	SECURITY CHECK OF PERSONNEL				
108	The principal agent may require the contractor to have classified		a)		
	In the event of the principal agent requesting the remove contractor shall do so forthwith and shall thereafter ens and the site and/or to any document or information relatin	¥			
109	F: T:	Item			
	PROHIBITION ON TAKING OF PHOTOGRAPHS				
110	F:	Item			
111	In terms of article 119 of the Defence Act, 44 of 1957, it installation or any building or civil works thereon or to be photographs except when authorized thereto by or on bet				
	The same prohibition is also applicable to all correctional Act 8 of 1959	30°		-	
	HIV/AIDS AWARENESS				
112	It is required of the contractor to thoroughly study the read together with and is deemed to be incorporated un Provision for pricing of HIV/AIDS awareness is made unthat all requirements of the aforementioned specification the only method of measurement and no additional items	**			
	The contractor must take note that compliance with the total non-compliance, the principal agent , notwithstandin to the contrary, reserves the right to delay issuing ar satisfactory proof of compliance. The contractor shall no interest , due to such delay of payment				
	AWARENESS CHAMPION				
113	Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification	gr.			
	*	•			
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	Section No. 1 Bill No. 1 PRELIMINARIES AND GENERAL		8		
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114	F: V:	Item		
	AWARENESS WORKSHOPS			
115	Selection and appointment of a competent Service Provider approved by the principal agent , provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification			
116	F: V:	Item		
	POSTERS, BOOKLETS, VIDEOS, ETC.			
117	Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period , all in accordance with the HIV/AIDS Specification			
118	F:V:	Item		
	ACCESS TO CONDOMS		s.	
119	Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period , all in accordance with the HIV/AIDS Specification			
120	F: T:	Item		
	MONITORING			
121	Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification			
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122	F: V:	Item			
	OCCUPATIONAL HEALTH AND SAFETY ACT			£	
123	The contractor shall comply with all the requirements Occupational Health and Safety Act, 1993 (Act No 85 of			*	
	It is required of the contractor to thoroughly study the He is deemed to be incorporated under this Section of the bil				
	The contractor must take note that compliance with the Health and Safety Specification is compulsory. In the notwithstanding the provisions of Clause A25.0 of Sectior issuing any progress payment certificate until the cont shall not be entitled to any compensation of whatsoever				
is in	Provision for pricing of the Occupational Health and Specification is made under this clause and it is explic deemed to be priced hereunder and no additional claims				
124	<u>F</u> : V:	16000			
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	PRELIMINARIES AND GENERAL				

	EMPLOYMENT AND TRAINING OF YOUTH WORKERS ON THE EXPANDED PUBLIC WORKS PROGRAMME (EPWP) INFRASTRUCTURE PROJECTS: NATIONAL YOUTH SERVICE (NYS)				
125	The contractor shall comply with all the requirements Training of Youth Workers on the Expanded Public Wo Service (NYS)" as attached to these bills of quantities		,		
	The contractor shall identify a minimum number of youth labour rates for a minimum period and train them, all as in these bills of quantities / lump sum document				
	The contractor shall liaise and co-ordinate with the emp priority list, the selection of youth workers, and the employ				
	The contractor shall avail the services of an adequately act as their construction supervisor. The foreman will be workers and for addressing questions and issues that may	## 84			
	Separate items which will be subject to remeasurement sum document to cover the direct costs associated with requirements in respect of the aforementioned specification this regard shall be entertained	·		,	
126	F: T:	Item			
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	IMPLEMENTATION OF LABOUR-INTENSIVE INFRASTRUCTURE PROJECTS UNDER THE EXPANDED PUBLIC WORKS PROGRAMME (EPWP)				
127	The contractor shall comply with all the requirements Work for Special Public Works Programmes" issued in te of 1997)" and the related "Ministerial Determination", labour-intensive infrastructure project under the Expanded				
	The contractor shall maintain daily records with regard report to the principal agent in the prescribed format. expenditure, number of job opportunities created, demograte, number of person-days of employment created and all as defined in the "Guidelines for the Implementation Public Works Programme (EPWP)"				
5	Provision for pricing of compliance with the aforementione requirements in respect of the aforementioned are deem shall be entertained		e e		
128	F: T:	Item			
	Selected examples of typical clauses are provided to indicate ways of describing such clauses. Users must delete, adapt or add to these examples to suit their particular circumstances				
129	Warranties for materials and workmanship				
	Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer , from the entity supplying the materials and/or executing the work and shall deliver same to the principal agent on final completion of the contract				
	The warranty shall state that workmanship, materials and installation are warranted for a specific period from the date of practical completion and that any defects that may arise during the specified period shall be made good at the expense of the entity supplying the materials and/or doing the work, upon written notice to do so				
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	Section No. 1 Bill No. 1 PRELIMINARIES AND GENERAL		4		
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130	The warranty will not be enforced if the work is damaged by defects in the execution of the works, in which case the responsibility for replacement shall rest entirely with the contractor F:	Item			
	F:T:	Item			
131	Cooperation of the contractor for cost management			*: *	
	It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the contract value does not exceed the budget				
	F:T:	Item			
132	Overloading The contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the works or temporary works eg scaffolding, etc. The contractor shall submit details of his proposed loading, storage, plant erection, etc to the principal agent for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the principal agent's requirements in connection with the provision of temporary support work, etc. Any damage caused to the works by overloading shall be made good by the contractor at his sole expense				
	F:T:	Item			
87					
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	Section No. 1 Bill No. 1 PRELIMINARIES AND GENERAL				

133	Propping of floors below				
	The contractor is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of materials and goods and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the principal agent and the cost thereof shall be borne by the contractor				
	F:T:	Item			
134	Testing of flat roof waterproofing for watertightness				
	Flat roof waterproof areas shall be flooded and kept "ponded" for at least forty eight (48) hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing				
	F:T:	Item			
	<u>User note</u>				
	Insert the following where a health and safety specification is <u>not</u> yet available. Note that there is an obligation on the employer to ensure that the contractor has priced opposite this item for the compliance with the act and the regulations and the reasonable provisions of the health and safety specification				
135	Health and safety				
	Without limiting the generality of the provisions of clause 2.0, the contractor's attention is drawn to the provisions of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended. It is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the aforementioned health and safety specification [2.1]				
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	Section No. 1 Bill No. 1 PRELIMINARIES AND GENERAL				
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<u>User note</u>				
Insert the following where a health and safety specification is available. Note that there is an obligation on the employer to ensure that the contractor has priced opposite this item for the compliance with the act and the regulations and the reasonable provisions of the health and safety specification				
Health and safety				
Without limiting the generality of the provisions of clause 2.0, the contractor's attention is drawn to the provisions of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended. It is specifically stated that the employer shall prepare a documented health and safety specification for the works (refer to Annexure? for a copy of the relevant specification) and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the provisions of the aforementioned health and safety specification [2.1]				
The contractor shall:				
 Comply with the health and safety specification for the works 			v	
Prepare and agree with the health and safety consultant the health and safety plan for the works				
Cooperate with the health and safety consultant in all respects				
 Manage the compliance of all subcontractors with the regulations and with the health and safety plan and specification 				
 Conform to the conditions contained in the employer's health and safety specification 			*	
F: V:	Item			
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Bill No. 1 PRELIMINARIES AND GENERAL				

136	Green star building certification				
	<u>User note</u>			×	
	Insert the provisions called for by the relevant green star consultant should it be a requirement that the project be submitted for green star certification	-			
	F:T:	Item			
137	Broad based black economic empowerment (BBBEE)				
	Tenders submitted will be evaluated taking into account their empowerment rating				
	The employer will be monitoring the broad based black economic empowerment (BBBEE) status of the contractor throughout the execution of the works				
12 8	The contractor is to submit to the principal agent on an annual basis a schedule of spend, split into vendors engaged as subcontractors and suppliers indicating their BBBEE rating including proof of the said rating				
	F:T:T:	Item			
138	Advertising rights				
	The employer may elect to contract with advertising agencies for the erection of advertising hoardings, banners, wraps or the like for the duration of the contract. The contractor shall not prevent such an arrangement and will assist in the facilitation of same. The position and type of advertising structure to be agreed with the principal agent so as not to hinder the contractor in meeting his obligations under this agreement				
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139	Confidentiality				
	The contractor undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all subcontractors and suppliers. Such information shall not be used in any way except in connection with the execution of the works				
	No information regarding this project shall be published or disclosed without the prior written consent of the employer				
	F:T:	Item		*	
140	Media releases				
	All rights of publication of articles in the media, together with any advertising relating thereto or in any way connected with this project, shall vest with the employer	-			
7	The contractor together with his subcontractors shall not, without the prior written consent of the employer , cause any statement or advertisement connected with this project to be printed, screened or aired by the media				
	F:T:	Item			
	SUMMARY OF CATEGORIES				
	Category : Fixed R				
	Category : Value R				
	Category : Time R				
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Item No	*	Quantity	Rate	Amount
	SECTION NO.2			6
	BUILDING WORK			
	BILL NO 1			
	ALTERATIONS			
2	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill	¥0		
				3
	SUPPLEMENTARY PREAMBLES			
	Unless otherwise stated, all materials from the alterations and demolition will belong to the builder.			
	The builder should allow for the removal of all debris from site and keeping the site clean at all times.			
	The Contractor should allow for removing of rubble from site on daily basis, failing which the client might stop the construction until the site has been cleaned.			
	TEMPORARY BARRIERS, SCREENS, ETC	2		
	Temporary barriers, screens, etc including removal			
1	Shade netting barrier 2000mm high formed of steel channel section rails, etc	n 120		
	Taking out steel doors, gates etc			
2	Steel roller shutter doors	0 4		
	Carried to Collection		R	
	Section No. 2 Bill No. 1 ALTERATIONS			
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	Taking up and removing roof covering, etc and preparing the trusses for new coverings				
3	Roof covering with pitch not exceeding 25 degrees.	m2	3 857	8	
4	Roof covering with pitch 45 degrees.	m2	133		
	Taking up and removing vinyl floor coverings, carpeting, etc and preparing the floor for new vinyl tiles				
5	Carpeting floor covering including preparing screed for new ceramic tiles	m2	425		
d	<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>				
6	1200 x 600 x 6mm " Nutec" fribre cement suspended ceiling panels on pre-painted exposed tees suspension system including main and cross tees, hangers, grids, etc	m2	233		
	Hacking up/off and remove ceramic tiles including mortar bed or adhesives from the concrete or brickwork and preparing the surface for new screed, plaster, tile finish etc				
7	Tiles to floors	m2	553		
8	Tiles to walls	m2	100		
	Taking out and removing sundry joinery work				
9	Timber skirtings from brickwork	m	113		
	Stripping off epoxy and prepare the floor for new screed and new epoxy finish (elsewhere measured)				
10	To floors and slabs	m2	2 225		
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	Taking out and removing piping, sanitary fittings, etc, including cutting off as necessary, diconnecting piping from the fittings and prepare to receive new (Elsewhere measured)		12		
11	Single bowl end sink	No	2		*
12	Wash hand basins	No	4		
13	Stainless steel toilet	No	5		
14	Water closet suite complete	No	2		
	PREPARATORY WORK TO EXISTING SURFACES				
15	Remove and replace worktop of 32mm thick post- formed chipboard with 1,2mm decorative plastic laminate on top, overall size 2300 x 600mm wide .	No	1		
16	Remove and replace worktop of 32mm thick post- formed chipboard with 1,2mm decorative plastic laminate on top, overall size 2300 x 600mm wide				
		No	1		
	CLEANING AND UNBLOCKING OF EXISTING SEWER PIPES				
	Money Provision:				
17	Provide a sum of R500 000,00 (Five Hundred thousand rand) for cleaning and unblocking of existing drainage pipes not clearly defined at the time of tender for a period of 3 years		Item		500 000.00
	ş.				
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	Section No. 2 Bill No. 1 ALTERATIONS				

