



public works
& infrastructure

Department:
Public Works and Infrastructure
REPUBLIC OF SOUTH AFRICA

SUNDUMBILI MAGISTRATE OFFICE: ADDITIONAL ACCOMMODATION

ELECTRICAL AND ELECTRONIC WORKS – SUMMARY PAGE

SUMMARY - ELECTRICAL WORKS

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AMOUNT

1 ELECTRICAL INSTALLATION

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SUNDUMBILI MAGISTRATE OFFICE: ADDITIONAL ACCOMMODATION

PART D: MECHANICAL WORKS



SUNDUMBILI MAGISTRATE OFFICE: ADDITIONAL ACCOMMODATION

**BILLS OF QUANTITIES:
MECHANICAL WORKS**

DEPARTMENT OF PUBLIC WORKS

WCS 044999

SUNDUMBILI MAGISTRATES OFFICE

SCHEDULE OF QUANTITIES:

TENDERERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN BLACK INK

SCHEDULE NO 1: INSTALLATION A : HVAC INSTALLATION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	1	<u>HVAC INSTALLATION WORK</u>				
	1.1	Supply, install and commission high efficiency VRV type airconditioning with all electric controls, mountings and make good:				
	2	<u>Ground Floor System A - 49.37 kW Outdoor Unit</u>	no	1		
	2.1	SAPS Liaison - Total Cooling : 4.03 kW 1 Way ceiling cassette	no	1		
	2.2	Security Control Room - Total Cooling : 4.03 kW 1 Way ceiling cassette	no	1		
	2.3	SAPS Comm - Total Cooling : 12.42 kW 4 Way ceiling cassette	no	1		
	2.4	DCCO - Total Cooling : 5.41 kW 4 Way ceiling cassette	no	1		
	2.5	Work area - Total Cooling : 7.60 kW 4 Way ceiling cassette	no	2		
	3	<u>Ground Floor System B - 27.32 kW Outdoor Unit</u>	no	1		
	3,1	Security - Total Cooling : 4.95 kW 1 Way ceiling cassette	no	1		
	3,2	Enquiries - Total Cooling : 3.60 kW 1 Way ceiling cassette	no	1		
	3,3	Cash hall - Total Cooling : 4.03 kW 1 Way ceiling cassette	no	1		
	3,4	Cashier 1 - Total Cooling : 2.76 kW 1 Way ceiling cassette	no	1		
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SCHEDULE NO 1: INSTALLATION A :HVAC INSTALLATION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Brought Forward				
	3,4	Cashier 2 - Total Cooling : 2.76 kW 1 Way ceiling cassette	no	1		
	3,5	Work stations - Total Cooling : 3.91 kW 4 Way ceiling cassette	no	1		
	3,6	Supervisor Office - Total Cooling : 3.68 kW 1 Way ceiling cassette	no	1		
	4	<u>First Floor System A - 52.31 kW</u> <u>Outdoor Unit</u>	no	1		
	4,1	Chief prosecutor - Total Cooling : 4.8 kW 1 Way ceiling cassette	no	1		
	4,2	Control prosecutor - Total Cooling : 3.6 kW 1 Way ceiling cassette	no	1		
	4,3	Criminal court prosecutor - Total Cooling : 3.6 kW 1 Way ceiling cassette	no	1		
	4,4	District prosecutor - Total Cooling : 3.6 kW 1 Way ceiling cassette	no	1		
	4,5	District prosecutor - Total Cooling : 3.6 kW 1 Way ceiling cassette	no	1		
	4,6	District prosecutor - Total Cooling : 3.6 kW 1 Way ceiling cassette	no	1		
	4,7	District prosecutor - Total Cooling : 3.6 kW 1 Way ceiling cassette	no	1		
	4,8	Family Advocate - Total Cooling : 4.8 kW 1 Way ceiling cassette	no	1		
	4,9	Prosecutor pool - Total Cooling : 5.6 kW 4 Way ceiling cassette	no	1		
	4,10	Regional court clerk - Total Cooling : 3.6 kW 1 Way ceiling cassette	no	1		
	4,11	Regional court prosecutor - Total Cooling : 4.8 kW 1 Way ceiling cassette	no	1		
	4,12	Regional court prosecutor - Total Cooling : 3.6 kW 1 Way ceiling cassette	no	1		
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SCHEDULE NO 1: INSTALLATION A :HVAC INSTALLATION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Brought Forward				
	4,13	Secretary - Total Cooling : 3.6 kW 1 Way ceiling cassette	no	1		
	5	<u>First Floor System B -36.60 kW</u> <u>Outdoor Unit</u>	no	1		
	5,1	Consult - Total Cooling : 3.6 kW 1 Way ceiling cassette	no	1		
	5,2	Consult - Total Cooling : 3.6 kW 1 Way ceiling cassette	no	1		
	5,3	Consult - Total Cooling : 3.6 kW 1 Way ceiling cassette	no	1		
	5,4	Criminal court clerk - Total Cooling : 3.6 kW 1 Way ceiling cassette	no	1		
	5,5	Criminal court clerk - Total Cooling : 3.6 kW 1 Way ceiling cassette	no	1		
	5,6	Prosecutor Pool - Total Cooling : 5kW 4 Way ceiling cassette	no	1		
	5,7	Interpreter - Total Cooling : 3.6 kW 1 Way ceiling cassette	no	1		
	5,8	Legal Aid - Total Cooling : 3.6 kW 1 Way ceiling cassette	no	1		
	5,9	Prep prosecutor - Total Cooling : 5.6 kW 1 Way ceiling cassette	no	1		
	5,10	DSD - Total Cooling : 3.6 kW 1 Way ceiling cassette	no	1		
	6	<u>First Floor System C - 55.57 kW</u> <u>Outdoor Unit</u>	no	1		
	6,1	Child Prep - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	6,2	Child waiting area - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	6,3	Child witness area - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	6,4	Civil magistrate - Total Cooling : 4.8 Kw 1 Way ceiling cassette	no	1		
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SCHEDULE NO 1: INSTALLATION A :HVAC INSTALLATION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Brought Forward				
	6,5	Criminal magistrate 1 - Total Cooling : 4.8 Kw 1 Way ceiling cassette	no	1		
	6,6	Criminal magistrate 2 - Total Cooling : 4.8 Kw 1 Way ceiling cassette	no	1		
	6,7	Regional magistrate - Total Cooling : 4.8 Kw 1 Way ceiling cassette	no	1		
	6,8	Head of Court - Total Cooling : 4.8 Kw 1 Way ceiling cassette	no	1		
	6,9	Secretary - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	6,10	Adult waiting area - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	6,11	Witness waiting area 1 - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	6,12	Witness waiting area 2 - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	6,13	Witness waiting area 3 - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	6,14	Family Violence Clerk - Total Cooling : 3.6 kw 1 Way ceiling cassette	no	1		
	6,15	Intermediary - Total Cooling : 3.6 kW 1 Way ceiling cassette	no	1		
	7	<u>Civil Court</u>				
	7,1	Civil Court VRV 1- Total Cooling : 22.39 kW	no	1		
	7,2	Civil Court VRV 2- Total Cooling : 22.39 kW (Back up unit)	no	1		
	8	<u>Criminal Court 1</u>				
	8,1	Criminal Court 1 VRV 1- Total Cooling : 22.39 kW	no	1		
	8,2	Criminal Court 1 VRV 2- Total Cooling : 22.39 kW (Back up unit)	no	1		
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SCHEDULE NO 1: INSTALLATION A :HVAC INSTALLATION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Brought Forward				
	9	<u>Criminal Court 2</u>				
	9,1	Criminal Court 2 VRV 1- Total Cooling : 22.39 kW	no	1		
	9,2	Criminal Court 2 VRV 2- Total Cooling : 22.39 kW (Back up unit)	no	1		
	10	<u>Regional Court</u>				
	10,1	Civil Court VRV 1 - Total Cooling : 22.39 kW	no	1		
