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32 mm 4.0 Supplying, supports in ready factory made G.I slotted wall brackets OR MS Fabricated angle brackets supports with channelled rails upto 4mm thick, used to fix pipes with threaded rods for necessary lengths, fastening with screwed end anchor type bolts, clamps arrange for scaffolding, support system etc for erection in contractor scope etc all of approved makes 5.0 Supply and fixing of lever operated Forged bronze or Brass Threaded Ball values of approved make and provided with stainless stee ball (ARIS 304) and spindle (ARIS 410), glass filled Tellon seating and gland packing etc., complete. The valve shall be fixed after the union of PVC as per standard practices. The quoted rate shall also include the cost of the union, nipples etc any specials, complete. 25mm dia (Screwed ends) 32 mm dia (Screwed ends) 32 mm dia (Screwed ends) 40 mm dia (Screwed ends) 50 mm dia (Screwed ends) Nos 22.00 6.0 Providing fixing, testing and commissioning of approved make Butterfly valves BV with the following specifications: Body: Ductlic inor, Cast rion, Disc: Cast steel / Spheroidal Graphite iron with EPDM inner, Seal-Black Nitrile / EPDM Stem Seal: Black Nitrile / EPDM with WRAS approved *O* Ring Bnds: Lugged type flanges Shafts: SS - 304 Pressure rating: PN - 10 Fittings: Ide nipples, union, collars, brass adopters etc. Hand lever: Cast iron Standard: BS 51.55 /MF6 standards Fittings: GI Flanges as per BS-10 table 1, Biolis, Nuts, Neoprene rubber gaskets etc., 50 mm dia Nos. 6.00 80 mm dia Nos. 80 50 mm dia Nos RO 50 mm dia Nos RO 50 mm dia Nos A.00 Nos RO 50 mm dia Nos A.00 Nos RO 50 mm dia Nos A.00 Nos A.00 Nos RO 50 pupplying, installing and testing approved make Bass or forged bronze Non return Valves for pumps conforming to relevent IS standards with unions etc., complete.								
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brackets supports with channelled rails upto 4mm thick , used to fix pipes with threaded rods for necessary lengths, fastening with screwed end anchor type bolts, clamps arrange for scaffolding, support system etc for erecetion in contractor scope etc all of approved makes 5.0 Supply and fixing of lever operated Forged bronze or Brass Threaded Ball valves of approved make and provided with stainless steel ball (AISI 304) and spindle (AISI 410), glass filled Tellon seating and gland packing etc., complete. The valve shall be fixed after the union of PVC as per standard practices . The quoted rate shall also include the cost of the union, nipples etc any specials, complete. 2.5mm dia (Screwed ends) 3.2 mm dia (Screwed ends) Nos 20.00 4.0 mm dia (Screwed ends) Nos 24.00 5.0 mm dia (Screwed ends) Nos 22.00 6.0 Providing fixing, testing and commissioning of approved make Butterfly valves BV with the following specifications: Body: Ductle Iron / Cast iron, Disc: Cast steel / Spheroidal Graphite iron with EPDM inner, Seal: Black Nitrile / EPDM Sem Seal: Black Nitrile / EPDM with WRAS approved "O" Ring Ends: Lugged type flanges Shafts: SS - 304 Pressure rating: PN - 10 Fittings: Hex nipples, union, collars, brass adopters etc, Hand lever : Cast tron Standard: BS 155 / MF6 standards Fittings: GI Flanges as per BS-10 table 1, Bolts, Nuts, Neoprene rubber gaskets etc., 5.0 mm dia Nos. RO 7.0 Supplying, installing and testing approved make , MOC Brass or C.I Y - strainer with chuck nuts, with G.I filter and threaded y opening used for pumps manifold conforming to relavent IS standards with necessary nuts and bolts, neoprene rubber gaskets, flanges, etc., complete. Nos. RO 5.0 mm dia Nos 4.00 Nos 4.00 Nos 4.00 Nos 4.00 Dumm dia Nos 4.00 Nos 4.00 Dumps conforming to relavent IS standards with unions etc., complete.								
for necessary lengths, fastening with screwed end anchor type bolts, clamps arrange for scaffolding, support system etc for erection in contractor scope etc all of approved makes 5.0 Supply and fixing of lever operated Forged bronze or Brass Threaded Ball valves of approved make and provided with stainless steel ball (AISI 304) and spinide (AISI 410) glass filled Teflon seating and gland packing etc., complete. The valve shall be fixed after the union of PVC as per standard practices. The quoted rate shall also include the cost of the union, nipples etc any specials, complete. 25mm dia (Screwed ends) 32 mm dia (Screwed ends) Nos 20.00 40 mm dia (Screwed ends) Nos 22.00 6.0 Providing, fixing, testing and commissioning of approved make Butterfly valves BV with the following specifications: Body: Duttile iron / Cast iron, Disc: Cast steel / Spheroidal Graphite iron with EPDM inner, Seal: Black Nitrile / EPDM Stem Seal: Black Nitrile / EPDM Stem Seal: Black Nitrile / EPDM with WRAS approved "O" Ring Ends: Lugged type flanges Shafts: SS - 304 Pressure rating: PN - 10 Fittings: Hex nipples, union, collars, brass adopters etc, Hand lever: Cast trion Standard is S5 155 / MF6 standards Fittings: Gi Flanges as per BS-10 table 1, Bolts, Nuts, Neoprene rubber gaskets etc. 50 mm dia Nos. 6.00 80 mm dia Nos. RO 50 mm dia Nos RO 80 mm dia Nos RO 80 mm dia Nos RO 80 mm dia Nos RO 90 mm dia Nos RO 80 mm dia Nos RO 90 mm dia Nos RO 100 mm dia Nos RO 100 mm dia Nos RO	4.0	Supplying, supports in ready factory made G.I slotted wall brackets OR MS Fabricated angle						