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Bill No. 1				
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tem No			Quantity	Rate	Amount
	SECTION NO. 2				
	BUILDING WORK				
	BILL NO. 2	2			
	ROOF COVERINGS, ETC.				
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill				
	1,25mm Fibreglass profiled semi-opaque 50% light transmission translucent sheeting with 100mm end laps fixed to steel purlins, rails or steel framing with posi-drives				
1	Roof covering with pitch not exceeding 25 degrees.	m2	3 857		
2	Roof covering with 45 degrees pitch.	m2	133		
3	Vertical cladding.	m2	80		
4	Raking cutting.	m	30		
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	Carried Forward to Summary of Section No. 2 Section No. 2			R	
	Bill No. 2 ROOF COVERINGS				

tem No			Quantity	Rate	Amount	
	SECTION NO.2					
	BUILDING WORK		*			
	BILL NO 3					
	CEILINGS, PARTITION AND ACCESS FLOORING ETC.					
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill					
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill					
	CEILINGS, ETC					
	SUSPENDED CEILINGS					
	1200 x 600 x 6mm " Nutec" fribre cement ceiling panels or other equal approved tiles on pre-painted exposed tees suspension system including main and cross tees, necessary hangers, grids, etc					
1	Ceilings suspended not exceeding 1m below concrete, steel or timber	m2	233			
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	Carried Forward to Summary of Section No. 2 Section No. 2 Bill No. 3 CEILING, PARTIIONS AND ACCESS FLOORING			R ,		_

Item No			Quantity	Rate	Amount	
.80	SECTION NO.2					
	BUILDING WORK					
	BILL NO. 4					
	METALWORK					
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill					
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill					
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	WELDED SCREENS, GATES, ETC					
	Mild steel					
1	Gate size 813 x 2032mm high fixed to inside of 1.6mm double rebated steel door frames, gate formed out of 50 x 50 x 2,5mm rectangular tubing mitred at 45 degrees at corners before welding with 50 x 25 x 2,5mm rectangular tubing horizontal sections with 15 x 15mm mild steel solid square bar vertical uprights at centres as indicated with lockset case and lock	No	15	٠		
	SUNDRY STEELWORK					
	Corner protectors					
2	100 x 75 x 8mm Angle section corner protectors in varying lengths with 20mm diameter bent lugs each 150mm girth welded on at 500mm centres, including embedding in concrete	kg	. 129			
	ROLLER SHUTTER DOOR					
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	Carried to Collection Section No. 2			R		=
	Bill No. 4 METALWORK *					
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	Galvanised mild steel roller shutter door for face mounting, compromising curtain of 1,6mm galvanised interlocking slats with double steel angle bottom bar rivetted to bottom slat and hung to slide in channel guides, hung on heavy steel spring barrel with adjustable oil tempted helical spring counter balance, cast iron barrel collar, tension rod, etc enclosed in 1,2mm sheet iron cover box concrete or brickwork with and including 2 NO padlock (refer to "Assa Abloy"-60mm 630/B190 five pin tumbler cylinder padlock) and door to have one coat factory applied base coat red-oxide primer (on site finish elsewhere measured)		a		
3	Gear operated slatted roller shutter for 2400 x 2210mm high opening with 685 x 1220mm high wicket gate	No	4		
4	Money Provision: Provide a sum of R750 000,00 (Seven Hundred and				
	Fifty Thousand Rands) for removing and replacing damaged entrance steel gate not clearly defined at the time of tender		Item		750 000.00
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	Section No. 2 Bill No. 4 METALWORK				

Section No. 2		
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Bill No. 4 METALWORK		*

Item No			Quantity	Rate	Amount
	SECTION NO.2			24	
	BUILDING WORK				
	BILL NO. 5				
	PLASTERING				
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill				
	SCREEDS				
	3:1 Cement plaster screeds steel trowelled on concrete:				*
1	38mm Thick on floors in patches	m2	978		
	INTERNAL PLASTER				
	4:1 cement plaster steel trowelled to smooth finish				
2	On existing walls in patches	m2	1 050		
3	On narrow widths	m2	300	8	
	CORNER PROTECTORS, DIVIDING STRIPS, ETC				
4	3 x 50mm Flat section brass water bar let into top of concrete surface bed	m	30		
5	25 x 25 x 3mm Angle section dividing strip embedded in existing concrete floors (Provisional)	m	45		
	,				
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	Section No. 2 Bill No. 5 PLASTERING				

	SPECIALIST FLOOR COATING TO CONCRETE SURFACES 3mm Thick " Flowcrete St. " polyurethane screed on				-	
	3mm Thick " Flowcrete SL " polyurethane screed on concrete floors					
6	On screeded floors and landings	m2	2 225			
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Item No			Quantity	Rate	Amount
14	SECTION NO.2				
	BUILDING WORK				
	BILL NO 6				Н
	TILING				
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill			,	
	·				
	WALL TILING				
	200 x 200mm ceramic wall tiles (Prime Cost amount of R200,00/m2 including delivery to site and excluding VAT) fixed with adhesive to (plaster elsewhere) and flush pointed with ordinary grey portland cement grouting				
1	On walls in patterns	m2	100		
2	On narrow widths	m2	4		
	FLOOR TILING				
	330 x 330mm Ceramic floor tiles (PC R250.00/m2 VAT excl. delivered to site) fixed with adhesive to plaster (plaster elsewhere) and flush pointed with tinted waterproof jointing compound				
3	On floors	m2	978		
4	100mm High cut skirting tiles	m	113		
					14
	Section No. 2 Bill No. 6 TILING		F	, R	
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	Sundries				
5	Aluminium carpet to tile, tile in trim, 8mm high code TBC, with Natural mill colour finish between tile and other floor finishes-By Sure Strip Marketing	m	21		
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Bill No. 6		
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Item No		Quantity	Rate	Amount
	SECTION NO.2			
	BUILDING WORK			
	BILL NO 7			
	PLUMBING AND DRAINAGE			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill	1.0		
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill			
	SANITARY FITTINGS			
	" <u>Vaal"</u>			
1	510 x 405mm Hibiscus White vitreous china lavatory basin (product code 7050) with two tapholes including integrated overflow and chainstay hole, bolted to wall with two10mm bolts (product code 8448ZO). with Plumbing (Cobra 011 951-5000) Cobra Watertech 32mm Machine chrome plated slotted basin waste union (303). Plumbing (Cobra 011 951-5000) Cobra Watertech 15mm chrome plated pillar tap (Code: 505-21B/p-WS/6-nolime) with blue indice and elbow action lever; manufactured in accordance with SANS 226:2009 Type 2 (BS 5412).Cobra Watertech 15mm chrome plated pillar tap (Code: 505-21R/p-WS/6-nolime) with red indice and elbow action lever, manufactured in accordance with SANS 226:2009 Type 2 (BS 5412). Plumbing (Cobra 011 951-5000) COBRA 309-32 "anti-theft" plug Plumbing (Cobra 011 951-5000) COBRA 345/50 bottle trap, 50mm, pvc outlet. Plumbing (Cobra 011 951-5000) COBRA angle regulating valves – COBRA 832/350F	No 4	4	
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	Carried to Collection Section No. 2 Bill No. 7 PLUMBING AND DRAINAGE		R	

2	Daisy White vitreous china semi close coupled washdown suite comprising 90° outlet open rim pan (product code 751400) and matching 9 litre front single flush cistern (product code 710532) including lid, fitments and flushpipe elbow, including lid and fitments with heavy duty seat. Franke or similar and approved Stainless steel for sinks, wash hand basins, wc's, etc shall be type 304 (18/8)	No	2		
3	Standard S2 double end bowl catering sink 1500 x 650mm with 150mm high integral splashback and stainless steel legs and adjustable foot pieces	No	1		
4	LDS Code 350960 drip sink size 600 x 500mm fitted with stainess steel hinged bucket grid secured to wall with four anchor bolts	No	1		
5	LDL Code 318600 wall mounted wash trough size 600 x 500 x 257mm deep fixed to wall with two galvanised mild steel Falcon brackets	No	1		
6	1,2mm Thick Model HDSSB325318 heavy duty security type surround basin size 390 x 320 x 250mm deep complete with outer casing and welded base plate	No	2		
7	1,2mm Thick Model 356185 heavy duty vandal proof wc pan size $485 \times 390 \times 435$ mm high with circular flushing rim and bowl, 38mm supply flush pipe and seven times bolted to wall and floor all in accordance with the manufacturers specifications	No	5		
8	Model ENF-359206 heavy duty recessed drinking fountain and wash hand basin size 350 x 465 x 175mm deep with 15mm self closing metering tap built into recess in wall with steel lugs	No	3		
	TRAPS ETC				
	Marley or similar and approved	7			
9	40mm Deep butyl rubber resealing "P" or "S"trap adjusted for double sink/trough	No	5		
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	Carried to Collection			R	
	Section No. 2 Bill No. 7 PLUMBING AND DRAINAGE				

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	"Cobra Watertech"or similar approved					
10	40mm Chromium plated bottle trap as Code 345/40	No	3			
11	40mm Chromium plated bottle trap as Code 365/50	No	3			
	TAPS, VALVES, ETC					
	Cobra Watertech or similar and approved					
12	15mm Star 208LK brass bibtap with hose union	No	2			
13	15mm Stella 3338ST CP underwall stoptap	No	19			
14	15mm Star 206EXT CP bibtap	No	9			
15	15mm Stella 3314ST CP pillartap with colour indices	No	8			
16	15mm KM2.200 self closing metering bibtap	No	2			
17	15mm Stella 3294ST CP single taphole basin mixer with pop-up waste and angle regulating valves	No	10			
18	15mm 503-21CP elbow action pillartap with 1/4 turn ceramic disc and colour indices	No	2			
19	15mm Stella 166/041CP wall type sink mixer with swivel outlet	No	5			
20	15mm KP2.6CP Vandalmaster vandal-resistant shower head	No	3			
	Covers, etc					
21	550mm Diameter type 2A cast iron manhole cover and frame with GJ rotating wedge lock	No	2			
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	PLUMBING AND DRAINAGE					
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1	Section No. 2			
	Bill No. 7			
	PLUMBING AND DRAINAGE			
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	Bill No. 7 PLUMBING AND DRAINAGE			

