

THEMBISILE HANI LOCAL MUNICIPALITY
CONTRACT No.: THLM/SCM22/2023-2024/WS06

APPOINTMENT OF A PANEL OF SERVICE PROVIDERS FOR THE SUPPLY AND DELIVERY OF WATER AND SANITATION FOR A PERIOD OF 36 MONTHS

SECTION	DESCRIPTION	Tender Amount
Section 1	MEDIUM AND HIGH PRESSURE PIPES	
Section 2	PIPE SPECIALS AND FITTINGS	
Section 3	VALVES AND FLOW METERS	
Section 4	GASKETS AND BOLTS	
Section 5	CONCRETE	
Section 6	FORMWORK	
Section 7	BRICKWORK, PLASTER & PAINT	
Section 8	REINFORCEMENT	
Section 9	MECHANICAL	
Section 10	ELECTRICAL	
Section 11	STORAGE TANKS	
Section 12	CHEMICALS	
Section 13	MISCELLANEOUS	
SUB-TOTAL 1		
10% Escalation		
SUB-TOTAL 2		
15% VAT		
GRAND TOTAL		

ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5	PSG 8.16	SCHEDULE 1: MEDIUM PRESSURE PIPELINES				
5.1		PRESSURE PIPES				
		Supply and deliver complete with Couplings and Flanges				
5.1.1		U-PVC pipe Class 9				
5.1.1.1		Diameter 40 mm (OD)	no	1		
5.1.1.2		Diameter 50 mm (OD)	no	1		
5.1.1.3		Diameter 63 mm (OD)	no	1		
5.1.1.4		Diameter 75 mm (OD)	no	1		
5.1.1.5		Diameter 90 mm (OD)	no	1		
5.1.1.6		Diameter 110 mm (OD)	no	1		
5.1.1.7		Diameter 125 mm (OD)	no	1		
5.1.1.8		Diameter 140 mm (OD)	no	1		
5.1.1.9		Diameter 160 mm (OD)	no	1		
5.1.1.10		Diameter 200 mm (OD)	no	1		
5.1.1.11		Diameter 250 mm (OD)	no	1		
5.1.1.12		Diameter 315 mm (OD)	no	1		
5.1.1.13		Diameter 355 mm (OD)	no	1		
5.1.1.14		Diameter 400 mm (OD)	no	1		
5.1.1.15		Diameter 500 mm (OD)	no	1		
5.1.1.16		Diameter 560 mm (OD)	no	1		
5.1.1.17		Diameter 630 mm (OD)	no	1		
5.1.2		U-PVC pipe Class 12				
5.1.2.1		Diameter 40 mm (OD)	no	1		
5.1.2.2		Diameter 50 mm (OD)	no	1		
5.1.2.3		Diameter 63 mm (OD)	no	1		
5.1.2.4		Diameter 75 mm (OD)	no	1		
5.1.2.5		Diameter 90 mm (OD)	no	1		
5.1.2.6		Diameter 110 mm (OD)	no	1		
5.1.2.7		Diameter 125 mm (OD)	no	1		
5.1.2.8		Diameter 140 mm (OD)	no	1		
5.1.2.9		Diameter 160 mm (OD)	no	1		
5.1.2.10		Diameter 200 mm (OD)	no	1		
5.1.2.11		Diameter 250 mm (OD)	no	1		
5.1.2.12		Diameter 315 mm (OD)	no	1		
5.1.2.13		Diameter 355 mm (OD)	no	1		
5.1.2.14		Diameter 400 mm (OD)	no	1		

5.1.2.15	Diameter 500 mm (OD)	no	1
5.1.2.16	Diameter 560 mm (OD)	no	1
5.1.2.17	Diameter 630 mm (OD)	no	1
5.1.3	U-PVC pipe Class 16		
5.1.3.1	Diameter 40 mm (OD)	no	1
5.1.3.2	Diameter 50 mm (OD)	no	1
5.1.3.3	Diameter 63 mm (OD)	no	1
5.1.3.4	Diameter 75 mm (OD)	no	1
5.1.3.5	Diameter 90 mm (OD)	no	1
5.1.3.6	Diameter 110 mm (OD)	no	1
5.1.3.7	Diameter 125 mm (OD)	no	1
5.1.3.8	Diameter 140 mm (OD)	no	1
5.1.3.9	Diameter 160 mm (OD)	no	1
5.1.3.10	Diameter 200 mm (OD)	no	1
5.1.3.11	Diameter 250 mm (OD)	no	1
5.1.3.12	Diameter 315 mm (OD)	no	1
5.1.3.13	Diameter 355 mm (OD)	no	1
5.1.3.14	Diameter 400 mm (OD)	no	1
5.1.3.15	Diameter 500 mm (OD)	no	1
5.1.3.16	Diameter 560 mm (OD)	no	1
5.1.3.17	Diameter 630 mm (OD)	no	1
5.1.4	U-PVC pipe Class 20		
5.1.4.1	Diameter 40 mm (OD)	no	1
5.1.4.2	Diameter 50 mm (OD)	no	1
5.1.4.3	Diameter 63 mm (OD)	no	1
5.1.4.4	Diameter 75 mm (OD)	no	1
5.1.4.5	Diameter 90 mm (OD)	no	1
5.1.4.6	Diameter 110 mm (OD)	no	1
5.1.4.7	Diameter 125 mm (OD)	no	1
5.1.4.8	Diameter 140 mm (OD)	no	1
5.1.4.9	Diameter 160 mm (OD)	no	1
5.1.4.10	Diameter 200 mm (OD)	no	1
5.1.4.11	Diameter 250 mm (OD)	no	1
5.1.4.12	Diameter 315 mm (OD)	no	1
5.1.4.13	Diameter 355 mm (OD)	no	1
5.1.4.14	Diameter 400 mm (OD)	no	1

5.1.4.15	Diameter 500 mm (OD)	no	1		
5.1.4.16	Diameter 560 mm (OD)	no	1		
5.1.4.17	Diameter 630 mm (OD)	no	1		
5.1.5	O-PVC pipe Class 12.5				
5.1.5.1	Diameter 100 mm (OD)	no	1		
5.1.5.2	Diameter 150 mm (OD)	no	1		
5.1.5.3	Diameter 160 mm (OD)	no	1		
5.1.5.4	Diameter 200 mm (OD)	no	1		
5.1.5.5	Diameter 225 mm (OD)	no	1		
5.1.5.6	Diameter 250 mm (OD)	no	1		
5.1.5.7	Diameter 280 mm (OD)	no	1		
5.1.5.8	Diameter 300 mm (OD)	no	1		
5.1.5.9	Diameter 315 mm (OD)	no	1		
5.1.6	O-PVC pipe Class 16				
5.1.6.1	Diameter 100 mm (OD)	no	1		
5.1.6.2	Diameter 150 mm (OD)	no	1		
5.1.6.3	Diameter 160 mm (OD)	no	1		
5.1.6.4	Diameter 200 mm (OD)	no	1		
5.1.6.5	Diameter 225 mm (OD)	no	1		
5.1.6.6	Diameter 250 mm (OD)	no	1		
5.1.6.7	Diameter 280 mm (OD)	no	1		
5.1.6.8	Diameter 300 mm (OD)	no	1		
5.1.7	O-PVC pipe Class 20				
5.1.7.1	Diameter 100 mm (OD)	no	1		
5.1.7.2	Diameter 150 mm (OD)	no	1		
5.1.7.3	Diameter 160 mm (OD)	no	1		
5.1.7.4	Diameter 200 mm (OD)	no	1		
5.1.7.5	Diameter 225 mm (OD)	no	1		
5.1.7.6	Diameter 250 mm (OD)	no	1		
5.1.7.7	Diameter 280 mm (OD)	no	1		
5.1.7.8	Diameter 300 mm (OD)	no	1		
5.1.8	HDPE Pipe Class 6				
5.1.8.1	Diameter 20 mm (OD)	no	1		
5.1.8.2	Diameter 25 mm (OD)	no	1		
5.1.8.3	Diameter 32 mm (OD)	no	1		

5.1.8.4	Diameter 40 mm (OD)	no	1
5.1.8.5	Diameter 50 mm (OD)	no	1
5.1.8.6	Diameter 63 mm (OD)	no	1
5.1.8.7	Diameter 75 mm (OD)	no	1
5.1.8.8	Diameter 90 mm (OD)	no	1
5.1.8.9	Diameter 110 mm (OD)	no	1
5.1.8.10	Diameter 125 mm (OD)	no	1
5.1.8.11	Diameter 140 mm (OD)	no	1
5.1.8.12	Diameter 160 mm (OD)	no	1
5.1.8.13	Diameter 180 mm (OD)	no	1
5.1.8.14	Diameter 200 mm (OD)	no	1
5.1.8.15	Diameter 225 mm (OD)	no	1
5.1.8.16	Diameter 250 mm (OD)	no	1
HDPE Pipe Class 10			
5.1.9			
5.1.9.1	Diameter 20 mm (OD)	no	1
5.1.9.2	Diameter 25 mm(OD)	no	1
5.1.9.3	Diameter 32 mm (OD)	no	1
5.1.9.4	Diameter 40 mm (OD)	no	1
5.1.9.5	Diameter 50 mm (OD)	no	1
5.1.9.6	Diameter 63 mm (OD)	no	1
5.1.9.7	Diameter 75 mm (OD)	no	1
5.1.9.8	Diameter 90 mm (OD)	no	1
5.1.9.9	Diameter 110 mm (OD)	no	1
5.1.9.10	Diameter 125 mm (OD)	no	1
5.1.9.11	Diameter 140 mm (OD)	no	1
5.1.9.12	Diameter 160 mm (OD)	no	1
5.1.9.13	Diameter 180 mm (OD)	no	1
5.1.9.14	Diameter 200 mm (OD)	no	1
5.1.9.15	Diameter 225 mm (OD)	no	1
5.1.9.16	Diameter 250 mm (OD)	no	1
HDPE Pipe Class 12.5			
5.1.10			
5.1.10.1	Diameter 20 mm (OD)	no	1
5.1.10.2	Diameter 25 mm(OD)	no	1
5.1.10.3	Diameter 32 mm (OD)	no	1
5.1.10.4	Diameter 40 mm (OD)	no	1
5.1.10.5	Diameter 50 mm (OD)	no	1
5.1.10.6	Diameter 63 mm (OD)	no	1
5.1.10.7	Diameter 75 mm (OD)	no	1

5.1.10.8	Diameter 90 mm (OD)	no	1		
5.1.10.9	Diameter 110 mm (OD)	no	1		
5.1.10.10	Diameter 125 mm (OD)	no	1		
5.1.10.11	Diameter 140 mm (OD)	no	1		
5.1.10.12	Diameter 160 mm (OD)	no	1		
5.1.10.13	Diameter 180 mm (OD)	no	1		
5.1.10.14	Diameter 200 mm (OD)	no	1		
5.1.10.15	Diameter 225 mm (OD)	no	1		
5.1.10.16	Diameter 250 mm (OD)	no	1		
5.1.10.17	Diameter 280 mm (OD)	no	1		
5.1.10.18	Diameter 315 mm (OD)	no	1		
5.1.11	HDPE Pipe Class 16				
5.1.11.1	Diameter 20 mm (OD)	no	1		
5.1.11.2	Diameter 25 mm(OD)	no	1		
5.1.11.3	Diameter 32 mm (OD)	no	1		
5.1.11.4	Diameter 40 mm (OD)	no	1		
5.1.11.5	Diameter 50 mm (OD)	no	1		
5.1.11.6	Diameter 63 mm (OD)	no	1		
5.1.11.7	Diameter 75 mm (OD)	no	1		
5.1.11.8	Diameter 90 mm (OD)	no	1		
5.1.11.9	Diameter 110 mm (OD)	no	1		
5.1.11.10	Diameter 125 mm (OD)	no	1		
5.1.11.11	Diameter 140 mm (OD)	no	1		
5.1.11.12	Diameter 160 mm (OD)	no	1		
5.1.11.13	Diameter 180 mm (OD)	no	1		
5.1.11.14	Diameter 200 mm (OD)	no	1		
5.1.11.15	Diameter 225 mm (OD)	no	1		
5.1.11.16	Diameter 250 mm (OD)	no	1		
5.1.11.17	Diameter 280 mm (OD)	no	1		
5.1.11.18	Diameter 315 mm (OD)	no	1		
5.1.12	Ductile Iron Socket Pipe Class 40 (K9)				
5.1.12.1	Diameter 350 mm(OD)	no	1		
5.1.13	Steel Pipe Class 6				
5.1.13.1	Diameter 20 mm (ND)	no	1		
5.1.13.2	Diameter 25 mm(ND)	no	1		
5.1.13.3	Diameter 32 mm (ND)	no	1		
5.1.13.4	Diameter 40 mm (ND)	no	1		

5.1.13.5	Diameter 50 mm (ND)	no	1	
5.1.14	Steel Pipe Class 10			
5.1.14.1	Diameter 20 mm (ND)	no	1	
5.1.14.2	Diameter 25 mm(ND)	no	1	
5.1.14.3	Diameter 32 mm (ND)	no	1	
5.1.14.4	Diameter 40 mm (ND)	no	1	
5.1.14.5	Diameter 50 mm (ND)	no	1	
5.1.15	Steel Pipe Class 12			
5.1.15.1	Diameter 80 mm (ND)	no	1	
5.1.15.2	Diameter 90 mm (ND)	no	1	
5.1.15.3	Diameter 100 mm (ND)	no	1	
5.1.15.4	Diameter 125 mm (ND)	no	1	
5.1.15.5	Diameter 150 mm (ND)	no	1	
5.1.15.6	Diameter 200 mm (ND)	no	1	
5.1.15.7	Diameter 250 mm (ND)	no	1	
5.1.15.8	Diameter 300 mm (ND)	no	1	
5.1.15.9	Diameter 350 mm (ND)	no	1	
5.1.16	Steel Pipe Class 16			
5.1.16.1	Diameter 80 mm (ND)	no	1	
5.1.16.2	Diameter 90 mm (ND)	no	1	
5.1.16.3	Diameter 100 mm (ND)	no	1	
5.1.16.4	Diameter 125 mm (ND)	no	1	
5.1.16.5	Diameter 150 mm (ND)	no	1	
5.1.16.6	Diameter 200 mm (ND)	no	1	
5.1.16.7	Diameter 250 mm (ND)	no	1	
5.1.16.8	Diameter 300 mm (ND)	no	1	
5.1.16.9	Diameter 350 mm (ND)	no	1	
5.1.16.10	Diameter 400 mm (ND)	no	1	
5.1.16.11	Diameter 450 mm (ND)	no	1	
5.1.16.12	Diameter 500 mm (ND)	no	1	
5.1.16.13	Diameter 550 mm (ND)	no	1	
5.1.17	Steel Pipe Class 20			
5.1.17.1	Diameter 80 mm (ND)	no	1	
5.1.17.2	Diameter 90 mm (ND)	no	1	
5.1.17.3	Diameter 100 mm (ND)	no	1	
5.1.17.4	Diameter 125 mm (ND)	no	1	

5.1.17.5	Diameter 150 mm (ND)	no	1		
5.1.17.6	Diameter 200 mm (ND)	no	1		
5.1.17.7	Diameter 250 mm (ND)	no	1		
5.1.17.8	Diameter 300 mm (ND)	no	1		
5.1.17.9	Diameter 700 mm (ND)	no	1		
5.1.17.10	Diameter 800 mm (ND)	no	1		
5.1.17.11	Diameter 900 mm (ND)	no	1		
5.1.17.12	Diameter 1000 mm (ND)	no	1		
5.1.8	Steel Pipe Class 25				
5.1.18.1	Diameter 200 mm (ND)	no	1		
5.1.18.2	Diameter 250 mm (ND)	no	1		
5.1.18.3	Diameter 300 mm (ND)	no	1		
5.1.18.4	Diameter 350 mm (ND)	no	1		
5.1.18.5	Diameter 400 mm (ND)	no	1		
5.1.19	Steel Pipe Class 40				
5.1.19.1	Diameter 80 mm (ND)	no	1		
5.1.19.2	Diameter 90 mm (ND)	no	1		
5.1.19.3	Diameter 100 mm (ND)	no	1		
5.1.19.4	Diameter 125 mm (ND)	no	1		
5.1.19.5	Diameter 150 mm (ND)	no	1		
5.1.19.6	Diameter 200 mm (ND)	no	1		
5.1.19.7	Diameter 250 mm (ND)	no	1		
5.1.19.8	Diameter 300 mm (ND)	no	1		
5.1.19.9	Diameter 350 mm (ND)	no	1		
5.1.20	Steel Pipe Class 63				
5.1.20.1	Diameter 100 mm (ND)	no	1		
5.1.20.2	Diameter 125 mm (ND)	no	1		
5.1.20.3	Diameter 150 mm (ND)	no	1		
5.1.20.4	Diameter 200 mm (ND)	no	1		
5.1.20.5	Diameter 250 mm (ND)	no	1		
5.1.20.6	Diameter 300 mm (ND)	no	1		
5.1.20.7	Diameter 350 mm (ND)	no	1		
Note: The three quote system will be used to evaluate the material cost and add contractor's mark up		%			

SUB-TOTAL CARRIED FORWARD TO SUMMARY	
--------------------------------------	--

ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
6	PSG 8.16	SCHEDULE 2: PIPE SPECIALS AND FITTINGS				
6.1		Supply, deliver, store, protect and install.				
		<u>Bends</u>				
6.1.1		U-PVC pipe Class 9 (11.25°)				
6.1.1.1		Diameter 75 mm (OD)	no	1		
6.1.1.2		Diameter 90 mm (OD)	no	1		
6.1.1.3		Diameter 110 mm (OD)	no	1		
6.1.1.4		Diameter 125 mm (OD)	no	1		
6.1.1.5		Diameter 140 mm (OD)	no	1		
6.1.1.6		Diameter 160 mm (OD)	no	1		
6.1.1.7		Diameter 200 mm (OD)	no	1		
6.1.1.8		Diameter 250 mm (OD)	no	1		
6.1.2		U-PVC pipe Class 9 (22.5°)				
6.1.2.1		Diameter 75 mm (OD)	no	1		
6.1.2.2		Diameter 90 mm (OD)	no	1		
6.1.2.3		Diameter 110 mm (OD)	no	1		
6.1.2.4		Diameter 125 mm (OD)	no	1		
6.1.2.5		Diameter 140 mm (OD)	no	1		
6.1.2.6		Diameter 160 mm (OD)	no	1		
6.1.2.7		Diameter 200 mm (OD)	no	1		
6.1.2.8		Diameter 250 mm (OD)	no	1		
6.1.3		U-PVC pipe Class 9 (45°)				
6.1.3.1		Diameter 75 mm (OD)	no	1		
6.1.3.2		Diameter 90 mm (OD)	no	1		
6.1.3.3		Diameter 110 mm (OD)	no	1		