for necessary lengths, fastening with screwed end anchor type bolts, clamps arrange for scaffolding, support system etc for erection in contractor scope etc all of approved makes and provided with stainless steel ball (AISI 304) and spindle (AISI 410), glass filled Tefon seating and gland packing etc., complete. 25mm dia (Screwed ends)		brackets supports with channelled rails upto 4mm thick , used to fix pipes with threaded rods	Vaa	1 210 00				
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5.0 Supply and fixing of lever operated Forged bronze or Brass Threaded Ball valves of approved make and provided with stainless steel ball (AISI 304) and spindle (AISI 410), glass filled Teflon seating and gland packing etc., complete. The valve shall be fixed after the union of PVC as per standard practices. The quoted rate shall also include the cost of the union, nipples etc any specials, complete. 2.5mm dia (Screwed ends) 3.2 mm dia (Screwed ends) 4.0 mm dia (Screwed ends) 5.0 mm dia (Screwed ends) 6.0 Providing, fixing, testing and commissioning of approved make Butterfly valves BV with the following specifications: Body: Ductile iron / Cast iron, Disc: Cast steel / Spheroidal Graphite iron with EPDM inner, Seal: Black Nitrile / EPDM stem Seal:		scaffolding support system etc for erection in contractor scope etc all of approved makes						
make and provided with stainless steel ball (AISI 304) and spindle (AISI 410), glass filled Teflon seating and gland packing etc., complete. The valve shall be fixed after the union of PVC as per standard practices . The quoted rate shall also include the cost of the union, nipples etc any specials, complete. 2.5mm dia (Screwed ends) 3.2 mm dia (Screwed ends) Nos 20.00 4.0 mm dia (Screwed ends) Nos 24.00 5.0 mm dia (Screwed ends) Nos 22.00 6.0 Providing, fixing, testing and commissioning of approved make Butterfly valves BV with the following specifications: Body: Ductile iron / Cast iron, Disc: Cast steel / Spheroidal Graphite iron with EPDM inner, Seal: Black Nitrile / EPDM Stem Seal: Black Nitrile / EPDM with WRAS approved "O" Ring Ends: Lugged type flanges Shafts: SS - 304 Pressure rating: PN - 10 Fittings: Her nipples, union, collars, brass adopters etc, Hand lever: Cast iron Standard: BS 5155 MF6 standards Fittings: GI Flanges as per BS-10 table 1, Bolts, Nuts, Neoprene rubber gaskets etc., 5.0 mm dia Nos. RO 7.0 Supplying, installing and testing approved make , MOC Brass or C.I Y - strainer with chuck nuts, with G.I filter and threaded y opening used for pumps manifold conforming to relavent IS standards with necessary nuts and bolts, neoprene rubber gaskets, flanges, etc., complete. So mm dia Nos A.00 7.5mm dia Nos A.00 Nos A.00 Supplying, installing and testing approved make Brass or forged bronze Non return Valves for pumps conforming to relavent IS standards with unions etc., complete.		seamoranis, support system etc for effection in conductor scope etc an or approved makes						
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specials, complete. 25mm dia (Screwed ends) 32 mm dia (Screwed ends) Nos 32.00 40 mm dia (Screwed ends) 50 mm dia (Screwed ends) 6.0 Providing, fixing, testing and commissioning of approved make Butterfly valves BV with the following specifications: Body: Ductile iron / Cast iron, Disc: Cast steel / Spheroidal Graphite iron with EPDM inner, Seal: Black Nitrile / EPDM Stem Seal: Black Nitrile / EPDM with WRAS approved "O" Ring Ends: Lugged type flanges Shafts: SS - 304 Pressure rating: PN - 10 Fittings: Hex nipples, union, collars, brass adopters etc., Hand lever: Cast iron Standard: BS 5155 /MF6 standards Fittings: GI Flanges as per BS-10 table 1, Bolts, Nuts, Neoprene rubber gaskets etc., 50 mm dia Nos. RO 7.0 Supplying, installing and testing approved make , MOC Brass or C.I Y - strainer with chuck nuts, with G.I filter and threaded y opening used for pumps manifold conforming to relavent IS standards with necessary nuts and bolts, neoprene rubber gaskets, flanges, etc, complete. 50 mm dia Nos 4.00 75mm dia Nos 4.00 Nos RO Supplying, installing and testing approved make Brass or forged bronze Nor return Valves for pumps conforming to relavent IS standards with unions etc., complete.								
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40 mm dia (Screwed ends) 50 mm dia (Screwed ends) Nos 24.00 Nos 22.00 6.0 Providing, fixing, testing and commissioning of approved make Butterfly valves BV with the following specifications: Body: Ductile iron / Cast iron, Disc: Cast steel / Spheroidal Graphite iron with EPDM inner, Seal: Black Nitrile / EPDM Stem Seal: Black Nitrile / EPDM with WRAS approved "0" Ring Ends: Lugged type flanges Shafts: SS - 304 Pressure rating: PN - 10 Fittings: Hex nipples, union, collars, brass adopters etc, Hand lever: Cast iron Standard: BS 1515 / MF6 standards Fittings: GI Flanges as per BS-10 table 1, Bolts, Nuts, Neoprene rubber gaskets etc., 50 mm dia Nos. 65 mm dia Nos. 6.00 80 mm dia Nos. 7.0 Supplying, installing and testing approved make , MOC Brass or C.I Y - strainer with chuck nuts, with GI filter and threaded y opening used for pumps manifold conforming to relavent IS standards with necessary nuts and bolts, neoprene rubber gaskets, flanges, etc., complete. 50 mm dia Nos Nos RO 55 mm dia Nos Nos RO 55 mm dia Nos Nos RO 55 mm dia Nos A.00 75 mm dia Nos A.00 75 mm dia Nos Nos RO Supplying, installing and testing approved make Brass or forged bronze Non return Valves for pumps conforming to relavent IS standards with unions etc., complete.								
