CONTRACT SANRAL N.003-014-2023/9

MANUFACTURE OF PRECAST CONCRETE BARRIERS TO BE USED AS A TEMPORARY VEHICLE RESTRAINT SYSTEM FOR THE UPGRADING OF NATIONAL ROUTES 2 AND 3 IN THE EASTERN REGION

CALL FOR QUOTATIONS FOR THE

SUPPLY OF PLANT HIRE FOR THE TRANSPORTATION AND LIFTING OF CONCRETE BARRIERS APPROXIMATE WEIGHT OF 4 TON

For enquiries contact:

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Procurement Manager

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Important Notice **No submission(s) transmitted by fax will be accepted.** **Quotations to be sent electronically via:** **email: rcl1-helpdesk@cpmc.co.za** **Clarification meeting: At Martin and East (Pty) Ltd RCL 1 Site Camp, Camperdown on the 25 November 2021 @ 10:00** **Closing date & time of submission: 03 December 2021 @ 14:00**
CALL FOR QUOTATIONS FOR THE SUPPLY OF PLANT HIRE **CONTRACT SANRAL N.003-014-2023/9** **MANUFACTURE OF PRECAST CONCRETE BARRIERS TO BE USED AS A TEMPORARY VEHICLE RESTRAINT SYSTEM FOR THE UPGRADING OF NATIONAL ROUTES 2 AND 3 IN THE EASTERN REGION** **STRICTLY FOR Exempted Micro Enterprise (EME) OR Qualifying Small Enterprise (QSE) ≥ 51% Black Ownership; refer to section 3 Required Documents for Targeted Groups**
NAME OF APPLICANT:
Documents to be Submitted: 1 pdf document emailed to: rcl1-helpdesk@cpmc.co.za
Submissions must be emailed as indicated no later than the date and time indicated above. MARTIN AND EAST does not take any responsibility for any submissions emailed to the wrong email address. **MARTIN AND EAST is not subject to accept the lowest or any price offered.**

INVITE TO QUOTE

MARTIN AND EAST (Pty) Ltd under CONTRACT SANRAL N.003-014-2023/9, hereby invites current and prospective suppliers to submit Quotations for Site Security Service.

MANUFACTURE OF PRECAST CONCRETE BARRIERS TO BE USED AS A TEMPORARY VEHICLE RESTRAINT SYSTEM FOR THE UPGRADING OF NATIONAL ROUTES 2 AND 3 IN THE EASTERN REGION:

A Call for quotations for the Supply of:

- ***2 x 30 Ton Rough Terrain Crane***
- ***1 x 12 Ton Rough Terrain Crane***
- ***1 x 4-, 5- and 7-Ton Rough Terrain Rotating Telehandler***
- ***2 x 75 hp Tractor***
- ***2 x 8 Ton Trailer***

LOCATION


SITE 1: RCL1 IN CAMPERDOWN
Camperdown
Camperdown
R103
Bishop St
Image © 2019 Maxar Technologies
© 2018 AfriGIS (Pty) Ltd
© 2018 Google
Google Earth
2005
Imagery Date: 6/7/2018 29°43'47.55" S 30°34'21.22" E elev 2429 ft eye alt 16054 ft

Instructions to Suppliers:

1. All quotations must be on a Company letterhead.
2. All the required and supporting company documentation must be submitted jointly with the quotation.
3. Failure to submit supporting and requested information will lead to your company not being considered.

1. REQUIRED DOCUMENTS

i. Proof of company registration; CIPC Certificate indicating:

- An Exempted Micro Enterprise (EME) or Qualified Small Enterprise (QSE) which is at least 51% owned by black people.
- An EME or QSE which is at least 51% owned by black people who are youth.
- An EME or QSE which is at least 51% owned by black people who are women.
- An EME or QSE which is at least 51% owned by black people with disabilities.
- An EME or QSE which is 51% owned by black people living in rural or underdeveloped areas or townships.
- A cooperative which is at least 51% owned by black people.
- An EME or QSE which is at least 51% owned by black people who are military veterans; or
- More than one of the categories referred to above.

