

TABLE 1: Provision for Capacity Building & Training
The total cost for the activities in Table 2 below should NOT exceed 1% of the total Budget for each Financial Year.

R 1 000 000 * 1% (Provisioned) = R 10 000 (B = Total Amount Provisioned for Table 1)

ITEM	DESCRIPTION	Unit	Quantity (A)	Total Amount for Table 1 (B)	% Rate offered (C)	Total (A*B*C)
1.1	Provisional Amount for Capacity Building & Training	Sum	1	R 10 000	100%	R 10 000
TABLE 1 SUB TOTALS carried forward to table 10 BoQ Summary					100%	R 10 000

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TABLE 2: Provision for Energy Efficiency Awareness
The total cost for the activities in Table 3 below should NOT exceed 1% of the total Budget for each Financial Year.

ITEM	DESCRIPTION	Unit	Quantity (A)	Total Amount for Table 1 (B)	% Rate offered (C)	Total (A*B*C)
2.1	Provisional Amount for Energy Efficiency Awareness					
	Develop a municipal energy efficiency awareness plan. Design and print energy efficiency messages in local/regional newspapers, municipal newsletter, electricity bills, etc. Conduct workshops/seminars on energy efficiency and demand side management. Conduct live energy efficiency discussions in local/regional newspapers. Plan must be approved by Thembisile Hani Local Municipality	Sum	1	R 10 000	100%	R 10 000
TABLE 2 SUB TOTALS carried forward to table 10 BoQ Summary					100%	R 10 000

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APPOINTMENT OF A PANEL OF ELECTRICAL CONTRACTORS FOR IMPLEMENTATION OF ENERGY EFFICIENCY AND DEMAND SIDE MANAGEMENT (EEDSM) PROGRAM WITHIN THE THEMBISILE HANI LOCAL MUNICIPAL JURISDICTION AS WHEN REQUIRED FOR A PERIOD OF 24 MONTHS.

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ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR / INSTALLATION RATE	TOTAL AMOUNT
SECTION A:						
PRELIMINARY, GENERAL AND PROVISIONS						
A.1	<u>PRELIMINARY AND GENERAL</u>					
A.1.1	<u>SITE ESTABLISHMENT</u>					
A.1.1.1	Site Camp Establishment, Site Office, Office Furniture and Equipment, Store, Ablution, Rental, Transport, Clearing of Site, Site Supervision.	Each	1	R	R	R
A.1.2	<u>PRELIMINARIES</u>			R	R	R
A.1.2.1	Induction and Medical – General workers per Financial Year (FY)	Each	1	R	R	R
A.1.2.3	Induction and Medical – Sub- Contractors per FY	Each	1	R	R	R
A.1.2.4	Management of Local Sub-Contractors per FY	Each	1	R	R	R
A.1.2.5	Preparation and submission of implementation program to the Engineer as required in the documents per FY.	Each	1	R	R	R
A.1.2.6	Three sets of hard copies and an electronic copy of “As-built” co- ordinates and hand-over certificate per FY.	Each	1	R	R	R
A.1.2.7	Instructions to maintenance staff of operating and maintenance procedures, including three sets of Instruction manuals per FY.	Each	1	R	R	R
A.1.2.8	Triplicate log book to record all events on site per FY.	Each	1	R	R	R
A.1.2.9	Temporary Traffic Control Facilities per FY.	Each	1			

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Witness 1

Witness 2

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A.1.3	COMPLIANCE					
A.1.3.1	Compliance with Safety Requirements as set out in the OHS Act. This will include a safety plan, the holding of safety meetings, appointing of safety representatives, the co-ordination of all Safety requirements for all sub- contractors per FY.	Each	1			
TOTAL FOR SECTION A1						

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A.2						
<u>PRIME COST (PC) SUMS:</u>						
For Work to be executed through Local Employment, nominated sub-contractor and Special Services						
A.2.1	PC Allowance rates for any Other Items / Materials not included in the BoQ (i.e Minor Electrical Repairs)	Sum	1	N/A	R1 500 000,00	R 1 500 000,00
TOTAL FOR SECTION A2						R1 500 000,00
A.3						
<u>MARK-UP AND ATTENDANCE COST TO THE PC SUMS:</u>						
A.3.1.	1. Mark-up and attendance costs to the PC allowance shall be allowed by the council. The claim of such shall be on a quotation bases with the submission of the original invoice and approved by the Employer and the Employer's Agent. Service Providers to be paid only on Instructions from the Engineer.	Sum%	N/A	R 1 500 000,00	R
TOTAL FOR SECTION A3						