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6.0 Providing, fixing, testing and commissioning of approved make Butterfly valves BV with the following specifications: Body: Ductile iron / Cast iron, Disc: Cast steel / Spheroidal Graphite iron with EPDM inner, Seal: Black Nitrile / EPDM stem Seal: Black Nitrile / EPDM with WRAS approved "O" Ring Ends: Lugged type flanges Shafts: SS - 304 Pressure rating: PN - 10 Fittings: Hex nipples; Hex nipples; Hex nipples; Hex nipples with or Ring Ends: Lugged type flanges Shafts: SS - 304 Pressure rating: PN - 10 Fittings: Hex nipples; Hex nipples; Hex nipples; Hex nipples with or Ring Robert Page of Rober								
following specifications: Body: Ductile iron / Cast iron, Disc: Cast steel / Spheroidal Graphite iron with EPDM inner, Seal: Black Nitrile / EPDM Stem Seal: Black Nitrile / EPDM with WRAS approved "0" Ring Ends: Lugged type flanges Shafts: SS - 304 Pressure rating: PN - 10 Fittings: Hex nipples, union, collars, brass adopters etc, Hand lever: Cast iron Standard: BS 5155 / MF6 standards Fittings: GI Flanges as per BS-10 table 1, Bolts, Nuts, Neoprene rubber gaskets etc., 50 mm dia Nos. 6.00 80 mm dia Nos. 6.00 7.0 Supplying, installing and testing approved make , MOC Brass or C.I Y - strainer with chuck nuts, with G.I filter and threaded y opening used for pumps manifold conforming to relavent IS standards with necessary nuts and bolts, neoprene rubber gaskets, flanges, etc, complete. 50 mm dia Nos RO 65mm dia Nos A.00 75mm dia Nos 4.00 100mm dia Nos RO 8.0 Supplying, installing and testing approved make Brass or forged bronze Non return Valves for pumps; conforming to relavent IS standards with unions etc., complete.								
Body: Ductile iron / Cast iron, Disc: Cast steel / Spheroidal Graphite iron with EPDM inner, Seal: Black Nitrile / EPDM Stem Seal: Black Nitrile / EPDM with WRAS approved "O" Ring Ends: Lugged type flanges Shafts: SS - 304 Pressure rating: PN - 10 Fittings: Hex nipples, union, collars, brass adopters etc, Hand lever: Cast iron Standard: BS 5155 /MF6 standards Fittings: GI Flanges as per BS-10 table 1, Bolts, Nuts, Neoprene rubber gaskets etc., 50 mm dia								
Black Nitrile / EPDM Stem Seal: Black Nitrile / EPDM with WRAS approved "O" Ring Ends: Lugged type flanges Shafts: SS - 304 Pressure rating: PN - 10 Fittings: Hex nipples, union, collars, brass adopters etc, Hand lever: Cast iron Standard: BS 5155 /MF6 standards Fittings: GI Flanges as per BS-10 table 1, Bolts, Nuts, Neoprene rubber gaskets etc., 50 mm dia								
type flanges Shafts: SS - 304 Pressure rating: PN - 10 Fittings: Hex nipples, union, collars, brass adopters etc, Hand lever: Cast iron Standard: BS 5155 /MF6 standards Fittings: GI Flanges as per BS-10 table 1, Bolts, Nuts, Neoprene rubber gaskets etc., 50 mm dia Nos. RO 65 mm dia Nos. RO 7.0 Supplying, installing and testing approved make , MOC Brass or C.I Y - strainer with chuck nuts, with G.I filter and threaded y opening used for pumps manifold conforming to relavent IS standards with necessary nuts and bolts, neoprene rubber gaskets, flanges, etc, complete. 50 mm dia Nos RO 65mm dia Nos 4.00 75mm dia Nos 4.00 Nos RO 8.0 Supplying, installing and testing approved make Brass or forged bronze Non return Valves for pumps conforming to relavent IS standards with unions etc., complete.								
adopters etc, Hand lever: Cast iron Standard: BS 5155 /MF6 standards Fittings: GI Flanges as per BS-10 table 1, Bolts, Nuts, Neoprene rubber gaskets etc., 50 mm dia Nos. RO 65 mm dia Nos. RO 80 mm dia Nos. RO 7.0 Supplying, installing and testing approved make , MOC Brass or C.I Y - strainer with chuck nuts, with G.I filter and threaded y opening used for pumps manifold conforming to relavent IS standards with necessary nuts and bolts, neoprene rubber gaskets, flanges, etc, complete. 50 mm dia Nos RO 65mm dia Nos 4.00 75mm dia Nos 4.00 100mm dia Nos RO Supplying, installing and testing approved make Brass or forged bronze Non return Valves for pumps conforming to relavent IS standards with unions etc., complete.								
BS-10 table 1, Bolts, Nuts, Neoprene rubber gaskets etc., 50 mm dia Nos. RO 65 mm dia Nos. 6.00 80 mm dia Nos. RO 7.0 Supplying, installing and testing approved make , MOC Brass or C.I Y - strainer with chuck nuts, with G.I filter and threaded y opening used for pumps manifold conforming to relavent IS standards with necessary nuts and bolts, neoprene rubber gaskets, flanges, etc, complete. 50 mm dia Nos RO 65mm dia Nos 4.00 75mm dia Nos 4.00 Nos RO 100mm dia Nos RO 8.0 Supplying, installing and testing approved make Brass or forged bronze Non return Valves for pumps conforming to relavent IS standards with unions etc., complete.								
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80 mm dia Nos. RO Supplying, installing and testing approved make , MOC Brass or C.I Y - strainer with chuck nuts, with G.I filter and threaded y opening used for pumps manifold conforming to relavent IS standards with necessary nuts and bolts, neoprene rubber gaskets, flanges, etc, complete. 50 mm dia Nos RO 65mm dia Nos 4.00 75mm dia Nos 4.00 100mm dia Nos RO Supplying, installing and testing approved make Brass or forged bronze Non return Valves for pumps conforming to relavent IS standards with unions etc., complete.		50 mm dia	Nos.					