6.1.3.4	Diameter 125 mm (OD)	no	1		
6.1.3.5	Diameter 140 mm (OD)	no	1		
6.1.3.6	Diameter 160 mm (OD)	no	1		
6.1.3.7	Diameter 200 mm (OD)	no	1		
6.1.3.8	Diameter 250 mm (OD)	no	1		
6.1.4	U-PVC pipe Class 9 (90°)				
6.1.4.1	Diameter 75 mm (OD)	no	1		
6.1.4.2	Diameter 90 mm (OD)	no	1		
6.1.4.3	Diameter 110 mm (OD)	no	1		
6.1.4.4	Diameter 125 mm (OD)	no	1		
6.1.4.5	Diameter 140 mm (OD)	no	1		
6.1.4.6	Diameter 160 mm (OD)	no	1		
6.1.4.7	Diameter 200 mm (OD)	no	1		
6.1.4.8	Diameter 250 mm (OD)	no	1		
6.1.5	U-PVC pipe Class 16 (11.25°)				
6.1.5.1	Diameter 75 mm (OD)	no	1		
6.1.5.2	Diameter 90 mm (OD)	no	1		
6.1.5.3	Diameter 110 mm (OD)	no	1		
6.1.5.4	Diameter 125 mm (OD)	no	1		
6.1.5.5	Diameter 140 mm (OD)	no	1		
6.1.5.6	Diameter 160 mm (OD)	no	1		
6.1.5.7	Diameter 200 mm (OD)	no	1		
6.1.5.8	Diameter 250 mm (OD)	no	1		
6.1.5.9	Diameter 315 mm (OD)	no	1		
6.1.5.10	Diameter 355 mm (OD)	no	1		
6.1.6	U-PVC pipe Class 16 (22.5°)				
6.1.6.1	Diameter 75 mm (OD)	no	1		
6.1.6.2	Diameter 90 mm (OD)	no	1		
6.1.6.3	Diameter 110 mm (OD)	no	1		
6.1.6.4	Diameter 125 mm (OD)	no	1		
6.1.6.5	Diameter 140 mm (OD)	no	1		

6.1.6.6	Diameter 160 mm (OD)	no	1	
6.1.6.7	Diameter 200 mm (OD)	no	1	
6.1.6.8	Diameter 250 mm (OD)	no	1	
6.1.6.9	Diameter 315 mm (OD)	no	1	
6.1.6.10	Diameter 355 mm (OD)	no	1	
6.1.7	U-PVC pipe Class 16 (45°)			
6.1.7.1	Diameter 75 mm (OD)	no	1	
6.1.7.2	Diameter 90 mm (OD)	no	1	
6.1.7.3	Diameter 110 mm (OD)	no	1	
6.1.7.4	Diameter 125 mm (OD)	no	1	
6.1.7.5	Diameter 140 mm (OD)	no	1	
6.1.7.6	Diameter 160 mm (OD)	no	1	
6.1.7.7	Diameter 200 mm (OD)	no	1	
6.1.7.8	Diameter 250 mm (OD)	no	1	
6.1.7.9	Diameter 315 mm (OD)	no	1	
6.1.7.10	Diameter 355 mm (OD)	no	1	
6.1.8	U-PVC pipe Class 16 (90°)			
6.1.8.1	Diameter 75 mm (OD)	no	1	
6.1.8.2	Diameter 90 mm (OD)	no	1	
6.1.8.3	Diameter 110 mm (OD)	no	1	
6.1.8.4	Diameter 125 mm (OD)	no	1	
6.1.8.5	Diameter 140 mm (OD)	no	1	
6.1.8.6	Diameter 160 mm (OD)	no	1	
6.1.8.7	Diameter 200 mm (OD)	no	1	
6.1.8.8	Diameter 250 mm (OD)	no	1	
6.1.8.9	Diameter 315 mm (OD)	no	1	
6.1.8.10	Diameter 355 mm (OD)	no	1	
6.1.9	U-PVC pipe Class 25 (11.25°)			
6.1.9.1	Diameter 200 mm (OD)	no	1	
6.1.9.2	Diameter 250 mm (OD)	no	1	

6.1.9.3	Diameter 315 mm (OD)	no	1	
6.1.9.4	Diameter 355 mm (OD)	no	1	
6.1.10	U-PVC pipe Class 25 (22.5°)			
6.1.10.1	Diameter 200 mm (OD)	no	1	
6.1.10.2	Diameter 250 mm (OD)	no	1	
6.1.10.3	Diameter 315 mm (OD)	no	1	
6.1.10.4	Diameter 355 mm (OD)	no	1	
6.1.11	U-PVC pipe Class 25 (45°)			
6.1.11.1	Diameter 200 mm (OD)	no	1	
6.1.11.2	Diameter 250 mm (OD)	no	1	
6.1.11.3	Diameter 315 mm (OD)	no	1	
6.1.11.4	Diameter 355 mm (OD)	no	1	
6.1.12	U-PVC pipe Class 25 (90°)			
6.1.12.1	Diameter 200 mm (OD)	no	1	
6.1.12.2	Diameter 250 mm (OD)	no	1	
6.1.12.3	Diameter 315 mm (OD)	no	1	
6.1.12.4	Diameter 355 mm (OD)	no	1	
6.1.13	O-PVC pipe Class 9 (11.25°)			
6.1.13.1	Diameter 75 mm (OD)	no	1	
6.1.13.2	Diameter 90 mm (OD)	no	1	
6.1.13.3	Diameter 110 mm (OD)	no	1	
6.1.13.4	Diameter 125 mm (OD)	no	1	
6.1.13.5	Diameter 140 mm (OD)	no	1	
6.1.13.6	Diameter 160 mm (OD)	no	1	
6.1.13.7	Diameter 200 mm (OD)	no	1	
6.1.13.8	Diameter 250 mm (OD)	no	1	
6.1.13.9	Diameter 315 mm (OD)	no	1	
6.1.13.10	Diameter 355 mm (OD)	no	1	
6.1.14	O-PVC pipe Class 9 (22.5°)			

6.1.14.1	Diameter 75 mm (OD)	no	1	
6.1.14.2	Diameter 90 mm (OD)	no	1	
6.1.14.3	Diameter 110 mm (OD)	no	1	
6.1.14.4	Diameter 125 mm (OD)	no	1	
6.1.14.5	Diameter 140 mm (OD)	no	1	
6.1.14.6	Diameter 160 mm (OD)	no	1	
6.1.14.7	Diameter 200 mm (OD)	no	1	
6.1.14.8	Diameter 250 mm (OD)	no	1	
6.1.14.9	Diameter 315 mm (OD)	no	1	
6.1.14.10	Diameter 355 mm (OD)	no	1	
O-PVC pipe Class 9 (45°)				
6.1.15				
6.1.15.1	Diameter 75 mm (OD)	no	1	
6.1.15.2	Diameter 90 mm (OD)	no	1	
6.1.15.3	Diameter 110 mm (OD)	no	1	
6.1.15.4	Diameter 125 mm (OD)	no	1	
6.1.15.5	Diameter 140 mm (OD)	no	1	
6.1.15.6	Diameter 160 mm (OD)	no	1	
6.1.15.7	Diameter 200 mm (OD)	no	1	
6.1.15.8	Diameter 250 mm (OD)	no	1	
6.1.15.9	Diameter 315 mm (OD)	no	1	
6.1.15.10	Diameter 355 mm (OD)	no	1	
O-PVC pipe Class 9 (90°)				
6.1.16				
6.1.16.1	Diameter 75 mm (OD)	no	1	
6.1.16.2	Diameter 90 mm (OD)	no	1	
6.1.16.3	Diameter 110 mm (OD)	no	1	
6.1.16.4	Diameter 125 mm (OD)	no	1	
6.1.16.5	Diameter 140 mm (OD)	no	1	
6.1.16.6	Diameter 160 mm (OD)	no	1	
6.1.16.7	Diameter 200 mm (OD)	no	1	
6.1.16.8	Diameter 250 mm (OD)	no	1	
6.1.16.9	Diameter 315 mm (OD)	no	1	
6.1.16.10	Diameter 355 mm (OD)	no	1	

6.1.17	O-PVC pipe Class 16 (11.25°)				
6.1.17.1	Diameter 75 mm (OD)	no		1	
6.1.17.2	Diameter 90 mm (OD)	no		1	
6.1.17.3	Diameter 110 mm (OD)	no		1	
6.1.17.4	Diameter 125 mm (OD)	no		1	
6.1.17.5	Diameter 140 mm (OD)	no		1	
6.1.17.6	Diameter 160 mm (OD)	no		1	
6.1.17.7	Diameter 200 mm (OD)	no		1	
6.1.17.8	Diameter 250 mm (OD)	no		1	
6.1.17.9	Diameter 315 mm (OD)	no		1	
6.1.17.10	Diameter 355 mm (OD)	no		1	
6.1.18	O-PVC pipe Class 16 (22.5°)				
6.1.18.1	Diameter 75 mm (OD)	no		1	
6.1.18.2	Diameter 90 mm (OD)	no		1	
6.1.18.3	Diameter 110 mm (OD)	no		1	
6.1.18.4	Diameter 125 mm (OD)	no		1	
6.1.18.5	Diameter 140 mm (OD)	no		1	
6.1.18.6	Diameter 160 mm (OD)	no		1	
6.1.18.7	Diameter 200 mm (OD)	no		1	
6.1.18.8	Diameter 250 mm (OD)	no		1	
6.1.18.9	Diameter 315 mm (OD)	no		1	
6.1.18.10	Diameter 355 mm (OD)	no		1	
6.1.19	O-PVC pipe Class 16 (45°)				
6.1.19.1	Diameter 75 mm (OD)	no		1	
6.1.19.2	Diameter 90 mm (OD)	no		1	
6.1.19.3	Diameter 110 mm (OD)	no		1	
6.1.19.4	Diameter 125 mm (OD)	no		1	
6.1.19.5	Diameter 140 mm (OD)	no		1	
6.1.19.6	Diameter 160 mm (OD)	no		1	
6.1.19.7	Diameter 200 mm (OD)	no		1	
6.1.19.8	Diameter 250 mm (OD)	no		1	

6.1.19.9	Diameter 315 mm (OD)	no	1	
6.1.19.10	Diameter 355 mm (OD)	no	1	
6.1.20	O-PVC pipe Class 25 (90°)			
6.1.20.1	Diameter 75 mm (OD)	no	1	
6.1.20.2	Diameter 90 mm (OD)	no	1	
6.1.20.3	Diameter 110 mm (OD)	no	1	
6.1.20.4	Diameter 125 mm (OD)	no	1	
6.1.20.5	Diameter 140 mm (OD)	no	1	
6.1.20.6	Diameter 160 mm (OD)	no	1	
6.1.20.7	Diameter 200 mm (OD)	no	1	
6.1.20.8	Diameter 250 mm (OD)	no	1	
6.1.20.9	Diameter 315 mm (OD)	no	1	
6.1.20.10	Diameter 355 mm (OD)	no	1	
6.1.21	O-PVC pipe Class 25 (11.25°)			
6.1.21.1	Diameter 75 mm (OD)	no	1	
6.1.21.2	Diameter 90 mm (OD)	no	1	
6.1.21.3	Diameter 110 mm (OD)	no	1	
6.1.21.4	Diameter 125 mm (OD)	no	1	
6.1.21.5	Diameter 140 mm (OD)	no	1	
6.1.21.6	Diameter 160 mm (OD)	no	1	
6.1.21.7	Diameter 200 mm (OD)	no	1	
6.1.21.8	Diameter 250 mm (OD)	no	1	
6.1.21.9	Diameter 315 mm (OD)	no	1	
6.1.21.10	Diameter 355 mm (OD)	no	1	
6.1.22	O-PVC pipe Class 25 (22.5°)			
6.1.22.1	Diameter 75 mm (OD)	no	1	
6.1.22.2	Diameter 90 mm (OD)	no	1	
6.1.22.3	Diameter 110 mm (OD)	no	1	
6.1.22.4	Diameter 125 mm (OD)	no	1	
6.1.22.5	Diameter 140 mm (OD)	no	1	
6.1.22.6	Diameter 160 mm (OD)	no	1	

6.1.22.7	Diameter 200 mm (OD)	no	1	
6.1.22.8	Diameter 250 mm (OD)	no	1	
6.1.22.9	Diameter 315 mm (OD)	no	1	
6.1.22.10	Diameter 355 mm (OD)	no	1	
6.1.22.11	Diameter 400 mm (OD)	no	1	
6.1.22.12	Diameter 500 mm (OD)	no	1	
6.1.22.13	Diameter 560 mm (OD)	no	1	
6.1.22.14	Diameter 630 mm (OD)	no	1	
6.1.23	O-PVC pipe Class 25 (45°)			
6.1.23.1	Diameter 75 mm (OD)	no	1	
6.1.23.2	Diameter 90 mm (OD)	no	1	
6.1.23.3	Diameter 110 mm (OD)	no	1	
6.1.23.4	Diameter 125 mm (OD)	no	1	
6.1.23.5	Diameter 140 mm (OD)	no	1	
6.1.23.6	Diameter 160 mm (OD)	no	1	
6.1.23.7	Diameter 200 mm (OD)	no	1	
6.1.23.8	Diameter 250 mm (OD)	no	1	
6.1.23.9	Diameter 315 mm (OD)	no	1	
6.1.23.10	Diameter 355 mm (OD)	no	1	
6.1.24	O-PVC pipe Class 25 (90°)			
6.1.24.1	Diameter 75 mm (OD)	no	1	
6.1.24.2	Diameter 90 mm (OD)	no	1	
6.1.24.3	Diameter 110 mm (OD)	no	1	
6.1.24.4	Diameter 125 mm (OD)	no	1	
6.1.24.5	Diameter 140 mm (OD)	no	1	
6.1.24.6	Diameter 160 mm (OD)	no	1	
6.1.24.7	Diameter 200 mm (OD)	no	1	
6.1.24.8	Diameter 250 mm (OD)	no	1	
6.1.24.9	Diameter 315 mm (OD)	no	1	
6.1.24.10	Diameter 355 mm (OD)	no	1	
6.1.25	HDPE pipe Class 6 (11.25°)			

6.1.25.1	Diameter 40 mm (OD)	no	1	
6.1.25.2	Diameter 50 mm (OD)	no	1	
6.1.25.3	Diameter 63 mm (OD)	no	1	
6.1.25.4	Diameter 75 mm (OD)	no	1	
6.1.25.5	Diameter 90 mm (OD)	no	1	
6.1.25.6	Diameter 110 mm (OD)	no	1	
6.1.25.7	Diameter 125 mm (OD)	no	1	
6.1.25.8	Diameter 140 mm (OD)	no	1	
6.1.25.9	Diameter 160 mm (OD)	no	1	
6.1.25.10	Diameter 200 mm (OD)	no	1	
6.1.25.11	Diameter 250 mm (OD)	no	1	
6.1.25.12	Diameter 315 mm (OD)	no	1	
6.1.25.13	Diameter 355 mm (OD)	no	1	
HDPE pipe Class 6 (22.5°)				
6.1.26				
6.1.26.1	Diameter 40 mm (OD)	no	1	
6.1.26.2	Diameter 50 mm (OD)	no	1	
6.1.26.3	Diameter 63 mm (OD)	no	1	
6.1.26.4	Diameter 75 mm (OD)	no	1	
6.1.26.5	Diameter 90 mm (OD)	no	1	
6.1.26.6	Diameter 110 mm (OD)	no	1	
6.1.26.7	Diameter 125 mm (OD)	no	1	
6.1.26.8	Diameter 140 mm (OD)	no	1	
6.1.26.9	Diameter 160 mm (OD)	no	1	
6.1.26.10	Diameter 200 mm (OD)	no	1	
6.1.26.11	Diameter 250 mm (OD)	no	1	
6.1.26.12	Diameter 315 mm (OD)	no	1	
6.1.26.13	Diameter 355 mm (OD)	no	1	
HDPE pipe Class 6 (45°)				
6.1.27				
6.1.27.1	Diameter 40 mm (OD)	no	1	
6.1.27.2	Diameter 50 mm (OD)	no	1	
6.1.27.3	Diameter 63 mm (OD)	no	1	
6.1.27.4	Diameter 75 mm (OD)	no	1	

6.1.27.5	Diameter 90 mm (OD)	no	1
6.1.27.6	Diameter 110 mm (OD)	no	1
6.1.27.7	Diameter 125 mm (OD)	no	1
6.1.27.8	Diameter 140 mm (OD)	no	1
6.1.27.9	Diameter 160 mm (OD)	no	1
6.1.27.10	Diameter 200 mm (OD)	no	1
6.1.27.11	Diameter 250 mm (OD)	no	1
6.1.27.12	Diameter 315 mm (OD)	no	1
6.1.27.13	Diameter 355 mm (OD)	no	1
HDPE pipe Class 6 (90°)			
6.1.28			
6.1.28.1	Diameter 40 mm (OD)	no	1
6.1.28.2	Diameter 50 mm (OD)	no	1
6.1.28.3	Diameter 63 mm (OD)	no	1
6.1.28.4	Diameter 75 mm (OD)	no	1
6.1.28.5	Diameter 90 mm (OD)	no	1
6.1.28.6	Diameter 110 mm (OD)	no	1
6.1.28.7	Diameter 125 mm (OD)	no	1
6.1.28.8	Diameter 140 mm (OD)	no	1
6.1.28.9	Diameter 160 mm (OD)	no	1
6.1.28.10	Diameter 200 mm (OD)	no	1
6.1.28.11	Diameter 250 mm (OD)	no	1
6.1.28.12	Diameter 315 mm (OD)	no	1
6.1.28.13	Diameter 355 mm (OD)	no	1
HDPE pipe Class 10 (11.25°)			
6.1.29			
6.1.29.1	Diameter 40 mm (OD)	no	1
6.1.29.2	Diameter 50 mm (OD)	no	1
6.1.29.3	Diameter 63 mm (OD)	no	1
6.1.29.4	Diameter 75 mm (OD)	no	1
6.1.29.5	Diameter 90 mm (OD)	no	1
6.1.29.6	Diameter 110 mm (OD)	no	1
6.1.29.7	Diameter 125 mm (OD)	no	1
6.1.29.8	Diameter 140 mm (OD)	no	1

