

**PROPOSED DECOMMISSIONING OF DUMPSITE, CONSTRUCTION OF TRANSFER STATION AND OTHER CIVIL WORKS AT ATHI RIVER EPZ - LOT 2 (OTHER CIVIL WORKS) - EPZA TENDER NO. 12/2016-2017.**

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b><u>BILL NO. 1: EARTH WORKS FOR THE DAM</u></b>				
A	Excavation of soil for seating the dam and sedimentation pond including clearing of jungle, trees, removal of roots, disposing off the excavated material as directed. Cover for all equipment, tools & tackles, labor etc, as per direction of Engineer-In-Charge.	CM	7000		-
B	Excavation in soft rock for seating the dam including clearing of jungle, trees, removal of roots, disposing off the excavated material as directed. Cover for all equipment, tools & tackles, labor etc, as per direction of Engineer-In-Charge.	CM	500		-
C	Excavation in hard rock for seating the dam including clearing of jungle, trees, removal of roots, disposing off the excavated material as directed. Cover for all equipment, tools & tackles, labor etc, as per direction of Engineer-In-Charge.	CM	500		-
D	Embankment filling from excavated material . Including sorting of isolated boulders and pebbles, dozing, breaking clods, moving of homogeneous material to specified areas for formation of homogeneous embankment with selected soils, bench for bonding including watering and compaction to the required density (95% MDD) as per details.	CM	7000		-
E	Excavate for spillway including dumping materials as directed	CM	100		-
F	Supply and lay boulders for riprap stabilization of spillway as per design	CM	40		-
G	Supply and install 1,000 micron dam liner for water proofing dam seating as specified.	SM	2500		-
H	Hand trench 600mm wide x 600mm deep along dam shoulders and bury dam liner edge for grip as specified	M	250		-
	SUMMARY CARRIED TO COLLECT. PAGE				-

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<b><u>DAM (CONTINUED)</u></b>					
A	Construct 2500mm of murrum road around dam for access and servicing	M	250		-
B	Install 1800mm high chainlink fence with 75 X 75mm square tubes at 3000mm C-C as per drawing detail 002.	M	260		-
C	Install 3No spout water features as per drawing detail 003	NO.	3		-
D	Allow a provisional sum of Ksh 450,000 only for landscaping works around the dam to be expended in whole or in part at the direction of the Project Manager.	SUM	1		-
SUMMARY CARRIED TO COLLECT. PAGE					
	Carried Forward From Page 1				-
	Carried From Above				-
TOTAL BILL 1 CARRIED TO SUMMARY PAGE					

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	<b><u>BILL NO. 2: RECREATION LANDSCAPING</u></b>				
	<b><u>SOFT LANDSCAPING</u></b>				
	<b><u>EARTH WORKS</u></b>				
A	Excavate soil (cut and fill) to design level for sitting pitches and terraces including clearing of jungle, trees, removal of roots, disposing off the excavated material as directed. Cover for all equipment, tools & tackles, labor etc, as per direction of Engineer-In-Charge.	CM	40000		-
B	Supply red soil dressing, compact at 300mm depth.	CM	5579		-
C	Digging top 100mm of compacted red soil in readiness for grassing	SM	49346		-
D	Supply and apply well dried farmyard manure and level soil to specified levels in preparation for lawn and shrub planting	CM	520		-
	<b><u>PLANTS</u></b>				
	<b><u>GRASS</u></b>				
C	Supply, store in approved condition and plant Kikuyu grass sprigs at 50mm centers both ways .	SM	43500		-
	<b><u>BEDDING SHRUBS (assorted)</u></b>				
D	Supply, store in approved condition, plant & maintain the shrubs including forming pit size 300 x 300 x 300mm deep removing all excavated materials and backfilling with manure and topsoil (1:2) compacted appropriately	SM	3800		-
	<b><u>GROUNDCOVERS (assorted)</u></b>				
E	Supply, store in approved condition plant & maintain the ground covers including forming pit size 150 x 150 x 150mm deep and backfilling with cow manure / topsoil mix (1:2) compacted appropriately	SM	2346		-
F	TREES ( Ornamental)	NO	350		-
	<b>TOTAL CARRIED TO COLLECT. PAGE</b>				-