7.0 Supplying, installing and testing approved make , MOC Brass or C.I Y - strainer with chuck nuts, with G.I filter and threaded y opening used for pumps manifold conforming to relavent IS standards with necessary nuts and bolts, neoprene rubber gaskets, flanges, etc, complete. So mm dia Nos 65mm dia Nos 75mm dia Nos 100mm dia Nos RO 8.0 Supplying, installing and testing approved make Brass or forged bronze Non return Valves for pumps conforming to relavent IS standards with unions etc., complete.								
with G.I filter and threaded y opening used for pumps manifold conforming to relavent IS standards with necessary nuts and bolts, neoprene rubber gaskets, flanges, etc, complete. 50 mm dia Nos 75mm dia Nos 100mm dia Nos 8.0 Supplying, installing and testing approved make Brass or forged bronze Non return Valves for pumps conforming to relavent IS standards with unions etc., complete.		80 mm dia	Nos.	RO				
with G.I filter and threaded y opening used for pumps manifold conforming to relavent IS standards with necessary nuts and bolts, neoprene rubber gaskets, flanges, etc, complete. 50 mm dia Nos 75mm dia Nos 100mm dia Nos 8.0 Supplying, installing and testing approved make Brass or forged bronze Non return Valves for pumps conforming to relavent IS standards with unions etc., complete.	7.0	Cumbring installing and testing approved make MOC Duose CLV						
standards with necessary nuts and bolts, neoprene rubber gaskets, flanges, etc, complete. 50 mm dia Nos 65mm dia Nos 75mm dia Nos 100mm dia Nos 8.0 Supplying, installing and testing approved make Brass or forged bronze Non return Valves for pumps conforming to relavent IS standards with unions etc., complete.	7.0							
50 mm dia Nos RO 65mm dia Nos 4.00 Nos 4.00 Nos 75mm dia Nos 4.00 Nos 4.00 Nos 4.00 Nos 4.00 Nos 4.00 Nos Nos 4.00 Nos Nos RO RO NOS RO								
65mm dia Nos 4.00 T5mm dia Nos RO T5			Nos	RO				
75mm dia Nos 4.00 100mm dia Nos RO 8.0 Supplying, installing and testing approved make Brass or forged bronze Non return Valves for pumps conforming to relavent 1S standards with unions etc., complete.								
8.0 Supplying, installing and testing approved make Brass or forged bronze Non return Valves for pumps conforming to relavent 1S standards with unions etc., complete.		75mm dia						
pumps conforming to relavent 1S standards with unions etc., complete.		100mm dia	Nos	RO				·
pumps conforming to relavent 1S standards with unions etc., complete.	0.0	Consider the Mine and Arabin and All D. C. 11						
175 mm dia		pumps conforming to relavent 1S standards with unions etc., complete. 75 mm dia	Nos	2.00				

	,					•
	65 mm dia	Nos	4.00			
	50 mm dia	Nos	6.00			
	40 mm dia	Nos	2.00			
	32 mm dia	Nos	RO			
9.0	Supplying, installing and testing approved make Pressure reducing Valves - PRVs for piping					
	system conforming to relavent IS standards with unions etc., complete.					
	50 mm dia	Nos	RO			
	40 mm dia	Nos	RO			
	25 mm dia	Nos	RO			
	Z3 iiiii ua	1105	KU			
100	Complete in the literary of the first property of the lateral ways of the lateral beautiful to the lateral ways of the la					
10.0	Supplying, installing and testing approved make and MOC brass or forged bronze Air realease					
	valves ARV, for piping system conforming to relavent IS standards with unions, screwed nuts					
	etc., complete.					
	25 mm dia	Nos	RO			
	20 mm dia	Nos	10.00			
11.0	Supply, installation of Food grade, non toxic PVC multilayered at least 5-6mm thick each, anti					
	heatenial victor storage. Over head victor tonks with all necessary fittings like evenflow inlat					
	bacterial water storage - Over head water tanks with all necessary fittings like overflow, inlet,					
	outlet pipe provisions, outlet and inltet flanges / puddle flanges, isolation Ball/Butterfly valves, Y					
	strainer all in brass or forged bronze valves, pedestals, vent pipes, etc complete.					
		.,	DO.			
	Capacity ; 5000 Liters	Nos	RO	-		+
40.0	0 1 10 1 10 1 10 1 10 10 10 10 10 10 10			 		
12.0	Supply and fixing in position Brass analog water meters conforming to IS 770/94 with manually			I		
	read, and BMS compatible allowing for smart metering, hermetically sealed, having SS gears of			1		
	approved make with necessary fittings etc., complete. Contractor to provide both Conventional			1		
				1		
	and Electromagnetic meters are mentioned below at required locations. This is inclusive of all			İ		
	brass Ball valves, brass or bronze NRVs, and other related accessories etc complete.			1		
12.1	Conventional - near WTP Pump room and DWS at Terrace					
12.1	32 mm dia	Nos	RO			
	40 mm dia-	Nos	1.00			
	50 mm dia - for borewell line		1.00		-	
		Nos				
	65 mm dia-for municipal/Tanker water line	Nos	2.00		_	
		Nos	RO			
12.2	Electromagnetic meter - STP inlet and outlet					
	50 mm dia from STP	Nos	RO			
13.0	Constructing Valve chamber in 230 mm thick TM brick in CM 1:6, The chamber is constructed					
	over 100 mm thick PCC 1:4:8 internal and external plastering in CM 1:4, The base & side walls of					
	the chamber to be water proofed with water proofing plaste, with FRP frame and air tight cover,					
	capable to with stand adequate loads wherever fixed. The quoted rate shall include for necessary					
	excavation in all sort of soil, back filling, consolidation and disposing surplus materials as directed					
	within a lead as allowed by authorities etc., complete					
_		El-	2.00		+	
	a) 750 x 750 mm clear opening	Each	2.00			
	TOTAL PARTY					
	TOTAL PART A					
PART B	SEWAGE SYSTEM					
PART B 1.0						
	SEWAGE SYSTEM					
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4.0	Providing Inspection chamber with 230 mm best quality approved table moulded bricks in CM					
	1:4 over a bed of 100 mm thick PCC 1:4:8 walls plastered inside smooth in CM 1:3 and outside in					
	CM 1:6, necessary excavation in all sorts of soil, back filling, consolidation and disposing the					
	surplus material within lead of 50 m or as directed, benching and channelling in PCC 1:2:4 as per					
	drawing and supply and fixing of FRP frame and cover air tight fit to carry adequate loads as per					
	the position of the chambers etc. The base & side walls of the chamber to be water proofed with					
	water proofing plaster complete (Depth of chamber not exceeding 1.2 m).					