ii. Tax clearance Pin number issued by SARS

iii. Proof of registration with the National Treasury Central Supplier Database (CSD)

iv. Proof of compliancy with the Compensation for Occupational Injuries and Diseases (COID)

v. Proof of address indicating that the applicant is a local supplier. Provide utility bill, e.g., municipal water and lights account or property managing agent statement, bank statement or an official bank document or form. Municipal councilor's letter or Tax certificate, etc.

vi. Functionality:

a. Will be scored on the 80/20 point scoring where 80% is for Price and 20% for B-BBEE as per table below:

B-BBEE Status Level of contributor	Number of Points for financial value up to and including R50 000 000
1	20
2	18
3	14
4	12

b. Locality:

	Location of Business	Points
Locality (Max 50 Points)	Tenderer is based in the preferred town.	50
	Tenderer is based in the preferred Local Municipality.	30
	Tenderer is based outside the Local Municipality, but in the District Municipality.	20
	Tenderer is based outside the District Municipality, but in the Province.	10
	Tenderer is based outside the Province, but in the RSA.	5

- The Preferred Town is Camperdown:
- Local Municipality is Mkhambathini
- The District Municipality is uMgungundlovu.
- Province is Kwa-Zulu Natal

BOQ

Item No.	Description	Unit	Qty	Rate	Amount
	To Supply the following Plant Hire at Wet Rates				
1	30 Ton Rough Terrain Crane	Month	12		
2	12 ton Rough Terrain Crane	Month	12		
3	4 Ton Rough Terrain Rotating Telehandler	Month	12		
4	5 Ton Rough Terrain Rotating Telehandler	Month	12		
5	7 Ton Rough Terrain Rotating Telehandler	Month	12		
6	75 hp Tractor	Month	12		
7	8 Ton Trailer	Month	12		
8	Establishment				
	30 Ton Rough Terrain Crane	No	1		
	4 Ton Rough Terrain Rotating Telehandler	No	1		
	5 Ton Rough Terrain Rotating Telehandler	No	1		
	7 Ton Rough Terrain Rotating Telehandler	No	1		
	75 hp Tractor	No	1		
	8 Ton Trailer	No	1		
9	De-establishment				
	30 Ton Rough Terrain Crane	No	1		
	4 Ton Rough Terrain Rotating Telehandler	No	1		
	5 Ton Rough Terrain Rotating Telehandler	No	1		
	7 Ton Rough Terrain Rotating Telehandler	No	1		
	75 hp Tractor	No	1		
	8 Ton Trailer	No	1		
	NOTE: No Inclement Weather will be paid, however, should the plant start work and are off hired due to inclement weather 4 Hr will be paid before 12 and the actual hrs worked after 12Pm. Should M & E forewarn the plant Hirer, no payment will be made for inclement weather.				
				Total Quoted Value	

Specification for Rough Terrain Crain:

MARTIN & EAST

ROUGH TERRAIN CRANE

【EXPECTED 30T SPECIFICATION】

■ CRANE Specification

Maximum rated lifting capacity		30ton × 3m
Boom length		9.35m — 30.5m (4 section)
Fly jib length		7.9m — 13.0m (2 section, offset 5˚,25˚,45˚)
Maximum rated lifting height		31.2m (Boom)
		44.8m (jib)
Hoisting line speed (winch up)	Main winch	125m / min. (at 4th layer)
	Auxiliary winch	116m / min. (at 3rd layer)
Hoisting hook speed (winch up)	Main winch	(Parts of line; 9) : 13.8m / min. (at 4th layer)
	Auxiliary winch	(Parts of line; 1) : 116m / min. (at 3rd layer)
Boom derricking angle		0˚ — 83˚
Boom derricking time		40s / 0˚ — 83˚
Boom extending speed		9.35m — 30.5m / 93s
Slewing speed		2.9min^{-1}
Tail slewing radius		3,500mm

