

LEPELLE-NKUMPI LOCAL MUNICIPALITY
REFURBISHMENT AND UPGRADING OF LEBOWAKGOMO STADIUM

SCHEDULE A: PRELIMINARY AND GENERAL

SECTION A: PRELIMINARY AND GENERAL

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
	SANS 1200 A	PRELIMINARY AND GENERAL				
	8.3	FIXED-CHARGE ITEMS AND VALUE-RELATED ITEMS				
	8.3.1	Contractual Requirements	Sum			
	8.3.2	Establish Facilities on the Site :				
	8.3.2.1	Facilities for Engineer				
		a) Offices and storage sheds	Sum			
		b) Telephones	Sum			
		c) Nameboards	Sum			
	8.3.2.2	Facilities for the Contractor				
		a) office and storage sheds	Sum			
		b) workshops	Sum			
		c) laboratories	Sum			
		d) living accommodation	Sum			
		e) ablution and latrine facilities	Sum			
		f) Water supplies, electric power and communications	Sum			
		h) dealing with water	Sum			
		i) access	Sum			
		j) plant	Sum			
	8.3.3	Other	Sum			
	8.3.4	Removal of site establishment	Sum			
	8.4	TIME RELATED ITEMS				
	8.4.1	Contractual requirements	Sum			
	8.4.2	Operation and maintenance of facilities on site, for Duration of Construction, except where otherwise stated.				
	8.4.2.1	Facilities for Engineer				
		a) Offices and Storage sheds	Sum			
		b) telephone	Sum			
		c) nameboards	Sum			
		d) survey assistance and materials	Sum			
	8.4.2.2	Facilities for Contractor				
		a) office and storage sheds	Sum			
	8.5	Provisional sum for the remuneration of a nominated experiential training student for the duration of the project. The student to be deployed by the client at a remuneration of R 7500 per month	Prov-Sum			37 500,00
		Provisional sum for the Community Liason Officer's remuneration for the duration of the project	Prov-Sum			30 000,00
		Provisional sum for the Project Steering Committee Stipend for the reimbursement during meeting attendances	Prov-Sum			8 000,00
		Contractor's handling fee for the above mentioned nominated experiential training student extended as a percentage of the above provisional sums of R 75 500,00	%	75500		
Total Carried Forward						

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SCHEDULE A: PRELIMINARY AND GENERAL

SECTION A: PRELIMINARY AND GENERAL

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
		b) workshops	Sum			
		c) laboratories	Sum			
		d) living accommodation	Sum			
		e) ablution and latrine facilities	Sum			
		f) Water supplies, electric power and communications	Sum			
		h) dealing with water	Sum			
		i) access	Sum			
		j) plant	Sum			
	8.4.3	Supervision for duration of construction	Sum			
	8.4.4	Company and Head office overhead costs for the duration of the contract	Sum			
	8.4.5	Other Time-Related Obligations	Sum			
Total Carried Forward To Summary						

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SCHEDULE B: CIVIL WORKS AND SPORTS GROUNDS

SECTION B1: SITE CLEARANCE

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)	
B1		SECTION B1: SITE CLEARANCE					
B1.1	SANS 1200 C	CLEAR SITE					
B1.1.1	8.2.1	Clear and grub Site	ha	2,0			
	8.2.2	Remove and grub large trees and tree stumps of girth over					
B1.1.2		a) 1m and up to 2m	No.	30			
B1.1.3		b) 2m and up to 3m	No.	10			
	PS8.2.5	Take down existing fences					
B1.1.4		a) 1,2m high Diamond Mesh Soccer pitch fence	m	3			LS
		c) Take down existing gates	No.	3			LS
	PS8.2.8	Demolish and remove structures/buildings					LS
B1.1.8		a) concrete seating structure	m³	43			LS
B1.1.13	8.2.9	Transport materials and debris to unspecified sites and dump	m³.km	50			LS
Total Carried Forward To Summary							

**LEPELLE-NKUMPI LOCAL MUNICIPALITY
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SCHEDULE B: CIVIL WORKS AND SPORTS GROUNDS

SECTION B2: BULK EARTHWORKS

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)	
B2		SECTION B2: EARTHWORKS					
B2.1	SANS 1200DM	EARTHWORKS					
	8.3.2	Preparation of site					
B2.1.1		a) Remove topsoil to a depth of 150mm, stockpile and maintain.	m³	3 000			
	8.3.13	Surface finishes (for areas other than sport field and warm-up zone)					
B2.1.2		a) Loam soil from a balanced mixture of sand, silt and clay with slow release fertilizer material	m²	150			
Total Carried Forward To Summary							

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SCHEDULE B: CIVIL WORKS AND SPORTS GROUNDS