Item No		Quantity	Rate	Amount
	SECTION NO.2			
	BUILDING WORK			
	BILL NO 8			
	PAINTWORK			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill			
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	NOTE: For all TRADE NAMES and the use of alternative items, refer to Section 3: Specific Preliminaries item C3			
	SUPPLEMENTARY PREAMBLES			
	Descriptions			
	Descriptions of painting shall be deemed to include complete preparation of new as well as existing surfaces, including patching and filling, sanding and primer on nail and screw heads			
	Descriptions of painting on pipes, gutters, etc shall be deemed to include painting on holder bats, hangers, clips, clamps, etc			
	Descriptions of painting on windows, frames, etc shall be deemed to include primer in rebates of sashes to be glazed			
	PAINTWORK, ETC TO EXISTING WORK			
	ON FLOATED PLASTER			
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	Section No. 2 Bill No. 8 PAINTWORK	,		

1		1	1	1		
	One coat primer, one undercoat and two coats pure acrylic emulsion paint					
1	On ceilings and beams	m2	1 165			
	One coat primer, one undercoat and two coats eggshell enamel paint				± 9	
2	On internal walls	m2	3 938			
3	On ceilings	m2	274			
	One coat primer and Flowseal EPW AF anti fungal epoxy wall coating applied in accordance with manufacturer's instructions			,		
4	On internal walls	m2	110			
	ON PLASTER BOARD			*		
	One undercoat and two coats "Dura 50" acrylic emulsion paint					
5	On ceilings	m2	56			
	ON METAL					
	Spot priming defects in pre-painted surface with red oxide primer and applying one universal undercoat and two coats gloss enamel paint					
6	On doors and frames	m2	2 541			
7	On roller shutters	m2	53			
8	On mesh screens and frames (both sidesmeasured)	m2	347			
9	On record room and strongroom doors and frames	m2	12			
10	On louvre doors and windows	m2	88			
11	On windows	m2	2 736			
12	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	4 550			
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	Section No. 2 Bill No. 8		1		E .	
	PAINTWORK *					
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13	On stainless steel benches	m2	95			
14	On brackets, rails,etc not exceeding 300mm girth	m	2 877			
	ON WOOD					
	One coat sanding sealer and two coats "Dura 50" acrylic emulsion on					
15	Skirtings, cornices, rails, etc, not exceeding 300mm girth	m	93			
	One coat wood primer, one universal undercoat and two coats alkyd enamel paint					
16	On doors	m2	61			
17	On shelves	m2	456		(*)	
18	On general surfaces of fittings	m2	33			
19	On slatted benches	m2	9			
	One coat sanding sealer and three coats clear polyurethane matt varnish	(200)				
20	On skirtings, rails, etc, not exceeding 300mm girth	m	1 267			
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Section No. 2		
Bill No. 8		
PAINTWORK		
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Bill	SECTION SUMMARY - BUILDING WORKS	Page No		Amount
No 1	ALTERATIONS	68		
2	ROOF COVERINGS	69		
3	CEILING, PARTIIONS AND ACCESS FLOORING	70		
4	METALWORK	73		
5	PLASTERING	76		
6	TILING	79		
7	PLUMBING AND DRAINAGE	83		
8	PAINTWORK	87		
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Item No		Quantity	Rate	Amount
	SECTION NO.3			4
	MECHANICAL WORKS			
	BILL NO.1			
	MECHANICAL PRELIMINARY AND GENERAL			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill			
Tild State of the				
	Note: All items shall be priced for whatever cost may be consider necessary for Preliminary and General to carry out the Mechanical Installations in full, as detailed in the drawings, Specifications and Schedules, which shall include, but shall not be limited, to the following:			v.
1	Technical Submissions	Item		
2	Transport	Item		
3	Rigging & cranage	Item		
4	Compliance With Health and Safety Regulations	Item		
5	Attendance and contract manangement	Item		
6	Training of user client	Item		
7	Operating & Maintenance Manuals and As Built .Drawings 3 sets(Hard & Soft Copies)	Item		
8	Testing and Commissioning of the whole system	Item		
9	Allow for the provision of electrical certificate of compliance for all mechanical related work.	Item		
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4	Bill No. 1 MECHANICAL GENERAL			

Item No			Quantity	Rate	Amount
	SECTION NO.3				9
	MECHANICAL WORKS				
	BILL NO. 2				
	KITCHEN				
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill				
	·		27		
	KITCHEN EQUIPMENT THAT NEEDS MAJOR SERVICING, REPAIR AND 3 YEARS MAINTENANCE PLAN				
	135Lt Steam-Jacketed cooking pot				
1	Check/repair all electrical connections and controls, generally clean the equipment ,check/repair the gasket seal, service/repair the insulations ,check/repair the valves, check/clean the element, check/repair all pipe connection for leaks. Service to be done nine(9) times in 3 years on 16 items .	No	144		
	80Lt Electric tilting frying pan				
2	Check/repair all electrical connections and controls, generally clean the equipment ,check/repair the gasket seal, service/repair the insulations ,check/repair the valves, check/clean the element, check/repair all pipe connection for leaks. Service to be done nine(9) times in 3 years on 8 items .	No	72	-	
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	Section No. 3 Bill No. 2 KITCHEN		4	, ,	

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	40 pan electric combi steamer			
3	Check/repair all electrical connections and controls, generally clean the equipment(air, dust filters and exhaust vent), check/replace the seals, check/repair all pipe connections for any leaks, replace /tighten the loose screws, check/repair belts and valves for any signs of damage.Service to be done nine(9) times in 3 years on 4 items.	No	36	
	Band 'meat' cutting saw			
4	Generally clean the equipment ,replace/tighten the loose screws, sharpen the blade/replace the blade, check/repair all the electrical connection and control and check the belt for any damages. Service to be done nine(9) times in 3 years on 3 items	No	27	
	Industrial 3 solid plate Hotel stoves	ľ		
5	Check/repair all electrical connections and controls, service/repair all electric element.Generally clean the equipment.Repair/tighten all the loose screws.Service to be done nine(9) times in 3 years on 4 items	No	36	
	1100kg/h Floor standing mincer			
6	Check/repair all electrical connections and controls. Balance and calibrate the scale.Generally clean the equipment.Service to be done nine(9) times in 3 years, on 2 items.	No	18	
	780mm Diamond potato peeler			
7	Check/repair all electrical connections and controls. Generally clean the equipment.Check/repair the belt for any sign of damage. Replace/tighten the loose screws .Check/repair the door seal.Grease/oil the bearings.Service to be done nine(9) times in 3 years on 2 items .	No	18	
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•	Section No. 3 Bill No. 2 KITCHEN	•		

	60Lt food mixing machine				
8	Check/repair all electrical connections and controls. Generally clean the equipment(discharge gate and mix tub). Check/repair all seals. Grease/oil all bearings. Check/repair belt and chain-and-sprocket for any signs of damage. Check/clean the intervents replace/tighten the loose screw. Service to be done nine(9) times in 3 years, on 2 items.	No	18		
		No	10		
	8Lt EMPERO food processor 295 x 490 x 365mm high, 0.37kW, 220V, 1 Ph				
9	Check/repair all electrical connections and controls. Generally clean the equipment.Check/repair the belt for any sign of damage.Repair/lubricate the blade Replace/tighten the loose screws. Grease/oil the bearings.Service to be done nine(9) times in 3 years on				
	4 items.	No	36		
	Meat cold room size 3.6 x 3.9 x 2.4m high formed of 100mm thick walls and roof polystyrene and polystrene insulation including vapour barrier and granolithic floor finish and swing door c/w(hinged type) and c/w cubicoil 4-way blower and 3-way blower cooler				€
10	Calibrate the cold room temperature, clean the evaporator casing, all blowing fans and fins. check the control valves .check the reverse blowing ,check/replace the door hinges and handles .check all electrical components and control. check door seals ,check/replace compressor oil leakage.Service to be done nine(9) times in 3 years on 1 item.				
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11	Vegetable cold room size 9.7 x 3.9 x 2.4m high formed of 100mm thick walls and roof of polystyrene and chromadek sandwich panels, floor 100mm thick polystyrene insulation including vapour barrier and 100mm thick reinforced concrete with 25mm Hardened granolithic floor finish and swing door complete ("slam on" hinge type) c/w 3-way blower compressors Calibrate the cold room temperature, clean the evaporator casing, all blowing fans and fins. check the control valves .check the reverse blowing ,check/replace the door hinges and handles .check all electrical components and control. check door seals ,check/replace compressor oil leakage.Service to be				
	done nine(9) times in 3 years on 1 item.	N.			
		No	9	es l	
	7200 x 2000 x 700mm Steam hood/box type steam canopy fans axial flow extraction dia. 710/150/10/360 volts /3kW melanex				
12	Check/repair all electrical connections and controls. Generally clean the equipment. Ventilation system to be cleaned. Replace/repair all the fans. Replace /tighten the loose screws. Replace/clean the filters. Service to be done nine(9) times in 3 years on 6 items.				
		No	54		
	100kg platform scale				
13	Check/repair all electrical connections and controls. Balance and calibrate the scale.Generally clean the				
	equipment. Service to be done nine(9) times in 3 years on 6 items.		5.4		
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	KITCHEN *				
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14	E380V, 380 V, 200 bar Repair all electrical connections and controls. Repair all pipes connections leaks. Repair/replace the pressure gauge.Replace/replace the belt for any damage and motors.Grease/oil the bearings.Replace/repair the water seals.Service to be done nine(9) times in 3 years on 2 items.	No	18		
15	200 Rack advancing dish washer with inlet and outlet table, size 3000 x 780mm Check/rep Check/repair all electrical connections and control. Generally clean the equipment . Check/repair belts for any sign of damage. Service/Repair the fans. check/repair any water leakage.Service/repair the rack-conveyor.Service to be done nine(9) times in 3 years on 1 item .	No	9		
16	Floor drain(inside kitchen) Generally clean the floor drain(Scrape off the floor drain's baffles, sides and lid). Service to be done nine(9) times in 3 years on 7 items.	No	63		
17	12000btu (3.6kW) DX midwall split unit of R410a Check gas leaks clean filters, check/clean drip tray and drain pipes, check electrical connections and controls replace refrigeration pipes armarflex insulation, generally clean equipment.Regas unit with refrigerant.Service to be done twelve(12) times in 3 years on 2 items.	No	24		
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	Grease trap chamber size 1500 x 800 x 750mm deep internally, built with one brick walls on and including 150mm thick reinforced concrete bottom slab					
18	Service/repair the pumps.Generally clean the grease traps(Scrape off the trap's baffles, sides and lid). Vacuum out all the lingering FOG's.Dispose the collected fats, iol and grease.Service to be done nine(9) times in 3 years on 2 items.	No	18			
	13mm Bread slicer					
19	Generally clean the equipment, replace/tighten the loose screws, sharpen the blade/replace the blade, check/repair all the electrical connection and controls. Check the belt for any damages. Service to be done nine(9) times in 3 years on 4 items.	No	36			
	Meat freezer room size 3.6 x 5.7 x 2.4m high formed of 100mm thick walls and roof of polystyrene and chromadek sandwich panels, floor 100mm thick polystyrene insulation with vapour barrier and 100mm thick reinforced concrete with 25mm hardened granolithic floor finish and swing door complete ("slam on" hinged type) c/w 3-way blower Compressors					
20	Calibrate the freezer room temperature, clean the evaporator casing, all blowing fans and fins, check the control valves, check the reverse blowing, check/replace the door hinges and handles, check all electrical components and control, check door seals and check/replace compressor oil leakage. Service to be done nine(9) times in 3 years on 4 items.	No	36			
	840 x 610mm Mobile crockery rack					
21	Replace/tighten the loose screws. Generally clean and paint the rack .Repair/replace the wheels.Service to be done six(6) times in 3 years on 20 items.	No	120			
	Kitchen Equipment that needs to be replace					
22	135Lt Steam-Jacketed cooking pot	No	16		*	
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23	80Lt Electric tilting frying pan	No	3		
24	1000 x 850mm Heavy duty electrical range with oven	No	1		
25	Band 'meat' cutting saw	No	1		
26	industrial 3 solid plate Hotel stoves	No	2		
27	1100kg/h Floor standing mincer	No	2		
28	780mm Diamond potato peeler	No	2		
29	60Lt food mixing machine	No	2		
30	8Lt EMPERO food processor 295 x 490 x 365mm high, 0.37kW, 220V, 1 Ph	No	4		
31	7200 x 2000 x 700mm Steam hood/box type steam canopy fans axial flow extraction dia. 710/150/10/360 volts /3kW melanex	No	3		
32	10kg Electronic scale	No	4		
33	1260Lt/hour Wap Electra 18/48 380V, 200 bar	No	2		
34	200 Rack advancing dish washer with inlet and outlet table, size 3000 x 780mm	No	1		
35	Floor drain(inside kitchen)	No	7		
36	12000btu (3.6kW) DX midwall split of R410a	No	2		
37	Grease trap chamber size 1500 x 800 x 750mm deep internally, built with one brick walls on and including 150mm thick reinforced concrete bottom slab	No	2		
38	13mm Bread slicer	No	1		
39	Steam jacketed pot integrating test	No	1		ŀ
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Bill No. 2 KITCHEN		