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	<b><u>HARDSCAPE</u></b>				
A	Install 197 m of 1200mm wide rough Mazeras walkways on 50mm screed on 150mm compacted rubble	SM	236		-
B	Install 7 step seating terraces of standard quarry stone on bench compacted ground. Build two courses of quarry stone to retain each of the seven seating terrace whose sitting top shall be grass finished.	M	700		-
C	Install 4 step seating terraces of standard quarry stone on bench compacted ground. Build two courses of quarry stone to retain each of the four seating terrace whose sitting top shall be grass finished.	M	600.00		-
SUMMARY CARRIED TO COLLECT. PAGE					-
Carried Forward From Page 3					-
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TOTAL BILL 2 CARRIED TO SUMMARY PAGE					-

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<b><u>BILL NO. 3: SWIMMING POOL</u></b>					
<b>Earth Works</b>					
A	Excavation in soft material including removal of roots and growths, clearing the top soil.	CM	585		-
B	Handfilling of hardcore to a depth of 300mm and compaction of the same.	CM	115		-
C	Supplying & laying of 5mm gauge polythene / DPM, measured net area. Rate includes upturns & over laps.	SM	600		-
<b>Concrete Works</b>					
D	Supplying & Placing of Grade 15 Lean concrete blinding on the base	SM	400		-
E	Install formwork for Baby Pool and Main Pool. Formwork should be more than 12mm Plywood boards of approved quality and rate shall include for wastage, cutting, fixing, preparing steel frame works, props, clamps, struts, braces and ties, sticking off formwork from concrete and cleaning all from site after removal.	SM	300		-
F	Supply and laying necessary High Yield and Mild steel reinforcements as per detailed structural drawings from the Structural Engineer. The rate shall include bends, hooks tying wire, distance blocks, and ordinary spacers in all the pools including gutters and pool hardstand.	TON	10		-
G	Supply & Pour Grade 30 concrete with 3/4" aggregate size. Rate shall include mixing, hoisting, placing in position and vibration with a mechanical vibrator, in the two pools including gutter & hard stand.	CM	230		-
<b>Finishes</b>					
H	Water proofing for the internal surfaces and construction joints with plastering to make the surface fair, smooth and water tight.	SM	500		-
<b>SUMMARY CARRIED TO COLLECT. PAGE</b>					<b>-</b>

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A	Water proofing for the external surfaces and construction joints with heat treated asphalt	SM	125		-
B	Wall Tilling size 300X 300mm	SM	125		-
C	Floor Tilling size 300X300mm	SM	375		-
D	Hard stand Tilling with Cut mazeras of 450 X 450mm along the pool edge	SM	40		-
E	Rough mazeras around hard stand	SM	230		-
<b><u>Pool Equipments &amp; Under Water Lighting</u></b>					
F	Supply non corrosive fiber glass and polyester resin U/V treated filter with multiport valve , pressure guage and filter media	NO	5		-
G	63mm dia, water flow inlet , ABS plastic	NO	1		-
H	Pool main drain, ABS plastic U.V.Threaded (345mm x 345mm)	NO	1		-
I	50mm vaccum suction with ABS Plastic UV Threaded	NO	1		-
J	Under water lights complete with 100w/12v. With step down transformer & wired to working order and according to the manufactures specification water seal.	NO	4		-
K	Two step ladder made of AISI 316 stainless steel inclusive of the treads	NO	2		-
L	Supply and install pool railing	M	80		-
M	18" Commercial vaccum head with inbuilt brush	NO	2		-
N	15m Flexible floating vaccum hose	NO	2		-
P	Swimming pool leaf net	NO	2		-
Q	Commercial grade telescopic handle suitable to connect the vaccum head & should be able to extend up to 24 feet	NO	2		-
R	Swimming pool brush with nylon bristles	NO	2		-
SUMMARY CARRIED TO COLLECT. PAGE					-