6.1.29.9	Diameter 160 mm (OD)	no	1	
6.1.29.10	Diameter 200 mm (OD)	no	1	
6.1.29.11	Diameter 250 mm (OD)	no	1	
6.1.29.12	Diameter 315 mm (OD)	no	1	
6.1.29.13	Diameter 355 mm (OD)	no	1	
6.1.30	HDPE pipe Class 10 (22.5°)			
6.1.30.1	Diameter 40 mm (OD)	no	1	
6.1.30.2	Diameter 50 mm (OD)	no	1	
6.1.30.3	Diameter 63 mm (OD)	no	1	
6.1.30.4	Diameter 75 mm (OD)	no	1	
6.1.30.5	Diameter 90 mm (OD)	no	1	
6.1.30.6	Diameter 110 mm (OD)	no	1	
6.1.30.7	Diameter 125 mm (OD)	no	1	
6.1.30.8	Diameter 140 mm (OD)	no	1	
6.1.30.9	Diameter 160 mm (OD)	no	1	
6.1.30.10	Diameter 200 mm (OD)	no	1	
6.1.30.11	Diameter 250 mm (OD)	no	1	
6.1.30.12	Diameter 315 mm (OD)	no	1	
6.1.30.13	Diameter 355 mm (OD)	no	1	
6.1.31	Ductile Iron Socket Pipe Class 40 (11.25° K9)			
	Diameter 350 mm(OD)	no	1	
6.1.32	Ductile Iron Socket Pipe Class 40 (22.5° K9)			
6.1.32.1	Diameter 350 mm(OD)	no	1	
6.1.33	Ductile Iron Socket Pipe Class 40 (45° K9)			
6.1.33.1	Diameter 350 mm(OD)	no	1	
6.1.34	Ductile Iron Socket Pipe Class 40 (90° K9)			
6.1.34.1	Diameter 350 mm(OD)	no	1	

6.1.43	Steel Pipe Class 16 (11.25°)			
6.1.43.1	Diameter 80 mm (ND)	no	1	
6.1.43.2	Diameter 90 mm (ND)	no	1	
6.1.43.3	Diameter 100 mm (ND)	no	1	
6.1.43.4	Diameter 125 mm (ND)	no	1	
6.1.43.5	Diameter 150 mm (ND)	no	1	
6.1.43.6	Diameter 200 mm (ND)	no	1	
6.1.43.7	Diameter 250 mm (ND)	no	1	
6.1.43.8	Diameter 300 mm (ND)	no	1	
6.1.43.9	Diameter 350 mm (ND)	no	1	
6.1.43.10	Diameter 400 mm (ND)	no	1	
6.1.43.11	Diameter 450 mm (ND)	no	1	
6.1.43.12	Diameter 500 mm (ND)	no	1	
6.1.43.13	Diameter 550 mm (ND)	no	1	
6.1.43.14	Diameter 600 mm (ND)	no	1	
6.1.44	Steel Pipe Class 16 (22.5°)			
6.1.44.1	Diameter 80 mm (ND)	no	1	
6.1.44.2	Diameter 90 mm (ND)	no	1	
6.1.44.3	Diameter 100 mm (ND)	no	1	
6.1.44.4	Diameter 125 mm (ND)	no	1	
6.1.44.5	Diameter 150 mm (ND)	no	1	
6.1.44.6	Diameter 200 mm (ND)	no	1	
6.1.44.7	Diameter 250 mm (ND)	no	1	
6.1.44.8	Diameter 300 mm (ND)	no	1	
6.1.44.9	Diameter 350 mm (ND)	no	1	
6.1.44.10	Diameter 400 mm (ND)	no	1	
6.1.44.11	Diameter 450 mm (ND)	no	1	
6.1.44.12	Diameter 500 mm (ND)	no	1	
6.1.44.13	Diameter 550 mm (ND)	no	1	
6.1.44.14	Diameter 600 mm (ND)	no	1	
6.1.45	Steel Pipe Class 16 (45°)			
6.1.45.1	Diameter 80 mm (ND)	no	1	

6.1.45.2	Diameter 90 mm (ND)	no	1
6.1.45.3	Diameter 100 mm (ND)	no	1
6.1.45.4	Diameter 125 mm (ND)	no	1
6.1.45.5	Diameter 150 mm (ND)	no	1
6.1.45.6	Diameter 200 mm (ND)	no	1
6.1.45.7	Diameter 250 mm (ND)	no	1
6.1.45.8	Diameter 300 mm (ND)	no	1
6.1.45.9	Diameter 350 mm (ND)	no	1
6.1.45.10	Diameter 400 mm (ND)	no	1
6.1.45.11	Diameter 450 mm (ND)	no	1
6.1.45.12	Diameter 500 mm (ND)	no	1
6.1.45.13	Diameter 550 mm (ND)	no	1
6.1.45.14	Diameter 600 mm (ND)	no	1
Steel Pipe Class 16 (90°)			
6.1.46			
6.1.46.1	Diameter 80 mm (ND)	no	1
6.1.46.2	Diameter 90 mm (ND)	no	1
6.1.46.3	Diameter 100 mm (ND)	no	1
6.1.46.4	Diameter 125 mm (ND)	no	1
6.1.46.5	Diameter 150 mm (ND)	no	1
6.1.46.6	Diameter 200 mm (ND)	no	1
6.1.46.7	Diameter 250 mm (ND)	no	1
6.1.46.8	Diameter 300 mm (ND)	no	1
6.1.46.9	Diameter 350 mm (ND)	no	1
6.1.46.10	Diameter 400 mm (ND)	no	1
6.1.46.11	Diameter 450 mm (ND)	no	1
6.1.46.12	Diameter 500 mm (ND)	no	1
6.1.46.13	Diameter 550 mm (ND)	no	1
6.1.46.14	Diameter 600 mm (ND)	no	1
Steel Pipe Class 40 (11.25°)			
6.1.47			
6.1.47.1	Diameter 80 mm (ND)	no	1
6.1.47.2	Diameter 90 mm (ND)	no	1

6.1.47.3	Diameter 100 mm (ND)	no	1	
6.1.47.4	Diameter 125 mm (ND)	no	1	
6.1.47.5	Diameter 150 mm (ND)	no	1	
6.1.47.6	Diameter 200 mm (ND)	no	1	
6.1.47.7	Diameter 250 mm (ND)	no	1	
6.1.47.8	Diameter 300 mm (ND)	no	1	
6.1.47.9	Diameter 350 mm (ND)	no	1	
Steel Pipe Class 40 (22.5°)				
6.1.48				
6.1.48.1	Diameter 80 mm (ND)	no	1	
6.1.48.2	Diameter 90 mm (ND)	no	1	
6.1.48.3	Diameter 100 mm (ND)	no	1	
6.1.48.4	Diameter 125 mm (ND)	no	1	
6.1.48.5	Diameter 150 mm (ND)	no	1	
6.1.48.6	Diameter 200 mm (ND)	no	1	
6.1.48.7	Diameter 250 mm (ND)	no	1	
6.1.48.8	Diameter 300 mm (ND)	no	1	
6.1.48.9	Diameter 350 mm (ND)	no	1	
Steel Pipe Class 40 (45°)				
6.1.49				
6.1.49.1	Diameter 80 mm (ND)	no	1	
6.1.49.2	Diameter 90 mm (ND)	no	1	
6.1.49.3	Diameter 100 mm (ND)	no	1	
6.1.49.4	Diameter 125 mm (ND)	no	1	
6.1.49.5	Diameter 150 mm (ND)	no	1	
6.1.49.6	Diameter 200 mm (ND)	no	1	
6.1.49.7	Diameter 250 mm (ND)	no	1	
6.1.49.8	Diameter 300 mm (ND)	no	1	
6.1.49.9	Diameter 350 mm (ND)	no	1	
Steel Pipe Class 40 (90°)				
6.1.50				
6.1.50.1	Diameter 80 mm (ND)	no	1	
6.1.50.2	Diameter 90 mm (ND)	no	1	
6.1.50.3	Diameter 100 mm (ND)	no	1	

6.1.50.4	Diameter 125 mm (ND)	no	1	
6.1.50.5	Diameter 150 mm (ND)	no	1	
6.1.50.6	Diameter 200 mm (ND)	no	1	
6.1.50.7	Diameter 250 mm (ND)	no	1	
6.1.50.8	Diameter 300 mm (ND)	no	1	
6.1.50.9	Diameter 350 mm (ND)	no	1	
Steel Pipe Class 63 (11.25°)				
6.1.51				
6.1.51.1	Diameter 100 mm (ND)	no	1	
6.1.51.2	Diameter 125 mm (ND)	no	1	
6.1.51.3	Diameter 150 mm (ND)	no	1	
6.1.51.4	Diameter 200 mm (ND)	no	1	
6.1.51.5	Diameter 250 mm (ND)	no	1	
6.1.51.6	Diameter 300 mm (ND)	no	1	
6.1.51.7	Diameter 350 mm (ND)	no	1	
6.1.51.8	Diameter 400 mm (ND)	no	1	
Steel Pipe Class 63 (22.5°)				
6.1.52				
6.1.52.1	Diameter 20 mm (ND)	no	1	
6.1.52.2	Diameter 25 mm(ND)	no	1	
6.1.52.3	Diameter 32 mm (ND)	no	1	
6.1.52.4	Diameter 40 mm (ND)	no	1	
6.1.52.5	Diameter 50 mm (ND)	no	1	
6.1.52.6	Diameter 65 mm (ND)	no	1	
6.1.52.7	Diameter 80 mm (ND)	no	1	
6.1.52.8	Diameter 90 mm (ND)	no	1	
6.1.52.9	Diameter 100 mm (ND)	no	1	
6.1.52.10	Diameter 125 mm (ND)	no	1	
6.1.52.11	Diameter 150 mm (ND)	no	1	
6.1.52.12	Diameter 200 mm (ND)	no	1	
6.1.52.13	Diameter 250 mm (ND)	no	1	
6.1.52.14	Diameter 300 mm (ND)	no	1	
6.1.52.15	Diameter 350 mm (ND)	no	1	
6.1.52.16	Diameter 400 mm (ND)	no	1	

6.1.53	Steel Pipe Class 63 (45°)				
6.1.53.1	Diameter 20 mm (ND)	no	1		
6.1.53.2	Diameter 25 mm(ND)	no	1		
6.1.53.3	Diameter 32 mm (ND)	no	1		
6.1.53.4	Diameter 40 mm (ND)	no	1		
6.1.53.5	Diameter 50 mm (ND)	no	1		
6.1.53.6	Diameter 65 mm (ND)	no	1		
6.1.53.7	Diameter 80 mm (ND)	no	1		
6.1.53.8	Diameter 90 mm (ND)	no	1		
6.1.53.9	Diameter 100 mm (ND)	no	1		
6.1.53.10	Diameter 125 mm (ND)	no	1		
6.1.53.11	Diameter 150 mm (ND)	no	1		
6.1.53.12	Diameter 200 mm (ND)	no	1		
6.1.53.13	Diameter 250 mm (ND)	no	1		
6.1.53.14	Diameter 300 mm (ND)	no	1		
6.1.53.15	Diameter 350 mm (ND)	no	1		
6.1.54	Steel Pipe Class 63 (90°)				
6.1.54.1	Diameter 20 mm (ND)	no	1		
6.1.54.2	Diameter 25 mm(ND)	no	1		
6.1.54.3	Diameter 32 mm (ND)	no	1		
6.1.54.4	Diameter 40 mm (ND)	no	1		
6.1.54.5	Diameter 50 mm (ND)	no	1		
6.1.54.6	Diameter 65 mm (ND)	no	1		
6.1.54.7	Diameter 80 mm (ND)	no	1		
6.1.54.8	Diameter 90 mm (ND)	no	1		
6.1.54.9	Diameter 100 mm (ND)	no	1		
6.1.54.10	Diameter 125 mm (ND)	no	1		
6.1.54.11	Diameter 150 mm (ND)	no	1		
6.1.54.12	Diameter 200 mm (ND)	no	1		
6.1.54.13	Diameter 250 mm (ND)	no	1		
6.1.54.14	Diameter 300 mm (ND)	no	1		
6.1.54.15	Diameter 350 mm (ND)	no	1		

6.1.56.8	Diameter 140 mm (OD)	no	1	
6.1.56.9	Diameter 160 mm (OD)	no	1	
6.1.56.10	Diameter 200 mm (OD)	no	1	
6.1.56.11	Diameter 250 mm (OD)	no	1	
6.1.56.12	Diameter 315 mm (OD)	no	1	
6.1.56.13	Diameter 355 mm (OD)	no	1	
6.1.56.14	Diameter 400 mm (OD)	no	1	
6.1.56.15	Diameter 500 mm (OD)	no	1	
6.1.56.16	Diameter 560 mm (OD)	no	1	
6.1.56.17	Diameter 630 mm (OD)	no	1	
6.1.57	U-PVC pipe Class 20			
6.1.57.1	Diameter 40 mm (OD)	no	1	
6.1.57.2	Diameter 50 mm (OD)	no	1	
6.1.57.3	Diameter 63 mm (OD)	no	1	
6.1.57.4	Diameter 75 mm (OD)	no	1	
6.1.57.5	Diameter 90 mm (OD)	no	1	
6.1.57.6	Diameter 110 mm (OD)	no	1	
6.1.57.7	Diameter 125 mm (OD)	no	1	
6.1.57.8	Diameter 140 mm (OD)	no	1	
6.1.57.9	Diameter 160 mm (OD)	no	1	
6.1.57.10	Diameter 200 mm (OD)	no	1	
6.1.57.11	Diameter 250 mm (OD)	no	1	
6.1.57.12	Diameter 315 mm (OD)	no	1	
6.1.57.13	Diameter 355 mm (OD)	no	1	
6.1.57.14	Diameter 400 mm (OD)	no	1	
6.1.57.15	Diameter 500 mm (OD)	no	1	
6.1.57.16	Diameter 560 mm (OD)	no	1	
6.1.57.17	Diameter 630 mm (OD)	no	1	
6.1.58	HDPE Pipe Class 12.5			
6.1.58.1	Diameter 20 mm (OD)	no	1	
6.1.58.2	Diameter 25 mm(OD)	no	1	

6.1.58.3	Diameter 32 mm (OD)	no	1
6.1.58.4	Diameter 40 mm (OD)	no	1
6.1.58.5	Diameter 50 mm (OD)	no	1
6.1.58.6	Diameter 63 mm (OD)	no	1
6.1.58.7	Diameter 75 mm (OD)	no	1
6.1.58.8	Diameter 90 mm (OD)	no	1
6.1.58.9	Diameter 110 mm (OD)	no	1
6.1.58.10	Diameter 125 mm (OD)	no	1
6.1.58.11	Diameter 140 mm (OD)	no	1
6.1.58.12	Diameter 160 mm (OD)	no	1
6.1.58.13	Diameter 180 mm (OD)	no	1
6.1.58.14	Diameter 200 mm (OD)	no	1
6.1.58.15	Diameter 225 mm (OD)	no	1
6.1.58.16	Diameter 250 mm (OD)	no	1
6.1.58.17	Diameter 280 mm (OD)	no	1
6.1.58.18	Diameter 315 mm (OD)	no	1
6.1.58.19	Diameter 355 mm (OD)	no	1
6.1.58.20	Diameter 400 mm (OD)	no	1
HDPE Pipe Class 16			
6.1.59			
6.1.59.1	Diameter 20 mm (OD)	no	1
6.1.59.2	Diameter 25 mm(OD)	no	1
6.1.59.3	Diameter 32 mm (OD)	no	1
6.1.59.4	Diameter 40 mm (OD)	no	1
6.1.59.5	Diameter 50 mm (OD)	no	1
6.1.59.6	Diameter 63 mm (OD)	no	1
6.1.59.7	Diameter 75 mm (OD)	no	1
6.1.59.8	Diameter 90 mm (OD)	no	1
6.1.59.9	Diameter 110 mm (OD)	no	1
6.1.59.10	Diameter 125 mm (OD)	no	1
6.1.59.11	Diameter 140 mm (OD)	no	1
6.1.59.12	Diameter 160 mm (OD)	no	1
6.1.59.13	Diameter 180 mm (OD)	no	1
6.1.59.14	Diameter 200 mm (OD)	no	1

6.1.59.15	Diameter 225 mm (OD)	no	1
6.1.59.16	Diameter 250 mm (OD)	no	1
6.1.59.17	Diameter 280 mm (OD)	no	1
6.1.59.18	Diameter 315 mm (OD)	no	1
6.1.59.19	Diameter 355 mm (OD)	no	1
6.1.59.20	Diameter 400 mm (OD)	no	1
6.1.60	Ductile Iron Socket Pipe Class 40 (K9)		
6.1.60.1	Diameter 350 mm(OD)	no	1
6.1.61	Steel Pipe Class 12		
6.1.61.1	Diameter 20 mm (ND)	no	1
6.1.61.2	Diameter 25 mm(ND)	no	1
6.1.61.3	Diameter 32 mm (ND)	no	1
6.1.61.4	Diameter 40 mm (ND)	no	1
6.1.61.5	Diameter 50 mm (ND)	no	1
6.1.61.6	Diameter 65 mm (ND)	no	1
6.1.61.7	Diameter 80 mm (ND)	no	1
6.1.61.8	Diameter 90 mm (ND)	no	1
6.1.61.9	Diameter 100 mm (ND)	no	1
6.1.61.10	Diameter 125 mm (ND)	no	1
6.1.61.11	Diameter 150 mm (ND)	no	1
6.1.61.12	Diameter 200 mm (ND)	no	1
6.1.61.13	Diameter 250 mm (ND)	no	1
6.1.61.14	Diameter 300 mm (ND)	no	1
6.1.61.15	Diameter 350 mm (ND)	no	1
6.1.61.16	Diameter 400 mm (ND)	no	1
6.1.61.17	Diameter 450 mm (ND)	no	1
6.1.61.18	Diameter 500 mm (ND)	no	1
6.1.61.19	Diameter 550 mm (ND)	no	1
6.1.61.20	Diameter 600 mm (ND)	no	1
6.1.61.21	Diameter 700 mm (ND)	no	1
6.1.61.22	Diameter 800 mm (ND)	no	1
6.1.61.23	Diameter 900 mm (ND)	no	1