	10,2	Civil Court VRV 2 - Total Cooling : 22.39 kW (Back up unit)	no	1		
	11	<u>Family Court</u>				
	11,1	Family Court VRV 1 - Total Cooling : 24.55 kW	no	1		
	11,2	Family Court VRV 2 - Total Cooling : 24.55 kW (Back up unit)	no	1		
	11,3	Family Court - Total Cooling : 12.3 Kw 4 Way ceiling cassette	no	2		
	12	<u>Second Floor - System A - 75.26 Kw Outdoor Unit</u>	no	1		
	12,1	Assessor - Total Cooling : 3.6 kW 1 Way ceiling cassette	no	1		
	12,2	Assessor - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	12,3	Clerk - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	12,4	Clerk - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	12,5	Committee Training - Total Cooling : 10.6 Kw 4 Way ceiling cassette	no	1		
	12,6	Correct services - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	12,7	Criminal Court prep cubicles -Total Cooling:5.4kw 4 Way ceiling cassette	no	1		
	12,8	Financial operations manager-Total Cooling:3.6kw 1 Way ceiling cassette	no	1		
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SCHEDULE NO 1: INSTALLATION A :HVAC INSTALLATION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Brought Forward				
	12,9	Financial operations manager-Total Cooling:3.6kw 1 Way ceiling cassette	no	1		
	12,10	ICMS Clerk - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	12,11	Judiciary boardroom - Total Cooling : 5.4 Kw 4 Way ceiling cassette	no	1		
	12,12	Librarian - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	12,13	NGO - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	12,14	Office Manager - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	12,15	Principle Clerk - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	12,16	Process Office - Total Cooling : 5.1 kW 4 Way ceiling cassette	no	1		
	12,17	Tea Room - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	12,18	Typist x2 people - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	13	<u>Second Floor - System B - 34.85 Kw</u> <u>Outdoor Unit</u>	no	1		
	13,1	Equality room - Total Cooling : 10.6 kW 4 Way ceiling cassette	no	1		
	13,2	Consult - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	13,3	Consult - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	13,4	Interpreter - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	13,5	Interpreter - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	13,6	Library - Total Cooling : 7.7 Kw 4 Way ceiling cassette	no	1		
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SCHEDULE NO 1: INSTALLATION A :HVAC INSTALLATION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Brought Forward				
	13,7	Principle interpreter - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	14	<u>Third Floor - System A - 22.01 Kw</u> <u>Outdoor Unit</u>	no	1		
	14,1	Maintenance investigator - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	14,2	Family violence - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	14,3	Maintenance investigator - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	14,4	Maintenance officer - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	14,5	Maintenance officer - Total Cooling : 3.6 kW 1 Way ceiling cassette	no	1		
	15	<u>Third Floor - System B - 40.55 Kw</u> <u>Outdoor Unit</u>	no	1		
	15,1	4x Steno - Total Cooling : 5.6 Kw 4 Way ceiling cassette	no	1		
	15,2	Assistant master - Total Cooling : 3.6 kW 1 Way ceiling cassette	no	1		
	15,3	Consult - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	15,4	Estates clerk - Total Cooling : 3.6 kW 1 Way ceiling cassette	no	1		
	15,5	Estates clerk - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	15,6	First aid - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	15,7	Principle Steno - Total Cooling : 3.6 Kw 1 Way ceiling cassette	no	1		
	15,8	Reception - Total Cooling : 5.2 kW 1 Way ceiling cassette	no	1		
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SCHEDULE NO 1: INSTALLATION A :HVAC INSTALLATION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Brought Forward				
	15,9	Registry clerk - Total Cooling : 3.6 kW 1 Way ceiling cassette	no	1		
	15,10	Tea room - Total Cooling : 5.4 Kw 4 Way ceiling cassette	no	1		
	16	<u>MULTI INDOOR (HIGH - DUCTED SPLIT)</u>				
	16,1	Supply, install and commission ceiling concealed High static duct ARNU6GB8A4.ENCBUAE	no	8		
	17	<u>BRANCH PIPING KIT</u>				
	17,1	Supply, Install Y branch piping kits as per ffg:				
	17,2	Y-Branch Pipe - ARBLN01621.ENCXLEU	no	40		
	17,3	Y-Branch Pipe - ARBLN03321.ENCXLEU	no	35		
	17,4	Y-Branch Pipe - ARBLN07121.ENCXLEU	no	7		
	17,5	Y-Branch Pipe - ARBLN14521.ENCXLEU	no	1		
	17,6	Y-Branch Pipe - ARCNN21.ENCXLEU (Outdoor)	no	1		
	18	<u>AC SMART CENTRAL CONTROLLER</u>				
	18,1	Supply, install, commission ACP5+BacNet central control panel in maintenance mangers office.	no	1		
	19	<u>WIRED CONTROL</u>				
	19,1	Wired wall mounted control (white)	no	105		
	20	<u>EXPANSION MODULE</u>				
	20,1	Supply, install, commission ACS IV Expansion I/O Module.	no	5		
	21	<u>DRY CONTACT</u>				
	21,1	Supply,install and commission ODU PVDSMN000.ENCXLEU	no	20		
	22	<u>OCCUPANCY SENSOR</u>				
	22,1	Supply, install and commission ceiling mounted aircon occupancy sensor.	no	98		
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SCHEDULE NO 1: INSTALLATION A :HVAC INSTALLATION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Brought Forward				
	23	<u>COPPER PIPING</u> Supply and Install the following copper pipes for the VRV system:				
	23,1	Ø 3.1mm Class 2 welded type	m	265		
	23,2	Ø 6.35mm Class 2 welded type	m	585		
	23,3	Ø 9.5mm Class 2 welded type	m	549		
	23,4	Ø 12.7mm Class 2 welded type	m	208		
	23,5	Ø 15.9mm Class 2 welded type	m	481		
	23,6	Ø 19mm Class 2 welded type	m	58		
	23,7	Ø 22.2mm Class 2 welded type	m	24		
	23,8	Ø 25mm Class 2 welded type	m	232		
	23,9	Ø 34.9mm Class 2 welded type	m	3		
	24	<u>COPPER FITTINGS</u> Supply and Install the following copper bends and t-pieces for the VRV system:				
		<u>Bends</u>				
	24,1	Ø 3.1mm Class 2 welded type	no	50		
	24,2	Ø 6.35mm Class 2 welded type	no	92		
	24,3	Ø 9.5mm Class 2 welded type	no	16		
	24,4	Ø 12.7mm Class 2 welded type	no	92		
	24,5	Ø 15.9mm Class 2 welded type	no	16		
	24,6	Ø 19mm Class 2 welded type	no	50		
	24,7	Ø 22.2mm Class 2 welded type	no	50		
	24, 8	Ø 25mm Class 2 welded type	no	50		
		<u>T-Pieces</u>				
	24,9	Ø 3.1mm Class 2 welded type	no	30		
	24,10	Ø 6.35mm Class 2 welded type	no	91		
		CARRIED FORWARD TO NEXT PAGE				

