

<b>SPECIFICATION NO.</b> MTD-2339-014-19	<b>Page 1 of 12</b>	
<b>TENDERER'S NAME:</b>	<b>NO:</b>	
<b>TENDER NO:</b>	<b>ITEM NO:</b>	<b>QTY:</b>
<b>DESCRIPTION: 40-50 SEATER SEMI-LUXURY BUS WITH HYDRAULIC RAMP FOR PERSONS WITH DISABILITIES.</b>		

**REPUBLIC OF KENYA**



**TURKANA COUNTY GOVERNMENT**

**STANDARD TENDER DOCUMENT**

**FOR**

**PROPOSED PURCHASE OF ONE BUS**

**TCG/EDS&SP/140/2018-2019**

**NEGOTIATION NO; 714848**

**FOR**

**TURKANA COUNTY**

**BILLS OF QUANTITIES**

**FY 2018-2019**

**Issued by:**

**County Executive for Roads, transport, public works and housing**

**Office of Governor**

**Turkana County Government**

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TENDERER'S Column to be completed by tenderer

<b>SPECIFICATION</b>	<b>REQUIRED</b>	<b>TENDERER'S</b>
Make	-	
Model	-	
Country of origin	-	
Manufacturer's literature, authority and specifications supplied.	Yes (mandatory)	(Y/N)
Detailed engineering drawings and dimensions of the bus body supplied.	Yes (mandatory)	(Y/N)

1. **GENERAL**

a) A standard production, 40-50 seater semi-luxury bus with hydraulic ramp for persons with disabilities, of latest design in the class, robust construction in current production.	Yes, Yes, Yes	(Y/N)
b) Supplied new.	Yes (mandatory)	(Y/N)
c) Designed to heavy-duty specifications, capable of operating in tropical conditions over paved and unpaved (rough) roads.	Yes, Yes	(Y/N)
d) Suitable for transportation of passengers	Yes	(Y/N)
e) To seat 40-50 adult passengers comfortably.	Yes	(Y/N)
f) Body construction to conform to KS 372 , The Traffic Act and all relevant statutory requirements.	Yes (mandatory)	----- (Y/N)
g) Fitted with a suitable hydraulic ramp on the left hand side on the same side but after the passenger fit for persons with disabilities or any other suitable position	Yes	_____ (Y/N)
h) Bus to be disability friendly	Yes	_____ (Y/N)

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SPECIFICATION	REQUIRED	TENDERER'S
	Mandatory	

## 2. DIMENSIONS, WEIGHTS AND PERFORMANCE

a) Overall length, approx.	11,000 mm	----- mm
b) Overall width, approx.	2,500 mm	----- mm
c) Overall height with body, approx.	3,500 mm	----- mm
d) Minimum passenger room height, approx.	1,800 mm	-----mm
e) Wheelbase, approx.	6,000 mm	----- mm
f) Ground clearance, min.	250 mm	----- mm
g) Max. G.V.W., approx.	16,000 Kg	----- Kg
h) Kerb weight, approx.	5,000 Kg	----- Kg
I) Max. gradient.	specify	----- degrees

## 3. ENGINE

a) Make	-	
b) Model	-	
c) Country of origin	-	
d) Engine position, front/rear.	specify	
e) Engine type Diesel, 4 Stroke.	Yes, Yes	----- (Y/N)
f) Engine mode of aspiration. (Natural/Turbocharged)	specify	
g) Engine cooling system, water.	Yes	----- (Y/N)
h) Piston displacement, approx.	6,500-12,000 cc	----- cc
I) Number of cylinders.	6	----- No.

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<b>SPECIFICATION</b>	<b>REQUIRED</b>	<b>TENDERER'S</b>
j) Maximum power output, (kW / rpm), min.	150KW/2500rpm	----- KW/rpm
k) Maximum torque developed (Nm / rpm), min.	800Nm/1500rpm	----- Nm/rpm
l) Air filter, disposable/oil bath	specify	
m) Oil and fuel filter type, replaceable.	Yes	----- (Y/N)
n) Average fuel consumption (on full load)	specify	----- Km/l
o) Fuel tank capacity, approx.	200 lt	----- lt

#### 4. **CLUTCH AND TRANSMISSION**

a) Clutch type, dry, single plate.	Yes, Yes	----- (Y/N)
b) Hydraulic, clutch actuation.	Yes	----- (Y/N)
c) All synchromesh gearbox, with 2 speed reduction transfer gearbox.	Yes, Yes	----- (Y/N)
d) Transmission speeds	5 speed	----- speed
e) Gear box type, synchromesh	Yes	----- (Y/N)
f) Drive configuration, 4x2	Yes	----- (Y/N)

#### 5. **BRAKES AND TYRES**

a) Assisted hydraulic brake system.	Yes, Yes	(Y/N)
c) Mechanical Parking brake.	Yes	(Y/N)
d) Tire tread, dual, for highway and x-country operation.	Yes	(Y/N)
e) Tire (size) locally available.	Yes	(Y/N)
f) Optimum tire size.	specify	