SECTION B3: STORMWATER DRAINAGE

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)	
B3		SECTION B3:STORMWATER DRAINAGE					
B3.1	SANS 1200DB	EARTHWORKS (PIPE TRENCHES)					
	8.3.2	Excavate					
		a) Excavate in all materials, select, backfill, compact and dispose of all surplus and unsuitable material. Pipes with diameter up to 700mm for depths:					
B3.1.1		i) 0m to 1m	m³	1 600			
B3.1.2		ii) over 1m to 2m	m³	10			
B3.2	SANS 1200LB	BEDDING (PIPE)					
	PS8.2.1	Provision of bedding, blanket and fill from commercial sources					
B3.2.1		a) 2,4mm Pea Gravel without Silica Quartz	m³	1 600			
B3.2.2		b) Loam soil from a balanced mixture of sand, silt and clay with slow release fertilizer material	m³	5 000			
B3.3	SANS 1200LE	STORMWATER DRAINAGE					
	PS8.2.1	Supply, handle, lay stormwater pipes in spesified bedding:					
B3.3.1		1) 110mm ø HDPE Slotted drainage pipes	m	3 300			
B3.3.2		2) 160mm ø uPVC in bedding for flexible pipes	m	85			
B3.3.3		2) 315mm ø uPVC in bedding for flexible pipes	m	190			
B3.3.4		3) 450mm ø precast inter-locking on class B bedding	m	130			
	8.2.4	Extra-over item 8.2.1 for cutting end units for culverts on site					
B3.3.5		a) Pipe culverts	No.	4			
	8.2.8	MANHOLES Construct complete with covers and frames					
B3.3.6		a) Brick manholes 1,5 m deep as per drawing No.....	No.	4			
	8.2.8	Supply all material nd labour to construct stormwater outlet wingwall complete as per drawing No.....					
B3.3.7		a) 230mm thick	No.	1			
B3.4		MISCELLANEOUS					
B3.4.1	8.2.11	Anchors for pipes	No.	5			
B3.4.2	8.2.12	Extra-over item ...3 for construction of inclined pipe culverts up to 450 mm diameter	m	3			
B3.3	SANS	DRAINAGE/WATER PIPES FITTINGS					
	8.2.2	Extra-over item .3 for supply, lay, joint, bed and test specials					
B3.3.2		160mm dia x 110mm dia Reducing Tee	No.	35			
B3.3.3		160mm dia end caps	No.	5			
Total Carried Foward to Summary							

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SCHEDULE B: CIVIL WORKS AND SPORTS GROUNDS

SECTION B4: WATER MAINS

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)	
B4		SECTION B5: WATER MAINS					
B4.1	SANS 1200DB	EARTHWORKS (PIPE TRENCHES)					
B4.1.1	8.3.2	a) Excavate in all materials, select materials, backfill, and dispose of surplus and unsuitable material	m³	2 320			
		b) Extra-over item 8.3.2 for:					
B4.1.2		1) Intermediate excavation	m³	10			
B4.1.3		2) Hard rock excavation	m³	20			
B4.2	SANS 1200LB	BEDDING MATERIALS					
	8.2.1	Provision of bedding from trench excavation					
B4.2.1		a) Selected granular material	m³	928			
B4.3	SANS 1200 L	MEDIUM PRESSURE PIPELINE					
	8.2.1	Supply, Lay and Bed (bedding for flexible pipes) Pipes Complete with Couplings					
B4.3.1		a) 25mm dia HDPE PN10 PE80	m	200			LS
B4.3.2		b) 50mm dia HDPE PN10 PE80	m	2 200			LS
B4.3.3		b) 75mm dia uPVC class 12	m	300			LS
B4.3.4		c) 90mm dia uPVC class 12	m	200			LS
	8.2.2	Extra-over 8.2.1 for the supplying, laying and bedding of specials					
		a) Bends					
B4.4		1) 90°					
B4.4.1		i) 25mm ø	No.	1			LS
B4.4.2		ii) 50mm ø	No.	1			LS
B4.4.3		iii) 75mm ø	No.	4			LS
B4.4.4		iv) 110mm ø	No.	2			LS
B4.5		2) 45°					
B4.5.1		i) 25mm ø	No.	2			LS
B4.5.2		ii) 50mm ø	No.	1			LS
B4.5.3		iii) 75mm ø	No.	3			LS
B4.5.4		iv) 110mm ø	No.	3			LS
B4.6		3) 22.5°					
B4.6.1		i) 25mm ø	No.	1			LS
Total Carried Forward							

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SCHEDULE B: CIVIL WORKS AND SPORTS GROUNDS

SECTION 4: WATER MAINS

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)	
Brought Forward							
B4.6.2		ii) 50mm ø	No.	1			LS
B4.6.3		iii) 75mm ø	No.	4			LS
B4.6.4		iv) 110mm ø	No.	3			LS
B4.7		4) 11.25°					
B4.7.1		i) 25mm ø	No.	1			LS
B4.7.2		ii) 50mm ø	No.	1			LS
B4.7.3		iii) 75mm ø	No.	5			LS
B4.7.4		iv) 110mm ø	No.	4			LS
		b) Reducers					
B4.7.5		1) 75mm ø to 25mm ø	No.	2			LS
B4.7.6		2) 75mm ø to 50mm ø	No.	1			LS
		c) Tee-piece					
B4.7.7		i) 110mm ø straight with 110mm ø branch	No.	3			LS
B4.7.8		ii) 110mm ø straight with 75mm ø branch	No.	3			LS
B4.7.9		iii) 110mm ø straight with 50mm ø branch	No.	1			LS
B4.7.10		iv) 110mm ø straight with 25mm ø branch	No.	3			LS
B4.7.11		v) 75mm ø straight with 75mm ø branch	No.	3			LS
B4.7.12		vi) 75mm ø straight with 50mm ø branch	No.	1			LS
B4.7.13		vii) 75mm ø straight with 25mm ø branch	No.	8			LS
		d) Saddles					
B4.7.14		i) 90 deg Tee Saddle with threaded male offtake for 50mm ø x 50mm ø pipe x 20mm ø pipe	No.	23			LS
B4.7.15		ii) 32mm ø saddle on 110mm ø pipe	No.	5			LS
B4.7.16		iii) 25mm ø saddle on 75 mm ø pipe	No.	3			LS
	8.2.3	Extra-over 8.2.1 for the Supplying, fixing and bedding of Valves					
B4.7.18		c) 75mm ø	No.	3			LS
B4.7.19		d) 110mm ø	No.	4			LS
B4.7.20	8.2.4	Extra-Over 8.2.1 for Cutting of the Pipe and Supplying and Fixing of Extra Coupling	No.	2			LS
	8.2.5	Supply and Place Pipes, Valves, and Specials (short pipe runs)					
		PUMPSTATION					
B4.7.21		1) DN80 'S' bend pipe with long radius and flanged on both ends (one	No.	1			
B4.7.22		2) DN80 'S' bend pipe with long radius and flanged on both ends (two	No.	1			
B4.7.23		3) DN80 Flanged straight pipe piece	No.	4			
B4.7.24		4) DN80 Flanged resilient seal valve non rising spindle, right hand	No.	1			
B4.7.25		5) DN80 Strainer with mesh	No.	2			
B4.7.26		6) DN80 Viking Johnson anchored flange adaptor	No.	2			
B4.7.27		7) DN80 Manifold pipe special, 45°-lateral tee with long radius bend,	No.	2			
Total Carried Forward							