6.1.61.24	Diameter 1000 mm (ND)	no	1
Steel Pipe Class 16			
6.1.62	Diameter 20 mm (ND)	no	1
6.1.62.1	Diameter 25 mm(ND)	no	1
6.1.62.2	Diameter 32 mm (ND)	no	1
6.1.62.3	Diameter 40 mm (ND)	no	1
6.1.62.4	Diameter 50 mm (ND)	no	1
6.1.62.5	Diameter 65 mm (ND)	no	1
6.1.62.6	Diameter 80 mm (ND)	no	1
6.1.62.7	Diameter 90 mm (ND)	no	1
6.1.62.8	Diameter 100 mm (ND)	no	1
6.1.62.9	Diameter 125 mm (ND)	no	1
6.1.62.10	Diameter 150 mm (ND)	no	1
6.1.62.11	Diameter 200 mm (ND)	no	1
6.1.62.12	Diameter 250 mm (ND)	no	1
6.1.62.13	Diameter 300 mm (ND)	no	1
6.1.62.14	Diameter 350 mm (ND)	no	1
6.1.62.15	Diameter 400 mm (ND)	no	1
6.1.62.16	Diameter 450 mm (ND)	no	1
6.1.62.17	Diameter 500 mm (ND)	no	1
6.1.62.18	Diameter 550 mm (ND)	no	1
6.1.62.19	Diameter 600 mm (ND)	no	1
6.1.62.20	Diameter 700 mm (ND)	no	1
6.1.62.21	Diameter 800 mm (ND)	no	1
6.1.62.22	Diameter 900 mm (ND)	no	1
6.1.62.23	Diameter 1000 mm (ND)	no	1
Steel Pipe Class 20			
6.1.63	Diameter 20 mm (ND)	no	1
6.1.63.1	Diameter 25 mm(ND)	no	1
6.1.63.2	Diameter 32 mm (ND)	no	1
6.1.63.3	Diameter 40 mm (ND)	no	1
6.1.63.4	Diameter 50 mm (ND)	no	1

6.1.63.6	Diameter 65 mm (ND)	no	1
6.1.63.7	Diameter 80 mm (ND)	no	1
6.1.63.8	Diameter 90 mm (ND)	no	1
6.1.63.9	Diameter 100 mm (ND)	no	1
6.1.63.10	Diameter 125 mm (ND)	no	1
6.1.63.11	Diameter 150 mm (ND)	no	1
6.1.63.12	Diameter 200 mm (ND)	no	1
6.1.63.13	Diameter 250 mm (ND)	no	1
6.1.63.14	Diameter 300 mm (ND)	no	1
6.1.63.15	Diameter 350 mm (ND)	no	1
6.1.63.16	Diameter 400 mm (ND)	no	1
6.1.63.17	Diameter 450 mm (ND)	no	1
6.1.63.18	Diameter 500 mm (ND)	no	1
6.1.63.19	Diameter 550 mm (ND)	no	1
6.1.63.20	Diameter 600 mm (ND)	no	1
6.1.63.21	Diameter 700 mm (ND)	no	1
6.1.63.22	Diameter 800 mm (ND)	no	1
6.1.63.23	Diameter 900 mm (ND)	no	1
6.1.63.24	Diameter 1000 mm (ND)	no	1
Steel Pipe Class 25			
6.1.64			
6.1.64.1	Diameter 20 mm (ND)	no	1
6.1.64.2	Diameter 25 mm(ND)	no	1
6.1.64.3	Diameter 32 mm (ND)	no	1
6.1.64.4	Diameter 40 mm (ND)	no	1
6.1.64.5	Diameter 50 mm (ND)	no	1
6.1.64.6	Diameter 65 mm (ND)	no	1
6.1.64.7	Diameter 80 mm (ND)	no	1
6.1.64.8	Diameter 90 mm (ND)	no	1
6.1.64.9	Diameter 100 mm (ND)	no	1
6.1.64.10	Diameter 125 mm (ND)	no	1
6.1.64.11	Diameter 150 mm (ND)	no	1
6.1.64.12	Diameter 200 mm (ND)	no	1
6.1.64.13	Diameter 250 mm (ND)	no	1

6.1.64.14	Diameter 300 mm (ND)	no	1
6.1.64.15	Diameter 350 mm (ND)	no	1
6.1.64.16	Diameter 400 mm (ND)	no	1
6.1.64.17	Diameter 450 mm (ND)	no	1
6.1.64.18	Diameter 500 mm (ND)	no	1
6.1.64.19	Diameter 550 mm (ND)	no	1
6.1.64.20	Diameter 600 mm (ND)	no	1
6.1.64.21	Diameter 700 mm (ND)	no	1
6.1.64.22	Diameter 800 mm (ND)	no	1
6.1.64.23	Diameter 900 mm (ND)	no	1
6.1.64.24	Diameter 1000 mm (ND)	no	1
Steel Pipe Class 40			
6.1.65	Diameter 20 mm (ND)	no	1
6.1.65.1	Diameter 25 mm(ND)	no	1
6.1.65.2	Diameter 32 mm (ND)	no	1
6.1.65.3	Diameter 40 mm (ND)	no	1
6.1.65.4	Diameter 50 mm (ND)	no	1
6.1.65.5	Diameter 65 mm (ND)	no	1
6.1.65.6	Diameter 80 mm (ND)	no	1
6.1.65.7	Diameter 90 mm (ND)	no	1
6.1.65.8	Diameter 100 mm (ND)	no	1
6.1.65.9	Diameter 125 mm (ND)	no	1
6.1.65.10	Diameter 150 mm (ND)	no	1
6.1.65.11	Diameter 200 mm (ND)	no	1
6.1.65.12	Diameter 250 mm (ND)	no	1
6.1.65.13	Diameter 300 mm (ND)	no	1
6.1.65.14	Diameter 350 mm (ND)	no	1
6.1.65.15	Diameter 400 mm (ND)	no	1
6.1.65.16	Diameter 450 mm (ND)	no	1
6.1.65.17	Diameter 500 mm (ND)	no	1
6.1.65.18	Diameter 550 mm (ND)	no	1
6.1.65.19	Diameter 600 mm (ND)	no	1
6.1.65.20	Diameter 700 mm (ND)	no	1

6.1.65.22	Diameter 800 mm (ND)	no	1		
6.1.65.23	Diameter 900 mm (ND)	no	1		
6.1.65.24	Diameter 1000 mm (ND)	no	1		
6.1.66	Steel Pipe Class 63				
6.1.66.1	Diameter 20 mm (ND)	no	1		
6.1.66.2	Diameter 25 mm(ND)	no	1		
6.1.66.3	Diameter 32 mm (ND)	no	1		
6.1.66.4	Diameter 40 mm (ND)	no	1		
6.1.66.5	Diameter 50 mm (ND)	no	1		
6.1.66.6	Diameter 65 mm (ND)	no	1		
6.1.66.7	Diameter 80 mm (ND)	no	1		
6.1.66.8	Diameter 90 mm (ND)	no	1		
6.1.66.9	Diameter 100 mm (ND)	no	1		
6.1.66.10	Diameter 125 mm (ND)	no	1		
6.1.66.11	Diameter 150 mm (ND)	no	1		
6.1.66.12	Diameter 200 mm (ND)	no	1		
6.1.66.13	Diameter 250 mm (ND)	no	1		
6.1.66.14	Diameter 300 mm (ND)	no	1		
6.1.66.15	Diameter 350 mm (ND)	no	1		
6.1.66.16	Diameter 400 mm (ND)	no	1		
6.1.66.17	Diameter 450 mm (ND)	no	1		
6.1.66.18	Diameter 500 mm (ND)	no	1		
6.1.66.19	Diameter 550 mm (ND)	no	1		
6.1.66.20	Diameter 600 mm (ND)	no	1		
6.1.66.21	Diameter 700 mm (ND)	no	1		
6.1.66.22	Diameter 800 mm (ND)	no	1		
6.1.66.23	Diameter 900 mm (ND)	no	1		
6.1.66.24	Diameter 1000 mm (ND)	no	1		
	Supply and deliver				

Couplings					
Ranger Coupling Class 16					
6.1.67	Diameter 50-72 mm (OD)	no	1		
6.1.67.1	Diameter 72 - 85 mm(OD)	no	1		
6.1.67.2	Diameter 88 - 103 mm (OD)	no	1		
6.1.67.3	Diameter 109 - 128 mm (OD)	no	1		
6.1.67.4	Diameter 138 - 153 mm (OD)	no	1		
6.1.67.5	Diameter 150 - 170 mm (OD)	no	1		
6.1.67.6	Diameter 159 - 182 mm (OD)	no	1		
6.1.67.7	Diameter 192 - 210 mm (OD)	no	1		
6.1.67.8	Diameter 218 - 235 mm (OD)	no	1		
6.1.67.9	Diameter 230 - 247 mm (OD)	no	1		
6.1.67.10	Diameter 242 - 262 mm (OD)	no	1		
6.1.67.11	Diameter 250 - 267 mm (OD)	no	1		
6.1.67.12	Diameter 272 -289 mm (OD)	no	1		
6.1.67.13	Diameter 315 - 332 mm (OD)	no	1		
6.1.67.14	Diameter 322 - 340 mm (OD)	no	1		
6.1.67.15	Diameter 340 - 360 mm (OD)	no	1		
6.1.67.16	Diameter 351 - 378 mm (OD)	no	1		
6.1.67.17	Diameter 374 - 391 mm (OD)	no	1		
6.1.67.18	Diameter 390 - 410 mm (OD)	no	1		
6.1.67.19	Diameter 417 - 437 mm (OD)	no	1		
6.1.67.20	Diameter 454 - 460 mm (OD)	no	1		
6.1.67.21	Diameter 476 - 493 mm (OD)	no	1		
6.1.67.22	Diameter 480 - 500 mm (OD)	no	1		
6.1.67.23	Diameter 500 - 508 mm (OD)	no	1		
6.1.67.24	Diameter 526 - 546 mm (OD)	no	1		
6.1.67.25	Diameter 608 - 636mm (OD)	no	1		
6.1.67.26					
Ranger Step Coupling Class 16					
6.1.68	Diameter 50-72 / 72 - 85 mm (OD)	no	1		
6.1.68.1	Diameter 88 - 103 / 109 - 128 mm (OD)	no	1		
6.1.68.2	Diameter 138 - 153 / 150 - 170 mm (OD)	no	1		
6.1.68.3					

6.1.68.4	Diameter 159 - 182 mm / 192 - 210 (OD)	no	1
6.1.68.5	Diameter 218 - 235 / 230 - 247 mm (OD)	no	1
6.1.68.6	Diameter 242 - 262 / 250 - 267 mm (OD)	no	1
6.1.68.7	Diameter 250 - 267 / 272 - 289 mm (OD)	no	1
6.1.69	Dedicated Coupling Class 10		
6.1.69.1	Diameter 50 mm (ND)	no	1
6.1.69.2	Diameter 65 mm (ND)	no	1
6.1.69.3	Diameter 80 mm (ND)	no	1
6.1.69.4	Diameter 90 mm (ND)	no	1
6.1.69.5	Diameter 100 mm (ND)	no	1
6.1.69.6	Diameter 125 mm (ND)	no	1
6.1.69.7	Diameter 150 mm (ND)	no	1
6.1.69.8	Diameter 200 mm (ND)	no	1
6.1.69.9	Diameter 250 mm (ND)	no	1
6.1.69.10	Diameter 300 mm (ND)	no	1
6.1.69.11	Diameter 350 mm (ND)	no	1
6.1.69.12	Diameter 400 mm (ND)	no	1
6.1.69.13	Diameter 450 mm (ND)	no	1
6.1.69.14	Diameter 500 mm (ND)	no	1
6.1.69.15	Diameter 550 mm (ND)	no	1
6.1.69.16	Diameter 600 mm (ND)	no	1
6.1.69.17	Diameter 650 mm (ND)	no	1
6.1.70	Dedicated Coupling Class 16		
6.1.70.1	Diameter 50 mm (ND)	no	1
6.1.70.2	Diameter 65 mm (ND)	no	1
6.1.70.3	Diameter 80 mm (ND)	no	1
6.1.70.4	Diameter 90 mm (ND)	no	1
6.1.70.5	Diameter 100 mm (ND)	no	1

6.1.70.6	Diameter 125 mm (ND)	no	1
6.1.70.7	Diameter 150 mm (ND)	no	1
6.1.70.8	Diameter 200 mm (ND)	no	1
6.1.70.9	Diameter 250 mm (ND)	no	1
6.1.70.10	Diameter 300 mm (ND)	no	1
6.1.70.11	Diameter 350 mm (ND)	no	1
6.1.70.12	Diameter 400 mm (ND)	no	1
6.1.70.13	Diameter 450 mm (ND)	no	1
6.1.70.14	Diameter 500 mm (ND)	no	1
6.1.70.15	Diameter 550 mm (ND)	no	1
6.1.70.16	Diameter 600 mm (ND)	no	1
6.1.70.17	Diameter 650 mm (ND)	no	1
6.1.70.18	Diameter 800 mm (ND)	no	1
6.1.70.19	Diameter 900 mm (ND)	no	1
6.1.70.20	Diameter 1000 mm (ND)	no	1
6.1.70.21	Diameter 1050 mm (ND)	no	1
Dedicated Coupling Class 25			
6.1.71			
6.1.71.1	Diameter 50 mm (ND)	no	1
6.1.71.2	Diameter 65 mm (ND)	no	1
6.1.71.3	Diameter 80 mm (ND)	no	1
6.1.71.4	Diameter 90 mm (ND)	no	1
6.1.71.5	Diameter 100 mm (ND)	no	1
6.1.71.6	Diameter 125 mm (ND)	no	1
6.1.71.7	Diameter 150 mm (ND)	no	1
6.1.71.8	Diameter 200 mm (ND)	no	1
6.1.71.9	Diameter 250 mm (ND)	no	1
6.1.71.10	Diameter 300 mm (ND)	no	1
6.1.71.11	Diameter 350 mm (ND)	no	1
6.1.71.12	Diameter 400 mm (ND)	no	1
6.1.71.13	Diameter 450 mm (ND)	no	1
6.1.71.14	Diameter 500 mm (ND)	no	1
6.1.71.15	Diameter 550 mm (ND)	no	1
6.1.71.16	Diameter 600 mm (ND)	no	1

6.1.71.17	Diameter 650 mm (ND)	no	1
6.1.71.18	Diameter 800 mm (ND)	no	1
6.1.71.19	Diameter 900 mm (ND)	no	1
6.1.71.20	Diameter 1000 mm (ND)	no	1
6.1.71.21	Diameter 1050 mm (ND)	no	1
6.1.72	Dedicated Coupling Class 40		
6.1.72.1	Diameter 50 mm (ND)	no	1
6.1.72.2	Diameter 65 mm (ND)	no	1
6.1.72.3	Diameter 80 mm (ND)	no	1
6.1.72.4	Diameter 90 mm (ND)	no	1
6.1.72.5	Diameter 100 mm (ND)	no	1
6.1.72.6	Diameter 125 mm (ND)	no	1
6.1.72.7	Diameter 150 mm (ND)	no	1
6.1.72.8	Diameter 200 mm (ND)	no	1
6.1.72.9	Diameter 250 mm (ND)	no	1
6.1.72.10	Diameter 300 mm (ND)	no	1
6.1.72.11	Diameter 350 mm (ND)	no	1
6.1.73	Dedicated Step Coupling Class 10		
6.1.73.1	Diameter 50 mm (ND)	no	1
6.1.73.2	Diameter 65 mm (ND)	no	1
6.1.73.3	Diameter 80 mm (ND)	no	1
6.1.73.4	Diameter 90 mm (ND)	no	1
6.1.73.5	Diameter 100 mm (ND)	no	1
6.1.73.6	Diameter 125 mm (ND)	no	1
6.1.73.7	Diameter 150 mm (ND)	no	1
6.1.73.8	Diameter 200 mm (ND)	no	1
6.1.73.9	Diameter 250 mm (ND)	no	1
6.1.73.10	Diameter 300 mm (ND)	no	1
6.1.73.11	Diameter 350 mm (ND)	no	1
6.1.74	Dedicated Step Coupling Class 16		
6.1.74.1	Diameter 50 mm (ND)	no	1