Item No		Quantity	Rate	Amount
	SECTION NO.3			
	MECHANICAL WORKS			
	BILL NO. 3			
	BAKERY			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			ő
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill			
	Bakery Equipment that needs major servicing,repair and 3 years maintenance plan	-		
	13 mm Bread slicer			
1	Generally clean the equipment, replace/tighten the loose screws, sharpen the blade/replace the blade,check/repair all the electrical connection and controls. Check the belt for any damages.Service to be done nine(9) times in 3 years on 2 items.	No	18	
	Provers 2.63 kW,1 ph,177 kg			
	Check/repair all electrical connections and controls, check/repair door and gasket seals, check/replace the belts, valves, dampers, and actuator for any signs of damage, generally clean the equipment, check/replace fire sensors, check/repair fans/blowers c/w filters, check/repairs all pipes connections for any leaks. Check/replace all orifice plates, air-gas mixer, flow indicators, meters and gauges. Service to be done nine(9) times in 3 years on 2 items.		40	
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	Section No. 3 Bill No. 3 BAKERY AND TEXTILE	•		

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	Statust mini Molder, 380 V, 50 Hz, 3 ph					
3	Check/repair all electrical connections and controls.Generally clean the equipment. Check/replace all belts and chains for any signs of damage.Replace/Tighten all loose screws . Grease/oil all bearings Check/replace gasket seals.Service to be done nine(9) times in 3 years on 3 items.	No	27		*	
	SM 120kg spiral dough mixer, 9 kW, 380 V, 3ph					
4	Check/repair all electrical connections and controls .Generally clean the equipment(discharge gate and mix tub).Check/repair all seals.Grease/oil all bearings Check/repair belt and chain-and-sprocket for any signs of damage.Check/clean the intervents replace/tighten all loose screws. Service to be done nine(9) times in 3 years on 2 items.	No	18			
	60Lt Cake mixer, 4 kW, 220 V					
5	Check/repair all electrical connections and controls. Generally clean the equipment(discharge gate and mix tub). Check/repair all seals. Grease/oil all bearings Check/repair belt and chain-and-sprocket for any signs of damage .Check/clean the intervents replace/tighten the loose screw.Service to be done six(6) times in 3 years on 1 item.	No	6			
	Macadams 4/30 Bun Divider - 30 pieced (40-120 g).			=		
6	Check/repair all electrical connections and controls.Generally clean the department. Replace/tighten all loose screws .Grease/oil all bearings .Check/replace belt for any damaged . Check/replace the turning lathe.Servicing to be done nine(9) times in 3 years on 1 item.			2		
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7	Slimline Electrical 120 Rotary rack oven including canopy, 47 kW, 380 V, 3 ph Check/repair all electrical connections and controls .Generally clean the equipment .Check/replace the seals .Ventilation system to be cleaned .Check/repair all pipe connections for any leaks .Replace /tighten the loose screws.Service to be done twelve(12) times in 3 years on 2 items.	No	24			
	D20 Hydraulic divider, 3.5 amp, 3 ph					
8	Check/repair all electrical connections and controls .Generally clean the department. Replace/tighten all loose screws .Grease/oil all bearings .Check/replace belt for any damaged .Check/replace the turning lathe.Service to be done twelve(12) times in 3 years on 2 items.				, .	
		No	24			
	var a Francis and a					
9	10kg Electric scale Check/repair all electrical connections and controls. Balance and calibrate the scale. Generally clean the equipment. Service to be done nine(9) times in 3 years					
	on 1 item.	No	9			
		INO	9			
	250L Geyser					
10	Repair all electrical connections and control. Check/replace the pressure valve Repair all pipe connections for any leaks .Replace the electric element, replace the anode rot .Generally clean the equipment.Service to be done six(6) times in 3 years on 1 item.					
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	Extraction fan alstom 3ph induction 3kW		-			
11	Clean dust from fan housing, grease/oil fan bearing, check/repair fan impeller, check electrical connections and controls. Service to be done nine(9) times in 3 years on 1 item.				2	
		No	9			
	12 000 btu (3.6kW) DX midwall split unit					
12	Check gas leaks clean filters,check/clean drip tray and drain pipes, check electrical connections and controls, replace refrigeration pipes armarflex ,insulation, generally clean equipment.Regas unit with refrigerant.Service to be done twelve(12) times in 3 years on 1 item.					
		No	12			
	General cold room size 6.1 x3.7 x3.4m high formed of 100mm thick walls and roof of polystyrene and 100mm thick reinforced concrete with 25mm hardened granolithic floor finish and swing door (hinged type) compressor. Replacing compressor only	٠				
13	Calibrate the cold room temperature, clean the evaporator casing, all blowing fans and fins check the control valves, check the reverse blowing, check/replace the door hinges and handles, check all electrical components and control , check door seals, check/replace compressor oil leakage. Replacing compressor only . Service to be done nine (9) times in 3 years on 1 item.			*		
	years on Titem.	No	9			
	Loading dock lift					
14	Repair/replace the springs/hydraulic		24			
	shock.Repair/replace the release ring.Service to be done three(3) times in 3 years on 1 item.	No	3			
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15	Compressor plantroom c/w 2x 15kW,8.5bar compressors, 1x 1000cubic meter tank Inspect blow down muffler ,check/replace pressure relief valve ,check/replace oil, oil filter and O-rings ,check/replace air filter. generally clean the equipment ,check/repair air and oil leaks, check/replace belt tension, cracks or signs of wear check hose and PTFE tubes.Drain water from air receiver.Check/replace gauges.Service to be done nine(9) times in 3 years on 1 item.	No	9		
40	Bakery Equipment that needs replaced Stainless steel two-rack two-door prover side by side	No	1		
16		No	2		
17	D20 Hydraulic divider, 3.5 amp, 3 ph				
18	250L Geyser	No	. 1		
19	Extraction fan alstom 3ph induction 3kW	No	1		
20	12 000 btu (3.6kW) DX midwall split unit of R410a	No	1		
21	General cold room size 6.1 x3.7 x3.4m high formed of 100mm thick walls and roof of polystyrene and 100mm thick reinforced concrete with 25mm hardened	No	1		
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Item No			Quantity	Rate	Amount	
	SECTION NO.3					
	MECHANICAL WORKS					
	BILL NO. 4					
	LAUNDRY					
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill					
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill					
9		¥				
	Laundry Equipment that needs major service, repair and 3 years maintanance plan				9	
	GIRBAU, Washing machines industrial x 55kg					
1	Check the inlet and outlet hoses for any leakage ,clean the exhaust duct,clean the gasket between the door and drum, clean/replace the water inlet filters, check the motor belt for any signs of damage , check all electrical connections and controls and check/replace door seal.Service to be done nine(9) times in 3 years on 5 items.					
		No	45			
	TULLIS, tumble dryers industrial x 55kg					
2	Check all electrical connections and controls, clean/replace vent hose, generally clean the equipment, check belts for signs of damaged ,clean the condenser dryer, check/replace lint filters and check/replace door seal. Service to be done nine(9) times in 3 years on					•
	4 items.	No	36			
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	Carried to Collection Section No. 3			R		-
	Bill No. 4 LAUNDRY					