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<b>6. SUSPENSION AND STEERING</b>		
a) Independent Heavy duty front and rear suspension.	Yes	(Y/N)
b) Heavy duty leaf or coil springs with telescopic dampers.	specify front	
	rear	
c) Assisted steering.	Yes	(Y/N)
d) Right hand drive steering.	Yes	(Y/N)
e) Drivers seat adjustable	Yes	(Y/N)
<b>7. ELECTRICAL SYSTEM AND INSTRUMENTS</b>		
a) System voltage, negative earth, with alternator charging.	24V, Yes	(Y/N)
b) Battery capacity.	120AH, 2x12V.	
c) Full lighting to conform to Cap.403 Subs.23 Kenya Traffic Act.	Yes	(Y/N)
d) Standard instruments, gauges and warning lights for charging circuit, oil pressure, coolant, temperature, buzzer for air pressure etc.	Yes, Yes, Yes	(Y/N)
e) Lamps - 2 heads, parking indicator and tail to conform to Kenya Traffic Act.	Yes, Yes, Yes	(Y/N)
<b>8. EQUIPMENT (ACCESSORIES)</b>		
a) Vehicle to be fitted with a modern electronic speed governor and policing unit	Yes (mandatory)	(Y/N)
b) Speed governor to limit maximum speed to 80 Km/h	Yes (mandatory)	(Y/N)
c) Speed governor to be tamper proof	Yes	

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	(mandatory)	(Y/N)
d) All seats to have safety belts that conform to the KEBS standard No. KS 06-664 of 1985	Yes (mandatory)	(Y/N)
e) Heavy duty front fender fitted.	specify	(Y/N)
f) Spare wheel and external carrier fitted.	Yes	(Y/N)
g) High raise jack and jacking points and wheel brace.	Yes, Yes	(Y/N)
h) Suitable FM radio and flashdisc CD player fitted	Yes (mandatory)	(Y/N)
i) Manufacturer's standard tools supplied.	Yes, Yes	(Y/N)
j) Any other equipment (or accessories) supplied	specify	

### **B. BODY CONSTRUCTION DETAILS**

1.i. <b><u>GENERAL</u></b>		
a) Detailed engineering drawings (Showing seating arrangement etc) of body supplied.	Yes MANDATORY	(Y/N)
b) Coach construction and other fitments to comply with CAP 403- Kenya Traffic Act.	Yes	(Y/N)

### ii. **BODY CONSTRUCTION**

a) Body to be mounted onto the chassis by equally spaced pre-stressed channel sections convenient for door and wheels.	Yes	(Y/N)
b) Cross bearers, mild steel channel section:	Dimension: 100mmx50mmx6mm	-----
	No. min 9	-----
c) Cross bearers secured to chassis by bolted angle	Yes	(Y/N)

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iron sections.		
d) Body side pillars secured to cross bearers by gussets and welding reinforced properly by box angle sections.	Yes	(Y/N)
e) Side pilfers of angle iron/mild steel top hat sections, min spacing approximately	40mmx40mmx3mm/ 220mmx40mmx40mm x3mm 1 m apart spacing section.	
f) Roof sticks be of box sections and curved to give an internal radius to pilfers , min.	40mmx40mmx3mm/ 220mmx40mmx40mm x3mm radius 300mm	
g) Roof reinforced by angle top hat iron longitudinal sections. min No.	3 No.	
h) Body to be of double skin construction Thickness of material approx. 1.2mm	Yes Specify thickness of material	(Y/N)  -----mm
I) Exterior panels to be of light alloy material while the interior is plywood covered by Formica and suitable carpet material on the roof.	specify materials	
j) Panels to be secured to frame by sealed pop rivets or spot welding or any other acceptable method	specify method	
k) Floor covered with non-slip chequered alloy plate of thickness 3mm approx.	Yes Specify thickness	(Y/N)  -----mm
l) All inspection covers on floor to be close fit secured by locks and of adequate dimensions for access to units for maintenance etc.	Yes	(Y/N)
m) Wheel arches made from non-slip mild steel plate	Yes	(Y/N)

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lined with noise deadening material.		
n) Continuous up to the roof anti-roll bars (rectangular hollow sections, double 60x40x3mm, welded together/equivalent), 3sets (front, middle and rear). fitted.	Yes (Mandatory)	------(Y/N)
o) Fitted with a suitable hydraulic ramp on the side of bus for embarking and disembarking persons with disabilities in wheelchairs.	Yes Mandatory	------(Y/N)
p) Ramp length x breadth x width approx..	1500x500x1300mm	---x---x---mm
q) Effective wheel chair space width approx..	1000mm	-----mm
r) Ramp complete with suitable hydraulic cylinders, arms, pump, protective steel tube, foldable protective side plates, control mechanism etc	Yes(Mandatory) Give details	(Y/N) .....
s) Ramp to fit suitably on the side like a door when fully closed	Yes	(Y/N)
t) To have a space of 1000mm inside bus for wheel chair access covering the ramp span	Yes	(Y/N)
u) Body, panels, doors to be suitably reinforced to protect it from vibrations and rough terrain	Yes mandatory	(Y/N)

iii) **DOORS, SEATS, WINDOWS, BODY FINISHING ETC.**

a) Lockable passenger door towards front opening inwards	Yes	(Y/N)
b) Mild steel non-slip chequered steps provided for the passenger door.	Yes	(Y/N)
c) Lockable driver door to open outwards with suitable non-slip steps provided for easy access	Yes	(Y/N)
d) Seating capacity	40-50 passengers	



