

Item No.	Description	Qty	Unit	Rate	Amount
9.0	BILL NO: 09- PLUMBING WORK				
	GENERAL NOTES				
A	The extent of the work as provided for in this bill of	Note	.....		.....
B	Complying with the relevant Sri-Lanka or British	Note	.....		.....
C	Rates for all items shall be inclusive of the following.				
	a. All necessary scaffoldings.	Note	.....		.....
	b. All related temporary works	Note	.....		.....
	c. Providing of samples, tests, specimens etc	Note	.....		.....
D	PERMANENT WATER CONNECTION				
	It is the responsibility of the Contractor to ensure that	Note	.....		.....
E	EXCAVATOR				
	Rate shall include for:-				
	a. Levelling bottom of trenches				
	b. Back filling with selected excavated material & consolidating	Note	.....		.....
	c. Dewatering as necessary	Note	.....		.....
	d. Planking and strutting as required Working space as required	Note	.....		.....
F	CONCRETE , FORM WORK,				
	REINFORCEMENTS, & MASONRY WORK				
	All the "Preamble Notes" given under similar headings elsewhere in this BOQ are applicable for this section also.	Note	.....		.....
G	PLUMBING AND DRAINAGE WORK				
	Rate shall include for all screws, nails, clips, saddles, brackets, thrust blocks or any such accessories required for the installation.	Note	.....		.....
H	Rate for piping shall include for all the bends, tees, cleaning eyes, reducers, junctions etc. and for testing of each length of piping.	Note	.....		.....
I	Rates for pipes laid underground shall include for necessary excavation to required gradient, 1:3:6 (20) mix concrete bedding, sand filling up to 300mm above the crown of pipe,, back filling and disposal of surplus excavated material	Note	.....		.....
J	All the internal PVC piping shall be of type 1000/600 as directed.	Note	.....		.....
K	All the down runs and piping laid underground shall be of type600 as directed.	Note	.....		.....
L	All the work shall conform to the requirements of the relevant Local Authorities.	Note	.....		.....
	SANITARY FITTINGS				

M	Rate for Wash basins, vanity basin, bidets, closets & bath tubs shall include for chromium plated taps, traps and flexible connections and stop cocks as required.	Note	.....	.....
N	Rates for sanitary fittings shall also include for back boards, brass screws, supporting brackets and fixing material as required.	Note	.....	.....
O	Glazed ware provided under this contract shall be new, without defects and of best quality, type and manufacture to the entire satisfaction of the Consultant. As a standard of quality the contractor shall select from "American Standards". or ideal standard.	Note	.....	.....
P	All the showers, mixers, taps etc used in sanitary fittings shall be of "PLUMBER" of India or COBRA of South Africa.	Note	.....	.....
Q	All the valves used under this Contract shall be "GROHER" OR APPROVED BRAND	Note	.....	.....
	PUMPS			
R	All the centrifugal pumps used under this Contract shall be of "Centric" or an equivalent make. (Jinasena)	Note	.....	.....
	WATER SUPPLY AND SEWAGE DISPOSAL SYSTEM			
S	The Contractor is requested to refer "GENERAL NOTES" and "GENERAL PREAMBLE NOTES" prior to pricing of the following items.	Note	.....	.....
	SEWERAGE			
i	All drainage specials shall be of BS 5255 & 3943 or equivalent.			
ii	All exposed sewer pipe lines shall be properly fixed to slab / beams with GI brackets at 300mm c/c and brackets shall be painted with one coat of eche primer and two coats of matt enamel pain to the specified colour.	Note		
iii	No 90 deg bends to sewer lines and laying shall be as per the stands and at every corner / connection point a cleaning eye shall be installed	Note		
iv	To supplying & installing Sewer piping uPVC & specials from toilets at each level through duct to up to the MAIN SEWERLINE with all cleaning eye's & specials as instructed by the consultant	Note		
	WATER SUPPLY			
9.1	INTERNAL PIPING - COLD WATER			

