Item No			Quantity	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				
n					
	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	252		
	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.				
	youre on to tome.	No	120		
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	Carried to Collection Section No. 3			R	
	Bill No. 9 MAIN ADMIN BLOCK				

					74	
	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			
	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 alcohol					
	<u>Diffusers to be cleaned</u>					
5	Diffusers to be cleaned. Service to be done three(3) times in 3 years on 26 items.	No	78			
	Duct					
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					
	<u>frame</u>					
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			
	#	,,,				
	Main Admin block equipment that needs to be replaced					
8	12 000 btu (3.6kW) Floor standing DX split unit of R410a	No	13		ă.	
		•				
	Carried to Collection			R		
	Section No. 3					Г
	Bill No. 9 MAIN ADMIN BLOCK			*		

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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	1.5				
	Carried to Collecti Section No. 3	ion		R	
	Bill No. 9 MAIN ADMIN BLOCK		122		•

1	Section No. 3				
	Bill No. 9				
	MAIN ADMIN BLOCK				
	COLLECTION				
	Total Brought Forward from Page No.	Page No 123 124 125		Amount	
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	Carried Forward to Summary of Section No. 3		R		
	Section No. 3 Bill No. 9				
	MAIN ADMIN BLOCK				•
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D:II	SECTION SUMMARY - MECHANICAL WORKS	Page		Amount
Bill No		No		Amount
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		
		3		
	,		ě	
	. ,			27
	Carried to Final Summary Section No. 3		R	
	Section No. 3		17	

Item No		Quantity	Rate	Amount
	SECTION NO 4		13	
	ELECTRICAL WORKS			
	BILL NO. 1		16	
	SMALL POWER AND LIGHTING INSTALLATION			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill	.8.5		
	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 N	o 15	5	
2	Labour	o 15	5	
	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 N	0 20		
	4			э з
		-0		<u> </u>
	Carried to Collection		R	
	Section No. 4			
٠	Bill No. 1 SMALL POWER AND LIGHTING INSTALLATION			

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		72	
14	Labour	No	40			
						_
	Carried to Collection	1		R		
	Section No. 4 Bill No. 1 SMALL POWER AND LIGHTING INSTALLATION					

	50A single pole circuit breaker, 5kA	1				
15	Material	No	35			
16	Labour	No	35			
	40A single pole circuit breaker, 5kA					
17	Material	No	42			
18	Labour	No	42			
	30A single pole circuit breaker, 5kA				v	
19	Material	No	44			
20	Labour	No	44			
	25A single pole circuit breaker, 5kA					
21	Material	No	47			
22	Labour	No	47			
	20A Single pole circuit breaker, 5kA					
23	Material	No	52			
24	Labour	No	52			
	15A Single pole circuit breaker, 5kA					
25	Material	No	55			
					_	
	Carried to Collection			R		_
	Section No. 4 Bill No. 1 SMALL POWER AND LIGHTING INSTALLATION					
			1 1		н	

26	Labour	No	55			
	10A single pole circuit breaker, 5kA					
27	Material	No	75			
28	Labour	No	75			
	Complete Spare openings filled with dummy breakers, as specified					
29	Material	No	105			
30	Labour	No	105		-	
	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					
	20mmØ					
33	Material	m	1 800		*	
34	Labour .	m	1 800		-	
	<u>25mmØ</u>					
35	Material	m	1 900			
	•					
	Carried to Collection Section No. 4			R		F
	Bill No. 1 SMALL POWER AND LIGHTING INSTALLATION			•		

36	Labour	m	1 900			
	<u>32mmØ</u>					
37	Material	m	1 800			
38	Labour	m	1 800			
	Terminations onto conduit boxes or DB's					
	20mm PVC				39 	
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			
	<u>25mmØ</u>					
45	Material	No	36			
		8				
		*				
	Carried to Collection Section No. 4			R		_
	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:	R				
	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			H (#		
49	Material	No	80		a a	
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			
	.,					
	¥		e			
	Carried to Collection Section No. 4 Bill No. 1 SMALL POWER AND LIGHTING INSTALLATION	n		R		

	2.5mm² PVC Twin & Earth cable, including terminations				
55	Material	m	1 800		
56	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		
	je				
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	Carried to Collection			F	
	Section No. 4 Bill No. 1 SMALL POWER AND LIGHTING INSTALLATION				,