	600 x 600 mm clear opening (weight of frame and cover medium duty)	Each	30.00			
	450 x 450 mm clear opening (weight of frame and cover medium duty)	Each	RO			
	150 X 150 mm clear opening (weight of frame and cover mediam daty)	Buch	RO			
5.0	Providing and fixing of square mouth gully trap complete with CI grating brick masonry					
5.0	chamber 115 mm thick using table moulded bricks in CM 1:4 over a bed of 75 mm thick PCC 1:4:8,					
	internal and external plastering in CM 1:4, 12 mm thick supply and fixing of FRP frame and cover					
	air tight fit to carry adequate loads as per the position of the chambers etc The quoted rate should					
	include for necessary excavation in all sorts of soil, returning, filling, and connecting to					
	chamber.The base & Side walls of the chamber to be water proofed with water proofing plaster etc., complete.					
	450 x 450mm `P' or `S' trap.	Each	41.00			
	430 x 430 min F of 3 trap.	Eatii	41.00			
6.0	Providing and Construction of Manhole with best quality, approved table moulded bricks in CM					
0.0						
	1:6, 500mm dia at top and 1200mm dia.at bottom over a bed of 250mm thick PCC 1:4:8, walls					
	plastered smooth inside in CM 1:3 and outside with CM 1:3 with sponge finish, benching and					
	channeling in PCC 1:2:4. supplying and fixing PVC steps as per drawing for maintenance. The					
	manhole shall be supply and fixing of FRP frame and cover air tight fit to carry adequate loads as		1			1
	per the position of the chambers etc with . Circular 660mm dia. Clear opening etc., complete. The		1			1
	quoted rate shall also include for necessary excavation, refilling, disposing off surplus earth with		1			1
<u> </u>	in a lead of 300M etc., complete.	**		1	-	+
	Depth upto 2.0 Mtrs.	Nos.	2.00		_	+
	Depth upto 1.8 Mtrs.	Nos.	6.00			
7.0	Providing and fixing of grease trap / grease seperator for pantry/kitchen waste in SS		 	1		
7.0						
	fabricated as per standard size of 1200mmx1000mm detailed to seperate grease from waste					
	water from kitchen embedded in complete with top cover CI grating and chamber in block/ brick					
	masonry chamber 115 mm thick using table moulded bricks or cement blocks solid in CM 1:4 over					
	a bed of 75 mm thick PCC 1:4:8, internal and external plastering in CM 1:4, 12 mm thick supply					
	and fixing of 300 x 300 mm size CI frame and cover. etc., complete. (Location near STP)					
	1200mm x 800mm grease trap in SS 304 and chamber details as given above	Each	RO			
	1200mm x 600mm grease trap in 55 504 and chamber details as given above					
	TOTAL DADT C	Buch	110			
	TOTAL PART C	Bueil	1.0			
PART C		Buch	no no			
PART C	RAIN WATER SYSTEM	Buch				
PART C 1.0	RAIN WATER SYSTEM Supplying and Constructing brick Catch basin with `75' class designation bricks in cement motar	nucii	NO.			
	RAIN WATER SYSTEM Supplying and Constructing brick Catch basin with `75' class designation bricks in cement motar 1:5 (1cement: 5 fine sand), precast RCC top slab in 1:2:4 Mix (1 cement: 2 coarse sand: 8 graded	Buch				
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a 2.0 3.0	RAIN WATER SYSTEM Supplying and Constructing brick Catch basin with `75' class designation bricks in cement motar 1:5 (1cement: 5 fine sand), precast RCC top slab in 1:2:4 Mix (1 cement: 2 coarse sand: 8 graded stone aggregate), with angle iron frame, inside plastring 12mmthick with CM 1:3 (1cement: 3 fine sand) finished very smooth with floating coat of neat cement & making channel in cement concrete 1:2:4 (1cement: 2 coarse sand: 4 gradedstone aggregate) neatly finished complete as per standard design and as per drawing. (The rate shall include earth work excavation and back filling) Inside size of 600x 600mm & depth not exceeding 900mm as per dwgs including providing 450 x 450mm MS gratingwith 50 x 50 x 6mm thick with MS L angle frame. Supplying, installing, testing and commissioning of inline Filters for the Rain water pipes of approved taking adequate care to use solvent pasted to the PVC pipes with adequate supports etc all nuts bolts, screwed anchor type rods, at both bottom and top surface of connections as required per site conditions etc., complete. Make - RAINY filters TM 160 mm dia 110 mm dia Supplying, installing, testing and commissioning of Hume pipes laid to the required level and grade with collars joining in CM 1:3 and filling the excavated trench with approved quality saturated sand on sides, bottom and top surface of connections as required etc., complete. Location: for External capping for crossover pipes or storm water 200mm dia 300mm dia 450mm dia Supply & Fixing of Rain water, side mounted or Vertical Khurrah as per the site condition of MOC C.I with all accessories etc complete as per detailed drawing.	No.s No.s No.s No.s Mtr Mtr Mtr Mtr Mtr	22.00 RO RO RO RO RO			
a 2.0 3.0	RAIN WATER SYSTEM Supplying and Constructing brick Catch basin with `75' class designation bricks in cement motar 1:5 (1cement: 5 fine sand), precast RCC top slab in 1:2:4 Mix (1 cement: 2 coarse sand: 8 graded stone aggregate), with angle iron frame, inside plastring 12mmthick with CM 1:3 (1cement: 3 fine sand) finished very smooth with floating coat of neat cement & making channel in cement concrete 1:2:4 (1cement: 2 coarse sand: 4 gradedstone aggregate) neatly finished complete as per standard design and as per drawing. (The rate shall include earth work excavation and back filling) Inside size of 600x 600mm & depth not exceeding 900mm as per dwgs including providing 450 x 450mm MS gratingwith 50 x 50 x 6mm thick with MS L angle frame. Supplying, installing, testing and commissioning of inline Filters for the Rain water pipes of approved taking adequate care to use solvent pasted to the PVC pipes with adequate supports etc all nuts bolts, screwed anchor type rods, at both bottom and top surface of connections as required per site conditions etc., complete. Make - RAINY filters TM 160 mm dia 110 mm dia Supplying, installing, testing and commissioning of Hume pipes laid to the required level and grade with collars joining in CM 1:3 and filling the excavated trench with approved quality saturated sand on sides, bottom and top surface of connections as required etc., complete. Location: for External capping for crossover pipes or storm water 200mm dia 450mm dia 450mm dia Supply & Fixing of Rain water, side mounted or Vertical Khurrah as per the site condition of MOC C.I with all accessories etc complete as per detailed drawing.	No.s No.s No.s No.s No.s No.s	22.00 RO RO RO RO RO RO			
