

ANNEXURE A

Replacement of Damage Existing Water Line at CGRL Residential Area, Colaba Campus

S. No.	Description of Item	Unit	Quantity	Rate	Amount
1	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work				
1.1	50 mm dia nominal bore	Meter	210	762.15	160051.5
2	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work				
2.1	20 mm dia nominal bore	Meter	130	274.3	35659
3	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall				
3.1	20 mm nominal dia Pipes	Meter	135	335	45225
4	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
4.1	20 mm nominal bore	Each	20	462.5	9250
5	Providing and fixing brass stop cock of approved quality : 20 mm nominal bore	Each	20	379.2	7584
6	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 50 mm nominal bore	Each	2	1026.65	2053.3
7	Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality :				
7.1	50 mm diameter pipe	Meter	210	30.5	6405
8	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Litre	4000	11	44000
9	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
9.1	15 mm nominal bore	Each	8	506.8	4054.4
	Non Schedule Item				
10	Making connection of CPVC distribution branch with G.I. main by providing and fixing tee, including cutting and threading the pipe etc. complete :	Each	20	450	9000

11	<p>Providing and laying water proofing coating on concrete roof slabs, terraces, parapet wall, chajjas etc. by applying single component extremely tough PU based liquid water proofing coating with upto 4mm crack bridging, VOC level 15-45 gm/litre and solid content 60%, applied to achieve Dry Film Thickness (DFT) of 600 to 800 micron in two coats over a self-priming coat of PU with 30% water dilution applied as per manufacturers specifications over base concrete having water permability $\leq 15\text{ml/m}^2/\text{day}$, tensile strength $\geq 14\text{ Mpa}$, pull off adhesion strength $\geq 1.5\text{ Mpa}$, QUV > 2500 hours, elongation at 300 +/- 50% at a DFT of 200 Microns, hydro static pressure of upto 12 bar +ve and combined system providing excellent anti-carbonation, high alkaline resistance, washability passes 4000 cycles with IS test method and application as per manufacturer recommended application procedure. including preparation of concrete surface by removing of Non woven Polyester / Polypropylene net/ Bituminous coating applied prior to this should be scraped off completely and replastering of damaged cement plaster from parapet, rectification of slop if required, fill up all minor cracks and defects with suitable aquatic crack filler or repair mortar prepared with aquatic waterproof polymer or equivalent, all complete with material labour and machinery required, as per manufacturers specifications and directions of competent authority. Manufacturer to provide stage wise approval</p> <p>after completion of each stage i.e surface preparation, self priming coat application and 1st. & 2nd. coat application & also provide warranty certificate after completion of job. (Treatment to carry minimum 10 years guarantee and 10% amount will be with held for 10 years)</p>	Sqm	50	1180	59000
	Total				3,82,282.20
	Modified Estimated Cost after using correction factor on DSR 2023 on account of GST @ $0.973 \times 3,14,282 = 3,05,797.00$				3,73,797.00
	Add Cost Index @ 16% on SR&DR Total 3,54,724.00				4,22,724.00
	Grand Total				4,22,724.00
	Say				4,22,724.00