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ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL AMOUNT
SECTION A:						
ENERGY EFFICIENCY IN MUNICIPAL BUILDINGS						
1	Retrofitting of 600mm (2ft) Tubes - LED	No	1	R	R	R
2	Retrofitting of 1200mm (4ft) Tubes - LED	No	1	R	R	R
3	Retrofitting of 1500mm (5ft) Tubes - LED	No	1	R	R	R
4	Retrofitting of 2400mm (8ft Tubes) with 1500mm LED Tubes	No	1	R	R	R
5	Retrofitting of 40W incandescent/CFL globes with LED globes	No	1	R	R	R
6	Retrofitting of 60W incandescent/CFL globes with LED globes	No	1	R	R	R
7	Retrofitting of 100W incandescent/CFL globes with LED globes	No	1	R	R	R
8	Retrofitting of 1000W floodlights with LED equivalent	No	1	R	R	R
9	Retrofitting of 600W floodlights with LED equivalent	No	1	R	R	R
10	Retrofitting of 400W floodlights with LED equivalent	No	1	R	R	R
11	Retrofitting of 300W floodlights with LED equivalent	No	1	R	R	R
12	Retrofitting of 250W floodlights with LED equivalent	No	1	R	R	R
13	Retrofitting of 200W floodlights with LED equivalent	No	1	R	R	R
14	Retrofitting of 150W floodlights with LED equivalent	No	1	R	R	R
15	Retrofitting of 100W floodlights with LED equivalent	No	1	R	R	R

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16	Retrofitting of 50W floodlights with LED equivalent	No	1	R	R	R
17	Retrofitting of 250W post tops with LED equivalent	No	1	R	R	R
18	Retrofitting of 200W post tops with LED equivalent	No	1	R	R	R
19	Retrofitting of 175W post tops with LED equivalent	No	1	R	R	R
20	Retrofitting of 150W post tops with LED equivalent	No	1	R	R	R
21	Retrofitting of 125W post tops with LED equivalent	No	1	R	R	R
22	Retrofitting of 100W post tops with LED equivalent	No	1	R	R	R
23	Retrofitting of 85W post tops with LED equivalent	No	1	R	R	R
24	Retrofitting of 70W post tops with LED equivalent	No	1	R	R	R
25	Retrofitting of 30-65W post tops with LED equivalent	No	1	R	R	R
26	Installation of Building Management system	No	1	R	R	R
27	Installation of motion sensors	No	1	R	R	R
28	Installation of Energy Management Meters	No	1	R	R	R
		No	1	R	R	R
TOTAL FOR SECTION A						

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	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL AMOUNT
SECTION B						
ENERGY EFFICIENCY IN MUNICIPAL STREET AND HIGHMAST LIGHTING						
1	Retrofitting of 1000W street light with LED Equivalent	No	1	R	R	R
2	Retrofitting of 600W street light with LED Equivalent	No	1	R	R	R
3	Retrofitting of 400W street light with LED Equivalent	No	1	R	R	R
4	Retrofitting of 300W street light with LED Equivalent	No	1	R	R	R
5	Retrofitting of 250W street light with LED Equivalent	No	1	R	R	R
6	Retrofitting of 200W street light with LED Equivalent	No	1	R	R	R
7	Retrofitting of 175W street light with LED Equivalent	No	1	R	R	R
8	Retrofitting of 150W street light with LED Equivalent	No	1	R	R	R
9	Retrofitting of 125W street light with LED Equivalent	No	1	R	R	R
10	Retrofitting of 100W street light with LED Equivalent	No	1	R	R	R

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Witness 2

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11	Retrofitting of 80W street light with LED Equivalent	No	1	R	R	R
12	Retrofitting of 70W street light with LED Equivalent	No	1	R	R	R
13	Retrofitting of 2000W High Mast lights with LED equivalent	No	1	R	R	R
14	Retrofitting of 1000W High Mast lights with LED equivalent	No	1	R	R	R
15	Retrofitting of 800W High Mast lights with LED equivalent	No	1	R	R	R
16	Retrofitting of 600W High Mast lights with LED equivalent	No	1	R	R	R
17	Retrofitting of 400W High Mast lights with LED equivalent	No	1	R	R	R
18	Retrofitting of 200W High Mast lights with LED equivalent	No	1	R	R	R
TOTAL FOR SECTION B						

