up and down buttons. Provide icons to			

	indicate when the transmission fluid, filter or clutches need servicing.		
50	Driveline: recommended SPL100 Driveline, and minimum of 1 Midship Bearing		
51	PTO Controls: preferred dash mounted PTO switch and chassis harness to PTO		
52	Recommendation Allison FuelSense Basic: include 5 th Generation Controls, Controls,		
	Dynamic Shift Sending.		
53	Transmission Console: recommendation provide Console Mounted Push Button Shifter		
	Allison transmissions.		
54	Gear Ratio: recommendation provide Allison 5-Speed Configuration, wide Ratio Gears		
	Allison 3500 Transmission.		
	AIR AND TRAILER EQUIPMENT		
55	Air Dryer: Air Dryer w/Heater and Coalescing Filter		
56	Air Tanks: all air tanks should be steel with painted finish except when Code 4543330 Polish		
	Aluminum Tanks is selected (then exposed air tanks outside the frame rails will be polished		
	Aluminum). Builder will determine the optimal size and location of required air tanks.		
	TIRES AND WHEELS		
58	Recommended Tires and Wheels: FF: BR 16ply 255/70R22.5 R250ED. Diameter = 36.7 inches;		
	SLR = 17.2 inches		
59	Recommended Tires and Wheels: RR: BR 16ply 255/70R22.5 M726. Diameter 37.3 inches; SLR =17.4		
	inches		
	Rear Tire Quantity four (4)		
60	Recommended Tires and Wheels: FF: Steel Armor PK 22.5X8.25		
	2 hand holes		
61			
	Rear Rim Quantity four (4)		
	FUEL TANKS		
62	Fuel Tank Recommendation: 45 Gallon Rectangular Fuel Tank LH BOC; Location LH BOC 45 Gallon		
63	DEF Tank location recommended: Mounted LH BOC		
64	Recommended DEF Fuel Ration: Standard DEF to Fuel Ration 2:1 Or greater		
	BATTERY BOX AND BUMPER	 	
	Steel Battery Box: recommended location RH BOC; can be mounted on the RH frame rail.		
	Battery Box Cover: Aluminum		
67	Steel Bumper: Painted Grey		
	CAB AND EQUIPMENT	 T	
	Cab: Steel RH Drive, Cab Over Type		
69	Recommended Seating arrangement: Driver Seat, Passenger Seat, Third Passenger Seat		
	Air Ride Driver		
	High Back Driver		
	Fabric Driver		
	Air Ride Passenger		
	High Back Passenger		
	Fabric Passenger		
	Jump Seat passenger		
	Fabric Passenger		
	Adjustable Steering Column – Tilt Only		
	Rear Wall Storage		
70	Interior Gray: include view window in RH door and 18 inch 4-spoke foam soft-touch steering		
	Day Cab Rear Window		
	One Piece Curved Windshield		
	Electric Powered Window Lift, LH/RH		
71	Recommended Heater/Air conditioner requirements: Combo Fresh Air Heater/Air Conditioner with		
	Radiator mounted condenser, dedicated side window defroster, Bi=Level Heater/Defroster		

54,500 BTU/HR, and silicone heater hoses. Image: Contemportal Stress and St	-			
73 Radio: AM/FM		54,500 BTU/HR, and silicone heater hoses.		
74 Wipers: Electric Windshield Wipers with intermittent Feature Image: Section of the section o		Mirrors: LH/RH Driving Mirrors Heated/Motorized		
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76 Back up Camera: Back up camera Wiring to EOF	74	Wipers: Electric Windshield Wipers with intermittent Feature		
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Strobe Light on Truck Roof and Spot Light on Truck Cab Image: Contemport of the second se		Five (5) Marker Lights		
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Transmission, Ratchet Hold Down Straps, Bumper with recessed LED lights and ICC Bumper,Image: Comparison of the type comparison of type comp		For 2 Spool Valve, 2 Spool Valve, Rear Vision Camera System w/monitor mounted on dash in cab,		
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KNUCKLE BOOM CRANE 83 Capacity: Recommendations; 7 Metric Tonnes, Pick Up, 2,020LB at 40 foot (Max Reach). Image: Capacity: Recommendations; 7 Metric Tonnes, Pick Up, 2,020LB at 40 foot (Max Reach). Image: Capacity: Recommendations; 7 Metric Tonnes, Pick Up, 2,020LB at 40 foot (Max Reach). Image: Capacity: Recommendations; 7 Metric Tonnes, Pick Up, 2,020LB at 40 foot (Max Reach). Image: Capacity: Recommendations; 7 Metric Tonnes, Pick Up, 2,020LB at 40 foot (Max Reach). Image: Capacity: Recommendations; 7 Metric Tonnes, Pick Up, 2,020LB at 40 foot (Max Reach). Image: Capacity:		Lights Mounted in Rear Bumper, Dump Capacity to Carry 5 Metric Tonnes. Recommended -		
83 Capacity: Recommendations; 7 Metric Tonnes, Pick Up, 2,020LB at 40 foot (Max Reach). Image: Capacity: Recommendations; 7 Metric Tonnes, Pick Up, 2,020LB at 40 foot (Max Reach). Image: Capacity: Cap		Galbreath Hoist.		
5 Hydraulic Extensions on Outer Boom, Radio Remote Controls, 2 Hydraulic Out and Image: Control of the second		KNUCKLE BOOM CRANE		
Down Outriggers, Hydraulic Tank and Pump with Radio Transmitter and Charger.	83	Capacity: Recommendations; 7 Metric Tonnes, Pick Up, 2,020LB at 40 foot (Max Reach).		
		5 Hydraulic Extensions on Outer Boom, Radio Remote Controls, 2 Hydraulic Out and		
84 Attachments required: Small Clam Shell Bucket and Large Clam Shell Bucket.		Down Outriggers, Hydraulic Tank and Pump with Radio Transmitter and Charger.		
	84	Attachments required: Small Clam Shell Bucket and Large Clam Shell Bucket.		