				TV.	, ,	
	Speed queen tumble dryer x 12kg					
3	Check all electrical connections and controls. Clean/replace vent hose, generally clean the equipment, check belts for signs of damaged, clean the condenser dryer ,check/replace lint filters and check/replace door seal. Service to be done nine(9) times in 3 years on 1 item.	No	9			
	GIRBAU PS - 5132, iron roller press industrial					
4	Check/replace the valves clean soleplate,check/repair electrical connection and control.Check/repair connections for leakage. Generally clean the equipment.Service to be done nine(9) times in 3 years on 2 items.	No	18		·	
		110	10			
	FORENTA, iron steam press industrial					
5	Check/replace anit-calc valve clean soleplate, check/repair electrical connection and control. Check/repair gas connection for leakage.Service to be done nine(9) times in 3 years on 5 items.	No	45			
	Ingersol Rand Compressor, (200Litre) for air supply to steam press irons					
6	Check/replace all valves and belts for any sign damage, check/replace oil, oil filter, air filters and O-rings, generally clean the equipment, check/repair air and oil leaks .Check/repair compressor pump and gauges.Check/tighten all loose screws. Grease/oil all bearings. Check/repair the motors.Service to be done six(6) times in 3 years on 1 item.	No	6			
	18 000 btu (5.4kW) DX split Cassette unit in the office					
7	Check/repair gas leaks clean filters,check/clean drip tray and drain pipes ,check/repair electrical connections and controls ,replace refrigeration pipes armarflex, insulation ,generally clean equipment. Regas unit with refrigerant.Service to be done twelve(12) times in 3 years on 3 items					
	youro sit o nome	No	36			
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	Carried to Collection			R		-
	Section No. 3 Bill No. 4					
	LAUNDRY					
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	Laundry Equipment that needs to be replaced				
8	GIRBAU, Washing machines industrial x 12kg	No	2		
9	FORENTA, iron steam press industrial	No	1		
10	18 000 btu (5.4kW) DX split Cassette unit compressor	No	2		
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	Carried to Collection Section No. 3	n		R	_
	Bill No. 4 LAUNDRY				

Section No. 3		1	
Bill No. 4			
LAUNDRY			
COLLECTION			
	Page No		Amount
Total Brought Forward from Page No.	104		
	105		
	106		
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Carried Forward to Summary of Section No. 3 Section No. 3		R	
Bill No. 4 LAUNDRY			

Item No		Quantity	Rate	Amount
	SECTION NO.3			
	MECHANICAL WORKS			
	BILL NO. 5			
	PAROLE BOARD, MULTI-PURPOSE HALL, TRANSPORT SECTION AND SUPPLY CHAIN EQUIPMENT			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill			
	Parole board, multi-purpose hall,transport section, supply chain and facultyof education equipment that needs major service,reapir and years maintenance plan			
	12 000 btu (3.6kW) Floor standing DX split unit			
1	Check gas leaks clean filters,check/clean drip tray and drain pipes, check electrical connections and controls, replace refrigeration pipes armarflex. Insulation. Generally clean equipment .Regas unit with refrigerant.Service to be done twelve(12) times in 3 years on 15 items.	400		
	N .	180		
	Carried to Collection		F	
	Section No. 3 Bill No. 5 PAROLE BOARD, MULTI PURPOSE HALL, TRANSPO			

2 Check gas leaks clean filters ,check/clean drip tray and drain pipes , check electrical comnections and controls, replace refrigeration pipes amarifex .Insulation. Generally clean equipment. Regas unit with refrigeratis-Bervice to be done twelve(12) times in 3 years on 18 items. No 216 0.8 cubic meter/min rotary screw compressor clw 20mm line pressure regulator, filter condensate drain and 25mm line pressure regulator, condensate drain and clean displaced and collection and collective place pressure relief valve , check/replace oil, oil filter and O-rings , check/replace and oil leaks.check/replace belt temsers of wear check hose and PTFE tubes. Drain water from air receiver ,check/replace belt temsers of wear check hose and PTFE tubes. Drain water from air receiver ,check/replace gauges.Service to be done six(6) times in 3 years on 1 item. No 6 Bulk Store freeser room size 5.6 x 9.3 x 2.4m high formed of 150mm walls and roof of polystyrene and chromodels insulation with vanour barrier and 100mm thick reinforced with 25mm hardened granolibic floor finish and swing door (hinge type) c/w 3-cubicoll blower compressor 4. Calibrate the freezer room temperature, clean the evaporator casing, all blowing fans and fins, check the control valves, check the reverse blowing, check/replace the door hinges and handles, check all electrical components and control ,check door seals and check/replace compressor oil leakage.Service to be done six(6) times in 3 years on 1 item. No 6					153	2 2	
drain pipes , check electrical connections and controls, replace refrigeration pipes armaffex . Insulation. Generally clean equipment. Regas unit with refrigerant. Service to be done twelve(12) times in 3 years on 18 items. No 216 9.8 cubic meter/min rotary screw compressor c/w 20mm line pressure regulator, filter condensate drain and 25mm line pressure regulator, condensate drain for 2.4sqm/min Inspect blowdown muffler , check/replace pressure relief valve , check/replace oil, oil filter and O-rings , check/replace air filter, generally clean the equipment , check/replace air filter, generally clean the equipment , check/replace air filter, generally clean the equipment , check/replace belt tension, cracks or signs of wear check hose and PTFE tubes . Drain water from air receiver , check/replace gauges. Service to be done six(8) times in 3 years on 1 item. No 6 Bulk Store freeser room size 5.6 x 9.3 x 2.4m high formed of 150mm walls and roof of polystyrene and chromadek insulation with vapour barrier and 100mm thick reinforced with 25mm hardened granolithic floor finish and swing door (hinge type) c/w 3-cubicoil blower compressor Calibrate the freezer room temperature, clean the evaporator casing, all blowing fans and fins, check the control valves, check the reverse blowing, check/replace the door hinges and handles, check all electrical components and control , check door seals and check/replace compressor oil leakage. Service to be done six(6) times in 3 years on 1 item. No 6		18000 btu (5.4kW) Cassette DX split unit					
20mm line pressure regulator, filter condensate drain and 25mm line pressure regulator, condensate drain for 2.4sqm/min Inspect blowdown muffler ,check/replace pressure relief valve , check/replace oil , oil filter and O-rings ,check/replace air filter,generally clean the equipment ,check/replace air and oil leaks.check/replace belt tension,cracks or signs of wear.check hose and PTFE tubes .Drain water from air receiver ,check/replace gauges.Service to be done six(6) times in 3 years on 1 item. No Bulk Store freeser room size 5.6 x 9.3 x 2.4m high formed of 150mm walls and roof of polystyrene and chromadek insulation with vapour barrier and 100mm thick reinforced with 25mm hardened granolithic floor finish and swing door (hinge type) c/w 3-cubicoil blower compressor Calibrate the freezer room temperature, clean the evaporator casing, all blowing fans and fins.check the control valves, check the reverse blowing,check/replace the door hinges and handles, check all electrical components and control ,check door seals and check/replace compressor oil leakage.Service to be done six(6) times in 3 years on 1 item. No 6 Carried to Collection		drain pipes , check electrical connections and controls, replace refrigeration pipes armarflex .Insulation. Generally clean equipment. Regas unit with refrigerant.Service to be done twelve(12) times in 3	No	216			
valve _ check/replace oil, oil filter and O-rings _ check/replace air filter.generally clean the equipment _ check/replar air and oil leaks.check/replace belt tension,cracks or signs of wear.check hose and PTFE tubes. Drain water from air receiver _ check/replace gauges.Service to be done six(6) times in 3 years on 1 item. No 6 Bulk Store freeser room size 5.6 x 9.3 x 2.4m high formed of 150mm walls and roof of polystyrene and _ chromadek insulation with vapour barrier and 100mm thick reinforced with 25mm hardened granolithic floor finish and swing door (hinge type) c/w 3-cubicoil blower compressor Calibrate the freezer room temperature, clean the evaporator casing, all blowing fans and fins.check the control valves, check the reverse blowing.check/replace the door hinges and handles, check all electrical components and control _ check door seals and _ check/replace compressor oil leakage.Service to be done six(6) times in 3 years on 1 item. No 6 Carried to Collection R Section No. 3 Bill No. 5		20mm line pressure regulator, filter condensate drain and 25mm line pressure regulator, condensate					
formed of 150mm walls and roof of polystyrene and chromadek insulation with vapour barrier and 100mm thick reinforced with 25mm hardened granolithic floor finish and swing door (hinge type) c/w 3-cubicoil blower compressor 4 Calibrate the freezer room temperature, clean the evaporator casing, all blowing fans and fins, check the control valves, check the reverse blowing, check/replace the door hinges and handles, check all electrical components and control, check door seals and check/replace compressor oil leakage. Service to be done six(6) times in 3 years on 1 item. No 6 Carried to Collection R Section No. 3 Bill No. 5	3	valve , check/replace oil, oil filter and O-rings ,check/replace air filter.generally clean the equipment ,check/repair air and oil leaks.check/replace belt tension,cracks or signs of wear.check hose and PTFE tubes .Drain water from air receiver ,check/replace gauges.Service to be done six(6) times in 3 years on 1	No	6			
evaporator casing, all blowing fans and fins,check the control valves, check the reverse blowing,check/replace the door hinges and handles, check all electrical components and control, check door seals and check/replace compressor oil leakage.Service to be done six(6) times in 3 years on 1 item. No Carried to Collection Section No. 3 Bill No. 5		formed of 150mm walls and roof of polystyrene and chromadek insulation with vapour barrier and 100mm thick reinforced with 25mm hardened granolithic floor finish and swing door (hinge type) c/w 3-cubicoil blower compressor					
Carried to Collection R Section No. 3 Bill No. 5	4	evaporator casing, all blowing fans and fins,check the control valves, check the reverse blowing,check/replace the door hinges and handles, check all electrical components and control, check door seals and check/replace compressor oil leakage.Service to be	No	6			
Section No. 3 Bill No. 5		•	NO	0			
Section No. 3 Bill No. 5							
Section No. 3 Bill No. 5							
Bill No. 5		Carried to Collection			F	₹	+
		Bill No. 5					

	Bulk Store cold room size 5.7 x 9.4 x 2.4m high formed of 100mm walls and roof of polystyrene and chromadek insulation with vapour barrier and 100mm thick reinforced with 25mm hardened granolithic floor finish and swing door (hinge type) c/w 3-cubicoil blower compressor				
	Calibrate the cold room temperature, clean the evaporator casing, all blowing fans and fins, check the control valves, check the reverse blowing, check/replace the door hinges and handles, check all electrical components and control, check door seals and check/replace compressor oil leakage. Service to be done six(6) times in 3 years on 1 items.	No	6		e e
	4000 I/s @300pa roof mounted fans				
6	Grease/oil fan bearing , check/repair fan impeller, check electrical connections and controls.Service to be done six(6) times in 3 years on 4 items.		a.		
		No	24		
	Parole board, multi-purpose hall,transport section,supply chain faculty of education equipment that needs to be replaced				
7	18 000 btu (5.4kW) Cassette DX split unit of R410a	No	18		
8	Bulk Store freeser room size 5.6 x 9.3 x 2.4m high formed of 150mm walls and roof of polystyrene and chromadek insulation with vapour barrier and 100mm thick reinforced with 25mm hardened granolithic floor finish and swing door (hinge type) c/w 3-cubicoil blower compressor(replace blowers)	No	2		
9	18 000 btu (5.4kW) DX split Cassette unit compressor	No	4		
10	12 000 btu (3.6kW) Floor standing DX split unit compressors				
		No	4		
	Carried to Collection			R	
	Section No. 3 Bill No. 5 PAROLE BOARD, MULTI PURPOSE HALL, TRANSPO				

