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ALL CORRESPONDENCE TO BE ADDRESSED TO THE MUNICIPAL MANAGER

Enquiry: Ralephenya T.D

TECH-021-2023/24

**SUPPLY CHAIN MANAGEMENT UNIT**

**INVITATION TO BID**

**ADDENDUM**

<b>Project Name</b>	<b>Project Number</b>
Design and Construct of Fatima Culvert Bridge and Roads	TECH-020-2023/24

This communique serves to clarify bidders on **evaluation on functionality** and **Bill of Quantities** in the original tender document. Bidders are advised to ignore the **evaluation on functionality on page 26 to 27 and Bill of Quantities on page 62 to page 68** in the original document and consider the following **Evaluation on functionality and Bill of Quantities/ Pricing Schedule**. The required **CIDB Grading is 5CE** not 4CE as mentioned in the advert

The Closing date for the Bid has been extended from **08 March 2024** as indicated on the advert to **12 March 2024**

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## EVALUATION ON FUNCTIONALITY

Criteria	Weights	Applicable values
<b>Company Experience</b>	<b>40</b>	Poor = 1
<b>Company Experience in Design of Culvert Bridges</b>	<b>10</b>	Average = 2
<b>2 x</b> Successfully completed traceable projects in design of roads, storm water and bridges or rehabilitation of gravel roads.( attach <b>2 appointment</b> letters and bidders assessment form for each appointment) <b>Turnkey appointment shall be rewarded on both design and construction Projects</b>		Good = 3
<b>Company Experience in Construction of Culvert Bridges</b>	<b>30</b>	Very good = 4
<b>3 x</b> Successfully completed traceable projects in construction of roads, storm water and bridges or rehabilitation of gravel roads.( attach <b>3 appointment</b> letters, completion certificates on the client's letter head and bidders assessment form for each appointment) <b>Turnkey appointment shall be rewarded on both design and construction Projects.</b>		Excellent = 5
<b>Plant and equipment</b>	<b>20</b>	
<b>Plant and equipment</b> <ul style="list-style-type: none"> <li>• 1x Grader</li> <li>• 1x Smooth drum roller (15 ton)</li> <li>• 2x (10 m<sup>3</sup>) tipper trucks</li> <li>• 1x Water tankers (9 000 litter or larger)</li> <li>• 1x TLB/Loaders</li> <li>• 1 x 40ton Excavator</li> </ul> This equipment can be owned or rented. Attach proof of ownership and intention to lease letter/agreement if renting.		
<b>Proposed key personal (4)</b>	<b>35</b>	
<u><b>Design Engineer(10)</b></u> Attach the following: <ul style="list-style-type: none"> <li>• CV indicating a minimum of fifteen (15) years' proven experience in Design and Supervising projects of roads, Stormwater and bridges.</li> <li>• Certified copy of B-Tech/BSc/BEng : Civil Engineering,</li> <li>• Certified Copy of EPWP LI (NQF 7 "Manage Labour-Intensive Construction Processes").</li> <li>• Certified copy of ECSA Registration certificate as Pr. Technologist or Engineer.</li> </ul>		
<u><b>Resident Engineers (10)</b></u> Attach the following: <ul style="list-style-type: none"> <li>• CV indicating a minimum of ten (10) years' proven experience in Construction supervision and managing projects of roads, Stormwater and bridges.</li> <li>• Certified copy of B-Tech/BSc/BEng : Civil Engineering,</li> <li>• NQF Level 5 Certificate for Managing LIC Civil Projects</li> <li>• Certified copy of ECSA Registration certificate as Pr. Technologist or Engineer</li> </ul>		
<u><b>Site Agent (10)</b></u> Attach the following: <ul style="list-style-type: none"> <li>• CV indicating a minimum of ten (10) years' proven experience in Construction and managing projects of roads, Stormwater and bridges.</li> <li>• Certified copy of National Diploma : Civil Engineering,</li> <li>• NQF Level 5 Certificate for Managing LIC Civil Projects</li> <li>• Certified copy of ECSA Registration certificate as Pr. Technologist or Engineer</li> </ul>		
<u><b>OHS and Environmental Officer (5)</b></u> Attach the following: CV indicating 5 years' experience in construction related projects		

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Certified copy of Occupational health and safety certificate		
<b>Financial viability</b>		<b>5</b>
Bank rating of C or higher		
<b>Total functionality Score</b>		<b>100</b>