6.1.74.2	Diameter 65 mm (ND)	no	1
6.1.74.3	Diameter 80 mm (ND)	no	1
6.1.74.4	Diameter 90 mm (ND)	no	1
6.1.74.5	Diameter 100 mm (ND)	no	1
6.1.74.6	Diameter 125 mm (ND)	no	1
6.1.74.7	Diameter 150 mm (ND)	no	1
6.1.74.8	Diameter 200 mm (ND)	no	1
6.1.74.9	Diameter 250 mm (ND)	no	1
6.1.74.10	Diameter 300 mm (ND)	no	1
6.1.74.11	Diameter 350 mm (ND)	no	1
6.1.74.12	Diameter 400 mm (ND)	no	1
6.1.74.13	Diameter 450 mm (ND)	no	1
6.1.74.14	Diameter 500 mm (ND)	no	1
6.1.74.15	Diameter 550 mm (ND)	no	1
6.1.75	Dedicated Step Coupling Class 25		
6.1.75.1	Diameter 50 mm (ND)	no	1
6.1.75.2	Diameter 65 mm (ND)	no	1
6.1.75.3	Diameter 80 mm (ND)	no	1
6.1.75.4	Diameter 90 mm (ND)	no	1
6.1.75.5	Diameter 100 mm (ND)	no	1
6.1.75.6	Diameter 125 mm (ND)	no	1
6.1.75.7	Diameter 150 mm (ND)	no	1
6.1.75.8	Diameter 200 mm (ND)	no	1
6.1.75.9	Diameter 250 mm (ND)	no	1
6.1.75.10	Diameter 300 mm (ND)	no	1
6.1.75.11	Diameter 350 mm (ND)	no	1
6.1.75.12	Diameter 400 mm (ND)	no	1
6.1.75.13	Diameter 450 mm (ND)	no	1
6.1.75.14	Diameter 500 mm (ND)	no	1
6.1.75.15	Diameter 550 mm (ND)	no	1
6.1.75.16	Diameter 600 mm (ND)	no	1
6.1.75.17	Diameter 650 mm (ND)	no	1
6.1.75.18	Diameter 800 mm (ND)	no	1
6.1.75.19	Diameter 900 mm (ND)	no	1

6.1.75.20	Diameter 1000 mm (ND)	no	1	
6.1.75.21	Diameter 1050 mm (ND)	no	1	
6.1.76	Dedicated Step Coupling Class 40 (Long Barrel)			
6.1.76.1	Diameter 50 mm (ND)	no	1	
6.1.76.2	Diameter 65 mm (ND)	no	1	
6.1.76.3	Diameter 80 mm (ND)	no	1	
6.1.76.4	Diameter 90 mm (ND)	no	1	
6.1.76.5	Diameter 100 mm (ND)	no	1	
6.1.76.6	Diameter 125 mm (ND)	no	1	
6.1.76.7	Diameter 150 mm (ND)	no	1	
6.1.76.8	Diameter 200 mm (ND)	no	1	
6.1.76.9	Diameter 250 mm (ND)	no	1	
6.1.76.10	Diameter 300 mm (ND)	no	1	
6.1.76.11	Diameter 350 mm (ND)	no	1	
6.1.76.12	Diameter 400 mm (ND)	no	1	
6.1.76.13	Diameter 450 mm (ND)	no	1	
6.1.76.14	Diameter 500 mm (ND)	no	1	
6.1.76.15	Diameter 550 mm (ND)	no	1	
6.1.76.16	Diameter 600 mm (ND)	no	1	
6.1.76.17	Diameter 650 mm (ND)	no	1	
6.1.76.18	Diameter 800 mm (ND)	no	1	
6.1.76.19	Diameter 900 mm (ND)	no	1	
6.1.76.20	Diameter 1000 mm (ND)	no	1	
6.1.76.21	Diameter 1050 mm (ND)	no	1	
Total carried forward				
Total brought forward				
	Supply and deliver			
	Flange Adaptors			
6.1.77	Ranger Flange Adaptor Class 16			
6.1.77.1	Diameter 50-72 mm (OD)	no	1	

6.1.77.2	Diameter 72 - 85 mm(OD)	no	1
6.1.77.3	Diameter 88 - 103 mm (OD)	no	1
6.1.77.4	Diameter 109 - 128 mm (OD)	no	1
6.1.77.5	Diameter 138 - 153 mm (OD)	no	1
6.1.77.6	Diameter 150 - 170 mm (OD)	no	1
6.1.77.7	Diameter 159 - 182 mm (OD)	no	1
6.1.77.8	Diameter 192 - 210 mm (OD)	no	1
6.1.77.9	Diameter 218 - 235 mm (OD)	no	1
6.1.77.10	Diameter 242 - 262 mm (OD)	no	1
6.1.77.11	Diameter 250 - 267 mm (OD)	no	1
6.1.77.12	Diameter 272 -289 mm (OD)	no	1
6.1.77.13	Diameter 315 - 332 mm (OD)	no	1
6.1.77.14	Diameter 322 - 340 mm (OD)	no	1
6.1.77.15	Diameter 340 - 360 mm (OD)	no	1
6.1.77.16	Diameter 351 - 378 mm (OD)	no	1
6.1.77.17	Diameter 374 - 391 mm (OD)	no	1
6.1.77.18	Diameter 417 - 437 mm (OD)	no	1
6.1.77.19	Diameter 425 - 442 mm (OD)	no	1
6.1.77.20	Diameter 480 - 500 mm (OD)	no	1
6.1.77.21	Diameter 526 - 546 mm (OD)	no	1
6.1.77.22	Diameter 608 - 636mm (OD)	no	1
Gripper Flange Adapter Class 10			
6.1.78			
6.1.78.1	Diameter 50 mm (ND)	no	1
6.1.78.2	Diameter 65 mm (ND)	no	1
6.1.78.3	Diameter 80 mm (ND)	no	1
6.1.78.4	Diameter 90 mm (ND)	no	1
6.1.78.5	Diameter 100 mm (ND)	no	1
6.1.78.6	Diameter 125 mm (ND)	no	1
6.1.78.7	Diameter 150 mm (ND)	no	1

Gripper Flange Adaptor Class 16

6.1.179	Diameter 50 mm (ND)	no	1
6.1.179.1	Diameter 65 mm (ND)	no	1
6.1.179.2	Diameter 80 mm (ND)	no	1
6.1.179.3	Diameter 90 mm (ND)	no	1
6.1.179.4	Diameter 100 mm (ND)	no	1
6.1.179.5	Diameter 125 mm (ND)	no	1
6.1.179.6	Diameter 150 mm (ND)	no	1
6.1.179.7	Diameter 200 mm (ND)	no	1
6.1.179.8	Diameter 250 mm (ND)	no	1
6.1.179.9	Diameter 300 mm (ND)	no	1
6.1.179.10			

Dedicated Flange Adaptor Class 10

6.1.180	Diameter 50 mm (ND)	no	1
6.1.180.1	Diameter 65 mm (ND)	no	1
6.1.180.2	Diameter 80 mm (ND)	no	1
6.1.180.3	Diameter 90 mm (ND)	no	1
6.1.180.4	Diameter 100 mm (ND)	no	1
6.1.180.5	Diameter 125 mm (ND)	no	1
6.1.180.6	Diameter 150 mm (ND)	no	1
6.1.180.7	Diameter 200 mm (ND)	no	1
6.1.180.8	Diameter 250 mm (ND)	no	1
6.1.180.9	Diameter 300 mm (ND)	no	1
6.1.180.10	Diameter 350 mm (ND)	no	1
6.1.180.11	Diameter 400 mm (ND)	no	1
6.1.180.12	Diameter 450 mm (ND)	no	1
6.1.180.13	Diameter 500 mm (ND)	no	1
6.1.180.14	Diameter 550 mm (ND)	no	1
6.1.180.15	Diameter 600 mm (ND)	no	1
6.1.180.16	Diameter 650 mm (ND)	no	1
6.1.180.17	Diameter 800 mm (ND)	no	1
6.1.180.18	Diameter 900 mm (ND)	no	1
6.1.180.19	Diameter 1000 mm (ND)	no	1
6.1.180.20	Diameter 1050 mm (ND)	no	1
6.1.180.21			

Dedicated Flange Adaptor Class 16					
6.1.90	Diameter 50 mm (ND)	no	1		
6.1.90.1	Diameter 65 mm (ND)	no	1		
6.1.90.2	Diameter 80 mm (ND)	no	1		
6.1.90.3	Diameter 90 mm (ND)	no	1		
6.1.90.4	Diameter 100 mm (ND)	no	1		
6.1.90.5	Diameter 125 mm (ND)	no	1		
6.1.90.6	Diameter 150 mm (ND)	no	1		
6.1.90.7	Diameter 200 mm (ND)	no	1		
6.1.90.8	Diameter 250 mm (ND)	no	1		
6.1.90.9	Diameter 300 mm (ND)	no	1		
6.1.90.10	Diameter 350 mm (ND)	no	1		
6.1.90.11	Diameter 400 mm (ND)	no	1		
6.1.90.12	Diameter 450 mm (ND)	no	1		
6.1.90.13	Diameter 500 mm (ND)	no	1		
6.1.90.14	Diameter 550 mm (ND)	no	1		
6.1.90.15	Diameter 600 mm (ND)	no	1		
6.1.90.16	Diameter 650 mm (ND)	no	1		
6.1.90.17	Diameter 800 mm (ND)	no	1		
6.1.90.18	Diameter 900 mm (ND)	no	1		
6.1.90.19	Diameter 1000 mm (ND)	no	1		
6.1.90.20	Diameter 1050 mm (ND)	no	1		
6.1.90.21					
Dedicated Flange Adaptor Class 25					
6.1.91	Diameter 50 mm (ND)	no	1		
6.1.91.1	Diameter 65 mm (ND)	no	1		
6.1.91.2	Diameter 80 mm (ND)	no	1		
6.1.91.3	Diameter 90 mm (ND)	no	1		
6.1.91.4	Diameter 100 mm (ND)	no	1		
6.1.91.5	Diameter 125 mm (ND)	no	1		
6.1.91.6	Diameter 150 mm (ND)	no	1		
6.1.91.7	Diameter 200 mm (ND)	no	1		
6.1.91.8	Diameter 250 mm (ND)	no	1		
6.1.91.9					

6.1.91.10	Diameter 300 mm (ND)	no	1
6.1.91.11	Diameter 350 mm (ND)	no	1
6.1.91.12	Diameter 400 mm (ND)	no	1
6.1.91.13	Diameter 450 mm (ND)	no	1
6.1.91.14	Diameter 500 mm (ND)	no	1
6.1.91.15	Diameter 550 mm (ND)	no	1
6.1.91.16	Diameter 600 mm (ND)	no	1
6.1.91.17	Diameter 650 mm (ND)	no	1
6.1.91.18	Diameter 800 mm (ND)	no	1
6.1.91.19	Diameter 900 mm (ND)	no	1
6.1.91.20	Diameter 1000 mm (ND)	no	1
6.1.91.21	Diameter 1050 mm (ND)	no	1
Dedicated Flange Adaptor Class 40			
6.1.92.			
6.1.92.1	Diameter 50 mm (ND)	no	1
6.1.92.2	Diameter 65 mm (ND)	no	1
6.1.92.3	Diameter 80 mm (ND)	no	1
6.1.92.4	Diameter 90 mm (ND)	no	1
6.1.92.5	Diameter 100 mm (ND)	no	1
6.1.92.6	Diameter 125 mm (ND)	no	1
6.1.92.7	Diameter 150 mm (ND)	no	1
6.1.92.8	Diameter 200 mm (ND)	no	1
6.1.92.9	Diameter 250 mm (ND)	no	1
6.1.92.10	Diameter 300 mm (ND)	no	1
6.1.92.11	Diameter 350 mm (ND)	no	1
6.1.92.12	Diameter 400 mm (ND)	no	1
6.1.92.13	Diameter 450 mm (ND)	no	1
6.1.92.14	Diameter 500 mm (ND)	no	1
6.1.92.15	Diameter 550 mm (ND)	no	1
6.1.92.16	Diameter 600 mm (ND)	no	1
6.1.92.17	Diameter 650 mm (ND)	no	1
6.1.92.18	Diameter 800 mm (ND)	no	1
6.1.92.19	Diameter 900 mm (ND)	no	1
6.1.92.20	Diameter 1000 mm (ND)	no	1

6.1.92.21	Diameter 1050 mm (ND)	no	1	
Total carried forward				
Total carried forward				
6.2	Supply and deliver Un-Equal Tees			
6.2.1	U-PVC pipe Class 9			
6.2.1.1	Diameter 50 - 40 mm (OD)	no	1	
6.2.1.2	Diameter 63 -40 mm (OD)	no	1	
6.2.1.3	Diameter 63 -50 mm (OD)	no	1	
6.2.1.4	Diameter 75 - 40 mm (OD)	no	1	
6.2.1.5	Diameter 75 - 50 mm (OD)	no	1	
6.2.1.6	Diameter 75 - 63 mm (OD)	no	1	
6.2.1.7	Diameter 90 - 40 mm (OD)	no	1	
6.2.1.8	Diameter 90 - 50 mm (OD)	no	1	
6.2.1.9	Diameter 90 - 63 mm (OD)	no	1	
6.2.1.10	Diameter 90 -75 mm (OD)	no	1	
6.2.1.11	Diameter 110 - 40 mm (OD)	no	1	
6.2.1.12	Diameter 110 - 50 mm (OD)	no	1	
6.2.1.13	Diameter 110 - 75 mm (OD)	no	1	
6.2.1.14	Diameter 110 - 90mm (OD)	no	1	
6.2.1.15	Diameter 125 - 40 mm (OD)	no	1	
6.2.1.16	Diameter 125 - 50 mm (OD)	no	1	
6.2.1.17	Diameter 125 - 75 mm (OD)	no	1	
6.2.1.18	Diameter 125 - 90 mm (OD)	no	1	
6.2.1.19	Diameter 125 - 110 mm (OD)	no	1	
6.2.1.20	Diameter 140 - 40 mm (OD)	no	1	
6.2.1.21	Diameter 140 - 50 mm (OD)	no	1	
6.2.1.22	Diameter 140 - 75 mm (OD)	no	1	
6.2.1.23	Diameter 140 - 90 mm (OD)	no	1	
6.2.1.24	Diameter 140 - 110 mm (OD)	no	1	
6.2.1.25	Diameter 140 - 125 mm (OD)	no	1	
6.2.1.26	Diameter 160 - 40 mm (OD)	no	1	

6.2.1.1.27	Diameter 160 - 50 mm (OD)	no	1
6.2.1.1.28	Diameter 160 - 75 mm (OD)	no	1
6.2.1.1.29	Diameter 160 - 90 mm (OD)	no	1
6.2.1.1.30	Diameter 160 - 110 mm (OD)	no	1
6.2.1.1.31	Diameter 160 - 125 mm (OD)	no	1
6.2.1.1.32	Diameter 160 - 140 mm (OD)	no	1
6.2.1.1.33	Diameter 200 - 40 mm (OD)	no	1
6.2.1.1.34	Diameter 200 - 50 mm (OD)	no	1
6.2.1.1.35	Diameter 200 - 75 mm (OD)	no	1
6.2.1.1.36	Diameter 200 - 90 mm (OD)	no	1
6.2.1.1.37	Diameter 200 - 110 mm (OD)	no	1
6.2.1.1.38	Diameter 200 - 125 mm (OD)	no	1
6.2.1.1.39	Diameter 200 - 140 mm (OD)	no	1
6.2.1.1.40	Diameter 200 - 160 mm (OD)	no	1
6.2.1.1.41	Diameter 250 - 40 mm (OD)	no	1
6.2.1.1.42	Diameter 250 - 50 mm (OD)	no	1
6.2.1.1.43	Diameter 250 - 75 mm (OD)	no	1
6.2.1.1.44	Diameter 250 - 90 mm (OD)	no	1
6.2.1.1.45	Diameter 250 - 110 mm (OD)	no	1
6.2.1.1.46	Diameter 250 - 125 mm (OD)	no	1
6.2.1.1.47	Diameter 250 - 140 mm (OD)	no	1
6.2.1.1.48	Diameter 250 - 160mm (OD)	no	1
6.2.1.1.49	Diameter 250 - 200 mm (OD)	no	1
6.2.1.1.50	Diameter 315 - 40 mm (OD)	no	1
6.2.1.1.51	Diameter 315 - 50 mm (OD)	no	1
6.2.1.1.52	Diameter 315 - 75 mm (OD)	no	1
6.2.1.1.53	Diameter 315 - 90 mm (OD)	no	1
6.2.1.1.54	Diameter 315 - 110 mm (OD)	no	1
6.2.1.1.55	Diameter 315 - 125 mm (OD)	no	1
6.2.1.1.56	Diameter 315 - 140 mm (OD)	no	1
6.2.1.1.57	Diameter 315 - 160 mm (OD)	no	1
6.2.1.1.58	Diameter 315 - 200 mm (OD)	no	1
6.2.1.1.59	Diameter 315 - 250 mm (OD)	no	1
6.2.1.1.60	Diameter 355 - 40 mm (OD)	no	1

6.2.1.61	Diameter 355 - 50 mm (OD)	no	1
6.2.1.62	Diameter 355 - 75 mm (OD)	no	1
6.2.1.63	Diameter 355 - 90 mm (OD)	no	1
6.2.1.64	Diameter 355 - 110 mm (OD)	no	1
6.2.1.65	Diameter 355 - 125 mm (OD)	no	1
6.2.1.66	Diameter 355 - 140 mm (OD)	no	1
6.2.1.67	Diameter 355 - 160 mm (OD)	no	1
6.2.1.68	Diameter 355 - 200 mm (OD)	no	1
6.2.1.69	Diameter 355 - 250 mm (OD)	no	1
6.2.1.70	Diameter 355 - 315 mm (OD)	no	1
6.2.1.71	Diameter 400- 40 mm (OD)	no	1
6.2.1.72	Diameter 400- 50 mm (OD)	no	1
6.2.1.73	Diameter 400- 75 mm (OD)	no	1
6.2.1.74	Diameter 400- 90 mm (OD)	no	1
6.2.1.75	Diameter 400- 110 mm (OD)	no	1
6.2.1.76	Diameter 400- 125 mm (OD)	no	1
6.2.1.77	Diameter 400- 140 mm (OD)	no	1
6.2.1.78	Diameter 400- 160 mm (OD)	no	1
6.2.1.79	Diameter 400- 200 mm (OD)	no	1
6.2.1.80	Diameter 400- 250 mm (OD)	no	1
6.2.1.81	Diameter 400- 315 mm (OD)	no	1
6.2.1.82	Diameter 400- 355 mm (OD)	no	1
6.2.1.83	Diameter 500 - 40mm (OD)	no	1
6.2.1.84	Diameter 500 - 60 mm (OD)	no	1
6.2.1.85	Diameter 500 - 75 mm (OD)	no	1
6.2.1.86	Diameter 500 - 90 mm (OD)	no	1
6.2.1.87	Diameter 500 - 110 mm (OD)	no	1
6.2.1.88	Diameter 500 - 125 mm (OD)	no	1
6.2.1.89	Diameter 500 - 140 mm (OD)	no	1
6.2.1.90	Diameter 500 - 160 mm (OD)	no	1
6.2.1.91	Diameter 500 - 200 mm (OD)	no	1
6.2.1.92	Diameter 500 - 250 mm (OD)	no	1
6.2.1.93	Diameter 500 - 315 mm (OD)	no	1
6.2.1.94	Diameter 500 - 355 mm (OD)	no	1