	To supplying & installing water piping uPVC & specials from roof top plastic tanks to distribution complete with all control valves & specials as indicated in the drawings -			
a)	20mm Dia. uPVC pipe - type 1000	m	155.00	-
b)	25mm Dia. uPVC pipe - type 1000	m	247.00	-
c)	32mm Dia. uPVC pipe - type 1000	m	306.00	-
d)	40mm Dia. uPVC pipe - type 1000	m	407.00	-
e)	50mm Dia. uPVC pipe - type 1000	m	566.00	-
				-
				-
9.5	GATE VALVES			-
a)	50mm Dia. brass/ bronze gate valve	Nos	4,484.00	-
b)	40mm Dia. brass/ bronze gate valve	Nos	3,953.00	-
c)	32mm Dia. brass/ bronze gate valve	Nos	3,422.00	-
d)	25mm Dia. brass/ bronze gate valve	Nos	2,419.00	-
e)	20mm Dia. brass/ bronze gate valve	Nos	2,242.00	-
				-
9.6	SEWER			-
	INTERNAL PIPING - SEWER			-
i	All drainage specials shall be of BS 5255 & 3943 or equivalent.			-
ii	All exposed sewer pipe lines shall be properly fixed to slab / beams with GI brackets at 300mm c/c and brackets shall be painted with one coat of eche primer and two coats of matt enamel pain to the specified colour.	Note		-
iii	No 90 deg bends to sewer lines and laying shall be as per the stands and at every corner / connection point a cleaning eye shall be installed	Note		-
				-
				-
9.6.1	To supplying & installing Sewer piping uPVC & specials from toilets at each level through duct to up to the MAIN SEWERLINE with all cleaning eye's & specials as indicated in the drawings. All brackets shall be of GI and to be fixed at 600mm c/c on vertical surfaces.			-
a)	160mm Dia. uPVC pipe - type 600	m	3,715.00	-
b)	- do - 110mm Dia. uPVC pipe - type 600	m	1,935.00	-
				-
				-
9.7	INTERNAL AND EXTERNAL PIPING - WASTE WATER			-
	To supplying & installing waste water disposal piping net work embedded in walls from uPVC including sockets and specials			-
a)	40mm Dia uPVC- type 600	m	619.00	-
b)	50mm Dia Type 600 uPVC	m	702.00	-
c)	63mm Dia Type 600 uPVC	m	928.00	-
d)	90mm Dia Type 600 uPVC	m	1,548.00	-
e)	110mm Dia Type 600 uPVC	m	1,935.00	-
				-
				-
	MANHOLES - SEWER			-

9.8	450 x 450 mm(internal) manhole, with IL and GL as shown on drawings including precast R.C.C slab cover and all necessary 100mm thk concrete base slab, 225mm brick work with smooth plaster finish in cement and sand (1:3) on internal walls. Rate shall include for all the necessary excavation, back filling and forming channels and benching to required gradient, all as per relevant detailed drawings and specifications.	No		15,930.00	-
9.9	600x 600 mm (internal) IT manhole, with IL and GL as shown on drawings including precast R.C.C slab cover and all necessary 50mm concrete base slab, 225mm brick work with smooth plaster finish in cement and sand (1:3) on internal walls. Rate shall include for all the necessary excavation, back filling and forming channels and benching to required gradient, all as per relevant detailed drawings and specifications.	No		18,290.00	-
	MANHOLES - WASTE				-
9.10	300x 300 mm (internal) gully, with IL and GL as shown on drawings including precast R.C.C slab cover and all necessary 50mm concrete base slab, 112.5mm brick work with smooth plaster finish in cement and sand (1:3) on internal walls. Rate shall include for all the necessary excavation, back filling and forming channels and benching to required gradient, all as per relevant detailed drawings and specifications.	Nos		11,564.00	-
9.11	300x 300 mm (internal) trapped gully, with IL and GL as shown on drawings including precast R.C.C slab cover and all necessary 50mm concrete base slab, 112.5mm brick work with smooth plaster finish in cement and sand (1:3) on internal walls. Rate shall include for all the necessary excavation, back filling and forming channels and benching to required gradient, all as per relevant detailed drawings and specifications.	Nos		11,800.00	-
	SANITARY FITTINGS				-
9.12	Supply and fixing low level water closet (standard type) with s or p trap "American Standards " or equivalent complete with 9lts capacity flushing cistern seal cover connection to water supply , valves with flexible hose, fittings and complete set in working order. (cistern shall be of dual flush system)				-
a)	In ground floor	Nos	10.00	24,899.00	248,990.00
b)	In first floor	Nos	19.00	24,899.00	473,081.00
c)	In second floor	Nos	19.00	24,899.00	473,081.00
d)	In third floor	Nos	19.00	24,899.00	473,081.00