### BILL OF QUANTITIES

SECTION A: DESIGNS					
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>A1</b>	Provision of Designs				
	a) provision of a concrete culvert bridge design (1800mm x 3000mm) including all concrete works	no	1		
	b) provision of a concrete stormwater channel design (2400m x 2.5m x 0.5m)	no	1		
	c) provision of re-gravelling design of a 2300m gravel road	no	1		
	d) provision of a set of four working drawings of the three above items	no	4		
<b>A2</b>	e) Project management and fulltime supervision during construction stage. (Full-time supervision as described on the government gazette Vol.594, 12 December 2014 under clause 3.3.2 (6)(c)(i),(ii) and (iii))	no	1		
<b>TOTAL SECTION 1200 CARRIED TO SUMMARY:</b>					

SECTION 1200: GENERAL REQUIREMENTS AND PROVISIONS					
ITEM NO	DESCRIPTION	UNIT	QUANTIT Y	RATE	AMOUNT
<b>12,02</b>	Community Liaison Officer(s)				
	a) Remuneration of Liaison Officer(s)	Month	5	5 000,00	R 25 000,00
	b) Contractor's charge to allow for handling costs and profit in respect of sub-item 12.02 (a)	%		10%	

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	Project Steering Committee Progress Meeting sitting allowance				
	a) PSC Sitting Allowance (4 PSC Members)	Month	5	1 600,00	R 8 000,00
12,02	b) Contractor's charge to allow for handling costs and profit in respect of sub-item 12.02 (a)	%		10%	
12,05	Cost of Royalties and land expropriation	Prov Sum	1,00	50 000,00	R 50 000,00
12,06	Project Name Board	No	1		
<b>TOTAL SECTION 1200 CARRIED TO SUMMARY:</b>					

**SECTION 1300: CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS**

ITEM NO	DESCRIPTION	UNIT	QUANTIT Y	RATE	AMOUNT
B13.0 1	<b>The contractors general obligations:</b>				
	(a) Fixed obligations	Lump sum	1		
	(b) Value-related obligations	Lump sum	1		
	(c) Time related obligations	Month	5		
	The combined total tendered for sub-items (a), (b) and ( c) shall not exceed 15% of the tender sum				
<b>TOTAL SECTION 1300 CARRIED TO SUMMARY:</b>					

**SECTION 1500: ACCOMMODATION OF TRAFFIC**

ITEM NO	DESCRIPTION	UNIT	QUANTIT Y	RATE	AMOUNT
15,01	Accommodating traffic and maintaining temporary deviations.	km	2,3		
15,03	Temporary traffic-control facilities: <i>[The cost for the replacement of damaged or stolen signs or facilities shall be included in the rates under Item B15.03.]</i>				
(a)	Flagmen.	man-day	88,00		
(b)	Portable STOP and GO-RY signs.	No	4,00		

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(d)	Amber flicker lights.	No	4,00		
(e)	Road signs, R- and TR-series (1200 mm).	No	4,00		
(f)	Road signs, TW-series. (1500 mm)	No	8,00		
(g)	Road signs, STW-, DTG-, TGS- AND TG-series. (Excluding delineators and barricades)	m <sup>2</sup>	8,00		
(h)	Delineators (200 mm x 800 mm):	No			Rate only
(h)(ii)	Delineators mounted back to back.	No	16,00		
(i)	Movable barricade/road sign combination with an effective width of 6 meters.	No.	8,00		
(j)	Traffic cones - 750 mm.	No.	16,00		
(k)	Provision of high visibility safety jackets and safety hats.	No	20,00		
<b>15,05</b>	Gravelling and repair of temporary deviations and existing gravel shoulders used as temporary deviations:				
(b)	Existing gravel shoulders.  <i>[The rate shall include full compensation for all work required to construct, re-gravel and repair the existing shoulder to be used as a temporary deviation.]</i>	m <sup>3</sup>			Rate only
<b>15,06</b>	Watering of temporary deviations.	kl	18 000,00		
<b>SUB-TOTAL SECTION 1500 CARRIED FORWARD:</b>					

**SCHEDULE B: ROADWORKS**  
**SECTION 2200: PREFABRICATED CULVERTS**

ITEMS	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>2200</b>		<b>PREFABRICATED CULVERTS</b>				
<b>B22.01</b>		<b>Excavation:</b>				
		(a) Excavating soft material situated within the following depth ranges below the surface level:				
	LI	(i) 0 m up to 2.0m	m <sup>3</sup>	66		

