DIVISION 22: PLUMBING

Item Code	DESCRIPTION	QTY	Unit	Unit Rate in KD	Total in KD.
	SECTION 22 00 00 - PLUMBING				
220000.01	Existing polyethylene water storage tanks & pumps dismantling, reinstallation, relocation from phase 1 to phase 2, and refixing, including all new piping and associated works.	LS	Item		-
	SECTION 22 05 23 - GENERAL DUTY VALVES FOR PLUMBING PIPING				
	Supply, installation, testing and commissioning of all valves as specified and shown on the drawings.				
220523.01	Gate Valves: DN 15	1	No		-
220523.02	Gate Valves: DN 20	13	No		-
220523.03	Gate Valves: DN 25	46	No		-
220523.04	Gate Valves: DN 32	1	No		-
220523.05	Gate Valves: DN 40	1	No		-
220523.06	Gate Valves: DN 50	3	No		-
220523.07	Gate Valves: DN 65	2	No		-
220523.08	Gate Valves: DN 100	15	No		-
220523.09	Float Valves: DN 40	1	No		-
220523.10	Float Valves: DN 100	2	No		-
220523.11	Back Water Valve: DN 100	1	No		-
220523.12	Pressure Reducing Valve: DN 20	1	No		-
220523.13	Angular Valve	LS	Item		-
				TO COLLECTION KD	-

DIVISION 22: PLUMBING

Item Code	DESCRIPTION	QTY	Unit	Unit Rate in KD	Total in KD.
	SECTION 22 07 00 - PLUMBING INSULATION Plumbing Insulation: Supply, installation, testing and commissioning of piping insulation complete with adhesive, AL tape, foster, marking etc… as specified and shown on the drawings.				
220700.01	DN 015	10	m		-
220700.02	DN 020	15	m		-
220700.03	DN 025	13	m		-
220700.04	Insulation for cold water pipes in ceiling spaces useed as HVAC return plenum	LS	Item		-
				TO COLLECTION KD	-

DIVISION 22: PLUMBING

Item Code	DESCRIPTION	QTY	Unit	Unit Rate in KD	Total in KD.
	SECTION 22 11 16 - DOMESTIC WATER PIPING Supply and Installation of above grade, sanitary and kitchen services water supply piping with fittings, supports, accessories, etc… all complete as specified and shown on the drawings and having nominal diameters as mentioned below. Cold Water System				
221116.01	PPR: DN 015	150	m		-
221116.02	PPR: DN 020	150	m		-
221116.03	PPR: DN 025	180	m		-
221116.04	PPR: DN 032	110	m		-
221116.05	PPR: DN 040	290	m		-
221116.06	PPR: DN 050	150	m		-
221116.07	PPR: DN 065	110	m		-
221116.08	PPR: DN 080	30	m		-
231116.09	PPR: DN 100	230	m		-
	Hot Water Supply & Return System				
221116.10	PPR: DN 015	10	m		-
221116.11	PPR: DN 020	15	m		-
221116.12	PPR: DN 025	13	m		-
				TO COLLECTION KD	-

DIVISION 22: PLUMBING

Item Code	DESCRIPTION	QTY	Unit	Unit Rate in KD	Total in KD.
	22 11 19 - DOMESTIC WATER PIPING SPECIALTIES				
221119.01	Hose Bibs: DN 20	15	No		-
221119.02	Water Hammer Arrestors	3	No		-
221119.03	Level Sensor	2	No		-
221119.04	Air vent	3	No		-
231119.05	Automatic Air vent: DN 15	5	No		-
				TO COLLECTION KD	-