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SCHEDULE B: CIVIL WORKS AND SPORTS GROUNDS

SECTION B4: WATER MAINS

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)	
Brought Forward							
B4.7.28		8) Vertical, non-self priming, multistage, in line centrifugal pump on. On	No.	2			
B4.7.29		9) DN80 Linkflex, flexible rubber joint	No.	2			
B4.7.30		10) DN80 Resilient seal avk swing check valve	No.	2			
B4.7.31		11) 1xDN25-15 reducing bush 1x DN15 equal tee, female 5x DN15 nipples 1x DN15 full flow ball valve(female) 2x DN15 elbows (female) 1x Glisarine pressure gauge 1x presure switch	No.	2			
B4.7.32		12) DN25 No-flow switch (electrical)	No.	1			
B4.7.33		13) DN50-25mm reducer, DN25- barrel, nipple, full flow ball valve and	No.	1			
B4.7.34		14) DN80 Manifold pipe both ends flanged with 2xDN25 off-takes,	No.	1			
	8.2.11	Anchor/ Thrust Blocks and Pedestals					
B4.7.35		a) concrete	m³	4			
B4.7.36		b) formwork	m²	11			
	8.2.13	Valve and Hydrants, ets.					
B4.7.37		a) Valve chambers	No.	3			
B4.7.38		b) Fire Hydrants	No.	2			
B4.7.39		Borehole exploration, drilling,testing for a good yield and quality. The borehole to yield atleast 2 litres per second	PC sum				
B4.7.40		Supply, deliver and install borehole submissible pump set complete to deliver 2 litres per second complete as per drawing no.....	PC sum				
B4.7.41		Supply, deliver and install borehole pump cage complete as per	PC sum				
B4.7.42		overheads, charges and profit on B5.7.39 above	%	0			
B4.7		IRRIGATION					
B4.7.1		Supply, deliver and Install Rain Bird 100-DV1 Sprinkler valve	No.	9			
B4.7.2		Supply, deliver and install Rain Bird ESP-TM2 out-door irrigation controller timer box	No.	1			
B4.7.3		Supply, deliver and install rain Bird 5004 Rotor pop- up sprinkler	No.	120			
B4.8		STORAGE					
B4.8.1		PVC Tanks positioned on concrete slab					
B4.8.2		Supply, deliver and install 10 000 litres PVC Tanks on concrete slab complete with all the fittings as per drawing no.....	No.	2			
Total Carried Forward To Summary							

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SCHEDULE B: TENNIS, NETBALL AND VOLLEYBALL COURTS

SECTION B5: FENCING							
ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)	
B5		SECTION B7: TENNIS, NETBALL AND VOLLEYBALL COURTS					
B5.1		Supply, deliver and surface Tennis, Netball and Volleyball courts area with Sport Surface Acrylic material complying with high solid and low viscosity spec by Sport Surface Acrylic Resurfacer or similar approved by the engineer	m ²	4 000			LS
		Flood Lights	Prov Sum	1	300 000,00	300 000,00	
Total Carried Forward To Summary							

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SCHEDULE B: CIVIL WORKS AND SPORTS GROUNDS

SECTION B6: SOCCER FIELD

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)	
B6		SECTION B10: SOCCER FIELD					
B6.1	SANS 1200 D	EARTHWORKS					
	8.3.10	Topsoiling					
B6.1.1		a) 100mm thick topsoil from commercial source	m³	1 700			
B6.1.2		b) Silica (70%) / Compost (30%) Turf from commercial source	m³	500			
	8.3.11	GRASSING					
B6.3.4		a) Kikuyu sods and roll with hand rollers	m²	16 285			
B6.3.5		b) 15mm lawn dressing	m³	1 000			
B6.3.6		d) water newly planted grass for 6 concecutive days	ℓ	500 000			
B6.3.7		e) water grass weekly for 5 weeks	ℓ	500 000			
B6.3.8		e) mowing of grass	m²	15 000			
		g) field markings					
B6.3.11		1) 50mm thick	m	1 500			
Total Carried Forward to Summary							

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REFURBISHMENT AND UPGRADING OF LEBOWAKGOMO STADIUM

SCHEDULE B: CIVIL WORKS AND SPORTS GROUNDS

SECTION B7: CONCRETE

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)	
B7		SECTION B14 CONCRETE					
B7.2	SANS 1200G	CONCRETE (STRUCTURAL)					
	8.2	Scheduled formwork items					
B7.2.1	8.2.1	Rough	m ²	80			
B7.2.2	8.2.2	Smooth	m ²	200			
	8.2.5	Concrete					
		b) Strength Concrete					
B7.2.3		1) 30MPa/19mm Cast in-situ concrete	m ³	8			
B7.2.4		2) 150mm thick Non-reinforced concrete floor slab (dry sand-cement mix for floor)	m ³	20			
	8.3.1	Steel Bars					
B7.2.5		a) Y12 steel bars (for precast entrance steps)	t	Rate Only		Rate Only	
B7.2.6		b) high tensile steel square reinforcing mesh, REF395	m ²	80			
Total Carried Forward To Summary							