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22.02		(ii) Exceeding 1,5m and up to 3,0m	m <sup>3</sup>	12		
		(iii) Exceeding 3,0m and up to 4,5m	m <sup>3</sup>	-		Rate Only
		(b) Extra over item B22.01(a) for excavation in hard material, irrespective of depth	m <sup>3</sup>	-		Rate Only
		<b>Backfilling:</b>				
	LI	(a) Using the excavated material	m <sup>3</sup>	45		
	LI	(b) Using imported selected material: (i) Granular material	m <sup>3</sup>	-		Rate Only
LI	(c) Extra over sub items B22.02 (a) b) and (b)(i) for soil cement back- filling: (4% of Portland cement by volume)	m <sup>3</sup>	14			
2200	<b>TOTAL CARRIED FORWARD</b>					

**SCHEDULE B: ROADWORKS**  
**SECTION 2200: PREFABRICATED CULVERTS**

ITEMS	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>TOTAL BROUGHT FORWARD</b>						
22.05		<b>Portal and rectangular culverts</b>  (b) without prefabricated floor slabs complying with SANS 986  (iv) 1800mm x 3000mm	m	30		

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<b>B22.07</b>		<b>Cast in – situ concrete and formwork</b>				
		a) In floor slabs for portal or rectangular culverts, including formwork and Class U2 surface finish:				
	LI	(i) Class 25/19 concrete	m <sup>3</sup>	36		
		b) In inlet and outlet structures, catchpits, manholes, thrust blocks and anchor blocks, excluding formwork but including Class U2 surface finish				
<b>22.08</b>	LI	<b>Concrete backfill for culverts, class 15/19 Steel reinforcement:</b>	m <sup>3</sup>	-		Rate Only
	LI	(a) Mild steel bars	t	-		Rate Only
	LI	(b) High tensile steel bars	t	-		Rate Only
	LI	(c) Welded steel fabric	kg	1500		
<b>22.14</b>	LI	<b>Removing and stacking existing pipes (all sizes)</b>	M	30		
<b>22.15</b>	LI	<b>Guardrails and necessary bridge signage</b>				
		(a) Guardrails on timber posts: (a) Galvanized	m	300		
		(b) Bridge adaptors	no	8		
		(c) Pedestrian Walkway structure	m	40		
<b>2200</b>	<b>TOTAL CARRIED FORWARD</b>					

**SECTION 2300: CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWN PIPES, AND CONCRETE LININGS FOR OPEN DRAINS**

ITEM NO	DESCRIPTION	UNIT	QUANTIT Y	RATE	AMOUNT
<b>23,01</b>	Concrete kerbing: <b>(Stormwater Control Channel of 2400m long, 4m wide and 500mm high)</b>				
<b>23,07</b>	Trimming of excavations for concrete-lined open drains:				
(a)	In soft material.	m <sup>3</sup>	3000,00		

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(b)	In hard material.	m <sup>3</sup>	1800,00		
<b>23,08</b>	<b>(Stormwater Control Channel of 2400m)</b> Concrete lining for open drains:				
(a)	Cast in situ concrete lining - Type I concrete side drain, concrete Class 30/19	m <sup>3</sup>	1500,00		
(b)	Class U2 surface finish to cast in situ concrete for Type I concrete side drain.	m <sup>2</sup>	1000,00		
<b>23,09</b>	Formwork to cast in situ concrete lining for open drains - Class F2 surface finish:				
(a)	To sides with formwork on internal face only.	m <sup>2</sup>	1000,00		
(c)	To ends of slabs.	m <sup>2</sup>	950,00		
23,10	Gabions				
(a)	Galvanized gabion boxes (i) Length 1 m, depth 1 m width 2 m and nominal diameter of mesh wire 2.7 mm, mesh size 80 mm x 100 mm	m <sup>3</sup>	200		
(c)	Galvanized gabion mattresses (i) 0,3 mm deep, width 1 m, length 2 m mesh size 80 mm x 100 mm nominal diameter of mesh size 2,2 mm, and 1 m diaphragm spacing	m <sup>3</sup>	200		
(d)	Filter fabric (kaytech grade A4 or similar)	m <sup>2</sup>	800		
23,11	Stone Pitching	m <sup>3</sup>	400		
<b>23,12</b>	Cast in situ stone pitching for protection against soil erosion Steel Reinforcement				
	c High tensile steel Mesh, Ref. 245	t	18		
<b>TOTAL SECTION 2300 CARRIED TO SUMMARY:</b>					
<b>SECTION 3300: MASS EARTHWORKS</b>					
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
33,01					
<b>33.10</b>	Backfilling preparation and the compaction of material: <i>[The rate shall provide for all costs to cover restricted works for half width construction. The roadbed depth is 150 mm.]</i>				
(a)	Compaction to 93% of modified AASHTO density.	m <sup>3</sup>	3 520		
(b)	In-Situ Gravel selected layer compacted to:				