● Equipment and structure

Boom type		Box-shaped, 4-section hydraulically telescopic type (Boom section 3 / 4 simultaneously operated)
Jib type		2 sections (2nd section of draw-out type) (offset angles 5˚,25˚ and 45˚)
Boom extension/ retraction equipment		Two hydraulic cylinders and wire ropes used together
Boom derricking/lowering equipment		One hydraulic cylinder of direct acting type with pressure-compensated flow control valve
Winch system Main & Auxiliary winches		Driven by axial plunger type hoisting motor through planetary gear reduction. Controlled independently by respective operating lever. Equipped with automatic brake.
Slewing equipment		Ball bearing type
Outriggers	Type	Hydraulic H-beam type (with float and vertical cylinder in single unit)
	Extension width	6,600mm (Fully extended)
		6,000mm (Intermediately extended)
		5,000mm (Intermediately extended)
		3,800mm (Intermediately extended)
		2,310mm (Fully retracted)
Wire rope for hoisting	Main winch	Diameter: 16mm × Length: 175m
	Auxiliary winch	Diameter: 16mm × Length: 95m

● Hydraulic equipment

Oil pump		4 pumps, plunger and gear type
Hydraulic motor	Hoisting motor	Axial plunger type
	Slewing motor	Axial plunger type
Control valve		Double acting with integral check and relief valves
Cylinder		Double acting type
Oil reservoir capacity		500L

● Safety devices

	ACS (Automatic Crane System with voice alarm), Slewing automatic stop system, Outrigger status detector, Boom derricking / telescoping holding valve, Overhoist prevention device, Drum lock device (on aux. winch), Winch holding valve, Automatic winch brake, Winch drum roller, Hydraulic safety valves, Outrigger lock pins, Slewing lock, Joystick control safety stop system, Hydraulic oil temperature warning device, Hydraulic oil return filter warning device

● Standard equipment

	Hydraulic oil cooler, Working light (on boom, table and cab), Winch drum turning indication device

● Operator's cab

	All steel welded construction, 1 person, Rubber mounted, Adjustable steering wheel, Adjustable seat, Seat belt, Front windscreen wiper & washer (2 speed wiper), Roof window wiper & washer, Cigarette lighter, Ashtray, Floor mat

● Optional equipment

	Winch over unwinding device, Winch drum mirror (Hoist mirror), Cab heater, Cab cooler, Fan, AM/FM Radio, Fire extinguisher, Smoke torch

■ CARRIER Specification

Maximum traveling speed	49km/h
Grade ability (tan θ)	57% (computed at G.V.W. = 26990kg)
Minimum turning radius (center of extreme outer tire)	8.2m (2 wheel steer)
	4.9m (4 wheel steer)

● Equipment and structure

Drive system		4x2 / 4x4
Torque converter		Engine mounted 3 elements 1 stage (with lock up clutch)
Transmission		Remote mounted full automatic
Number of speeds		4 forward & 1 reverse speed (with HI - Low selector)
Axles	Front	Planetary, drive/steer type
	Rear	Planetary, drive/steer type
Suspension	Front & Rear	Taper - leaf spring Hydraulic locking device with shock absorber
Brake system	Service	Air-over hydraulic disk brake on 4 wheels (front and rear independent circuit)
	Parking	Spring applied, electrically air released parking brake mounted on front axle, internal expanding type
	Auxiliary	Exhaust brake
Steering		Full hydraulic power steering Completely independent front and rear steering (with automatic rear wheel steering lock system)
Tire size	Front	385 / 95 R25 170E ROAD
	Rear	385 / 95 R25 170E ROAD
Fuel tank capacity		300 L
Batteries		(12V-120AH) × 2

● Safety devices

	Emergency steering device, Rear wheel steering lock system (automatic), Mis-shifting prevention system, Brake fluid leak warning device, Service brake lock, Suspension lock, Engine overspeed alarm, Radiator coolant level warning device, Air filter service warning device

● Standard equipment

	Centralized lubricating system

● Optional equipment

	Yellow rev. light

■ GENERAL Dimensions

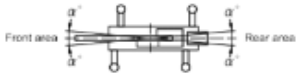
Overall length		11,360mm
Overall width		2,620mm
Overall height		3,475mm
Wheel base		3,650mm
Treads	Front	2,170mm
	Rear	2,170mm
Passenger capacity		One person
Gross vehicle mass	Gross weight	approx. 26,990kg
	Front weight	approx. 13,000kg
	Rear weight	approx. 13,990kg

● Stow the hooks in place before traveling.
● Before you use this machine, read the precautions in the instruction manual thoroughly to operate it correctly.