9.15	Supplying and installation of ceramic Vanity basin "American standards" or approved quality and others complete with brackets, stainless steel single pillar tap (press type) of approved manufacture, waste outlet, waste plug, chromium plated chain, chromium plated bottle trap, flexible hose and angle valve inclusive of all the connections to complete.				-
a)	In ground floor	Nos	10.00	12,980.00	129,800.00
b)	In first floor	Nos	18.00	12,980.00	233,640.00
c)	In second floor	Nos	18.00	12,980.00	233,640.00
d)	In third floor	Nos	18.00	12,980.00	233,640.00
9.21	Supply and installation of ceramic, urinals "AMERICAN STANDARS" or approved quality complete with Stainless steel P traps with cleaning eye and with SS flush valve for each of approved make and inclusive of all connections and accessories to working order.				
d)		Nos		15,286.00	-
9.27	Supply and fix of approved quality polished mirror pencil edged fixed on to wall with stainless steel studs.				
d)	size 600 x 1200mm - toilet executive (F)- Ground floor	Nos		6,602.00	-
x)	size 1800 x 1200mm - toilet hostel- second floor	Nos		21,789.00	-
9.28	Supply and installation of hand bidet shower (GROHER or of approved manufacture) with flexible hose, angle valve and holding brackets on wall				
a)	In ground floor	Nos	10.00	3,829.00	38,290.00
b)	In first floor	Nos	19.00	3,829.00	72,751.00
c)	In second floor	Nos	19.00	3,829.00	72,751.00
d)	In third floor	Nos	19.00	3,829.00	72,751.00
9.29	Supply and fixing of Soap tray (Glass tray on on stainless Steel frame/hold)				
a)	In ground floor	Nos	10.00	2,094.00	20,940.00
b)	In first floor	Nos	18.00	2,094.00	37,692.00
c)	In second floor	Nos	18.00	2,094.00	37,692.00
d)	In third floor	Nos	18.00	2,094.00	37,692.00
9.30	Supply and installation of toilet paper holder - Stainless Steel				
a)	In ground floor	Nos	10.00	2,183.00	21,830.00
b)	In first floor	Nos	19.00	2,183.00	41,477.00
c)	In second floor	Nos	19.00	2,183.00	41,477.00
d)	In third floor	Nos	19.00	2,183.00	41,477.00
9.31	Supply and installation of Shower - Stainless Steel				

a)	In first floor	Nos	54.00	2,950.00	159,300.00
b)	In second floor	Nos	54.00	2,950.00	159,300.00
c)	In third floor	Nos	54.00	2,950.00	159,300.00
9.32	Supply and installation of bip tap - Stainless Steel				
a)	In first floor	Nos	54.00	1,650.00	89,100.00
b)	In second floor	Nos	54.00	1,650.00	89,100.00
c)	In third floor	Nos	54.00	1,650.00	89,100.00
Kitchen Fittings					
9.49	Supply & install of 1615 X 600 mm stainless steel Double Drain Kitchen Sink with Swan neck sink tap, bottle trap, sink waste and necessary plumbing works with all accessories.	No	2.00	22,850.00	45,700.00
WATER TANKS					
Overhead tanks					
9.49	Supply & install of 5000 lit plastishell overhead water tanks. Rate shall include for 300mm high plinth made of 225mm brick work with 100mm thick RCC slab with T10 at 150 c/c both side (including form work), necessary plumbing works with all accessories.	No	2.00	100,300.00	200,600.00
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				-	-
				-	-
Total to Main Summery					4,027,273.00