6.2.1.95	Diameter 500 - 400 mm (OD)	no	1	
6.2.2	U-PVC pipe Class 12			
6.2.2.1	Diameter 50 - 40 mm (OD)	no	1	
6.2.2.2	Diameter 63 - 40 mm (OD)	no	1	
6.2.2.3	Diameter 63 - 50 mm (OD)	no	1	
6.2.2.4	Diameter 75 - 40 mm (OD)	no	1	
6.2.2.5	Diameter 75 - 50 mm (OD)	no	1	
6.2.2.6	Diameter 75 - 63 mm (OD)	no	1	
6.2.2.7	Diameter 90 - 40 mm (OD)	no	1	
6.2.2.8	Diameter 90 - 50 mm (OD)	no	1	
6.2.2.9	Diameter 90 - 63 mm (OD)	no	1	
6.2.2.10	Diameter 90 - 75 mm (OD)	no	1	
6.2.2.11	Diameter 110 - 40 mm (OD)	no	1	
6.2.2.12	Diameter 110 - 50 mm (OD)	no	1	
6.2.2.13	Diameter 110 - 75 mm (OD)	no	1	
6.2.2.14	Diameter 110 - 90mm (OD)	no	1	
6.2.2.15	Diameter 125 - 40 mm (OD)	no	1	
6.2.2.16	Diameter 125 - 50 mm (OD)	no	1	
6.2.2.17	Diameter 125 - 75 mm (OD)	no	1	
6.2.2.18	Diameter 125 - 90 mm (OD)	no	1	
6.2.2.19	Diameter 125 - 110 mm (OD)	no	1	
6.2.2.20	Diameter 140 - 40 mm (OD)	no	1	
6.2.2.21	Diameter 140 - 50 mm (OD)	no	1	
6.2.2.22	Diameter 140 - 75 mm (OD)	no	1	
6.2.2.23	Diameter 140 - 90 mm (OD)	no	1	
6.2.2.24	Diameter 140 - 110 mm (OD)	no	1	
6.2.2.25	Diameter 140 - 125 mm (OD)	no	1	
6.2.2.26	Diameter 160 - 40 mm (OD)	no	1	
6.2.2.27	Diameter 160 - 50 mm (OD)	no	1	
6.2.2.28	Diameter 160 - 75 mm (OD)	no	1	
6.2.2.29	Diameter 160 - 90 mm (OD)	no	1	
6.2.2.30	Diameter 160 - 110 mm (OD)	no	1	
6.2.2.31	Diameter 160 - 125 mm (OD)	no	1	

6.2.2.32	Diameter 160 - 140 mm (OD)	no	1
6.2.2.33	Diameter 200 - 40 mm (OD)	no	1
6.2.2.34	Diameter 200 - 50 mm (OD)	no	1
6.2.2.35	Diameter 200 - 75 mm (OD)	no	1
6.2.2.36	Diameter 200 - 90 mm (OD)	no	1
6.2.2.37	Diameter 200 - 110 mm (OD)	no	1
6.2.2.38	Diameter 200 - 125 mm (OD)	no	1
6.2.2.39	Diameter 200 - 140 mm (OD)	no	1
6.2.2.40	Diameter 200 - 160 mm (OD)	no	1
6.2.2.41	Diameter 250 - 40 mm (OD)	no	1
6.2.2.42	Diameter 250 - 50 mm (OD)	no	1
6.2.2.43	Diameter 250 - 75 mm (OD)	no	1
6.2.2.44	Diameter 250 - 90 mm (OD)	no	1
6.2.2.45	Diameter 250 - 110 mm (OD)	no	1
6.2.2.46	Diameter 250 - 125 mm (OD)	no	1
6.2.2.47	Diameter 250 - 140 mm (OD)	no	1
6.2.2.48	Diameter 250 - 160mm (OD)	no	1
6.2.2.49	Diameter 250 - 200 mm (OD)	no	1
6.2.2.50	Diameter 315 - 40 mm (OD)	no	1
6.2.2.51	Diameter 315 - 50 mm (OD)	no	1
6.2.2.52	Diameter 315 - 75 mm (OD)	no	1
6.2.2.53	Diameter 315 - 90 mm (OD)	no	1
6.2.2.54	Diameter 315 - 110 mm (OD)	no	1
6.2.2.55	Diameter 315 - 125 mm (OD)	no	1
6.2.2.56	Diameter 315 - 140 mm (OD)	no	1
6.2.2.57	Diameter 315 - 160 mm (OD)	no	1
6.2.2.58	Diameter 315 - 200 mm (OD)	no	1
6.2.2.59	Diameter 315 - 250 mm (OD)	no	1
6.2.2.60	Diameter 355 - 40 mm (OD)	no	1
6.2.2.61	Diameter 355 - 50 mm (OD)	no	1
6.2.2.62	Diameter 355 - 75 mm (OD)	no	1
6.2.2.63	Diameter 355 - 90 mm (OD)	no	1
6.2.2.64	Diameter 355 - 110 mm (OD)	no	1
6.2.2.65	Diameter 355 - 125 mm (OD)	no	1

6.2.2.66	Diameter 355 - 140 mm (OD)	no	1
6.2.2.67	Diameter 355 - 160 mm (OD)	no	1
6.2.2.68	Diameter 355 - 200 mm (OD)	no	1
6.2.2.69	Diameter 355 - 250 mm (OD)	no	1
6.2.2.70	Diameter 355 - 315 mm (OD)	no	1
6.2.2.71	Diameter 400- 40 mm (OD)	no	1
6.2.2.72	Diameter 400- 50 mm (OD)	no	1
6.2.2.73	Diameter 400- 75 mm (OD)	no	1
6.2.2.74	Diameter 400- 90 mm (OD)	no	1
6.2.2.75	Diameter 400- 110 mm (OD)	no	1
6.2.2.76	Diameter 400- 125 mm (OD)	no	1
6.2.2.77	Diameter 400- 140 mm (OD)	no	1
6.2.2.78	Diameter 400- 160 mm (OD)	no	1
6.2.2.79	Diameter 400- 200 mm (OD)	no	1
6.2.2.80	Diameter 400- 250 mm (OD)	no	1
6.2.2.81	Diameter 400- 315 mm (OD)	no	1
6.2.2.82	Diameter 400- 355 mm (OD)	no	1
6.2.2.83	Diameter 500 - 40mm (OD)	no	1
6.2.2.84	Diameter 500 - 60 mm (OD)	no	1
6.2.2.85	Diameter 500 - 75 mm (OD)	no	1
6.2.2.86	Diameter 500 - 90 mm (OD)	no	1
6.2.2.87	Diameter 500 - 110 mm (OD)	no	1
6.2.2.88	Diameter 500 - 125 mm (OD)	no	1
6.2.2.89	Diameter 500 - 140 mm (OD)	no	1
6.2.2.90	Diameter 500 - 160 mm (OD)	no	1
6.2.2.91	Diameter 500 - 200 mm (OD)	no	1
6.2.2.92	Diameter 500 - 250 mm (OD)	no	1
6.2.2.93	Diameter 500 - 315 mm (OD)	no	1
6.2.2.94	Diameter 500 - 355 mm (OD)	no	1
6.2.2.95	Diameter 500 - 400 mm (OD)	no	1
6.2.3	U-PVC pipe Class 16		
6.2.3.1	Diameter 50 - 40 mm (OD)	no	1
6.2.3.2	Diameter 63 -40 mm (OD)	no	1

6.2.3.3	Diameter 63 -50 mm (OD)	no	1
6.2.3.4	Diameter 75 - 40 mm (OD)	no	1
6.2.3.5	Diameter 75 - 50 mm (OD)	no	1
6.2.3.6	Diameter 75 - 63 mm (OD)	no	1
6.2.3.7	Diameter 90 - 40 mm (OD)	no	1
6.2.3.8	Diameter 90 - 50 mm (OD)	no	1
6.2.3.9	Diameter 90 - 63 mm (OD)	no	1
6.2.3.10	Diameter 90 -75 mm (OD)	no	1
6.2.3.11	Diameter 110 - 40 mm (OD)	no	1
6.2.3.12	Diameter 110 - 50 mm (OD)	no	1
6.2.3.13	Diameter 110 - 75 mm (OD)	no	1
6.2.3.14	Diameter 110 - 90mm (OD)	no	1
6.2.3.15	Diameter 125 - 40 mm (OD)	no	1
6.2.3.16	Diameter 125 - 50 mm (OD)	no	1
6.2.3.17	Diameter 125 - 75 mm (OD)	no	1
6.2.3.18	Diameter 125 - 90 mm (OD)	no	1
6.2.3.19	Diameter 125 - 110 mm (OD)	no	1
6.2.3.20	Diameter 140 - 40 mm (OD)	no	1
6.2.3.21	Diameter 140 - 50 mm (OD)	no	1
6.2.3.22	Diameter 140 - 75 mm (OD)	no	1
6.2.3.23	Diameter 140 - 90 mm (OD)	no	1
6.2.3.24	Diameter 140 - 110 mm (OD)	no	1
6.2.3.25	Diameter 140 - 125 mm (OD)	no	1
6.2.3.26	Diameter 160 - 40 mm (OD)	no	1
6.2.3.27	Diameter 160 - 50 mm (OD)	no	1
6.2.3.28	Diameter 160 - 75 mm (OD)	no	1
6.2.3.29	Diameter 160 - 90 mm (OD)	no	1
6.2.3.30	Diameter 160 - 110 mm (OD)	no	1
6.2.3.31	Diameter 160 - 125 mm (OD)	no	1
6.2.3.32	Diameter 160 - 140 mm (OD)	no	1
6.2.3.33	Diameter 200 - 40 mm (OD)	no	1
6.2.3.34	Diameter 200 - 50 mm (OD)	no	1
6.2.3.35	Diameter 200 - 75 mm (OD)	no	1
6.2.3.36	Diameter 200 - 90 mm (OD)	no	1

6.2.3.37	Diameter 200 - 110 mm (OD)	no	1
6.2.3.38	Diameter 200 - 125 mm (OD)	no	1
6.2.3.39	Diameter 200 - 140 mm (OD)	no	1
6.2.3.40	Diameter 200 - 160 mm (OD)	no	1
6.2.3.41	Diameter 250 - 40 mm (OD)	no	1
6.2.3.42	Diameter 250 - 50 mm (OD)	no	1
6.2.3.43	Diameter 250 - 75 mm (OD)	no	1
6.2.3.44	Diameter 250 - 90 mm (OD)	no	1
6.2.3.45	Diameter 250 - 110 mm (OD)	no	1
6.2.3.46	Diameter 250 - 125 mm (OD)	no	1
6.2.3.47	Diameter 250 - 140 mm (OD)	no	1
6.2.3.48	Diameter 250 - 160mm (OD)	no	1
6.2.3.49	Diameter 250 - 200 mm (OD)	no	1
6.2.3.50	Diameter 315 - 40 mm (OD)	no	1
6.2.3.51	Diameter 315 - 50 mm (OD)	no	1
6.2.3.52	Diameter 315 - 75 mm (OD)	no	1
6.2.3.53	Diameter 315 - 90 mm (OD)	no	1
6.2.3.54	Diameter 315 - 110 mm (OD)	no	1
6.2.3.55	Diameter 315 - 125 mm (OD)	no	1
6.2.3.56	Diameter 315 - 140 mm (OD)	no	1
6.2.3.57	Diameter 315 - 160 mm (OD)	no	1
6.2.3.58	Diameter 315 - 200 mm (OD)	no	1
6.2.3.59	Diameter 315 - 250 mm (OD)	no	1
6.2.3.60	Diameter 355 - 40 mm (OD)	no	1
6.2.3.61	Diameter 355 - 50 mm (OD)	no	1
6.2.3.62	Diameter 355 - 75 mm (OD)	no	1
6.2.3.63	Diameter 355 - 90 mm (OD)	no	1
6.2.3.64	Diameter 355 - 110 mm (OD)	no	1
6.2.3.65	Diameter 355 - 125 mm (OD)	no	1
6.2.3.66	Diameter 355 - 140 mm (OD)	no	1
6.2.3.67	Diameter 355 - 160 mm (OD)	no	1
6.2.3.68	Diameter 355 - 200 mm (OD)	no	1
6.2.3.69	Diameter 355 - 250 mm (OD)	no	1
6.2.3.70	Diameter 355 - 315 mm (OD)	no	1

6.2.3.71	Diameter 400- 40 mm (OD)	no	1
6.2.3.72	Diameter 400- 50 mm (OD)	no	1
6.2.3.73	Diameter 400- 75 mm (OD)	no	1
6.2.3.74	Diameter 400- 90 mm (OD)	no	1
6.2.3.75	Diameter 400- 110 mm (OD)	no	1
6.2.3.76	Diameter 400- 125 mm (OD)	no	1
6.2.3.77	Diameter 400- 140 mm (OD)	no	1
6.2.3.78	Diameter 400- 160 mm (OD)	no	1
6.2.3.79	Diameter 400- 200 mm (OD)	no	1
6.2.3.80	Diameter 400- 250 mm (OD)	no	1
6.2.3.81	Diameter 400- 315 mm (OD)	no	1
6.2.3.82	Diameter 400- 355 mm (OD)	no	1
6.2.3.83	Diameter 500 - 40mm (OD)	no	1
6.2.3.84	Diameter 500 - 60 mm (OD)	no	1
6.2.3.85	Diameter 500 - 75 mm (OD)	no	1
6.2.3.86	Diameter 500 - 90 mm (OD)	no	1
6.2.3.87	Diameter 500 - 110 mm (OD)	no	1
6.2.3.88	Diameter 500 - 125 mm (OD)	no	1
6.2.3.89	Diameter 500 - 140 mm (OD)	no	1
6.2.3.90	Diameter 500 - 160 mm (OD)	no	1
6.2.3.91	Diameter 500 - 200 mm (OD)	no	1
6.2.3.92	Diameter 500 - 250 mm (OD)	no	1
6.2.3.93	Diameter 500 - 315 mm (OD)	no	1
6.2.3.94	Diameter 500 - 355 mm (OD)	no	1
6.2.3.95	Diameter 500 - 400 mm (OD)	no	1
U-PVC pipe Class 20			
6.2.4			
6.2.4.1	Diameter 50 - 40 mm (OD)	no	1
6.2.4.2	Diameter 63 -40 mm (OD)	no	1
6.2.4.3	Diameter 63 -50 mm (OD)	no	1
6.2.4.4	Diameter 75 - 40 mm (OD)	no	1
6.2.4.5	Diameter 75 - 50 mm (OD)	no	1
6.2.4.6	Diameter 75 - 63 mm (OD)	no	1
6.2.4.7	Diameter 90 - 40 mm (OD)	no	1

6.2.4.8	Diameter 90 - 50 mm (OD)	no	1
6.2.4.9	Diameter 90 - 63 mm (OD)	no	1
6.2.4.10	Diameter 90 - 75 mm (OD)	no	1
6.2.4.11	Diameter 110 - 40 mm (OD)	no	1
6.2.4.12	Diameter 110 - 50 mm (OD)	no	1
6.2.4.13	Diameter 110 - 75 mm (OD)	no	1
6.2.4.14	Diameter 110 - 90mm (OD)	no	1
6.2.4.15	Diameter 125 - 40 mm (OD)	no	1
6.2.4.16	Diameter 125 - 50 mm (OD)	no	1
6.2.4.17	Diameter 125 - 75 mm (OD)	no	1
6.2.4.18	Diameter 125 - 90 mm (OD)	no	1
6.2.4.19	Diameter 125 - 110 mm (OD)	no	1
6.2.4.20	Diameter 140 - 40 mm (OD)	no	1
6.2.4.21	Diameter 140 - 50 mm (OD)	no	1
6.2.4.22	Diameter 140 - 75 mm (OD)	no	1
6.2.4.23	Diameter 140 - 90 mm (OD)	no	1
6.2.4.24	Diameter 140 - 110 mm (OD)	no	1
6.2.4.25	Diameter 140 - 125 mm (OD)	no	1
6.2.4.26	Diameter 160 - 40 mm (OD)	no	1
6.2.4.27	Diameter 160 - 50 mm (OD)	no	1
6.2.4.28	Diameter 160 - 75 mm (OD)	no	1
6.2.4.29	Diameter 160 - 90 mm (OD)	no	1
6.2.4.30	Diameter 160 - 110 mm (OD)	no	1
6.2.4.31	Diameter 160 - 125 mm (OD)	no	1
6.2.4.32	Diameter 160 - 140 mm (OD)	no	1
6.2.4.33	Diameter 200 - 40 mm (OD)	no	1
6.2.4.34	Diameter 200 - 50 mm (OD)	no	1
6.2.4.35	Diameter 200 - 75 mm (OD)	no	1
6.2.4.36	Diameter 200 - 90 mm (OD)	no	1
6.2.4.37	Diameter 200 - 110 mm (OD)	no	1
6.2.4.38	Diameter 200 - 125 mm (OD)	no	1
6.2.4.39	Diameter 200 - 140 mm (OD)	no	1
6.2.4.40	Diameter 200 - 160 mm (OD)	no	1
6.2.4.41	Diameter 250 - 40 mm (OD)	no	1