DIVISION 22: PLUMBING

Item Code	DESCRIPTION	QTY	Unit	Unit Rate in KD	Total in KD.
	SECTION 22 11 23 - DOMESTIC WATER PUMPS Supply, installation, testing and Commissioning of all plumbing pump sets with all accessories including fitting, supports, pressure gauges valves, control panel, electric connection, supports, foundations, connection etc. all complete as specified and shown on the drawings including BMS Interface.				
221123.01	Booster Pump Set (2 working & 1 standby)	1	Set		-
221123.02	Transfer Pump Set (1 working & 1 standby)	1	Set		-
	SECTION 22 12 00 - Facility Potable Water Storage Tanks Facility Potable Water Storage Tanks: Supply, install and commissioning of water storage tank complete with all accessories such as level indicator, control panel, ladders vent etc… as specified and shown on the drawings.				
221200.01	GRP Panel water Tank: 17m x 11m x 3m high	1	No		-
221200.02	GRP Panel water Tank: 3m x 3m x 3m high	1	No		-
				TO COLLECTION KD	-

DIVISION 22: PLUMBING

Item Code	DESCRIPTION	QTY	Unit	Unit Rate in KD	Total in KD.
	SECTION 22 13 16 - SANITARY WASTE AND VENT PIPING Supply & installation of above & below grade HDPE pipes for soil, waste, vent, etc… including fittings, supports, excavation, back filling, concrete encasement etc. all complete as specified and shown on the drawings and having nominal diameter as mentioned below. Soil, Waste & Vent Piping:				
221316.01	HDPE Pipe: DN 40	60	m		-
221316.02	HDPE Pipe: DN 50	854	m		-
221316.03	HDPE Pipe: DN 75	428	m		-
221316.04	HDPE Pipe: DN 100	995	m		-
221316.05	HDPE Pipe: DN 150	980	m		-
221316.06	HDPE Pipe: DN 200	10	m		-
221316.074	Pumped Waste Piping: DN 100	280	m		-
221316.084	Pumped Soil Piping: DN 75	30	m		-
				TO COLLECTION KD	-

DIVISION 22: PLUMBING

Item Code	DESCRIPTION	QTY	Unit	Unit Rate in KD	Total in KD.
	SECTION 22 13 19 - SANITARY WASTE PIPING SPECIALTIES				
	Supply and installation of drainage specialties including all accessories complete as specified and shown on the drawing.				
221319.01	Area Drain AD-1 DN 100	1	No		-
221319.02	Area Drain AD-1 DN 150	45	No		-
221319.03	Area Drain AD-2 DN 100	19	No		-
221319.04	Area Drain AD-2 DN 150	8	No		-
221319.05	Floor Drain: FD-2 DN 100	7	No		-
221319.06	Roof Vent Terminal: DN 75	4	No		-
221319.07	Roof Vent Terminal: DN 100	3	No		-
221319.08	Funnel Floor Drain: FFD-2 DN 100	9	No		-
221319.10	SWP Manhole Cover and Frame: 600mm X 600mm	2	No		-
221319.11	Sewage Pit Manhole Cover and Frame: 600mm X 600mm	2	No		-
221319.12	Waste Pit Manhole Cover and Frame: 600mm X 600mm	6	No		-
221319.13	Storm Manhole Cover and Frame: 600mm X 600mm	1	No		-
221319.14	Sewage Manhole Cover and Frame: 600mm X 600mm	1	No		-
221319.15	Trench Drain TD1: Grating and Frame (3100 x 300 mm)	2	No		-
221319.16	Trench Drain TD1: Grating and Frame (3500 x 300 mm)	1	No		-
221319.17	Trench Drain TD1: Grating and Frame (3700 x 300 mm)	1	No		-
221319.18	Trench Drain TD1: Grating and Frame (3800 x 300 mm)	1	No		-
221319.19	Trench Drain TD1: Grating and Frame (3900 x 300 mm)	2	No		-
221319.20	Trench Drain TD1: Grating and Frame (4000 x 300 mm)	1	No		-
221319.21	Trench Drain TD1: Grating and Frame (4100 x 300 mm)	1	No		-
221319.22	Trench Drain TD1: Grating and Frame (4150 x 300 mm)	1	No		-
221319.23	Trench Drain TD1: Grating and Frame (4300 x 300 mm)	1	No		-
221319.24	Check Valve: DN 75	2	No		-
				TO COLLECTION KD	-