Section No. 3				
Bill No. 5				
PAROLE BOARD, MULTI PURPOSE HALL, TRANSPORT SECTIO	N AND SUP	PLY		
COLLECTION				
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Carried Forward to Summary of Section No. 3 Section No. 3 Bill No. 5 PAROLE BOARD, MULTI PURPOSE HALL, TRANSPO		R		

Item No		Q	uantity	Rate	Amount
	SECTION NO.3				
	MECHANICAL WORKS				
	BILL NO. 6				
	CELL BLOCK K1-K2				
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill				,
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill			*	
	Cell Blocks K1-K2 equipment that needs major service, reapir and 3 years maintenance plan				
	12000 btu (3.6kW) Floor standing DX split-unit				
1	Check gas leaks clean filters,check/clean drip tray and drain pipes, check electrical connections and controls, replace refrigeration pipes armarflex. Insulation. Generally clean equipment.Regas unit with refrigerant.Service to be done twelve(12) times in 3 years on 5 items.	No	60)	
	Wall mounted fans 50L/s@50Pa				
	Clean dust from fan housing, grease/oil fan bearing, check/repair fan impeller.check electrical connections and controls.Service to be done nine(9) times in 3 years on 7 items.	No	63	3	
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	Carried to Collection				R
	Section No. 3 Bill No. 6 CELL BLOCKS K1-K2				

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	Roof fans 800L/s @ 100Pa					
3	Clean dust from fan housing, grease/oil fan bearing, check/repair fan impeller.check electrical connections and controls.Servicing to be done six(6) times in 3 years on 25 items.					
		No	150			
	Dishwasher					
4	Check/repair spray arm, check /repair float switch. check door gasket and leaks.check electrical connections and controls.check the motor.Service to be done nine(9) times in 3 years on 8 items.	No	72			
	9000 btu (2.6 kW) Midwall DX split unit					
5	Check gas leaks clean filters, check/clean drip tray and drain pipes, check electrical connections and controls, replace refrigeration pipes armarflex. Insulation. generally clean equipment and Regas unit with refrigerant. Service to be done nine(9) times in 3 years on 8 items.	No	96			
	Mechanical ventilation(Clean existing duct)					
6	Mechanical ventilation(Clean existing duct). Service to be done six(6) times in 3 years on 15 items.					
		m2	90			
	Clean 1200x1200x600mm steam hood type					
7	Check/repair all electrical connections and controls. Generally clean the equipment. Ventilation system to be cleaned. Replace/repair all the fans .Replace /tighten the loose screws. Replace/clean the filters.Service to be done six(6) times in 3 years on 2 items.	No	. 12			
	Cell blocks K1-K12 equipment that needs to be replaced					
8	12000 btu (3.6 kW) Floor standing units of R410a	No	7			
	Carried to Collection			R		
	Section No. 3			K		+
	Bill No. 6					
	CELL BLOCKS K1-K2					
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					2	
9	Wall mounted fans 50L/s@50Pa	No	5			
10	Roof fans 800L/s @ 100Pa	No	5			
11	Dishwasher	No	4			
12	9000 btu (2.6 kW) DX Midwall split unit of R410a	No	6			
13	Mechanical ventilation	m2	15			
		1112	10			
				5.		
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	Section No. 3 Bill No. 6					
	CELL BLOCKS K1-K2		<i>\$</i>			
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Section No. 3		
Bill No. 6		
CELL BLOCKS K1-K2		
COLLECTION		
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tem No			Quantity	Rate	Amount	
140	SECTION NO.3					
	MECHANICAL WORKS					
	BILL NO. 7					
	CELL BLOCK O					
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill					
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill					
			9			
	Block O and F equipment that needs major service, repair and 3 years maintenance plan					
	Roof fans 4000L/s @100Pa					
1	Grease/oil fan bearing check/repair fan impeller.check electrical connections and controls.Service to be done nine(9) times in 3 years on 8 items.	No	72			
	18000 btu (5.4kw) Cassette DX split unit					
2	Check gas leaks clean filters.check/clean drip tray and drain pipes, check electrical connections and controls replace refrigeration pipes armarflex. Insulation and generally clean equipment.Regas unit with refrigerant.Service to be done twelve(12) times in 3					
	years on 2 items.	No	24			
	Carried to Collection				R	
	Section No. 3 Bill No. 7 BLOCK O & F					

	2.7cubic meter/min rotary screw compressors 15kW and 8,5bar ,and 2x 1000 cubic meter tanks					
3	Inspect blowdown muffler ,check/replace pressure relief valve, check/replace oil, oil filter and Orings.check/replace air filter.generally clean the equipment, check/repair air and oil leaks.check/replace belt tension,cracks or signs of wear ,check hose and PTFE tubes.Drain water from air receiver.Check/replace gauges.Service to be done six(6) times in 3 years on 1 item .	No	6		ar a	
	3800 x 1800 x 700mm galvanised mild steel welding					
	canopy c/w 5 dampers and 650mm axial fan at 300Pa					
4	Clean dust from fan housing ,grease/oil fan bearing, check/repair fan impeller.check electrical connections and controls. check and clean filters.check the welding canopy and check dampers.Service to be done six(6) times in 3 years on 1 item.	No	6			
	1.8cubic meter/min rotary screew compressor, 1					
	cubic meter receiver and 3.6 cubic meter/ min refrigirated air dryer					
5	Inspect blowdown muffler, check/replace pressure relief valve , check/replace oil, oil filter and O-rings ,check/replace air filter.generally clean the equipment ,check/repair air and oil leaks.check/replace belt tension,cracks or signs of wear check hose and PTFE tubes.Drain water from air receiver.Service to be done six(6) times in 3 years on 1 item .					
		No	6			
	Blocks O and F equipment that needs to be replaced					
6	18 000 btu (5.4kW) Cassette DX split unit of R410a	No	7			
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						\vdash
	Carried to Collection Section No. 3			R		+
	Bill No. 7 BLOCK O & F					

Section No. 3		
Bill No. 7		
BLOCK O & F		
COLLECTION		
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Section No. 3 Bill No. 7 BLOCK O & F		
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Item No			Quantity	Rate	Amount	
	SECTION NO.3					
	MECHANICAL WORKS					
	BILL NO. 8					
	HOSPITAL					
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill					
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill					
			300			
	Hospital equipment that needs major service, repair and 3 years maintenance plan					
	18 000 btu (5.4kW) Cassette DX split unit					
1	Check gas leaks clean filters. check/clean drip tray and drain pipes. check electrical connections and controls. replace refrigeration pipes armarflex. Insulation. generally clean equipment.Regas unit with refrigerant.Service to be done twelve(12) times in 3 years on 6 items.	No	72			
	Supply diffuser to be cleaned					
2	Supply diffuser to be cleaned. Service to be done twelve(12) times in 3 years on 8 items.	No	96	5		
						_
	Carried to Collection				R	
	Section No. 3 Bill No. 8 HOSPITAL					

			1	11		1
	12 000 btu (3.6kW) DX Midwall split unit					
3	Check/clean drip tray and drain pipes, check electrical connections and controls, replace refrigeration pipes armarflex. Insulation. Generally clean equipment. Regas unit with refrigerant. Service to be done twelve(12) times in 3 years on 5 items.	No	60			
	Disc valves					
4	Disc Valves.Service to be done six(6) times in 3 years on each 8 items.	No	48			
	1730L/s @400Pa and 2200L/s @ 700Pa motor					
5	Clean dust from fan housing, grease/oil fan bearing, check/repair fan impeller. check electrical connections and controls, check and clean filters. Service to be done six(6) times in 3 years on 2 items.	No	12			
	Medical gas plantroom c/w 10x10 0xygen bank, 2x2 scavenger bank and wall mounted, medical gas panel					
6	Check/repair the manifold velves.Check/repair manifold/system for any gas leaks.Check/repair medical gas panel .Check the level of the gas bottles and replace the empty .Service to be done nine(9) times in 3 years on 1 item.	No	9			
7	Medical vaccum plantroom c/w 2x 26L/s @68kPa vacuum pumps coupled with 3p electric motors and 1600L pressure tank c/w vacuum switches,pressure regulating valves,shut- off,brackets and mufflers Check/replace the filters.Check/repair the belts and mechanical connections.Check/top up the oil level. Check/unblock the drains.Check/repair all electrical connections and control generally clean the equipments.					
	Check/replace the valves and rings.Check/Fix the voltage and amerage of the electrical motor.Check the room condition(cooling/ventilation system). Check for any gas leaks. Service to be done nine(9) times in 3 years on 1 item.					
	yours on Thomas	No	9			
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	Section No. 3					
	Bill No. 8				•	
	HOSPITAL					
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	<u>Tests</u>					
8	Test Oxygen points if they working. Service to be done nine(9) times in 3 years on 43 items.	No	387			
9	Test Vaccum points if they working. Service to be done nine(9) times in 3 years on 43 items.	No	387			
	Hospital equipment that needs to be replaced					
10	18 000 btu (5.4kW) Cassette DX split unit of R410a	No	7			
	Hospital medical gas equipment that needs to be replaced					
11	Oxygen additional points	No	34			
12	Vacuum additional points	No	40		£	
13	Medical gas plantroom c/w 10x10 0xygen bottle banks 10,2kG	No	20			
14	Medical gas plantroom c/w 2x2 scavenger bottle banks 10,2kG	No	4			
15	1 x vacuum pump & modify D.D. to suit	No	1			
16	1 x 1 medical oxygen manifold and H.P-L.P regulator	No	1			
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	Bill No. 8 HOSPITAL				.41	

Section No. 3		
Bill No. 8		
HOSPITAL		
COLLECTION		
Total Brought Forward from Page No.	Page No 119 120 121	Amount
Carried Forward to Summary of Section No. 3 Section No. 3 Bill No. 8 HOSPITAL		R

Item No		Quantit	Rate	Amount
	SECTION NO.3			
	MECHANICAL WORKS			
	BILL NO. 9			
	MAIN ADMIN BLOCK			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill			
	Main Admin Block equipment that needs major service, repair and 3 years maintenance plan			
	12 000 BTU (3.6kW) Floor standing DX split unit			
1	Check gas leaks clean filters. Check/clean drip tray and drain pipes, check electrical connections and controls ,replace refrigeration pipes armarflex.Insulation. Generally clean equipment.Regas unit with refrigerant.Service to be done twelve(12) times in 3 years on 21 items	No 2	.52	
	18 000 Btu (5.4kW) Cassette DX split uni			
2	Check gas leaks clean filters .check/clean drip tray and drain pipes. check electrical connections and controls replace refrigeration pipes armarflex .Insulation. generally clean equipment . Regas unit with refrigerant.Service to be done twelve(12) times in 3 years on 10 items.	No	120	
4	Section No. 3 Bill No. 9 MAIN ADMIN BLOCK			R