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e) Seat width approx	450mm	
f) Seating arrangement.	2x2 mandatory	
g) All seats cushioned and covered with hard wearing material. Seating cushion and back rest foam thickness, min	Specify material  100mm, 50mm respectively.	_____  _____
h) Seats to be high backrest type with chrome plated grab handles/or equivalent with suitable seat cover , user to choose	Yes	(Y/N)
i) Seat spacing between rows, approx.	800mm	mm
j) To have at least 5No. suitable special seats with suitable hand holds and of lower height, reserved for people with disabilities, in rows immediately behind or near the ramp.	Yes Mandatory	------(Y/N)
k) Lockable boot (with keys) located at rear for the spare wheel , jack and tool kit with a runner and dust seal to keep away rain.	Yes	(Y/N)
l) Provision for side luggage compartments	Mandatory	(Y/N)
m) Chrome plaited roof hand rail to run the entire length of bus.	Yes	(Y/N)
n) Two piece laminated front and rear wind shield fitted.	Yes	(Y/N)
o) All other windows to be of clear toughened glass.	Yes	(Y/N)
p) Panoramic (wide view) sliding windows fitted in aluminium frame and lockable from inside.	Yes	(Y/N)
q) Suitable size 4 No. ventilators on front and rear panel of body, with insect excluding gauze, with	Yes	(Y/N)

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control inside bus.		
r) Body panels to be thoroughly cleaned before painting. Both internal and external finish to be proceeded by primer coat and intercoat.	Yes	(Y/N)
s) High gloss finish colour both for internal and external to be specified by the user.	Yes	(Y/N)
t) Body underparts and floor to be painted chassis black colour.	Yes	(Y/N)
u) Windows to have suitable tint	Yes(Mandatory)	(Y/N)
v) Suitable interior roof rack fitted.	Yes	(Y/N)

**vi. ELECTRICAL SYSTEM**

a) Adequate fluorescent tube lighting for passenger deck, with switch operated by driver.	Yes	(Y/N)
b) Courtesy bell/buzzer provided with two switches , one above door.	Yes	(Y/N)
c) Each windscreen piece to have its own wiper.	Yes	(Y/N)
d) 2 No. external and 1 No. internal rear view mirrors fitted.	Yes	(Y/N)
e) Suitable sun strips/blinders fitted on front windscreen.	Yes	(Y/N)
f) Chevrons and reflectors fitted at rear.	Yes	(Y/N)
g) 2 No. suitably positioned fire extinguisher supplied.	Yes	(Y/N)
h) Vehicle to be fitted with a modern electronic speed Governor with recorder	Mandatory	------(Y/N)
i) Governor to limit maximum speed to 80km/hr	Mandatory	------(Y/N)

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j) Governor to be tamper proof	Mandatory	----- (Y/N)
k) 2 No. first aid kits fully loaded fitted.	Yes	(Y/N)

v) **BODY WARRANTY**

a) Specimen of vehicle/body warranty to be submitted when tendering.	Yes	(Y/N)
b) Each vehicle supplied to carry a statement of warranty.	Yes Mandatory	(Y/N)
c) Warranty duration:	min- 12 Months or 40,000 Km whichever occurs first.	Months  Km

vi) **MANUALS**

a) All literature in English language.	Yes	_____(Y/N)
b) Repair manuals supplied.	1 per vehicle	_____(Y/N)
c) Parts catalogue supplied.	1 per vehicle Mandatory	_____(Y/N)
d) Drivers handbook and service schedule supplied.	1 per vehicle	_____(Y/N)
e) Manufacturer's standard tool kit supplied	1 per vehicle	_____(Y/N)

vii) **OTHER REQUIREMENT**

a) Bus to be registered by the Registrar of Motor Vehicles.	Yes (Mandatory)	_____(Y/N)
b) Bus to bear Institution logo and signage.	Yes	_____(Y/N)
c) Bus will be inspected by the Chief Mechanical and Transport Engineer during all the construction	Yes	_____(Y/N)

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stages and before delivery to the user.		
d) Franchise holder (representative in Kenya).  If not, specify relationship with franchise holder.	Yes  Specify whether agent/dealer	_____(Y/N)  -----
e) Availability of spare parts.	Indicate motor vehicle dealers who stock spare parts.	----- ----- ----- -----
f) Names and addresses of dealers/agents where back-up service can be obtained indicating the location of the workshops facilities.	Specify	----- ----- ----- -----
g) Body construction and all fitments to conform to CAP 403 Kenya Traffic Act. <b>AMOUNT QUOTED BY THE SUPPLIER</b>	Yes (Mandatory)  .....	_____(Y/N)