SCHEDULE NO 1: INSTALLATION A :HVAC INSTALLATION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Brought Forward				
	24,11	Ø 9.5mm Class 2 welded type	no	14		
	24,12	Ø 12.7mm Class 2 welded type	no	91		
	24, 13	Ø 15.9mm Class 2 welded type	no	14		
	24,14	Ø 19mm Class 2 welded type	no	50		
	24,15	Ø 22.2mm Class 2 welded type	no	50		
	24,16	Ø 25mm Class 2 welded type	no	30		
	25	<u>Piping Clamps</u>				
	25,1	Ø 3.1mm	no	30		
	25,2	Ø 6.35mm	no	91		
	25,3	Ø 9.5mm	no	14		
	25,4	Ø 12.7mm	no	91		
	25,5	Ø 15.9mm	no	14		
	25,6	Ø 19mm	no	30		
	25,7	Ø 22.2mm	no	50		
	25,8	Ø 25mm	no	50		
	26	<u>DUCTING</u>				
	26,1	Supply, install and commission ducting that complies with the high static duct unit as specified Allowance for supply air plenum, return air plenum, filtered return air grille and diffusers per unit.	Courts	10		
	27	<u>LOWER GROUND SPLIT AIRCON UNITS</u>				
	27,1	Supply and install new split air conditioning unit, including wall mounted evaporators, refrigerant piping(approximately 6m per unit) and connection to electrical supply. The unit to have reverse cycle heating. Total Capacity - 4.8 Kw Sensible Capacity - 4.6 Kw	no	2		
	27, 2	Remote Controls	no	2		
		CARRIED FORWARD TO NEXT PAGE				

SCHEDULE NO 1: INSTALLATION A :HVAC INSTALLATION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Brought Forward				
	28	<u>CHASING OF WALLS FOR PIPING</u>				
	28,1	Chasing of walls for the installation of aircon piping 200mm down from ceiling corners and 50mm deep along the inside walls of the building Chase walls and make good.	m	1000		
	29	<u>PLASTER WALLS</u>				
	29,1	Plaster walls after chasing walls and the installation of piping for the aircon units Plaster walls and make good.	m	1000		
	30	<u>CONCRETE SLAB FOR VRV UNIT</u>				
	30,1	Concrete slab for each VRV unit to stand on and made to suit VRV unit to be made good.	no	19		
	31	<u>LAGGING AND INSULATION</u>				
	31,1	Supply and install lagging to done after the installation of all the aircon pipes. Lag pipes and make good. The thermal conductivity not Greater than 0,038 W/m°K, and the density not less than 80kg/m3.	m	1000		
	32	<u>GALVANISED MOUNTING BRACKET</u>				
	32, 1	VRV outdoor unit	no	17		
	33	<u>GALVANISED CABLE RACK FOR PIPING & CABLES</u>				
	33, 1	Supply, install galvanised steel cable racks to accommodate aircon piping and cables.	m	1000		
	34	<u>LCA LONG CASED AXIAL FAN</u>				
	34, 1	Supply, install long cased axial fan with required fittings and electrics and make good. LCA 500/150/10-25° PP 0.55 kW 1440 RPM 380 Volt	no	6		
		CARRIED FORWARD TO NEXT PAGE				