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A	Swimming pool water analysis kit to test the pH & chlorine level	NO	1		-
B	300mm ABS plastic grating	NO	1		-
C	Dosing Pump	NO	1		-
D	3m x3m X3m underground Plant Room with step ladder and 1.5m X1.5m entry manhole	NO	1		-
E	Fabricating, Supplying, Transporting, Installation & Connecting the 3Phase Panel Board For to serve Main and baby Pools including all Necessary Accessories	NO	2		-
F	Supplying, Laying & Connecting of Underwater Lighting 4mm2 Twin Core Cable up To Plant Room	SUM	1		-
G	Supplying, Transporting, laying of PVC Pipes For Plumbing & Electrical Connction Up To Plant Room & Balancing Tanks for Pool including trench excavation, sand filling around the pipes, Pegler Bronze Valves, Plant Room Valve Arrangements, Non Return & Foot Valves and all other Plumbing Accessories.	SUM	1		-
H	Supplying & Installation of 3HP Pool Circulation Pumps For Pool. One pump acts as back up.	NO	3		-
<b>SUMMARY CARRIED TO COLLECT. PAGE</b>					<b>-</b>
	Carried Forward From Page 5				-
	Carried Forward From Page 6				-
	Carried Forward From Above				-
<b>TOTAL BILL 3 CARRIED TO SUMMARY PAGE</b>					<b>-</b>

**PROPOSED DECOMMISSIONING OF DUMPSITE, CONSTRUCTION OF TRANSFER STATION AND OTHER CIVIL WORKS AT ATHI RIVER EPZ - LOT 2 (OTHER CIVIL WORKS) - EPZA TENDER NO. 12/2016-2017.**

	<b>BILL 4: MINI GOLF</b>				
	<b>Earth Works</b>				
A	Excavate including removing excavated material from the site to an approved location	CM	1000		-
B	Backfill with approved grade murrum and compact appropriately.	CM	950		-
	<b>Concrete Works</b>				
C	Supply and cast ready mix reinforced concrete for fairways at 150mm depth on compacted hardcore base	CM	70		-
D	Supply and install terracota edging around all fairways	M	530		-
E	Supply and install fairway mat on concrete base on epoxy binder	SM	450		-
F	Install 1800mm wide walkways of random mazeras on 50mm screed on 30mm blinding on compacted 200mm hardcore on compacted subgrade	SM	190		-
	<b>Elements</b>				
G	Supply and install landscape bridges 1800mm wide X 3000mm length with treated wooden floor of 50mm thick planks and with 1200mm high 50mm X 50mm ballustrades at 150mm C-C	NO	3		-
H	Construct a 3000mm X 2500mm x 1500mm rocky water cascade to serve the fairway ponds	SUM	1		-
I	Excavate and Construct 450mm deep ponds as designed with 5mm damliner and rock clad collar	SM	230		-
J	Supply and install themed obstacles along fairways	SUM	1		-
K	Supply and install 900mm high picket fence around the course	M	190		-
L	Supply and install safety bollards with harness chains around islanded fairways (In the middle of the pond) at 2000mm C-C	M	74		-
	<b>SUMMARY CARRIED TO COLLECT. PAGE</b>				-



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	<b>Plumbing Works</b>				
A	Supply and install floor trap fittings in fairways for drainage	NO	25		-
B	Supply and install 150mm diameter rainage pipes per hole as designed with 5No service manholes.	M	200		-
	<b>Light Fittings</b>				
C	Supply, install, connect and test bollard lights including armored 350m of armored cables	NO	12		-
	<b>Landscaping</b>				
D	Soft Indscaping provisional sum	SUM	1		-
<b>SUMMARY CARRIED TO COLLECT. PAGE</b>					
	Carried Forward From Page 8				-
	Carried Forward From Above				-
<b>TOTAL BILL 4 CARRIED TO SUMMARY PAGE</b>					
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<b><u>SUMMARY PAGE</u></b>				
Carried from page 2 (Total for Dam- Bill 1)				-
Carried from page 4 (Total for Recreation Landscaping - Bill 2)				-
Carried from page 7 (Total for Swimming Pool- Bill 3)				-
Carried from page 9 (Total for Mini Golf - Bill 4)				-
<b>Sub-Total I</b>				<b>-</b>
Allow Provisional Sum of Ksh10,000,000 for the construction of the Gym,Caffe and SPA to be expended as directed by the Project Manager.				10,000,000
Allow Provisional Sum of Ksh 1,400,000 for fencing of the recreational facilities to be expended as directed by the Project Manager.				1,400,000
Allow Provisional Sum of Ksh 5,000,000 for Contigencies to be expended in whole or in part as directed by the Project Manager.				5,000,000
<b>Sub-Total II</b>				<b>16,400,000</b>
<b>TOTAL CARRIED TO MAIN SUMMARY PAGE (Sub-Total I +Sub-Total II)</b>				