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SCHEDULE B: CIVIL WORKS AND SPORTS GROUNDS

SUMMARY OF SECTIONS			
SECTION	DESCRIPTION		AMOUNT (RAND)
B1	SECTION B1: SITE CLEARANCE		
B2	SECTION B2: BULK EARTHWORKS		
B3	SECTION B3: STORMWATER DRAINAGE		
B4	SECTION B5: WATER MAINS		
B5	SECTION B7: TENNIS, NETBALL AND VOLLEYBALL COURTS		
B6	SECTION B10: SPORTFIELD AND ATHLETE WARMUP ZONE		
B7	SECTION B13: CONCRETE		
Total Carried Forward To Summary Of Schedules			

SCHEDULE C: BUILDING WORKS

LEPELLE-NKUMPI LOCAL MUNICIPALITY

REFURBISHMENT AND UPGRADING OF LEBOWAKGOMO STADIUM

SCHEDULE C: BUILDING WORKS

SECTION C1 : MASONRY

Number	Item Description	Unit	Quantity	Rate	Amount (Rand)	
C1	SECTION C4 : MASONRY The Tenderer is referred to the relevant Clauses in the separate document Standard Specifications for Building Work (August 2002 Edition) as issued by the South African National Roads Agency Limited and to the Supplementary Preambles which are incorporated in these Bills of Quantities.					
C1.1	SUPPLEMENTARY PREAMBLES Sizes in descriptions Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick. Wall ties Descriptions of solid walls (except if built in English bond) and cavity walls shall be deemed to include metal wall ties complying with SABS 28 and of the butterfly type, of the required length with each end built at least 75mm deep into brickwork, spaced at not more than 1m centres alternatively to every third course of brickwork. Cavity walls, etc. Descriptions of cavity walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.					
C1.2	BRICKWORK: FOUNDATIONS AND SUPERSTRUCTURE Brickwork in burnt clay NFP bricks in 3:1 cement mortar:					
C12.1	Two brick walls.	m2	15			LS
C1.4	BRICKWORK SUNDRIES Brick reinforcement:					
C1.4.2	230mm Wide reinforcement built in horizontally.	m	40			LS
Total Carried Forward to Summary						

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SCHEDULE C: BUILDING WORKS

SECTION C2 : ROOF COVERINGS, ETC.

Number	Item Description	Unit	Quantity	Rate	Amount (Rand)	
C2	SECTION C6 : ROOF COVERINGS, ETC. The Tenderer is referred to the relevant Clauses in the separate document Standard Specifications for Building Work (August 2002 Edition) as issued by the South African National Roads Agency Limited and to the Supplementary Preambles which are incorporated in these Bills of Quantities.					
C2.1	PROFILED METAL SHEETING AND ACCESSORIES 0,58mm Thick "Klip-lock 406" industrial galvanized roof sheeting with colorbond finish on one side in single lengths fixed to timber purlins including all fixing brackets and fixed in strict accordance with the manufacturer's instructions:					
C2.1.1	Sheeting laid to roof with pitch not exceeding 25 degrees in single lengths (measured nett).	m2	220			
C6.2	ROOF INSULATION Sisalation 420 heavy industrial grade reinforced aluminium foil insulation laid					
C2.2.1	Aluminium foil roof insulation laid taut over purlins (purlins at approximately	m2	220			
Total Carried Forward To Summary						

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SCHEDULE C: BUILDING WORKS

SECTION C3 : CARPENTRY

Number	Item Description	Unit	Quantity	Rate	Amount (Rand)	
C3	SECTION C7 : CARPENTRY					
	The Tenderer is referred to the relevant Clauses in the separate document Standard Specifications for Building Work (August 2002 Edition) as issued by the South African National Roads Agency Limited and to the Supplementary Preambles which are incorporated in these Bills of Quantities.					
C3.1	ROOF TRUSSES AND PURLINS					
C3.2	SUPPLEMENTARY PREAMBLES					
	The timber roof constuction forv the various buildings are to be designed and certified by "MiTec Industries SA (Pty) Ltd" and designed for a sheet metal roof load. The descriptions shall be deemed to include the manufacturers design, shopdrawings, engineers certification, all components, delivery to site, and installed strictly in accordance with the manufacturer's instructions .					
	All timber used for the roof construction is to comply to the relevant SABS codes for structural timber roof constuction.					
C3.2.1	Gang-Nail roof truss for as span of 6500mm.	No	21			
C3.2.2	50 x 228mm SA Pine roof beams	m	160			
C3.3	DOORS, WINDOWS, SASHES, ETC.					
	44mm Thick solid core laminated masonite flush door with hardwood					
C3.3.1	Door size overall 762 x 2032mm high.	No	Rate Only		Rate Only	
C3.3.2	Door size overall 813 x 1932mm high.	No	Rate Only		Rate Only	
C3.3.3	Door size overall 813 x 2032mm high.	No	10			
	44mm Thick solid Meranti flush back slatted door with hardwood concealed					
C3.3.4	Door size overall 813 x 2032mm high.	No	4			
Total Carried Forward to Summary						