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a 2.0 3.0	RAIN WATER SYSTEM Supplying and Constructing brick Catch basin with `75' class designation bricks in cement motar 1:5 (1cement: 5 fine sand), precast RCC top slab in 1:2:4 Mix (1 cement: 2 coarse sand: 8 graded stone aggregate), with angle iron frame, inside plastring 12mmthick with CM 1:3 (1cement: 3 fine sand) finished very smooth with floating coat of neat cement & making channel in cement concrete 1:2:4 (1cement: 2 coarse sand: 4 gradedstone aggregate) neatly finished complete as per standard design and as per drawing. (The rate shall include earth work excavation and back filling) Inside size of 600x 600mm & depth not exceeding 900mm as per dwgs including providing 450 x 450mm MS gratingwith 50 x 50 x 6mm thick with MS L angle frame. Supplying, installing, testing and commissioning of inline Filters for the Rain water pipes of approved taking adequate care to use solvent pasted to the PVC pipes with adequate supports etc all nuts bolts, screwed anchor type rods, at both bottom and top surface of connections as required per site conditions etc., complete. Make - RAINY filters TM 160 mm dia 110 mm dia Supplying, installing, testing and commissioning of Hume pipes laid to the required level and grade with collars joining in CM 1:3 and filling the excavated trench with approved quality saturated sand on sides, bottom and top surface of connections as required etc., complete. Location: for External capping for crossover pipes or storm water 200mm dia 450mm dia 450mm dia Supply & Fixing of Rain water, side mounted or Vertical Khurrah as per the site condition of MOC C.I with all accessories etc complete as per detailed drawing.	No.s No.s No.s No.s No.s No.s	22.00 RO RO RO RO RO RO			

				,		
5.0	Supply and fixing (4 kg/cm2) class 'A' Rigid PVC pipes Conforming to IS 4985 (For Terrace Rain					
	water & Balcony)) of approved make with necessary specials like bend, shoe, grating, clamps,					
	screws etc., including jointing the pipes and specials with solvent cement and cutting the pipes					
	required lengths Rate quoted should include for moulded bends, enlarger & leaf trap complete at					
	each outlet. etc., complete at all heights and depths. (Rain water only)					
	160 mm OD	Rmt	360.00			
	110 mm OD	Rmt	120.00			
	75 mm 0D	Rmt	60.00			
	65 mm OD	Rmt	R0			
6.0						
6.0	Supplying and Construction of Rain water recharge pit/well of size mentioned below upto					
	1500mm clear internal dimension for external storm water soaking with 50mm thick walls in					
	concentric rings fixed in CM 1:4 over a bed of 100 mm thick . Fixing precast RCC grating of size	Nos	10.00			
	450 x 500mm on top surface flushed to the finished floor level with necessary excavation, back					
	filling the selected excavated earth with all leads and lifts etc., complete.					
	inimig the selected excavated cartif with an leads and into etc., complete.					
	TOTAL PART C					
PART D	PUMPS & ACCESSORIES					
1.0	Collecting from store, installing/fixing, testing, & commissioning of approved make Monobloc					
-10	Pump with level control float valve of adequate HP capable of giving required discharge at					
	suitable head to work on single/3 phase 50Hz 400/400 V of specified capacity. Fixing the pump,					
	providing delivery piping with UPVC/CPVC pipes with Brass MOC, NRV, wafer type butterfly					
	valve aof approved make with necessary flanges, nuts, bolts, rubber insertions etc and piping		1	1		
	(which is also operated under specific item in PART B of BOQ) with standard starter panel and		İ		1	
	accessories, with Making necessary electrical connections with adequate length of cables					
	(including making power supply connection from mains to the pump control panel) shall be		1	1		
	carried out by electrical contractor. Cost of electrical works is to be included under this item etc.,		1	1		
	complete.		1	1		
	NOTE :(Only PUMP Will be Supply SSSCT)		İ		1	
i	DOMESTIC TREATED WATER LIFT FROM UG.SUMP TO OHT					
	Make: CRI/KIRLOSKAR/ TEXMO (1 Working + 1 Stand BY)					
	Capacity: 5 LPS @ 35 m Head	set	3.00			
ii	FLUSHING WATER FROM STP TREATED WATER SUMP					
	Make: CRI/KIRLOSKAR/ TEXMO (1 Working + 1 Stand BY)					
	Duty: 8 lps Cum @ 55 m head	Set	1.00			
2.0						
2.0	Collecting from store, installing/fixing, testing, & commissioning of approved make					
	monobloc/Submersible Pump with float valve of adequate HP capable of giving required					
	discharge at suitable head to work on single/3 phase 50Hz 400/400 V of specified capacity. Fixing					
	the pump, providing delivery piping with UPVC/CPVC pipes with Brass MOC, NRV, wafer type					
	butterfly valve and approved make with necessary flanges, nuts, bolts, rubber insertions etc nd piping which is covered under specific item in PART 2 of BOQ with standard starter panels and					
	accessories, with Making necessary electrical connections with adequate length of cables					
	(including making power supply connection from mains to the pump control panel) shall be					
	carried out by electrical contractor. Cost of electrical works is to be included under this item etc.,					
	complete.					
