



BOQ & SPECIFICATIONS FOR PLUMBING AND DRAINAGE

SECTION	BILL	PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1		1		BILL NO 1				
1		1		PRELIMINARIES	NO	1		
1	1	1		BILL NO. 2				
1	1	1		PLUMBING AND DRAINAGE (PROVISIONAL)				
1	1	1		NOTES				
			11	<p>NOTES: The Tenderer is advised to refer to the "Model Preambles for all Trades" before pricing this Bill. SUPPLEMENTARY PREAMBLES uPVC pipes and fittings Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings. Soil, waste and vent pipes and fittings shall be solvent weld jointed uPVC pressure pipes and fittings</p> <p>All contractors submitting bids for the plumbing and drainage works must be registered members in good standing with the Construction Industry Federation of Namibia (CIF). A valid Certificate of Good Standing issued by the CIF must be submitted with the bid.</p> <p>Failure to submit this certificate will result in disqualification from the tender process</p> <p>2. All bidders must comply with the following mandatory staffing requirement: Qualified Plumbing Personnel: - Minimum of two (2) full-time, N3-qualified plumbers must be present on-site for the duration of the project. - Proof of qualifications (certified copies of N3 certificates or equivalent) must be submitted with the bid proposal.</p> <p>Failure to submit this certificate will result in disqualification from the tender process</p>				

			<p>Instructions</p> <p>Pipes for water supply shall be of the class stated. Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings. Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. B</p> <p>ends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints. Copper pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-siphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016.</p> <p>Only compression fittings shall be used in walls or in ground. Flush pans shall have straight or side outlets and "P" or "S" traps as necessary. Stainless steel basins, sinks, wash troughs, urinals, etc. Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable. Waste unions. Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings. Exposed concrete surfaces. Exposed surfaces of concrete stormwater channels, cover slabs,</p> <p>inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc. shall be finished smooth with plaster. Excavations. No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling.</p> <p>Soft rock and "hard rock" shall be as defined in "Earthworks". Laying, backfilling, bedding, etc. of pipes. Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions. Where no manufacturers' instructions exist, pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200L : Medium-pressure pipelines. LD : Sewers. LE : Stormwater drainage. Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches). Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes). Unless otherwise described, bedding of rigid pipes shall be class B bedding.</p>				
3	11						
3	11	1.0	<u>Sanitary Fixtures and Ancillaries:</u>				
3	11						
3	11						
3	11	1.1	Toilet suite's supply and installation. Elements: low level toilet box set (includes ELF cistern, mechanism, plastic seat) white equipped with pan collars and adhesives	No	40		
3	11	1.2	Supply & Installation W. Basins (oval) White Betta Iqwa / WCI208A - White 575x490mm Wall Hung Basin at bathrooms	No	40		
3	11	1.3	Supply & Installation of Benkiser 5188 - 1/2"x1/2" (15x15mm) Chrome Angle Valve Body	No	120		
3	11	1.4	Supply & Installation of HNC 1/2x1/2" 450mm				

	3	12		Long Fx Flexi Connector with Sleeve	No	120	
			1.5	Supply & Installation 80x cobra taps at W.Basins Cobra Star 211-15/NV 15mm Chrome Pillarcock Med Pattern	No	80	
	3	12					
	3	12	2	<u>Water Supply system:</u>			
	3	12	2.1	Supply and installaton copper pipes 15mmx38.5m pipes and fittings at 40 x bathrooms for cold and hot water supplies	m	1540	
	3	12	2.2	Supply & installation of 28mmx18m insulated copper pipes & fittings for hot water supplies from geysers to bathrooms	m	720	
	3	12	2.3	Supply and installation of 40x15mm Brass Gate Valve with fittings Compression / CxC at system	No	40	
2	3	12	2.4	Supply and installation of 40x28mm Brass Gate Valve & fittings Compression / CxC at system	No	40	
2	3	12	2.5	Supply & installation of central shower mixer 15mm Meissen Alvar / SL100AV - Single Lever Concealed Shower- / Bath Mixer at bathrooms	No	40	
2	3	12	2.6	Supply & installation of shower arm Meissen Edge Vos Shower Arm 150mmx15mm Chrome MVSAR150+ HNC Shower Head 85mm Round 1 Function HCSRR1rose at bathrooms	No	40	
2	3	12	2.7	Supply and installation Galvanized - 50mm x 18metre Length Medium Duty Pipe with fittings from main to bathrooms	m	720	
2			2.8	Supply & Instalation of AGX TBT 516/HPX0015 Hose Cobra 15mmx1/2" garden taps at washtroughs.	No	13	
2			2.9	Supply & installation of Economy ET102 double washtrough, 1030 x 430 x 300mm stainless Equiped with water supplies & sanitary pipes to sewer line	No	10	
2							
3			3	<u>Sanitary & Sewer System:</u>			
			3.1	Supply & Installation of sanitary pipes			
				waste system PVC 40mm X 18m with fittings from basin,shower to sewerline	m	720	
			3.2	Supply & Installation of sanitary pipes			
				waste system PVC 50mm X 18m with fittings	m	720	
			3.3	Supply & Installation of Brescia Shower Trap BSSTSSP 40x50mm S/S Square Top at bathrooms	m	40	
			3.4	Supply and installation of Viega 5726 / 103927 - 32mmx11/4" White PVC Combination Bottle Trap with fittings at W basins.	No	40	
		12	3.5	Supply and installation of sewer pipes with fittings			
				PVC 110mmx22 from bathrooms to sewer to the roof equiped with a two way 110mm vent valve	m	880	
			3.6	Supply and install ceramic toilet paper holder	No	40	
3		12		Testing			
				Allow for testing the whole of the sanitary plumbing installation	No	1	
	1	71	1	PRELIMINARIES	Page	1	
	1	71	2	PLUMBING AND DRAINAGE	Page	2	
	1	71		SUB-TOTAL	ST	0.00	

	1	71	CONTINGENCIES	H1	0.0		
	1	71	Allow the contingent sum of N\$50,000.00 (Fifty Thousand Namibian Dollars) for general contingencies to be used as directed by the Principal Agent and to be deducted in part or whole if not required	Item	1.00	NAD 50,000.00	NAD 50,000.00
	1	71	NETT CONSTRUCTION COST	ST			
	1	71	ADD: VALUE-ADDED TAX (15%)	TAX	15.00		
	1	71	TOTAL CONSTRUCTION COST	ST			