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SCHEDULE C: BUILDING WORKS

SECTION C4 : JOINERY FITTINGS

Number	Item Description	Unit	Quantity	Rate	Amount (Rand)	
C4	SECTION C8 : JOINERY FITTINGS The Tenderer is referred to the relevant Clauses in the separate document Standard Specifications for Building Work (August 2002 Edition) as issued by the South African National Roads Agency Limited and to the Supplementary Preambles which are incorporated in these Bills of Quantities.					
C4.1	SUPPLEMENTARY PREAMBLES					
C4.2	NOTE: The following counters and cupboards have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork, etc (Tops have been measured separately unless otherwise described) All work tops shall be sealed against walls, around basins, sinks, etc with an approved type non-fungal sustaining clear silicone sealant White melamine faced particle board White melamine faced particle board shall be high quality melamine faced particle board comprising a single layer of melamine impregnated paper fused under heat and pressure to both sides of a 16mm thick high density interior grade particle board manufactured from wood particles, bonded with synthetic resin under heat and pressure to provide a smooth surfaced multi-layer board core. Finish to be a textured stippled finish Post-formed work tops, doors and drawer fronts Post-formed work tops, doors and drawer fronts shall be formed of high-pressure decorative laminate bonded to high density interior grade particle board. Work tops to have bull-nose profile post-formed edges where specified. Doors and drawer fronts to have bull-nose profile post-formed edges all round. High-pressure laminate shall have a neutral coloured textured stippled finish Screws and screw fixing All particle board shall be screw-fixed with particle board screws Only straight shank nickle plated chipboard screws shall be used. Pilot holes shall be drilled approximately 2mm deeper than the screw length. Screws in edges of boards shall never be positioned less than 3mm from the edge of the board. Screws shall never be over-tightened or driven in with a hammer. Nailing shall not be allowed for particle board Applied edging All rigid pvc edging are to be factory applied by means of automated edge bending machinery					
C4.3	BENCHES					
Total Carried Forward						

LEPELLE-NKUMPI LOCAL MUNICIPALITY
REFURBISHMENT AND UPGRADING OF LEBOWAKGOMO STADIUM

SCHEDULE C: BUILDING WORKS

SECTION C4 : JOINERY FITTINGS

Number	Item Description	Unit	Quantity	Rate	Amount (Rand)	
Brought Forward						
C4.3.1	3000mm Long x 500mm wide x 450mm high floor bench comprising 500 x 450mm mild steel welded base structure frames at 500mm centres formed of 20 x 20 x 1.6mm thick square tubing and top formed of two 40 x 5mm mild steel cross rails welded to base stucture frames and six 25 x 50mm meranti slats counter screwed to cross rails and bolted to concrete floor.	No	2			
C4.3.2	6000mm Long x 500mm wide x 450mm high floor bench comprising 500 x 450mm mild steel welded base structure frames at 500mm centres formed of 20 x 20 x 1.6mm thick square tubing and top formed of two 40 x 5mm mild steel cross rails welded to base stucture frames and six 25 x 50mm meranti slats counter screwed to cross rails and bolted to concrete floor.	No	2			
Total Carried Forward To Summary						

LEPELLE-NKUMPI LOCAL MUNICIPALITY
REFURBISHMENT AND UPGRADING OF LEBOWAKGOMO STADIUM

SCHEDULE C: BUILDING WORKS

SECTION C5 : CEILINGS						
Number	Item Description	Unit	Quantity	Rate	Amount (Rand)	
C5	SECTION C5 : CEILINGS The Tenderer is referred to the relevant Clauses in the separate document Standard Specifications for Building Work (August 2002 Edition) as issued by the South African National Roads Agency Limited and to the Supplementary Preambles which are incorporated in these Bills of Quantities.					
C5.1	SUSPENDED CEILINGS 1200mm x 3000mm x 4mm Thick "Nutec fibre cement ceiling" on 38mm x 38mm x 4,2m branderling with 4,5m spacing complete with bischof strips:					
C5.1.1	Supply, deliver and install 1200mm x 3000mm x 4mm Thick "Nutec fibre cement ceiling" on 38mm x 38mm x 4,2m branderling with 4,5m spacing Extra over ceiling trap doors for openings for maintainance and repairs:	m2	230			
C5.1.2	600mm x 600m trap door opening.	No	2			
Total Carried Forward To Summary						

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REFURBISHMENT AND UPGRADING OF LEBOWAKGOMO STADIUM

SCHEDULE C: BUILDING WORKS

SECTION C6 : IRONMONGERY

Number	Item Description	Unit	Quantity	Rate	Amount (Rand)	
C6	SECTION C6 : IRONMONGERY The Tenderer is referred to the relevant Clauses in the separate document Standard Specifications for Building Work (August 2002 Edition) as issued by the South African National Roads Agency Limited and to the Supplementary Preambles which are incorporated in these Bills of Quantities.					
C6.1	LOCKS AND HANDLES					
C6.1.1	Allow a Prime Cost Amount of R500.00 for lockset and striker plates complete with a pair of matching satin aluminium lever handles and fitting in position into timber doors (elsewhere).	No	12			
C6.2.1	DOOR CLOSERS					
C6.2.1	"DCLSA TS4000G" door closer with standard arm.	No	Rate Only		Rate Only	
C6.3	BATHROOM FITTINGS Dispensers, etc.:					
C6.3.1	"Franke Stratos STRX 618" grade 304 (18/10) stainless steel soap dispenser plugged to wall.	No	Rate Only		Rate Only	
C6.3.2	"Franke Stratos STRX 672" grade 304 (18/10) stainless steel lockable type two roll recessed toilet roll holder plugged to wall.	No	Rate Only		Rate Only	
C6.3.3	"Franke Stratos STRX 600" grade 304 (18/10) stainless steel lockable paper towel dispenser plugged to wall.	No	Rate Only		Rate Only	
C6.4	PUSH PLATES, KICK PLATES, ETC.					
C6.4.1	"DCLSA 080/320" stainless steel kick plate.	No	Rate Only		Rate Only	
C6.4.2	"DCLSA 079/160" stainless steel push plate with male/female symbol engraved thereon.	No	Rate Only		Rate Only	
C6.4.3	"DCLSA 079/160" stainless steel push plate with FHR symbol engraved thereon.	No	Rate Only		Rate Only	
C6.5	SUNDRIES					
C6.5.1	"DCLSA 154/69" satin stainless steel hat and coat hook with rubber buffer.	No	Rate Only		Rate Only	
C6.5.2	"DCLSA 140/69" satin stainless steel door stop with rubber buffer.	No	Rate Only		Rate Only	
C6.5.3	40mm Diameter brass swivel roller fitted to steel flagpole (elsewhere) including 10mm diameter x 6m long nylon flag hoisting rope with both ends of rope fitted with nylon toggles.	No	Rate Only		Rate Only	
Total Carried Forward To Summary						