	12 000 btu (3.6kW) DX Midwall split unit					
3	Check gas leaks clean filters .check/clean drip tray and drain pipes . check electrical connections and controls replace refrigeration pipes armarflex .Insulation. generally clean equipment . Regas unit with refrigerant.Service to be done twelve(12) times in 3 years on 7 items.	No	84	e9		
	Inline tube fan 50L/s @100Pa					
4	Check gas leaks and clean filters. check/clean drip tray and drain pipes. check electrical connections and controls replace refrigeration pipes armarflex. Insulation. generally clean equipment.Regas unit with refrigerant.Service to be done six(6) times in 3 years on 4 items.					
		No	24			
	Diffusers to be cleaned		9			
_	Different to be alread Coming to be done through					
5	Diffusers to be cleaned. Service to be done three(3) times in 3 years on 26 items.	No	78			
		No	70			
	<u>Duct</u>					
6	Duct to be cleaned/flushed. Service to be done three(3) times in 3 years on 16 items.	m2	48			
	1.5kg/hr Dehumidifier mounted on mild steel wall					
	frame					
7	Clean dust from fan housing. grease/oil fan bearing. check/repair fan impeller. check electrical connections and controls check and clean filters. Service to be done six(6) times in 3 years on 6 items.	No	36		4)	
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	Main Admin block equipment that needs to be replaced					
8	12 000 btu (3.6kW) Floor standing DX split unit of R410a	No	13			
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	Carried to Collection			R		+
	Section No. 3 Bill No. 9		-			
	MAIN ADMIN BLOCK					
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9	18 000 btu (5.4kW) Cassette DX split unit of R410a	No	5			
10	9000 btu (2.6kW) DX Midwall split unit of R410a	No	5			
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	Section No. 3 Bill No. 9					
٠	MAIN ADMIN BLOCK					
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Section No. 3						
Bill No. 9					74	
MAIN ADMIN B	LOCK					
COLLECTION					A	
Total Brought F	orward from Page No.		Page No 123 124 125		Amount	
Car Section No. : Bill No. 9 MAIN ADMIN		of Section No. 3		F		

Bill	SECTION SUMMARY - MECHANICAL WORKS	Page No	Amount	
No	e e			
1	MECHANICAL GENERAL	89	 	
2	KITCHEN	97	 	
3	BAKERY AND TEXTILE	103	 	
4	LAUNDRY	107	 	
5	PAROLE BOARD, MULTI PURPOSE HALL , TRANSPORT SECTION AND SUPPLY FOOD CHAIN	111	 	
6	CELL BLOCKS K1-K2	115	 	
7	BLOCK O & F	118	 	
8	HOSPITAL	122 .	 	.
9	MAIN ADMIN BLOCK	126	 	
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ž	Carried to Final Summary Section No. 3		R	

Item No		Qı	uantity	Rate	Amount
	SECTION NO 4				
	ELECTRICAL WORKS				
	BILL NO. 1				
	SMALL POWER AND LIGHTING INSTALLATION				
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill				
	<u>Distribution Boards</u>				
	To comply with SANS 10142-1				
	Replace only when damaged DB Board without equipment as specified				
1	Material	No	15		
2	Labour	No	15		
	Replace only when damaged, install and connect circuit breaker on DB board as indicated or instructed by Engineer.				
	200A triple pole circuit breaker, 5kA				
3	Material	No	20		
	Carried to Collection				R
	Section No. 4				
	Bill No. 1 SMALL POWER AND LIGHTING INSTALLATION				4
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4	Labour	No	20			
	150A triple pole circuit breaker, 5kA					
5	Material	No	20			
6	Labour	No	20			
	125A triple pole circuit breaker, 5kA					
7	Material	No	15			
8	Labour	No	15			
	100A triple pole circuit breaker, 5kA				•	
9	Material	No	60			
10	Labour	No	60			
	80A triple pole circuit breaker, 5kA					
11	Material	No	60			
12	Labour	No	60			
	60A double pole isolator earth leakage unit, 5kA					
13	Material	No	40			
14	Labour	No	40			
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	Carried to Collection			R		
	Section No. 4 Bill No. 1 SMALL POWER AND LIGHTING INSTALLATION					

1		ſ	1			1	
	50A single pole circuit breaker, 5kA						
15	Material	No	35				
207000							
16	Labour	No	35				
	40A single pole circuit breaker, 5kA						
17	Material						
		No	42				
18	Labour	No	42				
	30A single pole circuit breaker, 5kA						
19	Material	No	44				
20	Labour						
20	Laboui	No	44				
	25A single pole circuit breaker, 5kA						
21	Material		47				
	A Section 1	No	47				
22	Labour	No	47				
	State of the state						
	20A Single pole circuit breaker, 5kA						
23	Material	No	52				
24	Labour						
24	Labour	No	52				
	15A Single pole circuit breaker, 5kA						
25	Material	Na	55				
		No	55				
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	Carried to Collection			F	٦		
	Section No. 4						
	Bill No. 1 SMALL POWER AND LIGHTING INSTALLATION						

26	Labour	No	55			
	10A single pole circuit breaker, 5kA					
27	Material	No	75			
28	Labour	No	75	2		
	Complete Spare openings filled with dummy breakers. as specified					
29	Material	No	105			
30	Labour	No	105		1,	
	Complete supply and installation surge arrestors in each electrical distribution board, as specified					
31	Material	No	50		**	
32	Labour	No	50			
	Conduit					
	PVC conduits cast in concrete, chased into brickwall or Ceiling void					
	<u>20mmØ</u>					
33	Material	m	1 800			
34	Labour .	m	1 800	20		
	<u>25mmØ</u>					
35	Material	m	1 900			
	Carried to Collection			F	R	
•	Section No. 4 Bill No. 1 SMALL POWER AND LIGHTING INSTALLATION				×	

36	Labour	m	1 900			
	32mmØ					
37	Material	m	1 800			
38	Labour	m	1 800			
	Terminations onto conduit boxes or DB's					
	20mm PVC					
39	Material	m	20			
40	Labour	· m	20			
	25mm PVC					
41	Material	m	20		-	
42	Labour	m	20			
	Supply and installation of 60mm Dia round 1-4 way ceiling boxes including connection of conduit and extension rings					
	<u>20mmØ</u>					
43	Material	No	36			
44	Labour	No	36			ŀ
	<u>25mmØ</u>					
45	Material	No	36			
	•					•
	Carried to Collection			F	۲	
	Section No. 4 Bill No. 1 SMALL POWER AND LIGHTING INSTALLATION		*	,		

46	Labour	No	36			
	Supply and installation of galvanised pressed boxes flush in wall, including bushes, locknuts and box extensions where required:					
	Complete 100x100x50mm outlet box complete with cover lid, as specified			*		
47	Material	No	100			
48	Labour	No	100			
	Complete 100x50x50mm outlet box complete with cover lid, as specified					
49	Material	No	80			
50	Labour	No	80			
	Wiring					
	PVC insulated copper conductors drawn into conduit, wiring trunking or power skirting					
	2.5mm² PVC wire					
51	Material	m	1 800			
52	Labour	m	1 800			
	4mm² PVC wire					
53	Material	m	1 900			
54	Labour	m	1 900			
	ů.					
	Carried to Collectio	n		 F	2	
	Section No. 4 Bill No. 1 SMALL POWER AND LIGHTING INSTALLATION	14		4		
	OWN CET OTTEN, ME ETEN ME ME ETEN ME E					

	2.5mm² PVC Twin & Earth cable, including terminations				
55	Material	m	1 800		
56	Labour				
50	Labour	m	1 800		
	<u>Draw Wire</u>				
57	Material	m	1 800		
58	Labour	m	1 800		
	Switches - Socket Outlets - Isolators				
	Surface or flush mounted complete with covers and screws				
	16A single socket outlet				
59	Material	No	150		
60	Labour	No	150		
	16A double socket outlet				
61	Material	No	140		
62	Labour	No	140		
	Floor pedestal complete with normal sso,dedicated sso, tel & data.				
63	Material	No	50		
64	Labour	No	50		
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	Carried to Collection			R	
	Section No. 4 Bill No. 1				
	SMALL POWER AND LIGHTING INSTALLATION		•		

1	Complete 16A 1-lever/1-way light switch	1				
65	Material					
		No	110			
66	Labour	No	110			
	Complete 16A 2-lever/1-way light switch					
67	Material					
		No	110			
68	Labour	No	110			
	Complete 16A 1-lever/2-way light switch					
69	Material		450			
		No	150		¥0	
70	Labour	No	150			
	20A Photocell					
71	Material	Na	80			
		No	80			
72	Labour	No	80			
	Recessed 20A DP isolator					
73	Material	No	40			
		140	40			
74	Labour	No	40			
	Recessed 60A DP isolator					
75	Material	No	130			
		,,,				
	Carried to Collection			F	3	
	Section No. 4					_
	Bill No. 1 SMALL POWER AND LIGHTING INSTALLATION			•		

76	Labour	No	130			
3	Recessed 80A DP isolator					
77	Material	No	145			
78	Labour	No	145			
	Surface 60A TP isolator watertight					
79	Material	No	152			
80	Labour	No	152			
	Centurion Heavy duty motor gates replace			5.7		
81	Material	No	10			
82	Labour	No	10			
	Electronic boom gate repair					
83	Material	No	5			
84	Labour	No	5			
	Repair Electronic roller shutter doors					
85	Material .	No	15			
86	Labour	No	15			
	Power Skirting					
						1
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compartment power skirting aterial			l	1	
aterial		1			
	m	200	*		
abour	m	200			
6A single socket outlet on power skirting					
aterial	No	150			
abour	No	150			
omplete Telephone infrastructure on power skirting					
laterial	No	150			
abour	No	150			
Complete Data infrastructure on power skirting					
/laterial	No	150			
abour	No	150			
Dedicated Red 16A single socket outlet on power skirting					
Material .	No	150			
Labour	No	150			
			*		+
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Ala Service Se	emplete Data infrastructure on power skirting aterial abour edicated Red 16A single socket outlet on power stirting aterial abour Carried to Collection	omplete Data infrastructure on power skirting aterial No abour No edicated Red 16A single socket outlet on power cirting aterial No abour No Carried to Collection	emplete Data infrastructure on power skirting aterial No 150 abour No 150 edicated Red 16A single socket outlet on power cirting aterial No 150 abour No 150 Carried to Collection	omplete Data infrastructure on power skirting aterial No 150 abour No 150 edicated Red 16A single socket outlet on power cirting aterial No 150 abour No 150 Carried to Collection	omplete Data infrastructure on power skirting aterial No 150 abour No 150 adicated Red 16A single socket outlet on power sirting aterial No 150 abour No 150 Carried to Collection