SCHEDULE NO 1: INSTALLATION A :HVAC INSTALLATION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Brought Forward				
	35	<u>TOILET EXTRACTION SYSTEM</u>				
	35,1	Supply, install toilet odour extraction system to all toilets connected via light switch with inline axial fan to be fitted inside the, ducting, brackets and make good.				
	35,2	Air grills in toilets	no	45		
	35,3	Ø250mm Air Ducts as shown on drawings	sum	1		
	35,4	Supply and install inline fan to vent into service duct.	no	10		
	36	<u>AIR CURTAIN</u>				
	36,1	Supply, install and commission 1.5m air curtain as shown on the drawings with electrics and make good.	ea	4		
	37	<u>CLIVIT - PCPA Front Delivery</u>				
	37,1	Supply, install clivit unit for server racks with electrics and make good.(2 units as standby)	no	4		
	38	<u>FRESH AIR INTAKE</u>				
		Supply, install and commission fresh air intake in court rooms:				
	38,1	Heat Pump 12HP ARUN120LLS5.EWGBGLB	no	1		
	38,2	Heat Pump 16HP ARUN160LLS5.EWGBGLB	no	1		
	38,3	Fresh Air Intake Unit ARNU76GB8Z4.ENCBLEU	no	1		
	38,4	Fresh Air Intake Unit ARNU96GB8Z4.ENCBLEU	no	2		
	38,5	Y-Branch Pipe H/PARBLN07121.ENCXLEU	no	1		
	39	<u>LIFT SHAFT VENTILATION</u>				
	39,1	Provide suitable ventilation openings at top of the lift shaft. The ambient temperature must not exceed 35°C and that there are at a minimum 25 air changes per hour in the motor room. Motor room humidity level must not exceed >90 with non-condensation	no	3		
		CARRIED FORWARD TO NEXT PAGE				

SCHEDULE NO 1: INSTALLATION A :HVAC INSTALLATION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
		Brought Forward					
	40	<u>VENTILATION FANS</u> Supply, install and commision ventilation fans. The minimum required volume shall be capable of replacing the required air volume by ten times per hour in the areas as listed below:					
	40,1	Fire Pump Room	ea	1			
	40, 2	Generator Room	ea	1			
	40 , 3	Solar Utilities Room	ea	1			
	41	<u>SUNDRIES</u>					
	41,1	Commissioning of the entire installation - Inclusive of integrity testing and issuing COC's for the entire installation.	Sum	1			
	41,2	Guarantees as per contract	Sum	1			
	41,3	Servicing and maintenance during warranty period	Sum	1			
	41,4	3 sets of operating and maintenance manuals	ea	3			
	41,5	As built drawings	Sum	1			
	41,6	Training - Allow for the training of the employer's to enable them to be responsible for and capable of operating the plant.	Sum	1			
	41,7	Workshop drawings - for approval of installation prior to ordering equipment	Sum	1			
		CARRIED FORWARD TO SUMMARY					

DEPARTMENT OF PUBLIC WORKS

WCS 044999

SUNDUMBILI MAGISTRATES OFFICE

SCHEDULE OF QUANTITIES:

TENDERERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN BLACK INK

SCHEDULE NO 2: INSTALLATION B: HOT WATER INSTALLATIONS

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	1	<u>HOT WATER INSTALLATION WORK</u>				
	1,1	Supply, Install complete hot water generating unit to be located on the lower ground behind the cells Refer to Drawing: ME 1234/HWS 1				
	2	<u>HEAT PUMPS</u>				
	2,1	Supply, Install 3kw heat pump complete with all accessories to heat 200 litres of water to 60°C	no	6		
	3	<u>HOT WATER TANK</u>				
	3,1	Supply, Install 200L hot water tank with all accessories and fittings and make good.	no	6		
	4	<u>ELECTRICAL CONTROL PANEL</u>				
	4,1	Control panel of suitable size for 200 litres water to be heated to 60°C. With all safety and process switch gear.	no	6		
	5	<u>COPPER PIPING</u>				
		Supply and install the following copper pipes for hot water system:				
	5,1	Ø 15mm Class 2 welded type	m	100		
	5,2	Ø 25 mm Class 2 welded type	m	100		
	6	<u>COPPER FITTINGS</u>				
		Supply and install the following fittings for hot water system:				
		CARRIED FORWARD TO NEXT PAGE				

SCHEDULE NO 2: INSTALLATION B: HOT WATER INSTALLATIONS

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Brought Forward				
		<u>Bends</u>				
	6,1	Ø 15mm Class 2 welded type	no	92		
	6,2	Ø 25mm Class 2 welded type	no	30		
		<u>T-Pieces</u>				
	6, 3	Ø 15mm Class 2 welded type	no	92		
	6, 4	Ø 25mm Class 2 welded type	no	30		
		<u>Strainers</u>				
	6, 5	Ø 15mm Class 2 welded type	no	50		
	6, 6	Ø 25mm Class 2 welded type	no	50		
		<u>Non Return Valves</u>				
	6, 7	Ø 15mm Class 2 welded type	no	50		
	6, 8	Ø 25mm Class 2 welded type	no	50		
		<u>Isolating Valves</u>				
	6, 9	Ø 15mm Class 2 welded type	no	50		
	6, 10	Ø 25mm Class 2 welded type	no	50		
		<u>Stainless Steel Braided Hose</u>				
	6, 11	Ø 15mm stainless steel braided hose	no	50		
	6, 12	Ø 25mm stainless steel braided hose	no	50		
	7	<u>CHASING OF WALLS FOR PIPING</u>				
	7,1	Chasing of walls for the installation of piping - 100mm deep along the inside walls of the cell building. Chase walls and make good.	m	200		
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SCHEDULE NO 2: INSTALLATION B: HOT WATER INSTALLATIONS