	DEWATERING PUMP - BASMENT COLLECTION SUMP					
	Make: CRI/KIRLOSKAR/ TEXMO (1 Working + 1 Stand BY)					
	Duty :3lps Cum @ 25m head (1 Working + 1 Stand BY)	Set	RO			
3.0	Collecting from store, installing/fixing, testing, & commissioning of approved make Terrace					
	Booster pump with in built pressure tank of adequate HP capable of giving required discharge at					
	suitable head to work on single/3 phase 50Hz 400/400 V of specified capacity. Fixing the pump,		İ		1	
	providing delivery piping with UPVC/CPVC pipes with Brass MOC, NRV, wafer type butterfly		İ		1	
	valve aof approved make with necessary flanges, nuts, bolts, rubber insertions etc nd piping		İ		1	
	which is operated under specific item in PART 2 of BOQ with standard starter panels and		İ		1	
	accessories, with Making necessary electrical connections with adequate length of cables		İ		1	
	(including making power supply connection from mains to the pump control panel) shall be		1	1		
	carried out by electrical contractor. Cost of electrical works is to be included under this item etc.,		İ		1	
	complete. DOMESTIC WATER FROM OHT TO RING MAINS FOR UPPER FLOORS ONLY			1	1	
	Make:Grundfos/wilo		 	1	+	
	Capacity: 1.5 LPS @ 10 m Head (1 Working + 1 Stand BY)	set	RO	1	1	
		555		1	1	
4.0	Collecting from store, installing/fixing, testing, & commissioning of approved make Submersible ,					
	Sewage sludge/ Cutter Pump with float valve of adequate HP capable of giving required		1	1		
	discharge at suitable head to work on single/3 phase 50Hz 400/400 V of specified capacity. Fixing		İ		1	
	the pump, providing delivery piping with UPVC/CPVC pipes with Brass MOC, NRV, wafer type		İ		1	
	butterfly valve aof approved make with necessary flanges, nuts, bolts, rubber insertions etc nd		İ		1	
	piping which is covered under specific item in PART 2 of BOQ with standard starter panels and		İ		1	
	accessories, with Making necessary electrical connections with adequate length of cables		İ		1	
	(including making power supply connection from mains to the pump control panel) shall be		1	1		
	carried out by electrical contractor. Cost of electrical works is to be included under this item etc.,			1		
	complete.			<u> </u>	1	
	SLUDGE PUMP -AT STP TO EXTERNAL SEWER NETWORK Makey CRI (KIRL OCKAR / TEXMO (1 Working + 1 Stand RV)			1	1	
	Make: CRI/KIRLOSKAR/ TEXMO (1 Working + 1 Stand BY) Duty: 3lps Cum @ 25 m head (1 Working + 1 Stand BY)	Cat	1.00	 	+	
	Ducy . Sips cuin @ 23 in neau (1 vvolking + 1 stanu bi)	Set	1.00	1	1	
<u> </u>			I	I .	1	

5.0	Collecting from store, installing/fixing, testing, & commissioning of approved make Submersible						
	pump of adequate HP capable of giving required discharge at suitable head to work on single/3						
	phase 50Hz 400/400 V of specified capacity. Fixing the pump, providing delivery piping with						
	UPVC/CPVC pipes with wafer type non return valve, butterfly valve of approved make with						
	, 11						
	necessary flanges, nuts, bolts, rubber insertions etc with standard starter panels and accessories,						
	operated in the item in PART 2 with Making necessary electrical connections with adequate length						
	of cables (including making power supply connection from mains to the pump control panel) shall						
	be carried out by electrical contractor. Cost of electrical works is to be included under this item						
	etc complete.						
	To Pump rain water to Raw water sump or exteranl drain						
	Make:Grundfos/ CRI/Texmo						
	Duty: 4LPS @ 20m Head (1 Working + 1 Stand BY)	No,s	RO				
6.0	Collecting from store, installing/fixing, testing, & commissioning of approved make Submersible						
0.0	pump of adequate HP capable of giving required discharge at suitable head to work on single/3						
	phase 50Hz 400/400 V of specified capacity. Fixing the pump, providing delivery piping with						
	UPVC/CPVC pipes with wafer type non return valve, butterfly valve of approved make with						
	necessary flanges, nuts, bolts, rubber insertions etc with standard starter panels and accessories,						
	operated in the item in PART 2 with Making necessary electrical connections with adequate length						
	of cables (including making power supply connection from mains to the pump control panel) shall						
	be carried out by electrical contractor. Cost of electrical works is to be included under this item						
	etc., complete.						
	To Pump Domestic water from UG sumps at A & C blocks to respective OHTs						
	Make:Grundfos/ CRI/Texmo				1	1	
	Duty :4LPS @ 35m Head (1 Working + 1 Stand BY)	No,s	2.00		1	1	İ
	((,5	2.00		<u> </u>	1	1
 	PHE WORKS - ELECTRICAL PANEL				+	+	
7.0	Supply, Installation, Testing and commissioning of starter panel and all electrical accessoeries for			-	 	1	1
7.0	11 37			1	ĺ	1	1
-	the pumps like trays cables switches etc complete				1	+	1
	GI DWG FROM CONTRACTOR TO BE DETAILED PER ELECTRICAL CONSULTANT INPUTS	Set	RO	ļ	1	4	
	To be taken under electrical services		ļ		ļ	1	
	TOTAL PART D						
PART E	MISCELLANEOUS WORKS - CAN BE TAKEN IN CIVIL SCOPE						
1	Supply and Installation of GI Puddle Flanges for Underground Sumps						
	The work includes the supply and installation of GI (Galvanized Iron) puddle flanges for						
	underground sumps. The puddle flanges will be used to provide a watertight seal at the						
	penetration points of pipes passing through the sump walls or floor. The installation will be						
	carried out as per the specifications and requirements outlined in the Sump drawing Also includes						
	appropriate anchoring or fixing of the flanges to the sump structure, as per the engineers						
	recommendations and design requirements. etc. complete for efficient maintenance of the tanks.						
