

**Simmerpan Energy Performance Certificate Smart Meters Installation**

ITEM NO	DESCRIPTION	UOM	QTY	RATE	AMOUNT
<b>SECTION A: PRELIMINARIES AND GENERAL</b>					
<b>Establishment of Facilities on site for Contractor</b>					
The sums stated for items under this heading shall cover the cost of providing, establishing and commissioning on the site the facilities adequately equipped to enable all the work to commence and to proceed to completion as required in terms of the contract. The Bill must be completed using the technical specification of the project.					
The works information is provided and no claims arising from brevity of description of items fully described in the said works information will be entertained					
Works Information/scope of work are incorporated to satisfy the requirements of this project. Such information shall take precedence					
The contractor's prices for all items throughout this document must take account of and include for all obligations, requirements and specifications given in the said works information/scope of work. No variation will be entertained on the items clearly listed in works information					
<b>BILL NO : 1 PRELIMINARY AND GENERAL</b>					
<b>Fixed related P&amp;Gs</b>					
	Site Establishment	Sum	1		-
	Cable trench barricading	m	80		-
	Site De establishment	Sum	1		-
<b>Health and Safety</b>					
	Preparation of Health and Safety File (Incl. H&S pan, Quality Plan, etc)	Once off	1		-
	Pre-employment medical examination	Per Person	7		-
	Exit -medical examination	Per Person	7		-
	Personal Protective Clothing and Equipment (Overall, Hardhat, Gloves, Goggles, ect.)	Per Person	7		-
	Police Clearance	Per Person	7		-
<b>Training</b>					
	Training NTCSA Staff	Sum	1		-
<b>TIME RELATED P&amp;GS</b>					
	Safety Officer	Monthly	1		-
	Transportation for workers (Including drivers cost)	Monthly	1		-
	Transportation for material, equipment, etc (Including drivers cost)	km	240		-
	Accommodation (Including meals)	Monthly	1		-
	Consumables (Drills, bolts, cable ties, bolts and nuts)	Monthly	1		-
Section Summary carried Forward					-
<b>SECTION B</b>					
<b>BILL NO : 2 EARTHWORKS</b>					
<u>Excavate in insitu material not exceeding 1.5m deep and set aside for backfilling:</u>					
	Cable trenches	m³	12,00		-
	Plinth	m³	5,00		-
<u>Backfill using material obtained from excavation</u>					
	Cable trenches	m³	12,00		-
	Plinth	m³	5,00		-
<u>Bedding:</u>					
	Riversand bedding around cables	m³	4		-
<u>Keeping excavation free from water:</u>					
	Keeping excavations free of all water other than subterranean water	Item	1		-
<u>Compaction of surfaces:</u>					
	Compaction of natural excavated ground surfaces	m²	12		-
<u>Carting away</u>					
	Disposal of excavated material	m³	12		-
Section Summary carried Forward					-
<b>BILL NO : 3 CONCRETE, FORMWORK AND REINFORCEMENT</b>					
<u>Pre-cast concrete plinth</u>					
	Size: 650 x 350mm	No.	10		-
Section Summary carried Forward					-



**BILL NO: 4 ELECTRICAL WORK****CABLES**

3 Phase PVC cable as specified in ground, in ducts, on cable ladder, fixed to the surface, etc Rate to exclude excavations which are measured elsewhere. Quantities are provisional and subject to re-measure (Kiosk to Mini Sub)

25mm² 4 Core	m	40,00	-
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**ELECTRONIC INSTALLATIONS****EQUIPMENT****Supply and Install (Including all required accessories)**

Interface: Type PLC DC power source: 230 V (Refer to drawing No. D-DT-1025)

Data Concentrator 450 G3; PLC DC; 230 V	No.	7	-
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Three phase programmable 1 & 5A meter RS232 + RS485, Type 3ph

Smart meter including CT-VT unit	No.	40	-
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Base, Meter Kiosk 100-500kVA (Fully wired D-DT-1025 & D-DT-1000 )

Size (Refer to drawing D-DT-1000)	No.	10	-
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Internal GSM Modem

5G Network connectivity with capabilities of 4G LTE	No.	10	-
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**Fittings, equipment, including terminations, mounting plates, brackets, connectors, etc:**

Surge arrestor	No.	27	-
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150Amps Fuse	No.	12	-
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10 x 38 Fuse holder	No.	4	-
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150 Amps Low voltage circuit breaker	No.	4	-
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Cable labelling	No.	39	-
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Meters labelling	No.	146	-
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**Miscellaneous**

Padlock	No.	10	-
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**Commissioning**

Factory acceptance testing	Item	1	-
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Site acceptance testing	Item	1	-
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Electrical compliance certificate	Item	1	-
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Documentation (Manuals / schematics / architecture / data sheets)	Item	1	-
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**Section Summary carried Forward****SUMMARY**

PRELIMINARY AND GENERAL

EARTHWORKS

ELECTRICAL WORK

Total Summary carried forward to the form of offer and acceptance

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