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REFURBISHMENT AND UPGRADING OF LEBOWAKGOMO STADIUM

SCHEDULE C: BUILDING WORKS

SECTION C7 : METALWORK						
Number	Item Description	Unit	Quantity	Rate	Amount (Rand)	
C7	SECTION C8 : METALWORK The Tenderer is referred to the relevant Clauses in the separate document Standard Specifications for Building Work (August 2002 Edition) as issued by the South African National Roads Agency Limited and to the Supplementary Preambles which are incorporated in these Bills of Quantities.					
C7.1	STEEL LOCKERS Greenfield steel lockers with standard baked enamel finish:					
C7.1.1	Four tier steel locker size 305mm wide x 457mm deep x 1800mm high.	No	10			
Total Carried Forward to Summary						

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REFURBISHMENT AND UPGRADING OF LEBOWAKGOMO STADIUM

SCHEDULE C: BUILDING WORKS

SECTION C8 : PLUMBING AND DRAINAGE

Number	Item Description	Unit	Quantity	Rate	Amount (Rand)	
C8	SECTION C8 : PLUMBING AND DRAINAGE					
	The Tenderer is referred to the relevant Clauses in the separate document Standard Specifications for Building Work (August 2002 Edition) as issued by the South African National Roads Agency Limited and to the Supplementary Preambles which are incorporated in these Bills of Quantities.					
C8.1	SUPPLEMENTARY PREAMBLES					
	Rates					
	Pipes of the same specification whether of water, waste water, fire services, rainwater, gas, compressed air, etc. are for convenience measured separately.					
	Rates of all piping to include for short lengths, nipples, cutting, jointing, running joints, sockets, collars, etc. and unless otherwise stated to include for fixing to walls, in ducts, ceilings, roofs, floors, columns, slabs, etc.					
	Rates for pipes laid in trenches to include for risk of collapse, keeping excavations free from water, return filling and ramming and spreading and levelling surplus excavated material on site as directed by the Principal Agent					
	Wire gratings					
	Descriptions of gutter outlets, etc. shall be deemed to include wire balloon gratings.					
	Stormwater channels					
	Descriptions of channels shall be deemed to include all necessary excavation and disposal of surplus material.					
	uPVC pipes and fittings					
	Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings.					
	Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings.					
	uPVC pressure pipes and fittings: Pipes of water supply shall be of the class described.					
	Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings.					
	Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints.					
	Copper pipes Pipes shall be carbon free and of hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes shall be of capillary type solder fittings and compression fittings shall be of an approved type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in all walls or in ground.					
Total Carried Forward						

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REFURBISHMENT AND UPGRADING OF LEBOWAKGOMO STADIUM

SCHEDULE C: BUILDING WORKS

SECTION C8 : PLUMBING AND DRAINAGE

Number	Item Description	Unit	Quantity	Rate	Amount (Rand)
Brought Forward					
	<p>Copper pipes are to be installed in accordance with the latest revision of the code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc. to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition.</p> <p>The contractor is to allow for regular inspections and monthly certification by the manufacturer to ensure compliance with the above.</p> <p>Exposed concrete surfaces</p> <p>Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catchpits, inspection chambers, etc. shall be finished smooth with plaster.</p> <p>Excavation and backfilling</p> <p>Excavations and backfilling must be done using hand held tools only.</p> <p>Excavations</p> <p>No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling.</p> <p>"Soft and Hard rock" shall be as defined in "Earthworks".</p> <p>Sanitary fittings</p> <p>Outer edges of sinks, basins, urinals, etc. are to be sealed against adjacent surfaces with approved silicone.</p> <p>Stainless steel basins, sinks, wash troughs, urinals, etc.</p> <p>Units shall have standard aprons on all exposed edges and tiling keys against wall where applicable.</p> <p>Waste unions</p> <p>Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings.</p> <p>General</p> <p>Descriptions of pipes laid in and including trenches, inspection chambers, etc. shall be deemed to include excavation, backfilling, bedding, compaction to a minimum of 93% Modified AASHTO density and disposal of surplus material.</p>				
C8.2	<p>RAINWATER DISPOSAL</p> <p>0,6mm Thick seamless extruded aluminium gutters and downpipes, fixed in strict accordance with the manufacturer's instructions:</p>				
C8.2.1	125 x 100mm Square eaves gutter.	m	25		
C8.2.2	Extra for stopped end.	No	4		
C8.2.3	Extra for joint and outlet to 100 x 100mm square downpipe.	No	4		
Total Carried Forward					