	Approx. depth = 2-3 Mts						
	Muncipal inlet GI puddle flanges (65mm dia)	No.s	1.00				
	Borewell inlet GI puddle flanges (75 mm dia)	No.s	1.00				
	Tanker water inlet GI puddle flange (100 mm dia)	No.s	2.00				
	Storm/Rain water inlet puddle flange (150 mm)	No.s	1.00				
	Pump rasing main Outlet GI puddle flange (65 mm dia)	No.s	3.00				
	Treated water inlet GI puddle flange (65 mm dia)	No.s	1.00				
	Raw water outlet to WTP GI puddle flange (65 mm dia)	No.s	2.00				
	overflow puddle GI flange (80 mm dia.)	No.s	3.00				
	vent puddle GI flange (65 mm dia.)	No.s	3.00				
	sleeve for level controller (65 mm dia)	No.s	3.00				
	Drain pipe for all tanks (65 mm dia)	No.s	3.00				
	WTP Backwash puddle flange (65 mm dia)	No.s	1.00				
1	Note : All puddle flanges should be hot-dip galvanised.						
	PUDDLE FLANGES - UGS	SET	1.00				
			1.00		İ	1	İ
2	Supply and Installation of GI Puddle Flanges for Over head tanks					1	
	The work includes the supply and installation of GI (Galvanized Iron) puddle flanges for				†	+	
					1	1	
	underground sumps. The puddle flanges will be used to provide a watertight seal at the				1	1	
1	penetration points of pipes passing through the tank walls or floor. The installation will be carried				1	1	
	out as per the specifications and requirements outlined in the drawing. Also includes appropriate				1	1	
1					1	1	
1	anchoring or fixing of the flanges to the sump structure, as per the engineers recommendations				1	1	
<u> </u>	and design requirements. etc. complete for efficient maintenance of the tanks		<u> </u>		<u> </u>		
1	Approx. depth = 1.5 - 2.0 Mts		1				
	Pump rasing main fire/treated water GI puddle flange (65 mm dia)	No.s	1.00				
	Fire water outlet GI puddle flange (75 mm dia)	No.s	2.00			1	
	Treated water inlet from Fire tank GI puddle flange (65 mm dia)	No.s	1.00			1	
	Treated water infer from Fire tank of puddle flange (05 mm dia)	No.s	2.00		+	+	
					 	+	1
	Flushing water inlet GI puddle flange (65 mm dia)	No.s	1.00		-	+	
	Flushing water outlet GI puddle flange (75 mm dia)	No.s	1.00		 	+	1
	overflow puddle GI flange (80 mm dia.)	No.s	3.00			+	
	vent puddle GI flange (65 mm dia.)	No.s	3.00			1	1
	sleeve for level controller (25 mm dia)	No.s	3.00				
	Drain pipe outlet for all tanks (65 mm dia)	No.s	3.00				
	Note : All puddle flanges should be hot-dip galvanised.						
	PUDDLE FLANGES - OHTs	SET	3.00				
			5.00			1	İ
3.0	Supplying all necessary material and constructing Sewage trench and storm water drain as per				1	1	
3.0	layout and details enclosed. Location - Block A and B				1	1	
 					+	+	1
	* Excavation in all types of soil upto 1.5m depth as per gradiant including back filling disposing				1	1	
	surplus earth upto a lead of 300 mtrs.		<u> </u>	l			

	* Dressing the excavated area to desired slope and level.	T I				
	* Providing and laying PCC 1:4:8 100mm thick					
	* Providing and constructing side walls & bottom slab of 100mm thick in RCC					
	* Finishing and plastering gutter face etc., complete					
	* Size :600mm wide and depth 600mm					
	The quoted rate shall exclude steel reinforcement.					
	To be taken up in CIVIL Quantity	RFT	RO			
		_				
4.0	Supply and Installation of MS or C.I Grating over basement waste water trenches of adequate	Rmt	RO			
	width as per the adequate thickness, of factory ready MOC in G.I or M.S fabricated as per the					
	architectdesign etc with all necessary civil works and finishes as per site incharge instructions.					
	450MM wide					
= 0	Core Drilling & Sleeve Fixing					
5.0	Drilling with core cutting machine in RCC slabs/Beams, floors etc., for Laying pipes and rendering					
	the same in RCC 1:2:4, finishing the same to the satisfaction of the owner or his authorized					
	representative etc., including nominal reinforcement wherever required complete. The quoted					
	rate shall also include for providing EPOXY based water proofing compound including grouting					
	GP2 Conbextra/ Eurobuild or equivalent for sealing the joints around the pipes.			1	-	
	RCC beams					
	25mm dia upto 50 mm dia.pipes.	R.O				
	50mm dia upto 110 mm dia.pipes.	R.O				
	110mm dia. upto 160 mm dia.pipes.	R.O				
	RCC slabs	D 0				
	25mm dia upto 50 mm dia. Pipes.	R.O				
	50mm dia upto 110 mm dia. Pipes.	R.O				
	110mm dia. upto 160 mm dia. Pipes	R.O				
	RCC walls	D 0				
	25mm dia upto 50 mm dia. Pipes.	R.O				
	50mm dia upto 110 mm dia. Pipes.	R.O				
	110mm dia. upto 160 mm dia. Pipes.	R.O				
	Core drilling in Block walls (not exceeding 400 mm thick)	R.O				
	25mm dia upto 50 mm dia.pipes. 50mm dia upto 110 mm dia.pipes.	R.O				
	110mm dia. upto 160 mm dia.pipes.	R.O				
	110mm dia. upto 160 mm dia.pipes.	K.U				
6.0	Supply of Indication Sticker and rendering, flow direction indicating arrows over all the drainage					
0.0	11.7	Lumman	1.00			
	& water supply pipes etc related work, in pump room, terrace etc shafts as instructed by site in	Lumpsum	1.00			
	charge.					
7.0	Any Additional Labour for temporory works			1	1	
7.0	Plumber	Nos.	RO	1	1	
	Helper	Nos.	RO RO	+	+	
	TOTAL PART E	1105.	NO.			
	IUIAL PARI E			1		
SL.NO	SUMMARY - COMMON WORKS				SUPPLY	INSTALLATION
	WATER SUPPLY SYSTEM - TERRACE, SHAFTS & EXTERNAL GROUND LEVEL PIPING			+	JUFFLI	INSTALLATION
	SEWAGE & RAIN WATER SYSTEM					
	RAIN WATER STSTEM					
	PUMPS & ACCESSORIES					
	MISCELLANEOUS WORKS			 	- 	1
IANIE	PRIOCEDERIALO CO WORKS			 	- 	
	TOTAL					
	GRAND TOTAL			1		
	ADD GST @ 18%	l I				
	מעם מטו ש 1070	l		<u> </u>		