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Brought Forward				
	8	<u>LAGGING AND INSULATION</u> Supply and install lagging to be done after the installation of all the pipes.				
	8, 1	Ø 15mm	m	200		
	8, 2	Ø 25mm	m	200		
	9	<u>PLASTER WALLS</u>				
	9, 1	Plaster walls after chasing and the installation of piping. Plaster walls and make good.	m	200		
	10	<u>WALL BRACKETS</u>				
	10, 1	Ø 15mm	no	100		
	10, 2	Ø 25mm	no	100		
	11	<u>HOT WATER HEATER</u>				
	11, 1	Supply and install over basin 10 Litre hot water heater mounted in the ceiling space of all kitchens with the required piping, valves and make good.	no	5		
	12	<u>HYDROBOIL</u>				
	12, 1	Supply and install HydroBoil 2.5 Litre Stainless Steel for kitchens with the required piping, valves and make good.	no	5		
		CARRIED FORWARD TO NEXT PAGE				

SCHEDULE NO 2: INSTALLATION B: HOT WATER INSTALLATIONS

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Brought Forward				
	13	<u>SUNDRIES</u>				
	13,1	Commissioning of the entire installation - Inclusive of integrity testing and issuing COC's for the entire installation.	Sum	1		
	13,2	Guarantees as per contract.	Sum	1		
	13,3	Servicing and maintenance during warranty period	Sum	1		
	13,4	3 sets of operating and maintenance manuals.	ea	3		
	13,5	As built drawings.	Sum	1		
	13,6	Training - Allow for the training of the employer's to enable them to be responsible for and capable of operating the plant.	Sum	1		
	13,7	Workshop drawings - for approval of installation prior to ordering equipment.	Sum	1		
		CARRIED FORWARD TO SUMMARY				

DEPARTMENT OF PUBLIC WORKS

WCS 044999

SUNDUMBILI MAGISTRATES OFFICE

SCHEDULE OF QUANTITIES:

TENDERERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN BLACK INK

SCHEDULE NO 3: INSTALLATION C: FIRE SUPPRESSION

PAYMENTS REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		The following bill of quantities must be read in conjunction with the foregoing specifications as well as the attached mechanical engineer's drawings No ME1234-SFP1, ME1234-SFP2, ME1234-SFP3, ME1234-SFP4, ME1234-SFP5, ME1234-SFP6 and include for ASIB Design and Certification.				
	1	<u>FIRE WATER PUMPS</u>				
	1.1	Supply, install and commission diesel driven pump complete with engine, chassis, starter, coupling, alternator and batteries delivering 20l/s	no	1		
	1.2	Supply, install and commission booster pump complete with motor, coupling delivering 1.5l/s One standby and one operational	no	2		
		All installed pumps shall have sufficient capacity to operate hose reels, hydrants and sprinklers				
	2	<u>PIPEWORK FOR TANK AND PUMP</u>				
	2.1	Steel galvanised pipework complete with all valves, flow meters and ball level control valves.	sum	1		
	3	<u>DIESEL STORAGE TANK</u>				
	3.1	Diesel storage tank for 6 hours capacity	no	1		
	4	<u>CONTROL PANEL</u>				
	4.1	Control panel complete with UPS, battery chargers	no	1		
	5	<u>TEST MANIFOLD</u>				
	5.1	Steel and copper piping class 2 complete with valves & pressure gauges.	no	1		
	6	<u>FIRE WATER STORAGE TANK</u>				
	6.1	Manufacture, supply and erection of a 316 kilolitre storage tank complete with concrete foundation walls, includes levelling and excavations.	no	1		
		CARRIED FORWARD TO NEXT PAGE				

SCHEDULE NO 3: INSTALLATION C: FIRE SUPPRESSION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Brought Forward				
	7	<u>NEW FIRE EQUIPMENT</u> Supply and install fire equipment as per specification:				
	7.1	Supply and installation of fire hydrants.	Set	11		
	7.2	Supply and installation of fire hose reels 30m long, 64mm, percolating fire hose coils complete with quick couplings.	Set	10		
	7.4	Jet/spay branch pipes equivalent to AWG 1C.	no	11		
	7.5	Fire hose cabinet large enough to hold four 30m coils of fire hose.	no	11		
	7.6	Spare hydrant rubber washers.	no	22		
	7.7	Hydrant keys.	no	11		
	8	<u>FIRE EXTINGUISHERS</u> Supply, install and commission new extinguishers according to SANS specifications.				
	8.1	9 kg DCP fire extinguisher complete with galvanised mounting brackets.	No	150		
	9	<u>SIGNAGE</u> Photo lumenis escape and fire equipment signs installed complete with mountings,brackets,etc				
	9.1	190mm x 190mm	No	120		
	9.2	190mm x 384mm	No	60		
	9.3	190mm x 578mm	No	45		
	9.4	190mm x 772mm	No	30		
	10	<u>PIPING & ACCESSORIES</u> Supply and installation of galvanized piping for installation of fire water piping system. The pipes and fitting shall be painted with primer & painted using approved type, Galvanized, supports at standard spacing, anchor fasteners, bolts, nuts, clamps, rails "U" & threaded bolt, Including cutting, welding, fixing by using the supports etc., as per specification.				
	10.2	Ø 150 mm	m	200		
	10.3	Ø 125 mm	m	125		
		CARRIED FORWARD TO NEXT PAGE				

SCHEDULE NO 3: INSTALLATION C: FIRE SUPPRESSION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Brought Forward				
	10.4	Ø 100 mm	m	140		
	10.5	Ø 80 mm	m	60		
	10.6	Ø 65 mm	m	180		
	10.7	Ø 50 mm	m	270		
	10.8	Ø 40 mm	m	20		
	10.9	Ø 32 mm	m	180		
	10.10	Ø 25 mm	m	270		
	10.11	Ø 15 mm	m	150		
		Supply and installation of SABS 719 piping for installation of fire water piping system. The pipes and fitting shall be painted with primer & painted using approved type, Galvanized, supports at standard spacing, anchor fasteners, bolts, nuts, clamps, rails "U" & threaded bolt, Including cutting, Welding, fixing by using the supports etc., as per specification				
	10.11	Ø 200 mm	m	38		
		CARRIED FORWARD TO NEXT PAGE				