6.2.4.42	Diameter 250 - 50 mm (OD)	no	1
6.2.4.43	Diameter 250 - 75 mm (OD)	no	1
6.2.4.44	Diameter 250 - 90 mm (OD)	no	1
6.2.4.45	Diameter 250 - 110 mm (OD)	no	1
6.2.4.46	Diameter 250 - 125 mm (OD)	no	1
6.2.4.47	Diameter 250 - 140 mm (OD)	no	1
6.2.4.48	Diameter 250 - 160mm (OD)	no	1
6.2.4.49	Diameter 250 - 200 mm (OD)	no	1
6.2.4.50	Diameter 315 - 40 mm (OD)	no	1
6.2.4.51	Diameter 315 - 50 mm (OD)	no	1
6.2.4.52	Diameter 315 - 75 mm (OD)	no	1
6.2.4.53	Diameter 315 - 90 mm (OD)	no	1
6.2.4.54	Diameter 315 - 110 mm (OD)	no	1
6.2.4.55	Diameter 315 - 125 mm (OD)	no	1
6.2.4.56	Diameter 315 - 140 mm (OD)	no	1
6.2.4.57	Diameter 315 - 160 mm (OD)	no	1
6.2.4.58	Diameter 315 - 200 mm (OD)	no	1
6.2.4.59	Diameter 315 - 250 mm (OD)	no	1
6.2.4.60	Diameter 355 - 40 mm (OD)	no	1
6.2.4.61	Diameter 355 - 50 mm (OD)	no	1
6.2.4.62	Diameter 355 - 75 mm (OD)	no	1
6.2.4.63	Diameter 355 - 90 mm (OD)	no	1
6.2.4.64	Diameter 355 - 110 mm (OD)	no	1
6.2.4.65	Diameter 355 - 125 mm (OD)	no	1
6.2.4.66	Diameter 355 - 140 mm (OD)	no	1
6.2.4.67	Diameter 355 - 160 mm (OD)	no	1
6.2.4.68	Diameter 355 - 200 mm (OD)	no	1
6.2.4.69	Diameter 355 - 250 mm (OD)	no	1
6.2.4.70	Diameter 355 - 315 mm (OD)	no	1
Steel Class 16 (Flanged both ends)			
6.2.5			
6.2.5.1	Diameter 50 - 40 mm (OD)	no	1
6.2.5.2	Diameter 63 -40 mm (OD)	no	1
6.2.5.3	Diameter 63 -50 mm (OD)	no	1

6.2.5.4	Diameter 75 - 40 mm (OD)	no	1
6.2.5.5	Diameter 75 - 50 mm (OD)	no	1
6.2.5.6	Diameter 75 - 63 mm (OD)	no	1
6.2.5.7	Diameter 90 - 40 mm (OD)	no	1
6.2.5.8	Diameter 90 - 50 mm (OD)	no	1
6.2.5.9	Diameter 90 - 63 mm (OD)	no	1
6.2.5.10	Diameter 90 - 75 mm (OD)	no	1
6.2.5.11	Diameter 110 - 40 mm (OD)	no	1
6.2.5.12	Diameter 110 - 50 mm (OD)	no	1
6.2.5.13	Diameter 110 - 75 mm (OD)	no	1
6.2.5.14	Diameter 110 - 90mm (OD)	no	1
6.2.5.15	Diameter 125 - 40 mm (OD)	no	1
6.2.5.16	Diameter 125 - 50 mm (OD)	no	1
6.2.5.17	Diameter 125 - 75 mm (OD)	no	1
6.2.5.18	Diameter 125 - 90 mm (OD)	no	1
6.2.5.19	Diameter 125 - 110 mm (OD)	no	1
6.2.5.20	Diameter 140 - 40 mm (OD)	no	1
6.2.5.21	Diameter 140 - 50 mm (OD)	no	1
6.2.5.22	Diameter 140 - 75 mm (OD)	no	1
6.2.5.23	Diameter 140 - 90 mm (OD)	no	1
6.2.5.24	Diameter 140 - 110 mm (OD)	no	1
6.2.5.25	Diameter 140 - 125 mm (OD)	no	1
6.2.5.26	Diameter 160 - 40 mm (OD)	no	1
6.2.5.27	Diameter 160 - 50 mm (OD)	no	1
6.2.5.28	Diameter 160 - 75 mm (OD)	no	1
6.2.5.29	Diameter 160 - 90 mm (OD)	no	1
6.2.5.30	Diameter 160 - 110 mm (OD)	no	1
6.2.5.31	Diameter 160 - 125 mm (OD)	no	1
6.2.5.32	Diameter 160 - 140 mm (OD)	no	1
6.2.5.33	Diameter 200 - 40 mm (OD)	no	1
6.2.5.34	Diameter 200 - 50 mm (OD)	no	1
6.2.5.35	Diameter 200 - 75 mm (OD)	no	1
6.2.5.36	Diameter 200 - 90 mm (OD)	no	1
6.2.5.37	Diameter 200 - 110 mm (OD)	no	1

6.2.5.38	Diameter 200 - 125 mm (OD)	no	1
6.2.5.39	Diameter 200 - 140 mm (OD)	no	1
6.2.5.40	Diameter 200 - 160 mm (OD)	no	1
6.2.5.41	Diameter 250 - 40 mm (OD)	no	1
6.2.5.42	Diameter 250 - 50 mm (OD)	no	1
6.2.5.43	Diameter 250 - 75 mm (OD)	no	1
6.2.5.44	Diameter 250 - 90 mm (OD)	no	1
6.2.5.45	Diameter 250 - 110 mm (OD)	no	1
6.2.5.46	Diameter 250 - 125 mm (OD)	no	1
6.2.5.47	Diameter 250 - 140 mm (OD)	no	1
6.2.5.48	Diameter 250 - 160mm (OD)	no	1
6.2.5.49	Diameter 250 - 200 mm (OD)	no	1
6.2.5.50	Diameter 315 - 40 mm (OD)	no	1
6.2.5.51	Diameter 315 - 50 mm (OD)	no	1
6.2.5.52	Diameter 315 - 75 mm (OD)	no	1
6.2.5.53	Diameter 315 - 90 mm (OD)	no	1
6.2.5.54	Diameter 315 - 110 mm (OD)	no	1
6.2.5.55	Diameter 315 - 125 mm (OD)	no	1
6.2.5.56	Diameter 315 - 140 mm (OD)	no	1
6.2.5.57	Diameter 315 - 160 mm (OD)	no	1
6.2.5.58	Diameter 315 - 200 mm (OD)	no	1
6.2.5.59	Diameter 315 - 250 mm (OD)	no	1
6.2.5.60	Diameter 355 - 40 mm (OD)	no	1
6.2.5.61	Diameter 355 - 50 mm (OD)	no	1
6.2.5.62	Diameter 355 - 75 mm (OD)	no	1
6.2.5.63	Diameter 355 - 90 mm (OD)	no	1
6.2.5.64	Diameter 355 - 110 mm (OD)	no	1
6.2.5.65	Diameter 355 - 125 mm (OD)	no	1
6.2.5.66	Diameter 355 - 140 mm (OD)	no	1
6.2.5.67	Diameter 355 - 160 mm (OD)	no	1
6.2.5.68	Diameter 355 - 200 mm (OD)	no	1
6.2.5.69	Diameter 355 - 250 mm (OD)	no	1
6.2.5.70	Diameter 355 - 315 mm (OD)	no	1

Steel Class 20 (Flanged both ends)

6.2.6	Diameter 50 - 40 mm (OD)	no	1	
6.2.6.1	Diameter 63 - 40 mm (OD)	no	1	
6.2.6.2	Diameter 63 - 50 mm (OD)	no	1	
6.2.6.3	Diameter 75 - 40 mm (OD)	no	1	
6.2.6.4	Diameter 75 - 50 mm (OD)	no	1	
6.2.6.5	Diameter 75 - 63 mm (OD)	no	1	
6.2.6.6	Diameter 90 - 40 mm (OD)	no	1	
6.2.6.7	Diameter 90 - 50 mm (OD)	no	1	
6.2.6.8	Diameter 90 - 63 mm (OD)	no	1	
6.2.6.9	Diameter 90 - 75 mm (OD)	no	1	
6.2.6.10	Diameter 110 - 40 mm (OD)	no	1	
6.2.6.11	Diameter 110 - 50 mm (OD)	no	1	
6.2.6.12	Diameter 110 - 75 mm (OD)	no	1	
6.2.6.13	Diameter 110 - 90mm (OD)	no	1	
6.2.6.14	Diameter 125 - 40 mm (OD)	no	1	
6.2.6.15	Diameter 125 - 50 mm (OD)	no	1	
6.2.6.16	Diameter 125 - 75 mm (OD)	no	1	
6.2.6.17	Diameter 125 - 90 mm (OD)	no	1	
6.2.6.18	Diameter 125 - 110 mm (OD)	no	1	
6.2.6.19	Diameter 140 - 40 mm (OD)	no	1	
6.2.6.20	Diameter 140 - 50 mm (OD)	no	1	
6.2.6.21	Diameter 140 - 75 mm (OD)	no	1	
6.2.6.22	Diameter 140 - 90 mm (OD)	no	1	
6.2.6.23	Diameter 140 - 110 mm (OD)	no	1	
6.2.6.24	Diameter 140 - 125 mm (OD)	no	1	
6.2.6.25	Diameter 160 - 40 mm (OD)	no	1	
6.2.6.26	Diameter 160 - 50 mm (OD)	no	1	
6.2.6.27	Diameter 160 - 75 mm (OD)	no	1	
6.2.6.28	Diameter 160 - 90 mm (OD)	no	1	
6.2.6.29	Diameter 160 - 110 mm (OD)	no	1	
6.2.6.30	Diameter 160 - 125 mm (OD)	no	1	
6.2.6.31	Diameter 160 - 140 mm (OD)	no	1	
6.2.6.32	Diameter 200 - 40 mm (OD)	no	1	
6.2.6.33				

6.2.6.34	Diameter 200 - 50 mm (OD)	no	1
6.2.6.35	Diameter 200 - 75 mm (OD)	no	1
6.2.6.36	Diameter 200 - 90 mm (OD)	no	1
6.2.6.37	Diameter 200 - 110 mm (OD)	no	1
6.2.6.38	Diameter 200 - 125 mm (OD)	no	1
6.2.6.39	Diameter 200 - 140 mm (OD)	no	1
6.2.6.40	Diameter 200 - 160 mm (OD)	no	1
6.2.6.41	Diameter 250 - 40 mm (OD)	no	1
6.2.6.42	Diameter 250 - 50 mm (OD)	no	1
6.2.6.43	Diameter 250 - 75 mm (OD)	no	1
6.2.6.44	Diameter 250 - 90 mm (OD)	no	1
6.2.6.45	Diameter 250 - 110 mm (OD)	no	1
6.2.6.46	Diameter 250 - 125 mm (OD)	no	1
6.2.6.47	Diameter 250 - 140 mm (OD)	no	1
6.2.6.48	Diameter 250 - 160mm (OD)	no	1
6.2.6.49	Diameter 250 - 200 mm (OD)	no	1
6.2.6.50	Diameter 315 - 40 mm (OD)	no	1
6.2.6.51	Diameter 315 - 50 mm (OD)	no	1
6.2.6.52	Diameter 315 - 75 mm (OD)	no	1
6.2.6.53	Diameter 315 - 90 mm (OD)	no	1
6.2.6.54	Diameter 315 - 110 mm (OD)	no	1
6.2.6.55	Diameter 315 - 125 mm (OD)	no	1
6.2.6.56	Diameter 315 - 140 mm (OD)	no	1
6.2.6.57	Diameter 315 - 160 mm (OD)	no	1
6.2.6.58	Diameter 315 - 200 mm (OD)	no	1
6.2.6.59	Diameter 315 - 250 mm (OD)	no	1
6.2.6.60	Diameter 355 - 40 mm (OD)	no	1
6.2.6.61	Diameter 355 - 50 mm (OD)	no	1
6.2.6.62	Diameter 355 - 75 mm (OD)	no	1
6.2.6.63	Diameter 355 - 90 mm (OD)	no	1
6.2.6.64	Diameter 355 - 110 mm (OD)	no	1
6.2.6.65	Diameter 355 - 125 mm (OD)	no	1
6.2.6.66	Diameter 355 - 140 mm (OD)	no	1
6.2.6.67	Diameter 355 - 160 mm (OD)	no	1

6.2.6.68	Diameter 355 - 200 mm (OD)	no	1
6.2.6.69	Diameter 355 - 250 mm (OD)	no	1
6.2.6.70	Diameter 355 - 315 mm (OD)	no	1
Steel Class 40 (Flanged both ends)			
6.2.7			
6.2.7.1	Diameter 50 - 40 mm (OD)	no	1
6.2.7.2	Diameter 63 -40 mm (OD)	no	1
6.2.7.3	Diameter 63 -50 mm (OD)	no	1
6.2.7.4	Diameter 75 - 40 mm (OD)	no	1
6.2.7.5	Diameter 75 - 50 mm (OD)	no	1
6.2.7.6	Diameter 75 - 63 mm (OD)	no	1
6.2.7.7	Diameter 90 - 40 mm (OD)	no	1
6.2.7.8	Diameter 90 - 50 mm (OD)	no	1
6.2.7.9	Diameter 90 - 63 mm (OD)	no	1
6.2.7.10	Diameter 90 -75 mm (OD)	no	1
6.2.7.11	Diameter 110 - 40 mm (OD)	no	1
6.2.7.12	Diameter 110 - 50 mm (OD)	no	1
6.2.7.13	Diameter 110 - 75 mm (OD)	no	1
6.2.7.14	Diameter 110 - 90mm (OD)	no	1
6.2.7.15	Diameter 125 - 40 mm (OD)	no	1
6.2.7.16	Diameter 125 - 50 mm (OD)	no	1
6.2.7.17	Diameter 125 - 75 mm (OD)	no	1
6.2.7.18	Diameter 125 - 90 mm (OD)	no	1
6.2.7.19	Diameter 125 - 110 mm (OD)	no	1
6.2.7.20	Diameter 140 - 40 mm (OD)	no	1
6.2.7.21	Diameter 140 - 50 mm (OD)	no	1
6.2.7.22	Diameter 140 - 75 mm (OD)	no	1
6.2.7.23	Diameter 140 - 90 mm (OD)	no	1
6.2.7.24	Diameter 140 - 110 mm (OD)	no	1
6.2.7.25	Diameter 140 - 125 mm (OD)	no	1
6.2.7.26	Diameter 160 - 40 mm (OD)	no	1
6.2.7.27	Diameter 160 - 50 mm (OD)	no	1
6.2.7.28	Diameter 160 - 75 mm (OD)	no	1
6.2.7.29	Diameter 160 - 90 mm (OD)	no	1

6.2.7.30	Diameter 160 - 110 mm (OD)	no	1
6.2.7.31	Diameter 160 - 125 mm (OD)	no	1
6.2.7.32	Diameter 160 - 140 mm (OD)	no	1
6.2.7.33	Diameter 200 - 40 mm (OD)	no	1
6.2.7.34	Diameter 200 - 50 mm (OD)	no	1
6.2.7.35	Diameter 200 - 75 mm (OD)	no	1
6.2.7.36	Diameter 200 - 90 mm (OD)	no	1
6.2.7.37	Diameter 200 - 110 mm (OD)	no	1
6.2.7.38	Diameter 200 - 125 mm (OD)	no	1
6.2.7.39	Diameter 200 - 140 mm (OD)	no	1
6.2.7.40	Diameter 200 - 160 mm (OD)	no	1
6.2.7.41	Diameter 250 - 40 mm (OD)	no	1
6.2.7.42	Diameter 250 - 50 mm (OD)	no	1
6.2.7.43	Diameter 250 - 75 mm (OD)	no	1
6.2.7.44	Diameter 250 - 90 mm (OD)	no	1
6.2.7.45	Diameter 250 - 110 mm (OD)	no	1
6.2.7.46	Diameter 250 - 125 mm (OD)	no	1
6.2.7.47	Diameter 250 - 140 mm (OD)	no	1
6.2.7.48	Diameter 250 - 160mm (OD)	no	1
6.2.7.49	Diameter 250 - 200 mm (OD)	no	1
6.2.7.50	Diameter 315 - 40 mm (OD)	no	1
6.2.7.51	Diameter 315 - 50 mm (OD)	no	1
6.2.7.52	Diameter 315 - 75 mm (OD)	no	1
6.2.7.53	Diameter 315 - 90 mm (OD)	no	1
6.2.7.54	Diameter 315 - 110 mm (OD)	no	1
6.2.7.55	Diameter 315 - 125 mm (OD)	no	1
6.2.7.56	Diameter 315 - 140 mm (OD)	no	1
6.2.7.57	Diameter 315 - 160 mm (OD)	no	1
6.2.7.58	Diameter 315 - 200 mm (OD)	no	1
6.2.7.59	Diameter 315 - 250 mm (OD)	no	1
6.2.7.60	Diameter 355 - 40 mm (OD)	no	1
6.2.7.61	Diameter 355 - 50 mm (OD)	no	1
6.2.7.62	Diameter 355 - 75 mm (OD)	no	1
6.2.7.63	Diameter 355 - 90 mm (OD)	no	1

6.2.7.64	Diameter 355 - 110 mm (OD)	no	1
6.2.7.65	Diameter 355 - 125 mm (OD)	no	1
6.2.7.66	Diameter 355 - 140 mm (OD)	no	1
6.2.7.67	Diameter 355 - 160 mm (OD)	no	1
6.2.7.68	Diameter 355 - 200 mm (OD)	no	1
6.2.7.69	Diameter 355 - 250 mm (OD)	no	1
6.2.7.70	Diameter 355 - 315 mm (OD)	no	1
Supply and deliver			
Repair Clamp			
	Diameter 40 mm (OD)	no	1
	Diameter 50 mm (OD)	no	1
	Diameter 63 mm (OD)	no	1
	Diameter 75 mm (OD)	no	1
	Diameter 90 mm (OD)	no	1
	Diameter 110 mm (OD)	no	1
	Diameter 125 mm (OD)	no	1
	Diameter 140 mm (OD)	no	1
	Diameter 160 mm (OD)	no	1
	Diameter 200 mm (OD)	no	1
	Diameter 250 mm (OD)	no	1
	Diameter 315 mm (OD)	no	1
	Diameter 355 mm (OD)	no	1
	Diameter 400 mm (OD)	no	1
	Diameter 500 mm (OD)	no	1
	Diameter 560 mm (OD)	no	1
	Diameter 630 mm (OD)	no	1
	Diameter 800 mm (ND)	no	1
	Diameter 900 mm (ND)	no	1
	Diameter 1000 mm (ND)	no	1
	Diameter 1050 mm (ND)	no	1

