



NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
BILL 12 - MEASURED WORKS					
PLUMBING INSTALLATION					
SANITARY INSTALLATION					
12.1	Single bowl, double drainboard, galvanized kitchen sink; complete with waste outlet, tap and all necessary plumbing fixtures need to have it functional.	Nr	1		
12.2	WC suites; Armitage Shanks MAGNIA ref. 117924E; white glazed bowl 7.5 liters cistern with ball valve and fittings; Orion seat cover ref. 68890B1 or equally approved. Screwing cistern to backgrounds requiring plugging; bedding and pointing bowl in white cement and screwing to tiled concrete floor. Rate to include for all plumbing fixtures required to have it functional .	Nr	4		
12.3	Flushing cistern and urinal; Armitage Shanks 13.6 liters capacity with chromium plated flush pipes and or equally approved. Assembling and fixing pipes to cistern and urinal; fixing to background requiring plugging; screwing cistern and urinal to background requiring plugging.	Nr	1		
12.4	Vanity hand basin in Armitage Shanks Venice ref. 485014E with tap and brackets ref. 719200 & 729500 SC chromium plated waste rubber dug and chain or equally approved. Bedding basin in silicone sealant; bedding waste in plumbers mait; fixing clips to counter top framing.	Nr	2		
12.5	Allow for testing the installations for water tightness.	Sum	1		
12.6	Allow for connecting to existing water mains.	Sum	1		
12.7	Allow for the supply and installation of 1No. 0.5 HP industrial water pump (pressure pump, Myers or equivalent brand) including for all plumbing works to allow for the piping of water from the water supply main to the storage tanks (all tanks to be linked), pumping of water from tanks to sanitary facilities (all tanks to be linked) and piping of water from top tanks to supply washrooms. Rate to include for 3/4" dia pipes, float valve to each tank for filling of tanks, overflow pipe works from each tank to external drainage and isolation valve for each tank in case of need for shut off. Include for all unions, ball valves, stop valves, etc, associated with the works. All fittings to be pressure fittings.	Sum	1		
12.8	Allow for a provisional sum for all pipework, fittings, and accessories associated with channeling wastewater from the building to the existing internal drain located at the southern end of the site not exceeding 75'-0" from the building (see dwg 20.9 Plumbing details).	Prov .sum		250,000	250,000
HOT/COLD WATER SUPPLY					
12.9	Water tanks; Rotoplastic brand; 1000 gallons storage tanks and include for all necessary fittings which must be all pressure fittings.	Nr	4		
RAINWATER INSTALLATION					
Rainwater Installation - Guttering to be leveled to allow for efficient flow of water to outlets, brackets to be spaced at 16" crs, downpipe to be 4" square PVC, downpipe to lead to surface drains, downpipes to back of building to be lead to storage tanks					
12.1	PVC Gutters, 6" wide with solvent cement joints in the running length in standard fascia brackets at 16" centres	Ln.yds	20		
12.11	Provide and fix stop ends.	Nr	6		
12.12	Provide for outlets with nozzle for 4" diameter down pipes.	Nr	2		
12.13	Provide and fix internal / external corners.	Nr	2		
12.14	Rainwater down pipe 6" dia. and screwed to concrete with brackets.	Ln.yds	145		
12.15	6" dia. Pvc bends .	Nr	24		
12.16	The contractor is to allow here for builder's works, including cutting holes, sleeves, forming openings, chasing walls and the like, making good all surfaces disturbed including finishes to match existing surface formed during construction	Sum	1		
12.17	<u>Protection</u> Protection of works in this section	Sum	1		
PLUMBING INSTALLATION TO SUMMARY					