SCHEDULE NO 3: INSTALLATION C: FIRE SUPPRESSION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Brought Forward				
		Supply and installation of 304L stainless steel piping for installation of fire water piping system in the court rooms. Stainless Steel, supports at standard spacing, anchor fasteners, bolts, nuts, clamps, rails "U" & threaded bolt, Including cutting, Welding, fixing by using the supports etc, as per specification:				
	10.22	Ø 125 mm	m	20		
	10.23	Ø 100 mm	m	20		
	10.24	Ø 80 mm	m	20		
	10.25	Ø 65 mm	m	20		
	10.26	Ø 50 mm	m	30		
	10.27	Ø 32 mm	m	30		
	10.28	Ø 25 mm	m	30		
	10.29	Ø 15 mm	m	100		
	11	<u>Galvanized Pipe Fittings</u>				
	11.1	Ø 150 mm Elbow	No	40		
	11.2	Ø 125 mm Elbow	No	20		
	11.3	Ø 100 mm Elbow	No	50		
	11.4	Ø 80 mm Elbow	No	25		
	11.5	Ø 65 mm Elbow	No	10		
	11.6	Ø 50 mm Elbow	No	20		
	11.7	Ø 25 mm Elbow	No	100		
	11.8	Ø 15 mm Elbow	No	100		
	11.9	Ø 150mm Tee	No	22		
	11.10	Ø 125 mm Tee	No	12		
	11.11	Ø 100 mm Tee	No	22		
	11.12	Ø 80 mm Tee	No	25		
	11.13	Ø 65 mm Tee	No	13		
	11.14	Ø 50 mm Tee	No	60		
		CARRIED FORWARD TO NEXT PAGE				

SCHEDULE NO 3: INSTALLATION C: FIRE SUPPRESSION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Brought Forward				
	11.15	Ø 32 mm Tee	No	20		
	11.16	Ø 25 mm Tee	No	30		
	11.17	Ø 15mm Tee	No	50		
	11.18	Ø 150 - 125mm Reducer	No	6		
	11.19	Ø 100 - 80mm Reducer	No	6		
	11.20	Ø 125 - 100mm Reducer	No	6		
	11.21	Ø 150 - 80mm Reducing Tee	No	17		
	11.22	Ø 100 - 80mm Reducing Tee	No	17		
	11.23	Ø 125 - 100mm Reducing Tee	No	17		
	11.24	Ø 100 - 50 mm Reducing Tee	No	17		
	11.25	Ø 80 - 25 mm Concentric Reducer	No	17		
	11.26	Ø 100 - 50 mm Concentric Reducer	No	17		
	11.27	Ø 125 - 100 mm Concentric Reducer	No	17		
	11.28	Ø 150 - 100 mm Concentric Reducer	No	17		
	11.29	Ø 150-80 mm Concentric Reducer	No	17		
	11.30	Ø 200 - 150 mm Concentric Reducer	No	3		
	11.31	Ø 80 - 25 mm Cross Reducer	No	22		
	11.32	Ø 25 mm Threaded Socket	No	44		
	11.33	Ø 15 mm Threaded Socket	No	30		
	11.34	Ø 150 mm End Cap	No	3		
	12	<u>SABS 719 Pipe Fittings</u>				
	12.1	Ø 200 mm Elbow	No	40		
	12.2	Ø 150 mm Elbow	No	30		
	12.3	Ø 200 mm Flanges	No	10		
	12.4	Ø 150 mm Flanges	No	10		
		CARRIED FORWARD TO NEXT PAGE				

SCHEDULE NO 3: INSTALLATION C: FIRE SUPPRESSION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Brought Forward				
	12.5	Ø 100 - 50 mm Reducing Tee	No	17		
	12.6	Ø 80 - 25 mm Concentric Reducer	No	17		
	12.7	Ø 100 - 50 mm Concentric Reducer	No	17		
	12.8	Ø 125 - 100 mm Concentric Reducer	No	17		
	12.9	Ø 150 - 100 mm Concentric Reducer	No	17		
	12.10	Ø 150-80 mm Concentric Reducer	No	17		
	12.11	Ø 200 - 150 mm Concentric Reducer	No	3		
	12.12	Ø 80 - 25 mm Cross Reducer	No	22		
	12.13	Ø 25 mm Threaded Socket	No	44		
	12.14	Ø 15 mm Threaded Socket	No	30		
	12.15	Ø 150 mm End Cap	No	3		
		Supply and installation of 304L stainless steel piping for installation of fire water piping system in the court rooms. The pipes and fitting shall be painted with primer & painted using approved type, Stainless Steel, supports at standard spacing, anchor fasteners, bolts, nuts, clamps, rails "U" & threaded bolt, including cutting, Welding, fixing in/on walls ,ceiling by using the supports etc., as per drawings.				
	14	<u>Stainless Steel Pipe Fittings</u>				
	14.1	Ø 150 mm Elbow	No	20		
	14.2	Ø 125 mm Elbow	No	10		
	14.3	Ø 100 mm Elbow	No	20		
	14.4	Ø 80 mm Elbow	No	5		
	14.5	Ø 65 mm Elbow	No	5		
	14.6	Ø 50 mm Elbow	No	30		
	14.7	Ø 32 mm Elbow	No	2		
	14.8	Ø 25 mm Elbow	No	20		
	14.9	Ø 15 mm Elbow	No	50		
	14.10	Ø 150mm Tee	No	10		
	14.11	Ø 125 mm Tee	No	20		
		CARRIED FORWARD TO NEXT PAGE				

SCHEDULE NO 3: INSTALLATION C: FIRE SUPPRESSION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Brought Forward				
	14.12	Ø 100 mm Tee	No	20		
	14.13	Ø 80 mm Tee	No	20		
	14.14	Ø 65 mm Tee	No	20		
	14.15	Ø 50 mm Tee	No	30		
	14.16	Ø 32 mm Tee	No	2		
	14.17	Ø 25 mm Tee	No	20		
	14.18	Ø 150 - 80 mm Reducing Tee	No	16		
	14.19	Ø 150 mm End Cap	No	3		
	14.20	Ø 125 - 100mm Concentric Reducer	No	2		
	14.21	Ø 100 - 50 mm Concentric Reducer	No	2		
	14.22	Ø 80 - 40 mm Concentric Reducer	No	16		
	14.23	Ø 25 mm Threaded Socket	No	320		
	15	<u>Gate valves for connection to steel piping</u>				
	15.1	Ø 150mm	No	2		
	15.2	Ø 125 mm	No	2		
	15.3	Ø 100 mm	No	5		
	15.4	Ø 80 mm	No	5		
	15.5	Ø 50mm	No	2		
	15.6	Install air release valves	no	5		
	15.7	Install brass water flow meters- Ø125mm pipe	no	2		
	16	<u>Ball-o-stop valves for connection to steel piping</u>				
	16.1	Ø 50 mm	No	2		
	16.2	Ø 25 mm	No	2		
		CARRIED FORWARD TO NEXT PAGE				