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(b)(i)	93% of modified AASHTO density with a compacted layer thickness of 200 mm.	m <sup>3</sup>	3 520		
<b>TOTAL SECTION 3300 CARRIED TO SUMMARY:</b>					

<b>SECTION 3400: PAVEMENT LAYERS OF GRAVEL MATERIAL</b>					
<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
34,01	<b>(2300m regravelling of internal streets)</b>				
(a)	Compaction to 93% of modified AASHTO density.	m <sup>3</sup>	2 760		
(b)	In-Situ Gravel selected layer compacted to:				
(b)(i)	93% of modified AASHTO density with a compacted layer thickness of 200 mm.	m <sup>3</sup>	3 680		
<b>34.10</b>	<b>Pavement layers constructed from gravel taken from cut or borrow, incl. free-haul up to 5km.</b>				
(a)	Gravel selected layer compacted to:	m <sup>3</sup>	3680		
(i)	Constructed from type G5 material compacted to 93% of modified AASHTO density (200mm compacted layer thickness).				
(c)	Gravel base (chemically stabilized gravel) compacted to:				
(i)	Constructed from type G5 material compacted to 95% of modified AASHTO density (200mm compacted layer thickness).	m <sup>3</sup>	3680		
<b>TOTAL SECTION 3400 CARRIED TO SUMMARY:</b>					

<b>SECTION 5900: FINISHING AND REHABILITATION OF THE SITE</b>					
<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
<b>59.01</b>	Finishing and Rehabilitation of the site:	no	1		
<b>TOTAL SECTION 5900 CARRIED TO SUMMARY:</b>					

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<b>SECTION 9400: OCUPATIONAL HEALTH AND SAFETY</b>					
<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTIT Y</b>	<b>RAT E</b>	<b>AMOUN T</b>
<b>B9400</b>	<b>OCCUPATIONAL HEALTH AND SAFETY</b>				
B94.01	Preparation of Contractor's site-specific Health and Safety Plan	Sum	1		
B94.02	Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations	Sum	1		
B94.03	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations.	month	5		
B94.04	Provision of full time Construction Health and Safety Officer	Sum	1		
B94.05	Submission of the Health and Safety File	Lump Sum	1		
<b>TOTAL SECTION 9400 CARRIED TO SUMMARY:</b>					

<b>SUMMARY OF SCHEDULE OF QUANTITIES</b>		
<b>SECTION REFERENC E</b>	<b>SECTION DESCRIPTION</b>	<b>AMOUNT</b>
A	PROVISION OF DESIGNS	
1200	GENERAL REQUIREMENTS AND PROVISIONS	
1300	CONTRACTOR'S ESTABLISHMENT ON SITE AND OBLIGATIONS	
1500	ACCOMMODATION OF TRAFFIC	
2200	PREFABRICATED CULVERTS	

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2300	CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWN PIPES, AND CONCRETE LININGS FOR OPEN DRAINS	
3100	BORROW MATERIALS	
3300	MASS EARTHWORKS	
3400	PAVEMENT LAYERS OF GRAVEL MATERIAL	
5900	FINISHING AND REHABILITATION OF THE SITE	
B9400	OCCUPATIONAL HEALTH AND SAFETY	
<b>TOTAL VALUE OF WORK:</b>		
CONTINGENCIES 10%		
<b>SUB-TOTAL OF CONSTRUCTION WORKS AMOUNT:</b>		
VALUE ADDED TAX: [15%]		
<b>TOTAL CONSTRUCTION AMOUNT AS PER FORM OF OFFER</b> <i>(This should be the same bid amount in the front page) NB: This grand total amount appear on the cover of the tender document (this amount will be used for evaluation purposes)</i>		

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