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ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL AMOUNT
SECTION C						
ENERGY EFFICIENCY IN MUNICIPAL WASTE WATER TREATMENT SERVICES						
1	Replacement of Inefficient Electrical Motors	No	1	R	R	R
2	Installation of Variable Speed/Frequency Drivers	No	1	R	R	R
3	Installation of Soft starters	No	1	R	R	R
4	Other EE Measures for WWTW	No	1	R	R	R
TOTAL FOR SECTION C						

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SECTION D						
COMMUNITY LIASON OFFICER (CLO) FEES, MATERIAL DELIVERY, POST INSTALLATION TESTING AND COMMISIONING						
1	CLO FEES	Monthly	36	N/A	R 9000.00	R 324 000.00
2	Delivery of building lights	No	1	R	R	R
3	Testing and commissioning of installed building lights	No	1	R	R	R
4	Delivery of Building Management system	No	1	R	R	R
5	Testing and commissioning of installed building management system	No	1	R	R	R
6	Testing and commissioning of installed Energy Management Meters	No	1	R	R	R
7	Delivery of Energy Management Meters	No	1	R	R	R
8	Delivery of street lights	No	1	R	R	R
9	Testing and commissioning of installed street lights	No	1	R	R	R

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Witness 2

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Witness 2

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10	Delivery of highmast lights	No	1	R	R	R
11	Testing and commissioning of installed High Mast lights	No	1	R	R	R
12	Delivery of Energy Efficient Electric Motors	No	1	R	R	R
13	Testing and commissioning of installed Energy Efficient Electric Motors	No	1	R	R	R
14	Delivery of Variable Speed Drives	No	1	R	R	R
15	Testing and commissioning of installed Variable Speed Drives	No	1	R	R	R
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				MATERIAL RATE	LABOUR RATE	TOTAL AMOUNT
SECTION E: CABLING & CRUSHING						
F.1	Supply, Installation, Testing & Commissioning 35mm ² , Single Phase Bundle /ABC conductor for supply from metering point to Streetlights.	m	1	R	R	R
F.2	Supply, Installation, Testing & Commissioning 10mm ² , Airdec cable for supply from metering point to Streetlights.	m	1	R	R	R
F.3	Supply, Installation, Testing & Commissioning 16mm ² , 1000/600V, 4 Core, SWA cable for supply from metering point to Streetlight.	m	1	R	R	R
F.4	Supply, Installation, Testing & Commissioning 4mm ² Bare Copper Earth Wire to be laid with cable, etc.	m	1	R	R	R
F.5	Supply & Install Marking Tape (300mm wide - Yellow) with danger indication and Electrical Cable notice, installed above cable, 300mm below surface in trenches.	m	1	R	R	R
F.6	Supply & Install Indoor Termination kit complete, for 16mm ² , 1000/600V, 4 Core, SWA cable, consisting of lugs, connections complete.	No.	1	R	R	R
F.7	Supply & Install Splicing Kit (Joint) complete for 16mm ² cable, with ferrules, tape, etc.	No.	1	R	R	R
F.8	Supply and installation of street light main circuit breaker and internal wiring per street light	No.	1	R	R	R
F.9	Crushing per Light	No.	1	R	R	R

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Witness 1

Witness 2

Employer

Witness 1

Witness 2

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F.10	Crushing Certificate per FY	No.	1	R R	R R	R R
TOTAL FOR SECTION E						

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TABLE 10: Bill of Quantity Summary		
ITEM No.	DESCRIPTION	TOTAL AMOUNTS
1	From TABLE 1: Provision for Capacity Building & Training	R 10 000,00
2	From TABLE 2: Provision for Energy Efficiency Awareness	R 10 000,00
3	SECTION A: PRELIMINARY, GENERAL AND PROVISIONS	R
4	SECTION A.2: PRIME COST (PC) SUMS	R
5	SECTION A.3: MARK-UP AND ATTENDANCE COST TO THE PC SUMS	R
6	SECTION A: ENERGY EFFICIENCY IN MUNICIPAL BUILDINGS	R
7	SECTION B: ENERGY EFFICIENCY IN MUNICIPAL STREET AND HIGHMAST LIGHTING	R
8	SECTION C: ENERGY EFFICIENCY IN MUNICIPAL WASTE WATER TREATMENT SERVICES	R
9	SECTION D: COMMUNITY LIASON OFFICER (CLO) FEES, MATERIAL DELIVERY, POST INSTALLATION TESTING AND COMMISIONING	R
10	SECTION E: CABLING & CRUSHING	R
Sub Total		R
15% Vat		R
Total (Carried Forward to Form of Offer)		R

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Witness 1

Witness 2

Employer

Witness 1

Witness 2