SCHEDULE NO 3: INSTALLATION C: FIRE SUPPRESSION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Brought Forward				
	17	<u>Strainers for installation in steel piping</u>				
	17.1	Ø 150mm	No	1		
	17.2	Ø 100 mm	No	1		
	17.3	Ø 50mm	No	1		
	18	<u>Non-return valves for installation in steel piping</u>				
	18.1	Ø 200mm	No	1		
	18.2	Ø 150mm	No	1		
	18.3	Ø 125 mm	No	1		
	18.4	Ø 100 mm	No	1		
	19	<u>Flanges on removable equipment</u>				
	19.1	Ø 200 mm	No	4		
	19.2	Ø 150 mm	No	4		
	20	<u>Unions on removable equipment</u>				
	20.1	Ø 50 mm	No	4		
	20.2	Ø 25 mm	No	4		
	21	<u>DIESEL</u>				
	21.1	Supply of diesel	Litre	500		
	22	<u>UPS</u>				
	22.1	Supply, install and commission UPS to be supplied and installed for 7.5 Kw jockey pump	no	2		
	23	<u>MOTOR SOFT START</u>				
	23.1	Supply, install and commission motor soft start to be supplied and installed for 7.5 Kw jockey pump	no	2		
	24	<u>EXTERNAL FIRE TRUCK MANIFOLD</u>				
	24.1	Supply, install and commission fire truck manifold complete with pressure gauges and valves.	no	1		
	25	<u>WATER PRESERVATION</u>				
	25.1	Supply and install chemicals for permanent preservation of water in tank.	m ³	316		
		CARRIED FORWARD TO NEXT PAGE				

SCHEDULE NO 3: INSTALLATION C: FIRE SUPPRESSION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Brought Forward				
	26	<u>New Fire Detection and Protection Systems</u> Design, supply, install and commission new fully charged inert gas and fire detection system, complete with all necessary valves, actuators, release mechanisms and all other items necessary including all required certificates and documentation as per standard PWD specification and national building regulation. System shall include: Fully charged gas bottles Gas control unit Optical zone sensor 1 Gas release solenoid Control panel Air conditioning fan shut down relay Electronic sounder/flashing (secondary alarm) Bell primary alarm Dispensing nozzle at high level Gas Panel 12 V Battery Smoke Sensor Smoke Sensor Base Red Fire Bell Flashing light Red MCP Flap Gas Interface 24V DC Relay Ø20mm PVC Conduit and Fittings PH30 Cable				
			no	8		
			no	4		
			no	8		
			no	8		
			no	1		
			no	1		
			no	2		
			no	2		
			no	8		
			no	2		
			no	2		
			no	16		
			no	16		
			no	8		
			no	8		
			no	8		
			no	8		
			no	8		
			no	8		
			no	10		
			m	20		
		CARRIED FORWARD TO NEXT PAGE				

SCHEDULE NO 3: INSTALLATION C: FIRE SUPPRESSION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Brought Forward				
		Blue Beacon	no	8		
		SCH 40 Pipe	m	20		
		Inergen	no	8		
		Log Book Holder	no	2		
	3.30	<u>SPRINKLER SYSTEM</u>				
		Sprinkler to be fed via the main diesel and jockey pumps as supplied.				
		Supplied quantities are estimates				
		Design, supply, installing, testing & commissioning of pipes to confirm malleable specials extruded type, such as Reducers, elbows, flanges.				
		The pipes shall be painted with primer & Paint using approved type, Galvanized, supports at standard spacing, anchor fasteners, bolts, nuts, clamps, rails "U" & threaded bolt, Including cutting, Welding, fixing in/on walls, ceiling by using the supports etc, as per drawings.				
		The quoted rate shall also include for chasing/chipping walls, Floors, making bore holes in walls / floor and making them good.	m	100		
		The quoted rate shall includes of Acrylic Fire stop Sealant in the opening for pipes passing through fire compartment walls of RCC floors, masonry walls to provide up to 2 hours fire rating.	sum	1		
		CARRIED FORWARD TO NEXT PAGE				

SCHEDULE NO 3: INSTALLATION C: FIRE SUPPRESSION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Brought Forward				
		Supplying, installing, testing and commissioning of standard response Sprinkler quartzoid bulb type with 15mm screwed end connection of 68 °C. temperature rating, K 80 and orifice shall not be less than 3 mm.				
		Recessed Pendent sprinkler - Court rooms	no	44		
		Pendent Sprinkler - Parking's	no	317		
		Supply of spare sprinklers for the 2 different types as per the specifications mentioned.	no	50		
		Supply, install, test and commissioning flow switch installed on the sprinkler main distribution line capable of sending impulses to the monitor module.	no	1		
		<u>Victaulic Pipe Clamps</u>				
		Ø 200 mm	no	20		
		Ø 150 mm	no	30		
		Ø 125 mm	no	20		
		Ø 100 mm	no	20		
		Ø 80 mm	no	30		
		Ø 65 mm	no	30		
		Ø 50 mm	no	50		
		Ø 40 mm	no	30		
		Ø 32 mm	no	50		
		Ø 25 mm	no	50		
	3.20	<u>Pressure testing of piping installation</u>				
		Pressure testing of the entire system	No	1		
		CARRIED FORWARD TO NEXT PAGE				