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REFURBISHMENT AND UPGRADING OF LEBOWAKGOMO STADIUM

SCHEDULE C: BUILDING WORKS

SECTION C8 : PLUMBING AND DRAINAGE

Number	Item Description	Unit	Quantity	Rate	Amount (Rand)
Brought Forward					
	uPVC pipes including holderbats, etc.:				
C8.2.4	100mm Diameter rainwater downpipes.	m	18		
C8.2.5	Extra over rainwater downpipe for offset not exceeding 600mm.	No	4		
C8.2.6	Extra over rainwater downpipe for shoe.	No	4		
	"Fullbore" cast iron outlets including joint to uPVC pipes, adaptors, etc.:				
C8.2.7	150mm Diameter side type outlet with domical grating, jointed to uPVC pipe and set in top of concrete slab.	No	Rate only		Rate Only
C8.3	SANITARY FITTINGS				
	Approved white vitreous china:				
C8.3.1	Allow a Prime Cost Amount of R2 500.00 for white vitreous china wall hung open rim wc pan and concealed cistern complete with flushing pipe and heavy duty white double flap seat, fixing in position and connecting complete.	No	10		
C8.3.2	Allow a Prime Cost Amount of R2 500.00 for white vitreous china wall hung urinal with flush valve and flushing pipe, fixing in position and connecting complete.	No	4		
C8.3.3	Allow a Prime Cost Amount of R2 500.00 for white vitreous china drop-in wash hand basin with taps and waste outlet union complete with fixing in position on granite tops (elsewhere) including sealing with an approved silicone sealer and connecting complete.	No	Rate Only		Rate Only
	Approved stainless steel type 304 (18/10):				
C8.3.4	Allow a Prime Cost Amount of R7 500.00 for stainless steel sink size overall 1800 x 500mm complete with deep double centre bowls, driptrays, splashback, frame and stand, chromium plated waste unions, chains and stays, vulcanite plugs and undersink insulation, and fixing in position including sealing with an approved waterproof sealer and connecting complete.	No	Rate Only		Rate Only
C8.4	TRAPS, ETC.				
C8.4.1	40mm Rubber combination sink trap.	No	2		
C8.4.2	40mm brass deepseal brass shower trap with chromium plated grating.	No	Rate Only		Rate Only
C8.4.3	40mm Chromium plated brass bottle trap.	No	Rate Only		Rate Only
C8.5	TAPS, VALVES, ETC.				
	Chromium plated:				
C8.5.1	15mm "Cobra" angle stopvalve with wall flange.	No	10		
C8.5.2	15mm "Cobra Star 211" raised nose pillartap.	No	5		
C8.5.3	15mm "Cobra Star 238" undertile stopcock with wall flange.	No	Rate Only		Rate Only
Total Carried Forward					

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REFURBISHMENT AND UPGRADING OF LEBOWAKGOMO STADIUM

SCHEDULE C: BUILDING WORKS

SECTION C8 : PLUMBING AND DRAINAGE

Number	Item Description	Unit	Quantity	Rate	Amount (Rand)
Brought Forward					
C8.5.4	15mm "Cobra Star 166" sink mixer with wall flanges and overarm swivel outlet.	No	2		
C8.5.5	15 mm "Cobra 068BJ" shower head.	No	6		
C8.5.6	15mm "Cobra Star 027" shower arm with wall flange.	No	6		
	Brass:				
C8.5.7	15mm Ballstop valve.	No	10		
C8.5.8	"Cobra Master Flow2" Pressure reducing valve.	No	6		
C8.5.9	22mm Garden bibtap with 22mm thread for hose coupling.	No	5		
C8.5.10	22mm Fullway wheel head gate valve.	No	9		
C8.5.11	"Cobra PB1.10" 22mm vacuum breaker.	No	2		
	Sundries:				
C8.5.12	15mm Flexihose 450mm long.	No	12		
C8.6	SOIL AND WASTE WATER DRAINAGE				
	uPVC soil and waste piping with seal ring joints in accordance with SABS 967 fixed to walls, concrete soffits, etc.:				
C8.6.1	50mm Diameter pipe.	m	45		
C8.6.2	110mm Diameter pipe.	m	50		
C8.6.3	110mm Diameter Class 9 structured wall pipe laid in ground to falls on, including excavation in compacted earth 600mm wide and not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	60		
	Extra over uPVC pipes for fittings:				
C8.6.4	50mm Bend.	No	3		
C8.6.5	50mm Junction.	No	4		
C8.6.6	50mm Junction with inspection eye.	No	3		
C8.6.7	110mm Bend.	No	2		
C8.6.8	110mm Bend with inspection eye.	No	2		
C8.6.9	110mm Junction.	No	2		
C8.6.10	110mm Junction with inspection eye.	No	1		
C8.6.11	110 x 50mm Reducer.	No	3		
C8.6.12	110 x 50mm Reducing junction.	No	1		
C8.6.13	110mm Two-way vent valve.	No	1		
C8.6.14	110mm Pan connector.	No	2		
C8.6.15	110mm Bent pan connector.	No	1		
Total Carried Forward					