■ Notes for the rated lifting capacity chart

■ When the outriggers are used

1. The rated lifting capacity charts are based on the jib stowed on the boom side.
2. The rated lifting capacity chart indicates the maximum load which can be lifted by this crane provided it is level and standing on firm level ground. The values in the chart include the mass of the main hook and slings for boom operation, and auxiliary hook and slings for jib operation. [30 ton hook (mass: 250kg), 4 ton hook (mass: 80kg)]
   Within the chart the figures in the area bordered with a thick line are based on structural limitations while other figures are determined by stability limitations.
3. The working radii are the actual values allowing for boom and jib deflection. Therefore you must always operate the crane on the basis of the working radius.
4. The jib working radius is based on the jib mounted on the end of the 30.5m boom. When operating at other boom lengths, use the boom angle alone as the criterion.
5. Do not operate the jib when the outriggers are completely retracted.
6. The lifting capacities for the over sides vary with the outrigger extension width. Therefore for each outrigger extension condition you should work according the rated lifting capacity chart.
   Use the rated lifting capacity chart of outriggers full extended for both front and rear areas lifting capacities.



Outrigger extension status	Intermediate extension (6.0m)	Intermediate extension (5.0m)	Intermediate extension (3.8m)	Full retraction
Area α°	35	30	20	3

7. The rated lifting capacity of the rooster sheave is the rated lifting capacity of the boom minus the mass of all attached hook, slings etc. to the boom, with an upper limit of 4,000kg.
   [The hook for use with the rooster sheave is the 4 ton hook (mass: 80kg) with one part of line.]
8. If the boom length, boom angle and/or working radius exceeds the rated value, use the rated lifting capacity for the rated value or for the next one, whichever gives the smaller rated lifting capacity.
9. If you are working with the boom while the jib is rigged, subtract 2.2 ton plus the mass of all attached hook, slings etc. to the boom from the each rated lifting capacity of the boom, with an upper limit of 14 ton.
   Do not use the rooster sheave in this situation. And do not operate the boom while the jib is rigged, when the outriggers are retracted.
10. In whatever working conditions the corresponding boom critical angel is shown in the chart. The crane can tip over if the boom is lowered below the critical angle even if unloaded.
    Therefore, never lower the boom below these angles.
11. The standard parts of line for each boom length are as indicated in the chart. If you work with a non-standard number of parts of line, do not exceed 37.2kN (3.8tf) per wire rope respectively.
12. Crane operation is permissible up to a wind speed of 10m/s. Even in relatively light wind conditions, extra care should be taken when handling loads presenting large wind catching areas.
13. Martin and East bears no liability whatsoever for damage, crane tipping or other accident caused by crane operations which differ from the directions contained in the instruction manual and the warninglabels.

■ When the outriggers are not used

1. The rated lifting capacity charts are based on the jib stowed on the boom side.
2. The rated lifting capacity chart indicates the maximum load the crane can lift when its body is level on firm level ground with all tires inflated to the rated pressure and the suspension cylinder completely retracted. The values in the chart include the mass of the main hook and slings.
   Within the chart the figures in the area bordered with a thick line are based on structural limitations while other figures are determined by stability limitations.
   [Rated tire pressure: 900kPa (9.0kgf/cm^2)]
3. The working radii are the actual values allowing for boom deflection. Therefore you must always operate the crane on the basis of the working radius.
4. The rated lifting capacity differs between the front area capacity and the full range capacity. When slewing from the front to the side, take care that the crane could not be over loaded.