SCHEDULE NO 3: INSTALLATION C: FIRE SUPPRESSION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Brought Forward				
	3.31	<u>SUNDRIES</u>				
		Commissioning of the entire installation - Inclusive of integrity testing and issuing COC's for the entire installation.	Sum	1		
		Guarantees as per contract	Sum	1		
		Servicing and maintenance during warranty period	Sum	1		
		3 sets of operating and maintenance manuals	ea	3		
		As built drawings	Sum	1		
		Training - Allow for the training of the employer's to enable them to be responsible for and capable of operating the plant.	Sum	1		
		Workshop drawings - for approval of installation prior to ordering equipment.	Sum	1		
		CARRIED FORWARD TO SUMMARY				

DEPARTMENT OF PUBLIC WORKS

WCS 044999

SUNDUMBILI MAGISTRATES OFFICE

SCHEDULE OF QUANTITIES:

TENDERERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN BLACK INK

SCHEDULE NO 4: INSTALLATION D: LIFTS INSTALLATIONS

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	1	<u>PASSENGER LIFTS</u>				
	1,1	Supply, install and commission lifts as specified with all electrics and safety devices and make good. All internal finishes to be as per architect specification.				
	2	<u>Magistrates Lift - 630 kg</u> <u>Wheelchair Compliant / 8 Passenger Lift</u> Shaft dimensions: WS x DS: 2000 x 2500 mm Car size:WC x DC x HC: 1100 x 1400 x 2239 mm Pit depth : 1200mm Headroom: 3700mm Doors: 800mm x 2100mm	no	1		
	3	<u>Public Lifts - 1125 kg Stretcher</u> <u>Lifts / 15 Passenger - Duplex Configuration</u> Shaft dimensions : WS x DS : 2000 x 2500 mm Car size:WC x DC x HC :1200 x 2100 x 2239 mm Pit Depth: 1200mm Headroom: 3700mm Doors: 900mm x 2100mm Lift installation and certifications to be done according to OSHACT	no	2		
		CARRIED FORWARD TO NEXT PAGE				

SCHEDULE NO 4: INSTALLATION D: LIFTS INSTALLATIONS

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Brought Forward				
	4	<u>SUNDRIES</u>				
	4,1	Commissioning of the entire installation - Inclusive of room integrity testing and issuing COC's for the entire installation.	Sum	1		
	4,2	12 month guarantee	Sum	1		
	4,3	Servicing and maintenance	Sum	1		
	4,4	3 sets of operating and maintenance manuals	ea	3		
	4,5	As built drawings	Sum	1		
	4,6	Training - Allow for the training of the employer's to enable them to be responsible for and capable of operating the plant.	Sum	1		
	4,7	Workshop drawings - for approval of installation prior to ordering equipment	Sum	1		
		CARRIED FORWARD TO SUMMARY				

DEPARTMENT OF PUBLIC WORKS

WCS 044999

SUNDUMBILI MAGISTRATES OFFICE

SCHEDULE OF QUANTITIES:

TENDERERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN BLACK INK

SCHEDULE NO 5: INSTALLATION E: PUMPS SERVICES INSTALLATIONS

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	1	<u>DOMESTIC WATER TANK PUMP</u>				
	1,1	Design, supply, install and commission booster pump complete with motor, coupling delivering 1,5l/s . One standby and one operational. Head: 40m	no	2		
	1,2	Pressure reducing valve to operate at 400kPa 50mm brass valve.	no	1		
	2	<u>DOMESTIC WATER TANK</u>				
	2,1	Manufacture, supply and erection of pressed steel galvanised tank a 30m³ storage tank complete with concrete foundation to include levelling and excavations.	no	1		
	3	<u>HOT WATER CIRCULATING PUMP</u>				
	3,1	Supply, install and commission domestic water circulating pump.	no	2		
	4	<u>STORM WATER PUMP</u>				
	4,1	Design, supply, install and commission storm water pumps with electric controls to pump storm water into municipal storm line. Volume: 50m³ Head: 40m One standby and one operational.	no	2		
	5	<u>SPINDLE SUMP PUMP</u>				
	5,1	Design, supply, install and commission vertical spindle pump with piping to be installed in the basement of the building in the case of flooding. Pumps to pump water into the storm water tank. Volume: 50m³ Head: 40m	no	4		
		CARRIED FORWARD TO NEXT PAGE				

SCHEDULE NO 5: INSTALLATION E: PUMPS SERVICES INSTALLATIONS

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Brought Forward					
	6	<u>LIFT PIT PUMP</u>				
	6.1	Design, supply, install and commission vertical spindle pump with piping to be installed in the lift pit in the case of flooding. Pumps to pump water into the storm water tank. Volume: 50m³ Head: 40m	no	4		
	7.00	<u>SUNDRIES</u>				
	7,1	Commissioning of the entire installation - Inclusive of integrity testing and issuing COC's for the entire installation.	Sum	1		
	7,2	12 month guarantee	Sum	1		
	7,3	Servicing and maintenance	Sum	1		
	7,4	3 sets of operating and maintenance manuals	ea	3		
	7,5	As built drawings	Sum	1		
	7,6	Training - Allow for the training of the employer's to enable them to be responsible for and capable of operating the plant.	Sum	1		
	7,7	Workshop drawings - for approval of installation prior to ordering equipment	Sum	1		
	CARRIED FORWARD TO SUMMARY					



public works
& infrastructure

Department:
Public Works and Infrastructure
REPUBLIC OF SOUTH AFRICA

SUNDUMBILI MAGISTRATE OFFICE: ADDITIONAL ACCOMMODATION

MECHANICAL WORKS – SUMMARY PAGE

SUMMARY - MECHANICAL WORKS

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Carried to Final Summary (Page FS1, Book 2 of 5)

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SUNDUMBILI MAGISTRATE OFFICE: ADDITIONAL ACCOMMODATION

BILLS OF QUANTITIES: FINAL SUMMARY

SUNDUMBILI MAGISTRATE OFFICE: ADDITIONAL ACCOMMODATION

FINAL SUMMARY PAGE

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FINAL SUMMARY CARRIED TO FORM OF OFFER AND ACCEPTANCE (DPW-07)				