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SCHEDULE C: BUILDING WORKS

SECTION C8 : PLUMBING AND DRAINAGE

Number	Item Description	Unit	Quantity	Rate	Amount (Rand)
Brought Forward					
	Sumps, catch-pits, inspection chambers, etc.:				
C8.6.16	Gulley not exceeding 1000mm deep to invert comprising 110mm diameter uPVC trap and head, fitted with 190mm diameter uPVC grating, including excavating for, bedding on and encasing in 20MPa/19mm mass concrete and fitted with and including precast concrete gulley top bedded in cement mortar.	No	5		
C8.7	WATER RETICULATION				
	Copper tubing (SABS 460 Class 0) with brass fittings fixed to walls, concrete soffits, etc.:				
C8.7.1	15mm Diameter pipe.	m	30		
C8.7.2	15mm Solder fittings.	No	10		
C8.7.3	15mm Compression fittings.	No	7		
C8.7.4	22mm Diameter pipe.	m	32		
C8.7.5	22mm Solder fittings.	No	7		
C8.7.6	22mm Compression fittings.	No	10		
C8.7.7	28mm Solder fittings.	No	7		
C8.7.8	28mm Compression fittings.	No	6		
	HDPE piping (SABS ISO 9001 ClassPE63) with compression fittings, laid in ground, including excavation in compacted earth 400mm wide and not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.:				
C8.7.9	20mm Diameter pipe.	m	40		
C8.7.10	20mm Fittings.	No	40		
C8.7.11	25mm Diameter pipe.	m	60		
C8.7.12	25mm Fittings.	No	2		
C8.7.13	40mm Diameter pipe.	m	96		
C8.7.14	40mm Fittings.	No	4		
C8.8	ELECTRIC WATER HEATERS				
	Solahart industrial water heating sytem size 2475 x 2480 x 510mm high (472kgs full) installed on sheetmetal roof with and including stainless steel straps in strict accordance with the manufacturer's instructions:				
C8.8.1	300 Litre roof mounted water heating system.	No	1		
C8.9	FIRE SERVICE				
	Hose Reels, etc.:				
Total Carried Forward					

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SCHEDULE C: BUILDING WORKS

SECTION C9 : PLUMBING AND DRAINAGE

Number	Item Description	Unit	Quantity	Rate	Amount (Rand)
Brought Forward					
C8.9.1	Approved hose reel complete with 30m of 19mm hose all to SABS 543 incorporating 25mm chromium plated gunmetal gate valve and connection for and joint to supply pipe with brackets bolted to wall with and including four 8mm bolts with plate washers built 100mm into brickwork in cement mortar.	No	Rate Only		Rate Only
C8.9.2	Approved 4,5Kg DCP cylindrical fire extinguisher fixed on and including backing boards to walls.	No	Rate Only		Rate Only
C8.10	TESTING				
C8.10.1	Provide all necessary apparatus, water, etc. and allow for testing the whole of the plumbing and drainage work in Parts and Sections as completed and/or handed over to the satisfaction of the Architect and Local Authorities. All defective work is to be taken out and replaced at the Contractor's expense and the whole retested until found perfect.	Item	1		
Total Carried Forward To Summary					

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SCHEDULE C: BUILDING WORKS

SECTION C9 : GLAZING					
Number	Item Description	Unit	Quantity	Rate	Amount (Rand)
C9	SECTION C10 : GLAZING The Tenderer is referred to the relevant Clauses in the separate document Standard Specifications for Building Work (August 2002 Edition) as issued by the South African National Roads Agency Limited and to the Supplementary Preambles which are incorporated in these Bills of Quantities.				
C9.1	MIRRORS ETC. 6mm Thick silvered float glass copper backed mirrors with 10mm bevelled and polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in ceramic tiled wall:				
C9.1.1	Mirror size 600 x 1200mm high.	No	8		
C9.1.2	Supply,deliver and install 4mm obscured frosted glass	m2	20		
Total Carried Forward To Summary					

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SCHEDULE C: BUILDING WORKS

SECTION C10 : PAINTWORK

Number	Item Description	Unit	Quantity	Rate	Amount (Rand)
C10	SECTION C10 : PAINTWORK The Tenderer is referred to the relevant Clauses in the separate document Standard Specifications for Building Work (August 2002 Edition) as issued by the South African National Roads Agency Limited and to the Supplementary Preambles which are incorporated in these Bills of Quantities.				
C10.1	PLASTER Prepare and apply one coat "Dulux" plaster primer, one coat undercoat and two coats "Dulux Super Acrylic Emulsion" paint on:				
C10.1.1	Internal and external plastered walls, columns, recessed bands, etc.	m2	1 260		
C10.1.2	Internal and external plastered soffits.	m2	200		
C10.2	METAL Prepare and apply one coat "Dulux" steel patch primer, one coat "Dulux Duragrip" universal undercoat and two coats "Dulux Non-drip Enamel" paint on:				
C10.2.1	Frames and linings.	m2	430		
C10.2.2	Bearers, posts, edging, etc.	m	120		
Total Carried Forward To Summary					

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SCHEDULE C: BUILDING WORKS

SUMMARY OF SECTIONS			
Section	Description		Amount (Rand)
C	SECTION C1: EARTHWORKS		
C	SECTION C2 : MASONRY		
C	SECTION C3 : ROOF COVERINGS, ETC.		
C	SECTION C4 : CARPENTRY		
C	SECTION C5 : JOINERY FITTINGS		
C	SECTION C6 : CEILINGS		
C	SECTION C7 : METALWORK		
C	SECTION C8 : GLAZING		
C	SECTION C9 : PAINTWORK		
Total Carried Forward To Summary Of Schedules			

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SUMMARY OF SCHEDULES

	SCHEDULE	DESCRIPTION	AMOUNT (RAND)
	A	SCHEDULE A: PRELIMINARY AND GENERAL	
	B	SCHEDULE B: CIVIL WORKS AND SPORTS GROUNDS	
	C	SCHEDULE C: BUILDING WORKS	
		SUB - TOTAL 1	
		ADD 5% CONTINGENCIES	
		SUB - TOTAL 2	
		VAT @ 15% (VALUE ADDED TAX)	
		TOTAL	