Crane operation	Stationary crane-on-rubber operation	Pick and carry operation
Area α°	1	1

5. The rated lifting capacity of the rooster sheave is the rated lifting capacity of the boom minus the mass of all attached hook, slings etc. to the boom, with an upper limit of 4,000kg.
   [The hook for use with the rooster shave is the 4 ton hook (mass: 80kg) with one part of line.]
6. Do not work with the jib or with a boom length of more than 23.45m.
7. For stationary crane-on-rubber operation, the parking brake and service brake lock device must be engaged.
8. For pick and carry operation, the super-slow speed switch must be switched to "ON" and the shift lever set to speed 1.
9. For pick and carry operation, lower the load to just above the ground and keep your speed strictly below 2km/h to avoid swinging the load.
   Take particular care to avoid sharp turns, sudden starts and stops.
10. Never operate the crane during pick and carry operation. The slewing brake must be applied.
11. If the boom length or working radius exceeds the rated value, use the rated lifting capacity for the rated value or for the next one, whichever gives the smaller rated lifting capacity.
12. In whatever working conditions the corresponding boom critical angel is shown in the chart. The crane can tip over if the boom is lowered below the critical angle even if unloaded.
    Therefore, never lower the boom below these angles.
13. The standard parts of line for each boom length are as indicated in the chart. If you work with a non-standard number of parts of line, do not exceed 37.2kN (3.8tf) per wire rope respectively.
14. Crane operation is permissible up to a wind speed of 10m/s. Even in relatively light wind conditions, extra care should be taken when handling loads presenting large wind catching areas.
15. Martin and East bears no liability whatsoever for damage, crane tipping or other accident caused by crane operations which differ from the directions contained in the instruction manual and the warninglabels.

Specification for 4 Ton Rough Terrain Rotating Telehandler:

Capacities		Metric
Max. capacity	Q	4999 kg
Max. lifting height	h3	29.5 m
Max. Reach	l4	25.8 m
Weight and dimensions		
Overall width	b1	2.49 m
Overall height	h17	3.05 m
Overall cab width	b4	0.99 m
Ground clearance	m4	0.35 m
Wheelbase	y	3.25 m
Tilt-up angle	a4	12 °
Tilt-down angle	a5	108 °
Turret rotation		360 °
Overall weight		21480 kg
Forks length / width / section	l / e / s	1200 mm x 50 mm x 15 mm
Wheels		
Tyres type		Pneumatic
Drive wheels (front / rear)		2 / 2
Stabilisers		
Stabs Type		Telescopic Duplex
Controls with stabs		Stabs Commands Individual or Simultaneous
Engine		
Engine brand		Mercedes
Engine norm		Stage 3A
Engine model		OM_904_LA_E3A__Stage_3A
I.C. Engine power rating / Power (kW)		176 Hp / 129 kW
Max. torque / Engine rotation		1600 Nm/m @ 1200 tr/min
Number of cylinders - Capacity of cylinders		3400 - 5130 cm³
Injection		engine Injection direct
Engine cooling system		Water
Drawbar pull (Laden)		9500 daN
Number of batteries		2
Battery / Batteries capacity		12 V / 120 Ah
Transmission		
Transmission type		Hydrostatic
Number of gears (forward / reverse)		2 / 2
Max. travel speed (may vary according to applicable regulations)		40 km/h
Parking brake		Automatic Negative Hand-brake
Service brake		Hydraulic
Hydraulics		
Hydraulic pump type		Variable pump
Hydraulic flow		180 l/min
Hydraulic Pressure		350 Bar
Tank capacities		
Engine oil		29 0 l
Hydraulic oil		290 l
Fuel tank		290 l
Noise and vibration		
Noise at driving position (LpA)		79.7 dB(A)
Noise to environment (LwA)		108 dB(A)
Vibration to whole hand/arm		< 2.50 m/s²
Miscellaneous		
Steering wheels (front / rear)		2 / 2
Controls		2 Joysticks
Safety cab homologation		Cab ROPS - FOPS Level 2
Attachment recognition system (E-Reco)		Standard