

Department: Facilities

BOQ & SPECIFICATIONS FOR Solar Geysers on the NUST Hostels

SECTION BILL	PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			NOTES				
			The Tenderer is advised to refer to the "Model Preambles				
		1	for all Trades" and relevant SANS standards before pricing		0.0		
			this Bill.				
			a)The Contractor must attach at least two (2) reference				
			letters from various companies where similar services were				
			provided in the last three (3) years (2022-2024). The letter				
1		,	must be on a company letterhead indicating contact				
1		email ac referenc compan the conf	person, dates of service delivery, telephone number and email address and contract awarded amount. (Attach two				
			reference letters clearly indicating the dates when your				
			company executed works of similar nature and the value of				
			the contract awarded).				
			h) The Contractor must provide and of the contractor				
			b) The Contractor must provide proof of competence by submitting a certificate/letter of attendance or providing				
			the name of the technician who attended the training and				
			the date of the training from the Southern African				
			Renewable Heating and Cooling and Demonstration				
			Initiative (SOLTRAIN+) or the preceding Southern African				
			Solar Thermal Training & Demonstration Initiative				
			(SOLTRAIN) project through the Namibian Energy Institute				
			(NEI). NEI will verify the attendance from all their list trainings and attendance.				
			c) All solar geysers to be installed must include a 3-year				
			warranty (Contractor must attach letter of warranty from manufacturer or supplier.)				
			d)The Contractor must attach proof of valid certificates for a minimum of	;			
			three employees holding valid Working at Heights Certification and				
			Scaffolding Erection Certification.				
			e) The Contractor must provide proof of financial capacity to carry out the				
			solar geyser installation works by attaching a) proof from a commercial bank of credit facilities to the financial status of the Contractor's business				
			account and balance in N\$ at the time of bid submission.				
			F) Contractor MUST be registered with the Ministry of Mines and Energy				
1 1		3	1				
			Safe and secure installation on the roof of a two-story				
			structure, including necessary access equipment (e.g.,				
			scaffolding, harnesses) and adherence to fall protection				
			regulations.				
			Solar-rated piping (copper or PEX-AL-PEX) and all plumbing connections from the solar system to the internal building				
			plumbing.				
			All mounting hardware, including weather-resistant				
			brackets, rails, and fasteners suited for the specific roof				
			type (metal, tile, etc.).				
			Solar-rated piping and insulation, suitable for high-				
			temperature exposure				
1 1			Temperature and pressure safety relief valves				

		Non-return valves and isolating valves	
		Roof mounting brackets and supports, installed per manufacturer's instructions	
		All penetrations through the roof shall be sealed watertight and certified	ıt
		All works to comply with SANS 1307, SANS 10254 and relevant local authority regulations.	
		The system shall be installed by a qualified solar water heating technician and commissioned for full functionality Testing and demonstration of the complete system's performance to the Engineer or Principal Agent shall be included in the scope of work.	
1	1	No claim shall be entertained for incompatibility with roof types or structure; the Contractor shall make all allowance necessary to suit site conditions and roof structure.	
		NOTES:1. The Specialist Contractors (hereinafter referred	
1	1	to as the sub-contractor) will be an ordinary sub-contractor of the main contractor and will NOT be a nominated sub-contractor.2. Provisional Sums have been included in this Bill to cover the costs of such various specialist services as	
		may be required. These amounts are NETT and do not include for any builders discount.	
1	1	5 4. A further item has been included to allow the main	
1	1	contractor to price for attending upon the sub-contractors and these items will only be adjusted in the final account in the extent of such installations either increases or decreases.	
		5. Tenders for the various specialist sub-contract works included in this Bill will be asked from a number of sub-contractors mutually approved of by the client and main contractor. The tender documents will be prepared by the relevant consultant concerned whether this be the	
1	1	Architect, Quantity Surveyor or Consulting Engineer. Such quotations are to be delivered in sealed envelopes to a mutually agreed upon place by not later than a mutually	
		agreed upon date, whereupon the quotations will be opened and a recommendation for acceptance of a quotation will be made. Under no circumstances may the requirements hereof be deviated from and any tenders or quotations obtained directly by the main contractor in respect of any of the specialist sub-contract works contained in this Bill will be ignored.	
		The main contractor and sub-contractor will be require	d d
		to sign the Non-Nominated Form of Sub-Contract.7. The specialist services referred to herein form a part of this contract and all the conditions appertaining to the main	
	1	contract apply equally so to the sub-contracts.8. The main contractor is to allow hereinafter for any costs in connection herewith. 9. If expedient, two or more Provisional Sums may be combined into a single sub-	
		contract tender or a single Provisional Sum may be divided into two or more sub-contract tenders.	1

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				NOTES: 1.The Sub-Contractor shall satisfy himself that the					
				installation is in accordance with the specifications and					
				drawings and any variations that shall have been issued					
1	1	2	. 8	before requesting an inspection by the Engineer. 2. The					
				Sub-Contractor shall at his own expense provide all test					
				equipment and materials necessary for the carrying out of					
				the test.					
				3. Prior to the inspection the Sub-Contractor shall hand					
1	1	2	9	over to the Engineer all wiring diagrams, maintenance					
				manuals, operational guides, circuit drawings, etc					
				4. At practical completion the Sub-Contractor will be					
				issued with a certificate stating all the defects of the					
				installation or part thereof at that time. A 'Practical					
				Completion Certficate' will only be issued once all the defects have been rectified. 5. Only on issue of the					
				'Practical Completion Certificate' will the retention amount					
1	1	3	8	be reduced, the contract surety released and the guarantee					
				and maintenance period will commence from that date. 6.					
				The guarantee and maintenance period for all mechanical					
				and electrical installations will be 12 months and the final					
				retention amount will only be released at the expiry of this					
				period.					
	1	3		BILL NO 1					
				PRELIMINARIES	NO	1			
2	2			BILL NO 2					
2	2			SOLAR GEYSERS					
				NOTES The Tenderer is advised to refer to the "Model					
				Preambles for all Trades" before pricing this Bill.					
				· ·					
				Supply, delivery, and installation of Solahart 302L – 300L					
				Roof Top Solar Water Heating System					
				Provide and install Solahart 302L (300-litre) thermosiphon					
				solar water heating systems, complete with solar collector					
				panels and integrated storage tank, designed for rooftop					
				installation. The system must be suitable for high- performance operation in high solar radiation	NO	18			
				environments, with durable corrosion-resistant materials					
				for long life. Installation includes all plumbing connections,					
				solar-rated piping, fittings, valves, roof mounting brackets,					
				insulation, and necessary safety components (e.g.					
				temperature/pressure relief valves).					
				The system must comply with SABS and SANS standards for					
				solar water heating, and installation must include proper					
				orientation and tilt angle for optimal solar gain. Testing and					
				commissioning to be conducted upon completion to ensure full operation.					
				Tan operation.					
3	3	1	1	PRELIMINARIES	Page	3			
3	3	1	2	SOLAR GEYSERS	Page	3			
3	3	1		SUB-TOTAL	ST				
3	3	1	3	CONTINGENCIES	H1				
				Allow the contingent sum of N\$10,000.00 (Ten Thousand					
3	3	1		Dollars) for general contingencies to be used as directed by	Item	1.00	NAD	10,000.00	NAD 10,000.00
				the Principal Agent and to be deducted in part or whole if					
	2	1		not required	ст				
3	3	1		NETT INSTALLATION COST	ST				
3	3	1		ADD: VALUE-ADDED TAX (15%)	TAX	15.00			
3	3	1		TOTAL INSTALLATION COST	ST	13.50			
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