Warranty

WARRANTY		
A. Body		
i) complete unit (state actual warranties)		
a) parts (minimum 12 months)		
b) labour (minimum 12 months)		
B. Start at Bermuda Government, Ministry of Public Works "IN SERVICE" date		
C. Warranty is to be FOB Bermuda		
i) factory authorized warranty facility to be Quarry Depot, Ministry of Public Works, Bermuda.		

Manuals, Brochures and Training

24.	MANUALS, BROCHURES AND TRAINING		
	A. Manuals		
	i) Operator manual - 1 copy for unit ordered (English)		
	ii)Workshop Manual - 1 copy for unit ordered		
	iii)Parts manual -1 copy for unit ordered		
	B. Provide current brochure on vehicle and options		
	C. Provide "line sheet" for unit on delivery, detailing component details, belt part #'s, filter numbers, etc. to assist with future parts and service issues		
	D. A pre-build meeting shall be held via teleconference or in person approximately 2 weeks after award of tender		
	E. Project progress reports		
	i) the winning vendor at point of construction is to provide a production schedule		
	iii) the first report will be at approximately the 50% completion point		
	iv) the second report will be at approximately the 85% completion point		
	vi) the reports are to show where the project is on the production schedule and if on, behind, or ahead of schedule		
	vii) photos and other related information to be included in the email as required		
	F. Training - detail the level of training provided at delivery of the unit, both for the operators and mechanics in Bermuda		
	G. Online and telephone technical support direct from the manufacturer available to Quarry Depot for the lifetime of the vehicle.(15 years)		
	H. All operating manuals, workshop manuals, technical back-up and training to be provided in the English language.		

Vendor to provide certified technical assistance training for Public works Mechanics. The training should include the following:

Web based training for;

- Service
- Parts
- Warranty
- Online tests for 2 year re-certifications

Hands-On Tiered Courses include:

- Electronics Controls
- Engine
- Diagnostics
- Applicable Software
- Policy and Procedures

Purchase of on-the-lot or Low Hour Used Equipment

22.	PURCHASE OF ON-THE- LOT or LOW HOUR USED EQUIPMENT		
	The Ministry of Public Works is interested in pursuing the option		
	of buying "low hours", on - the - lot or demonstrator equipment.		
	if in the best interest of the Government of Bermuda		
	Minor variations from the specifications will be considered		
	If you have any which you feel meets the specifications, please		
	complete a separate tender form, including full specifications		
	and any deviations.		
	A. Maximum 500 hours on unit. Specify actual>		
	B. Full chassis warranty is required		
	C. Please complete pricing sheet for each unit available		

Spare Parts Requirements

SPARE PARTS REQUIREMENTS		
Maximum fork height (top of forks)		
Fuel filters		
Air filters		
Oil filters – Motor/Hydraulic etc.		
Brake pads/shoes (complete axle set front \$and rear \$)		
Wheel cylinders/caliper (front each axle set\$ rear each axle set \$)		
Brake discs/drums (front each axle set\$ rear each axle set \$)		

E. Spares available for at least 15 years with prices held to above plus increases in line with the consumer price index		
F. Spares available from East Coast North America with national distribution and warehousing		
G. Provide Bermuda's user's list for this type of unit. Telephone numbers and contact names may be required to confirm performance and suitability of unit in our operating conditions		

Shipping Information

ITEM	SPECIFICATIONS	YES	NO	DEVIATION
	iii) all travel and carriage costs			
	iv) all insurance costs			
	v) all bonding costs			
	vi) all costs of delivery to the Town			
	vii) all costs of installation and set-up, including any pre-delivery inspection charges and all other			
	viii) including any fees or other charges required by law			
	B. Change orders			
	 i) work on changes or additions can not start until the change is approved through the appropriate levels within the City 			
	 ii) all changes requested must be approved through the City Fleet Services department prior to commencing work 			
	iii) the vender can start work on the requested change once the PO has been adjusted to include all new items and costs and after instructed by City Fleet Services personnel			
	C. Completed vehicle supplied in compliance with Bermuda Motor Traffic Act, Environmental and TCD regulations			
	D. Delivered vehicle to be ready for motor vehicle registration in Bermuda, including all inspections as required.			
		_		
	if iii) out of country			
	- certificate of origin			
	- recall letter			