	Complete 16A 1-lever/1-way light switch	1	1			
65	Material	No	110	la		
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	No	150		÷	
70	Labour	No	150			
	20A Photocell					
71	Material	No	80	ø		
72	Labour	No	80			-
	Recessed 20A DP isolator					
73	Material	No	40			
74	Labour	No	40			
	Recessed 60A DP isolator					
75	Material	No	130			
	,					$\downarrow$
	Carried to Collection Section No. 4 Bill No. 1		-	R	-	+
	SMALL POWER AND LIGHTING INSTALLATION					

76	Labour	No	130		=	
	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					
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					
	Carried to Collection Section No. 4 Bill No. 1			F		_
	SMALL POWER AND LIGHTING INSTALLATION					

	Supply, Delivery and Installation of a completed 2 compartment steel power skirting only where required and damaged				
	2 compartment power skirting				
87	Material	m	200		
88	Labour	m	200		
	16A single socket outlet on power skirting				
89	Material	No	150		
90	Labour	No	150		
	Complete Telephone infrastructure on power skirting				
91	Material	No	150		
92	Labour	No	150		
	Complete Data infrastructure on power skirting				
93	Material	No	150		
94	Labour	No	150		
	<u>Dedicated Red 16A single socket outlet on power skirting</u>				
95	Material .	No	150		
96	Labour	No	150		
	*				_
	Section No. 4 Bill No. 1			R	
	SMALL POWER AND LIGHTING INSTALLATION		•		

	Replace Damaged Luminaires or Replace light tubes and globes where required per Block	<u>nt</u>				
	Supply and install all different LED luminaires globes and tubes and convert to LED	3				
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				×	
	1500mm 2X58W open channel LED luminaire.					
101	Material	No	150			
102	Labour	No	150			The second second
	Replace damaged tubes with LED and convert.					
103	Material	No	655			
104	Labour	No	655			
	Type F3					
		* 4				
	Carried to Colle Section No. 4 Bill No. 1 SMALL POWER AND LIGHTING INSTALLATION	ction		R		_

	Complete recessed 1200mmx600mm 3X36W decorative LED lamp with low brightness diffuser					
105	Material					
		No	120			
106	Labour	No	120			
		140	120		5	
	Replace damaged tubes with LED and convert.					
407						
107	Material	No	350			
108	Labour		250			
		No	350	,		
	Type F4					
	1500mm 2X36W Waterproof LED luminaire with energy saving Lamps.					
109	Material	No	125			
110	Labour	92324				
110	Laboui	No	125			
	Replace damaged tubes with LED and convert.					
			1			
111	Material	No	346			
		140	340			
112	Labour	No	346			
	<u>Type F5</u>					
	Resistant LED wall mounted light					
113	Material					
	*	No	115			
			4			
	¥1		18			
	Carried to Collection			R		
	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			
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	ž		
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	Carried to Collection			R		
	Section No. 4					
	Bill No. 1 SMALL POWER AND LIGHTING INSTALLATION					

	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 High-pressure 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		e e	
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			
	Carried to Collection			R		
	Section No. 4 Bill No. 1 SMALL POWER AND LIGHTING INSTALLATION		10			
	SWALL FOWER 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			
134	Labour	No	40		e	
	Replace damaged tubes with LED and convert.					
135	Material	No	60			
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			
	2					L
	Carried to Collection Section No. 4 Bill No. 1 SMALL POWER AND LIGHTING INSTALLATION			R		

140	Labour	No	345			
	Supply and Install Earthing and Bonding for the installation			i.		
54	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	a	
	Testing of the Earth installation by a Specialist Contractor					
147	Material .			SUM		
148	Labour			SUM		
	<u>Lightning Protection Installation</u>					
					47	
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	Carried to Collection			R		
	Section No. 4 Bill No. 1 SMALL POWER AND LIGHTING INSTALLATION					

	Supply, install and test a complete lightning protection installation, including aluminium and copper conductors, test joints, PVC conduit, earth				
	electrodes for the following builidng but not limited to: -Only area where required to be replaced				
149	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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	Carried to Collection		R		
	Section No. 4				_
	Bill No. 1 SMALL POWER AND LIGHTING INSTALLATION	4			

Section No. 4			
Bill No. 1			MI
SMALL POWER AND LIGHTING INSTALLATION			
COLLECTION			
	Page No		Amount
Total Brought Forward from Page No.	128		
	129		
	130		
	131		
	132		
	133		
	134		
,	135		
	136		
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	142		
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Carried Forward to Summary of Section No. 4		R	
Section No. 4 Bill No. 1 SMALL POWER AND LIGHTING INSTALLATION			
SWIALL POWER AND LIGHTING INSTALLATION			