DIVISION 22: PLUMBING

Item Code	DESCRIPTION	QTY	Unit	Unit Rate in KD	Total in KD.
221319.25	Gate Valve: DN 75	5	No		-
221319.26	Check Valve: DN 100	8	No		-
221319.27	Gate Valve: DN 100	8	No		-
	SECTION 22 14 13 - FACILITY STORM DRAINAGE PIPING:				
	Supply and installation of above and below grade HDPE pipes for rain and storm water drainage including fittings, supports, excavation, back filling, concrete encasement etc. all complete as specified and shown on the drawings and having nominal diameter as mentioned below.				
221413.01	HDPE Pipe: DN 75	30	m		-
221413.02	HDPE Pipe: DN 100	790	m		-
221413.03	HDPE Pipe: DN 150	142	m		-
	SECTION 22 14 23 - STORM DRAINAGE SPECIALTIES				
	Supply and installation of storm drainage specialties including all accessories complete as specified and shown on the drawing.				
221423.01	Rain Water Shoe DN 75	4	No		-
221423.02	Rain Water Shoe DN 100	13	No		-
221423.03	Rain Water Shoe DN 150	5	No		-
221423.04	Roof Drain: RD-2 DN 75	2	No		-
221423.05	Tank Overflow and Drain	1	No		-
221423.06	Roof Drain: RD-2 DN 100	44	No		-
221423.07	Roof Drain: RD-3 DN 75	6	No		-
				TO COLLECTION KD	-

DIVISION 22: PLUMBING

Item Code	DESCRIPTION	QTY	Unit	Unit Rate in KD	Total in KD.
	SECTION 22 14 29 - SUMP PUMPS Supply and installation of waste sump pump sets with all accessories including fitting, supports, pressure gauges valves, control panel, electric connection, supports, foundations, connection etc. all complete as specified and shown on the drawings including BMS Interface.				
221429.01	Waste Sump Pump WP-1	1	Set		-
221429.02	Waste Sump Pump WP-2	1	Set		-
221429.03	Waste Sump Pump WP-3	1	Set		-
221429.04	Storm water Sump Pump SWP-1	1	Set		-
221429.05	Sewage Sump Pump SP-1	1	Set		-
				TO COLLECTION KD	-

DIVISION 22: PLUMBING

Item Code	DESCRIPTION	QTY	Unit	Unit Rate in KD	Total in KD.
	22 32 00 - DOMESTIC WATER FILTRATION EQUIPMENT Supply and installation of Domestic Water Filtration Equipment including all accessories complete as specified and shown on the drawing.				
223200.01	Central Cartridge Filters (CF-01)	3	No		-
223200.02	Central Cartridge Filters (CF-02)	2	No		-
223200.03	Terminal Filter	1	No		-
223200.04	Inline Filter	1	No		-
	SECTION 22 33 00 - ELECTRIC WATER HEATER Supply, installation, testing, balancing and Commissioning of Water Heaters, complete with all necessary controls, control panels, accessories, support, foundations etc. all complete as specified and shown on the drawings including BMS Interface.				
223300.01	Electric Water Heater	2	No		-
				TO COLLECTION KD	-

DIVISION 22: PLUMBING

Item Code	DESCRIPTION	QTY	Unit	Unit Rate in KD	Total in KD.
	SECTION 22 40 00 - PLUMBING FIXTURES Supply, installation, testing and Commissioning of plumbing fixtures including all components, accessories, fittings, mixers etc. as specified, as shown on the drawings and as required for delivering the performance as per the design intend and completion of work.				
224000.01	European Water Closet with Flush Valve and Doucher	4	No		-
224000.02	Handicap European Water Closet with Flush Valve and Doucher	1	No		-
224000.03	Wash Basin with Mixer	6	No		-
224000.04	Handicap Wash Basin with Mixer	1	No		-
				TO COLLECTION KD	-

DIVISION 22: PLUMBING

Item Code	DESCRIPTION	QTY	Unit	Unit Rate in KD	Total in KD.
	DIVISION - 22 : PLUMBING				
	COLLECTION				
	Page No.				
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	22/7				-
	22/8				-
	22/9				-
	22/10				-
	22/11				-
				TO SUMMARY KD	-