	Replace Damaged Luminaires or Replace light tubes and globes where required per Block				
	Supply and install all different LED luminaires globes and tubes and convert to LED				
97	Material	No.	1 500		
98	Labour	No	1 500		
	Wash luminaries with detergent and clean lenses. Check and replaces neoprene seals if necessary				
99	Material	No	6 500		
100	Labour	No	6 500		
	Type F2				
e	1500mm 2X58W open channel LED luminaire.				
101	Material	No	150		
102	Labour	No	150		
	Replace damaged tubes with LED and convert.				
103	Material	No	655		
104	Labour	No	655		
	Type F3		ĺ		
	*				_
	Carried to Collection			R	
	Section No. 4 Bill No. 1 SMALL POWER AND LIGHTING INSTALLATION				

	Complete recessed 1200mmx600mm 3X36W decorative LED lamp with low brightness diffuser					
105	Material	No	120			
106	Labour	No	120			
	Replace damaged tubes with LED and convert.					
107	Material	No	350			
108	Labour	No	350			
	Type F4					
	1500mm 2X36W Waterproof LED luminaire with energy saving Lamps.					
109	Material	No	125			
110	Labour	No	125			
	Replace damaged tubes with LED and convert.					
111	Material	No	346			
112	Labour	No	346			
	Type F5					
	Resistant LED wall mounted light					
113	Material	No	115			
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	Carried to Collection			R		ļ.
4)	Section No. 4 Bill No. 1 SMALL POWER AND LIGHTING INSTALLATION					

114	Labour	No	115			
	Replace damaged tubes with LED and convert.					
115	Material	No	345		5	
116	Labour	No	345			
	Type F6					
	Fluorescent LED Tube Light Fitting with Reflector 1500mm					
117	Material	No	155			
118	Labour	No	155			
	Replace damaged tubes with LED and convert.					
119	Material	No	335			
120	Labour	No	335			
	Type B1					
	Parking lights Aerodynamic resistance					
121	Material .	No	142			
122	Labour	No	142			
	Carried to Collection			F		
	Section No. 4 Bill No. 1 SMALL POWER AND LIGHTING INSTALLATION		*		`	

1	Replace damaged tubes with LED and convert.					
123	Material	No	655			
124	Labour	No	655			
	Type B2					
	Complete Square surface mount interior bulkhead with 17 W LED lamps with electronic control gear and Highpressure die-cast aluminium base, similar or equal and approved.					
125	Material	No	80			
126	Labour	No	80			
	Replace damaged tubes with LED and convert.					
127	Material	No	178			
128	Labour	No	178			
	Type D1					
	120mm diameter LED Panel recessed Downlight 18W similar or equal and approved.					
129	Material .	No	90			
130	Labour	No	90			
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	Section No. 4 Bill No. 1 SMALL POWER AND LIGHTING INSTALLATION					

	Replace damaged tubes with LED and convert.					
131	Material	No	205			
132	Labour	No	205			
	Type B1					
	Complete Wall mounted Interior bulkhead complete with 2x18W LED lamp, control gear, black trip similar or equal and approved.					
133	Material	No	40	a		
134	Labour	No	40	149		
	Replace damaged tubes with LED and convert.	*				
135	Material	No	60		Ξ	
136	Labour	No	60			
	Type E					
	Complete wall mounted LED exit luminaire complete					
137	Material	No	155			
138	Labour	No	155			
	Complete new prison cell block lights 2x58W with protected cover					
139	Material	No	345			
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	Section No. 4 Bill No. 1			F		
	SMALL POWER AND LIGHTING INSTALLATION					

		1	0.45	1	1	
140	Labour	No	345			
	<u>Supply and Install Earthing and Bonding for the installation</u>					
	Earthing of all buildings to comply with the latest SANS 10142 1&2 Wiring of Premises as amended and as specified. Bonding of all hot, cold and waste pipes complete with 12,5mm x 1mm thick solid or perforated copper tape including terminations					
	Earth and Bond Distribution Board					
141	Material			SUM		
142	Labour			SUM		
	Earth and Bond Water Pipes per building					
143	Material			SUM		
144	Labour			SUM		
	Earth and Bond Gutters and Roof per building					
145	Material			SUM		
146	Labour			SUM		
	Testing of the Earth installation by a Specialist Contractor					
147	Material			SUM		
148	Labour			SUM		
	Lightning Protection Installation					
				4		
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	Section No. 4 Bill No. 1 SMALL POWER AND LIGHTING INSTALLATION				,	

149	Supply, install and test a complete lightning protection installation, including aluminium and copper conductors, test joints, PVC conduit, earth electrodes for the following builiding but not limited to: -Only area where required to be replaced Prison, as specified		SUM		
	Testing and Commissioning				
150	Inspections, testing and handing over of the complete installation in the presence of the complete installation in the presence of the Engineer and certify the results on the Certificate of compliance by an accredited person.:		SUM		
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	Section No. 4 Bill No. 1				
	SMALL POWER AND LIGHTING INSTALLATION			,	
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Item No			Quantity	Rate	Amount
	SECTION NO 4			-	
	ELECTRICAL WORKS				
	BILL NO. 2				
	STANDBY GENERATOR SERVICE AND MAINTENANCE PERIOD OF 3YEARS				
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill Tenderers are advised to study the Department of				
	Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill				
	Do witnessed dummy load test after every service and preventative maintenance				
1	Complete servicing of 3x500Kva standby generators for duration of 3 years on a once per year basis.			SUM	
	Complete Preventative maintenance on quartly basis on all 3 generators				
2	Material	No	12	2	
3	Labour	No	12	2	
	Attend to all call out breakdowns with maximum of 20 calls out during 3years period				
4	Material	No	20		
5	Labour	No	20		
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	Section No. 4 Bill No. 2 STANDBY GENERATOR				
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6	Inspect all rubber hoses and wiring; replace if required			SUM	
	Replace existing batteries on 3xgenerators				5
7	Material	No	6		
8	Labour	No	6		
9	Clean 3xplant rooms, clean and re-lamp luminaires			SUM	
	Repair lagging on exhaust system and reseal if necessary				
10	Material	No	3		
11	Labour	No	3		
	Do cold starting volt drop test on prime mover starter battery; replace starter battery if required.				
12	Material	No	12		
13	Labour	No	12		
14	Clean sliprings and inspect brushgear. Open alternator terminal box, clean and tighten terminations. Check and record earthing value as measured with resistance measuring instrument.			SUM	
	Carried to Collection			R	
	Section No. 4 Bill No. 2 STANDBY GENERATOR	•			

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Bill No. 2		
STANDBY GENERATOR		
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Item No		Qua	ntity Rate	Amount
110	SECTION NO 4			
	ELECTRICAL WORKS			
	BILL NO. 3			
	TRANSFORMERS, MINI-SUB, FIELDKIOSK AND SWITCHGEAR SERVICING AND MAINTENANCE FOR PERIOD OF 3YEARS			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill			
	Complete servicing of 6x11Kv transformers for duration of 3years on a once per year basis			
1	Material	No	6	
2	Labour	No	6	
	Complete servicing of 3xswitchgears for duration of 3years on a once per year basis			
. 3	Material ·	No	3	
4	Labour	No	3	
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	Bill No. 3 TRANSFORMERS, SWITCHGEARS AND MINI-SUBS			

	Complete servicing of 12xMini-substations for duration of 3years on a once per year basis					
5	Material	No	12			
6	Labour	No	12			
7	Complete Preventative maintenance to be carried out every 6months on all transformers, switchgears, minisubs			SUM		
8	Attend to all call out breakdowns with maximum of 20 call outs during 3years period			SUM		
9	Clean 6xplant rooms, clean and re-lamp luminaires			SUM		
	Cleaning and re-pianting of all fieldkiosk,checking of lose connections on breakers					
10	Material	No	15			
11	Labour	No	15			
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	al .					
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	Section No. 4 Bill No. 3 TRANSFORMERS, SWITCHGEARS AND MINI-SUBS				,	

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TRANSFORMERS, SWITCHGEARS AND MINI-SUBS

Item No		C	Quantity	Rate	Amount	
	SECTION NO 4			=		
	ELECTRICAL WORKS					
	BILL NO. 4					
-	SECURITY FENCE LIGHTS AND 3METER POLE AREA AND PARKING LIGHTS					
	ELECTRICAL WORKS					
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill					
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill					
	SECURITY FENCE LIGHTS					
	Remove existing damaged luminaires, supply and install similar and approved luminaires complete with lamps and control gear, if applicable.					
1	Material	No	150			
2	Labour	No	150			
	Service mast distribution boards and maintain kiosks					
3	Material	No	12			
				3		
	Carried to Collection			R		
	Section No. 4 Bill No. 4 SECURITY FENCE					

4	Labour	No	12		
	Wash luminaires with detergent and clean lenses. Check and replace neoprene seals if necessary				
5	Material	No	250		
6	Labour	No	250		
	Service each luminaire open control gear enclosures and treat for moisture ingress and corrosion and replace lamps if not working.				
7	Material			SUM	
8	Labour			SUM	
	Check pole covers; measure earthing continuity and tighten foundation bolts				
9	Material	No	250		
10	Labour	No	250		
	AREA/PARKING LIGHTNING				
	Remove existing damaged luminaires, supply and install similar and approved luminaires complete with lamps and control gear, if applicable.				
11	Material				
		No	150		
12	Labour	No	150		
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	Section No. 4 Bill No. 4				
•	SECURITY FENCE	*			×
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	Wash luminaires with detergent and clean lenses. Check and replace neoprene seals if necessary					
13	Material	No	350			
14	Labour	No	350			
	Service each luminaire open control gear enclosures and treat for moisture ingress and corrosion and replace lamps if not working.					
15	Material	No	350			
16	Labour	No	350			
	Check pole covers; measure earthing continuity,					
17	Material	No	350			
18	Labour	No	350			
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	ELECTRICAL WORKS				
	BILL NO. 5				
	MOTORGATES SERVICING AND MAINTENANCE				
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill		e B		
	Servicing and maintenance of existing motorgates every 6months				
1	Material	No	20		
2	Labour	No	20		
	Replace motorgates with new D5 Heavy duty gate				
3	Material	No		5	
4	Labour	No		5	
				A N	
	Carried to Collection Section No. 4				R
	Bill No. 5 MOTOR GATE			•	
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	Replace motorgates with new D10 Heavy duty gate					
5	Material	No	5			
6	Labour	No	5			
	Replace motorgates with new A10 Heavy duty gate					
7	Material	No	7			
8	Labour	No	7			
	Clean all gate rails and fixed where damaged					
9	Material	No	20			
10	Labour	No	20			
11	Check all electrical wiring and isolators			SUM		
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		ra.		-		
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	MOTOR GATE *					

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MOTOR GATE		
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4	SECURITY FENCE	155		
5	MOTOR GATE	158		
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