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		
3	Labour	No	12		
	Attend to all call out breakdowns with maximum of 20 calls out during 3years period				
4	Material	No	20		
5	Labour	No	20		
•		*			
	Section No. 4 Bill No. 2 STANDBY GENERATOR			R	

6	Inspect all rubber hoses and wiring; replace if required			SUM		
	Replace existing batteries on 3xgenerators	2				
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		
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	Section No. 4 Bill No. 2 STANDBY GENERATOR		is 		,	

Section No. 4		
Bill No. 2		
STANDBY GENERATOR		
COLLECTION		
Total Brought Forward from Page No.	Page No 146 147	Amount
Carried Forward to Summary of Section No. 4 Section No. 4 Bill No. 2 STANDBY GENERATOR		R

Item No			Quantity	Rate	Amount	
	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				r	
				03		
	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			
	*		<u> </u>			_
	Carried to Collection			R		
	Section No. 4 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	a.		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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	Carried to Collection Section No. 4 Bill No. 3 TRANSFORMERS, SWITCHGEARS AND MINI-SUBS	9.		R		-

Section No. 4			
Bill No. 3			
TRANSFORMERS, SWITCHGEARS AND MINI-SUBS			
COLLECTION			
Total Brought Forward from Page No.	Page No 149 150		Amount
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Carried Forward to Summary of Section No. 4 Section No. 4 Bill No. 3 TRANSFORMERS, SWITCHGEARS AND MINI-SUBS		R	

Item No		Quantity	Rate	Amount
	SECTION NO 4			S.
	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			ŕ
	Remove existing damaged luminaires, supply and install similar and approved luminaires complete with lamps and control gear, if applicable.			
1	Material No	150	v	
2	Labour No	150		
8	Service mast distribution boards and maintain kiosks			8
3	Material No	12		
8				
	Carried to Collection Section No. 4		R	
	Bill No. 4 SECURITY FENCE			
		1	I	II I

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.	9		3	
7	Material		e u	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		
	y <b>3</b>				
	Carried to Collectio	n		R	
	Section No. 4 Bill No. 4 SECURITY FENCE		•		

1	Wash luminaires with detergent and clean lenses. Check and replace neoprene seals if necessary				2
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		
		.±8			
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-	Section No. 4 Bill No. 4 SECURITY FENCE			R	_

Section No. 4	1 1	
Bill No. 4		
SECURITY FENCE		
COLLECTION		
Total Brought Forward from Page No.	Page No 152 153	Amount
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Carried Forward to Summary of Section No. 4	F	2
Section No. 4 Bill No. 4 SECURITY FENCE	75	

Item No		Quantity	Rate	Amount	
	SECTION NO 4				
	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				
	Servicing and maintenance of existing motorgates every 6months		*		
1	Material No	20			-
2	Labour	20		6	
	Replace motorgates with new D5 Heavy duty gate				
3	Material				
4	No Labour	5	9		
	No	5			
	*				
	Carried to Collection		R		
	Section No. 4 Bill No. 5 MOTOR GATE				•

	Replace motorgates with new D10 Heavy duty gate					
5	Material	No	5	ē		
6	Labour	No				
	Replace motorgates with new A10 Heavy duty gate	NO	5			
7	Material					
8	Labour	No	7			
	Clean all gate rails and fixed where damaged	No	7			
	olean an gate rails and lixed where damaged					
9	Material	No	20			
10	Labour	No	20			
11	Check all electrical wiring and isolators			0.114		
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	Section No. 4 Bill No. 5			12		+
	MOTOR GATE					
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Bill No. 5			
MOTOR GATE			
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Total Brought Forward from Page No.	Page No 156 157		Amount
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Carried Forward to Summary of Section No. 4			
Section No. 4 Bill No. 5		R	
MOTOR GATE			

Bill	SECTION SUMMARY - ELECTRICAL WORKS		1		I
No		Page No		Amount	
1	SMALL POWER AND LIGHTING INSTALLATION	145			
2	STANDBY GENERATOR	148			
3	TRANSFORMERS, SWITCHGEARS AND MINI-SUBS	151			
4	SECURITY FENCE	155			
5	MOTOR GATE	158			
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	FINAL SUMMARY	1	1	I I
Section No		Page No		Amount
1	PRELIMINARIES	64		
2	BUILDING WORKS	88		
3	MECHANICAL WORKS	127		
4	ELECTRICAL WORKS	159		
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