ITEM	REF	DESCRIPTION	UNIT	QTY	RATE
7		SCHEDULE 3: VALVES AND FLOW METERS			
7.1		Supply and deliver			
		Wedge Gate Valves (Flanged both sides) Class 16			
7.1.1		Diameter 50 mm	no	1	
7.1.2		Diameter 65 mm	no	1	
7.1.3		Diameter 80 mm	no	1	
7.1.4		Diameter 100 mm	no	1	
7.1.5		Diameter 125 mm	no	1	
7.1.6		Diameter 150 mm	no	1	
7.1.7		Diameter 200 mm	no	1	
7.1.8		Diameter 250 mm	no	1	
7.1.9		Diameter 300 mm	no	1	
7.1.10		Diameter 350 mm	no	1	
7.1.11		Diameter 400 mm	no	1	
7.1.12		Diameter 450 mm	no	1	
7.1.13		Diameter 500 mm	no	1	
7.1.14		Diameter 550 mm	no	1	
7.2		Wedge Gate Valves (Flanged both sides) Class 25			
7.2.1		Diameter 50 mm	no	1	
7.2.2		Diameter 65 mm	no	1	
7.2.3		Diameter 80 mm	no	1	
7.2.4		Diameter 100 mm	no	1	

7.2.5	Diameter 125 mm	no	1
7.2.6	Diameter 150 mm	no	1
7.2.7	Diameter 200 mm	no	1
7.2.8	Diameter 250 mm	no	1
7.2.9	Diameter 300 mm	no	1
7.2.10	Diameter 350 mm	no	1
7.2.11	Diameter 400 mm	no	1
7.2.12	Diameter 450 mm	no	1
7.2.13	Diameter 500 mm	no	1
7.2.14	Diameter 550 mm		
Wedge Gate Valves (Flanged both sides) Class 40			
7.3			
7.3.1	Diameter 50 mm	no	1
7.3.2	Diameter 65 mm	no	1
7.3.3	Diameter 80 mm	no	1
7.3.4	Diameter 100 mm	no	1
7.3.5	Diameter 125 mm	no	1
7.3.6	Diameter 150 mm	no	1
7.3.7	Diameter 200 mm	no	1
7.3.8	Diameter 250 mm	no	1
7.3.9	Diameter 300 mm	no	1
7.3.10	Diameter 350 mm	no	1
7.3.11	Diameter 400 mm	no	1
7.3.12	Diameter 450 mm	no	1
7.3.13	Diameter 500 mm	no	1
7.3.14	Diameter 550 mm		

7.4	Wedge Gate Valves (Flanged both sides) Class 63			
7.4.1	Diameter 50 mm	no	1	
7.4.2	Diameter 65 mm	no	1	
7.4.3	Diameter 80 mm	no	1	
7.4.4	Diameter 100 mm	no	1	
7.4.5	Diameter 125 mm	no	1	
7.4.6	Diameter 150 mm	no	1	
7.4.7	Diameter 200 mm	no	1	
7.4.8	Diameter 250 mm	no	1	
7.4.9	Diameter 300 mm	no	1	
7.4.10	Diameter 350 mm	no	1	
7.4.11	Diameter 400 mm	no	1	
7.4.12	Diameter 450 mm	no	1	
7.4.13	Diameter 500 mm	no	1	
7.4.14	Diameter 550 mm			
7.5	RSV Gate Valves (Flanged both sides) Class 16			
7.5.1	Diameter 50 mm	no	1	
7.5.2	Diameter 65 mm	no	1	
7.5.3	Diameter 80 mm	no	1	
7.5.4	Diameter 100 mm	no	1	
7.5.5	Diameter 125 mm	no	1	
7.5.6	Diameter 150 mm	no	1	
7.5.7	Diameter 200 mm	no	1	
7.5.8	Diameter 250 mm	no	1	

7.5.9	Diameter 300 mm	no	1
7.5.10	Diameter 350 mm	no	1
7.5.11	Diameter 400 mm	no	1
7.5.12	Diameter 450 mm	no	1
7.5.13	Diameter 500 mm	no	1
7.5.14	Diameter 550 mm		
7.6	Metal Seat Gate Valves (Flanged both sides) Class 25		
7.6.1	Diameter 50 mm	no	1
7.6.2	Diameter 65 mm	no	1
7.6.3	Diameter 80 mm	no	1
7.6.4	Diameter 100 mm	no	1
7.6.5	Diameter 125 mm	no	1
7.6.6	Diameter 150 mm	no	1
7.6.7	Diameter 200 mm	no	1
7.6.8	Diameter 250 mm	no	1
7.6.9	Diameter 300 mm	no	1
7.6.10	Diameter 350 mm	no	1
7.6.11	Diameter 400 mm	no	1
7.6.12	Diameter 450 mm	no	1
7.6.13	Diameter 500 mm	no	1
7.6.14	Diameter 550 mm		
7.7	Metal Seat Gate Valves (Flanged both sides) Class 40		
7.7.1	Diameter 50 mm	no	1
7.7.2	Diameter 65 mm	no	1

7.7.3	Diamater 80 mm	no	1
7.7.4	Diameter 100 mm	no	1
7.7.5	Diameter 125 mm	no	1
7.7.6	Diameter 150 mm	no	1
7.7.7	Diameter 200 mm	no	1
7.7.8	Diameter 250 mm	no	1
7.7.9	Diameter 300 mm	no	1
7.7.10	Diameter 350 mm	no	1
7.7.11	Diameter 400 mm	no	1
7.7.12	Diameter 450 mm	no	1
7.7.13	Diameter 500 mm	no	1
7.7.14	Diameter 550 mm		
7.8	Metal Seat Gate Valves (Flanged both sides) Class 63		
7.8.1	Diameter 50 mm	no	1
7.8.2	Diameter 65 mm	no	1
7.8.3	Diamater 80 mm	no	1
7.8.4	Diameter 100 mm	no	1
7.8.5	Diameter 125 mm	no	1
7.8.6	Diameter 150 mm	no	1
7.8.7	Diameter 200 mm	no	1
7.8.8	Diameter 250 mm	no	1
7.8.9	Diameter 300 mm	no	1
7.8.10	Diameter 350 mm	no	1
7.8.11	Diameter 400 mm	no	1
7.8.12	Diameter 450 mm	no	1

7.8.13	Diameter 500 mm	no	1	
7.8.14	Diameter 550 mm			
7.9	DI Knife Gate Valves (Flanged both sides) Class 16			
7.9.1	Diameter 50 mm	no	1	
7.9.2	Diameter 65 mm	no	1	
7.9.3	Diameter 80 mm	no	1	
7.9.4	Diameter 100 mm	no	1	
7.9.5	Diameter 125 mm	no	1	
7.9.6	Diameter 150 mm	no	1	
7.9.7	Diameter 200 mm	no	1	
7.9.8	Diameter 250 mm	no	1	
7.9.9	Diameter 300 mm	no	1	
7.9.10	Diameter 350 mm	no	1	
7.9.11	Diameter 400 mm	no	1	
7.9.12	Diameter 450 mm	no	1	
7.9.13	Diameter 500 mm	no	1	
7.9.14	Diameter 550 mm	no	1	
Total carried forward				
Total carried forward				
	Supply and deliver			
7.10	Wafer Butterfly Valves Class 16			
7.10.1	Diameter 50 mm	no	1	
7.10.2	Diameter 65 mm	no	1	

7.10.3	Diameter 80 mm	no	1
7.10.4	Diameter 100 mm	no	1
7.10.5	Diameter 125 mm	no	1
7.10.6	Diameter 150 mm	no	1
7.10.7	Diameter 200 mm	no	1
7.10.8	Diameter 250 mm	no	1
7.10.9	Diameter 300 mm	no	1
7.10.10	Diameter 350 mm	no	1
7.10.11	Diameter 400 mm	no	1
7.10.12	Diameter 450 mm	no	1
7.10.13	Diameter 500 mm	no	1
7.10.14	Diameter 550 mm	no	1
7.10.15	Diameter 700mm	no	1
7.10.16	Diameter 900 mm	no	1
7.10.17	Diameter 1000 mm	no	1
7.11	Flange Butterfly Valves Class 16		
7.11.1	Diameter 50 mm	no	1
7.11.2	Diameter 65 mm	no	1
7.11.3	Diameter 80 mm	no	1
7.11.4	Diameter 100 mm	no	1
7.11.5	Diameter 125 mm	no	1
7.11.6	Diameter 150 mm	no	1
7.11.7	Diameter 200 mm	no	1
7.11.8	Diameter 250 mm	no	1
7.11.9	Diameter 300 mm	no	1

7.11.10	Diameter 350 mm	no	1
7.11.11	Diameter 400 mm	no	1
7.11.12	Diameter 450 mm	no	1
7.11.13	Diameter 500 mm	no	1
7.11.14	Diameter 550 mm	no	1
7.11.15	Diameter 700mm	no	1
7.11.16	Diameter 900 mm	no	1
7.11.17	Diameter 1000 mm	no	1
7.12 Eccentric Butterfly Valves Class 16			
7.12.1	Diameter 50 mm	no	1
7.12.2	Diameter 65 mm	no	1
7.12.3	Diameter 80 mm	no	1
7.12.4	Diameter 100 mm	no	1
7.12.5	Diameter 125 mm	no	1
7.12.6	Diameter 150 mm	no	1
7.12.7	Diameter 200 mm	no	1
7.12.8	Diameter 250 mm	no	1
7.12.9	Diameter 300 mm	no	1
7.12.10	Diameter 350 mm	no	1
7.12.11	Diameter 400 mm	no	1
7.12.12	Diameter 450 mm	no	1
7.12.13	Diameter 500 mm	no	1
7.12.14	Diameter 550 mm	no	1
7.12.15	Diameter 700mm	no	1
7.12.16	Diameter 900 mm	no	1

7.12.17		Diameter 1000 mm		no	1	
Total carried forward						
Total carried forward						
7.13		Supply and deliver				
		Globe Valves Class 16				
7.13.1		Diameter 15 mm				
7.13.2		Diameter 50 mm		no	1	
7.13.3		Diameter 65 mm		no	1	
7.13.4		Diameter 80 mm		no	1	
7.13.5		Diameter 100 mm		no	1	
7.13.6		Diameter 125 mm		no	1	
7.13.7		Diameter 150 mm		no	1	
7.13.8		Diameter 250 mm		no	1	
Total carried forward						
Total carried forward						
		Supply and deliver				
7.14		3pc Type Butt Ball Valve				
7.14.1		Diameter 15 mm		no	1	
7.14.2		Diameter 20 mm		no	1	
7.14.3		Diameter 32 mm		no	1	
7.14.4		Diameter 50 mm		no	1	

7.14.5	Diameter 65 mm	no	1
7.14.6	Diameter 80 mm	no	1
7.14.7	Diameter 100 mm	no	1
7.14.8	Diameter 125 mm	no	1
7.14.9	Diameter 150 mm	no	1
7.14.10	Diameter 200 mm	no	1
7.14.11	Diameter 250 mm	no	1
7.14.12	Diameter 300 mm	no	1
7.14.13	Diameter 350 mm	no	1
7.14.14	Diameter 400 mm	no	1
7.14.15	Diameter 450 mm	no	1
7.14.16	Diameter 500 mm	no	1
7.14.17	Diameter 550 mm	no	1
7.14.18	Diameter 600 mm	no	1
7.15	U-PVC Ball Valve		
7.15.1	Diameter 15 mm	no	1
7.15.2	Diameter 20 mm	no	1
7.15.3	Diameter 32 mm	no	1
7.15.4	Diameter 50 mm	no	1
7.15.5	Diameter 65 mm	no	1
7.15.6	Diameter 80 mm	no	1
7.15.7	Diameter 110 mm	no	1
7.16	2pc Threaded Ball Valve		
7.16.1	Diameter 15 mm	no	1

7.16.2	Diameter 20 mm	no	1
7.16.3	Diameter 32 mm	no	1
7.16.4	Diameter 50 mm	no	1
7.16.5	Diameter 65 mm	no	1
7.16.6	Diameter 80 mm	no	1
7.16.7	Diameter 100 mm	no	1
7.17	Brass Threaded Ball Valve Class 16		
7.17.1	Diameter 15 mm	no	1
7.17.2	Diameter 20 mm	no	1
7.17.3	Diameter 32 mm	no	1
7.17.4	Diameter 50 mm	no	1
7.18	Brass Threaded Ball Valve Class 25		
7.18.1	Diameter 15 mm	no	1
7.18.2	Diameter 20 mm	no	1
7.18.3	Diameter 32 mm	no	1
7.18.4	Diameter 50 mm	no	1
7.19	Flange Motorized V Type Ball Valve Class 16		
7.19.1	Diameter 15 mm	no	1
7.19.2	Diameter 20 mm	no	1
7.19.3	Diameter 32 mm	no	1
7.19.4	Diameter 50 mm	no	1
7.19.5	Diameter 65 mm	no	1
7.19.6	Diameter 80 mm	no	1

7.19.7	Diameter 100 mm	no	1	
7.19.8	Diameter 125 mm	no	1	
7.19.9	Diameter 150 mm	no	1	
7.19.10	Diameter 200 mm	no	1	
7.19.11	Diameter 250 mm	no	1	
7.19.12	Diameter 300 mm	no	1	
7.19.13	Diameter 350 mm	no	1	
7.19.14	Diameter 400 mm	no	1	
7.19.15	Diameter 450 mm	no	1	
7.19.16	Diameter 500 mm	no	1	
7.20	Rotary Halve Ball Valve Class 16			
7.20.1	Diameter 15 mm	no	1	
7.20.2	Diameter 20 mm	no	1	
7.20.3	Diameter 32 mm	no	1	
7.20.4	Diameter 50 mm	no	1	
7.20.5	Diameter 65 mm	no	1	
7.20.6	Diameter 80 mm	no	1	
7.20.7	Diameter 100 mm	no	1	
7.20.8	Diameter 125 mm	no	1	
7.20.9	Diameter 150 mm	no	1	
7.20.10	Diameter 200 mm	no	1	
7.20.11	Diameter 250 mm	no	1	
7.20.12	Diameter 300 mm	no	1	
7.20.13	Diameter 350 mm	no	1	
7.20.14	Diameter 400 mm	no	1	

7.20.15	Diameter 450 mm	no	1
7.20.16	Diameter 500 mm	no	1
7.20.17	Diameter 600 mm	no	1
7.21	Rotary Halve Ball Valve Class 25		
7.21.1	Diameter 15 mm	no	1
7.21.2	Diameter 20 mm	no	1
7.21.3	Diameter 32 mm	no	1
7.21.4	Diameter 50 mm	no	1
7.21.5	Diameter 65 mm	no	1
7.21.6	Diameter 80 mm	no	1
7.21.7	Diameter 100 mm	no	1
7.21.8	Diameter 125 mm	no	1
7.21.9	Diameter 150 mm	no	1
7.21.10	Diameter 200 mm	no	1
7.21.11	Diameter 250 mm	no	1
7.21.12	Diameter 300 mm	no	1
7.21.13	Diameter 350 mm	no	1
7.21.14	Diameter 400 mm	no	1
7.21.15	Diameter 450 mm	no	1
7.21.16	Diameter 500 mm	no	1
7.21.17	Diameter 600 mm		
7.22	Rotary Halve Ball Valve Class 40		
7.22.1	Diameter 15 mm	no	1
7.22.2	Diameter 20 mm	no	1

7.22.3	Diameter 32 mm	no	1
7.22.4	Diameter 50 mm	no	1
7.22.5	Diameter 65 mm	no	1
7.22.6	Diameter 80 mm	no	1
7.22.7	Diameter 100 mm	no	1
7.22.8	Diameter 125 mm	no	1
7.22.9	Diameter 150 mm	no	1
7.22.10	Diameter 200 mm	no	1
7.22.11	Diameter 250 mm	no	1
7.22.12	Diameter 300 mm	no	1
7.22.13	Diameter 350 mm	no	1
7.22.14	Diameter 400 mm	no	1
7.22.15	Diameter 450 mm	no	1
7.22.16	Diameter 500 mm	no	1
7.22.17	Diameter 600 mm	no	1
Total carried forward			
Total carried forward			
7.23	Supply and deliver		
	Anti Water Hammer Check Valve Class 25		
7.23.1	Diameter 15 mm	no	1
7.23.2	Diameter 20 mm	no	1
7.23.3	Diameter 32 mm	no	1
7.23.4	Diameter 50 mm	no	1
7.23.5	Diameter 65 mm	no	1
7.23.6	Diameter 80 mm	no	1

7.23.7	Diameter 100 mm	no	1	
7.23.8	Diameter 125 mm	no	1	
7.23.9	Diameter 150 mm	no	1	
7.23.10	Diameter 200 mm	no	1	
7.23.11	Diameter 250 mm	no	1	
7.23.12	Diameter 300 mm	no	1	
7.23.13	Diameter 350 mm	no	1	
7.23.14	Diameter 400 mm	no	1	
7.23.15	Diameter 450 mm	no	1	
7.23.16	Diameter 500 mm	no	1	
7.24 Anti Water Hammer Check Valve Class 40				
7.24.1	Diameter 15 mm	no	1	
7.24.2	Diameter 20 mm	no	1	
7.24.3	Diameter 32 mm	no	1	
7.24.4	Diameter 50 mm	no	1	
7.24.5	Diameter 65 mm	no	1	
7.24.6	Diameter 80 mm	no	1	
7.24.7	Diameter 100 mm	no	1	
7.24.8	Diameter 125 mm	no	1	
7.24.9	Diameter 150 mm	no	1	
7.24.10	Diameter 200 mm	no	1	
7.24.11	Diameter 250 mm	no	1	
7.24.12	Diameter 300 mm	no	1	
7.24.13	Diameter 350 mm	no	1	
7.24.14	Diameter 400 mm	no	1	

7.24.15	Diameter 450 mm	no	1
7.24.16	Diameter 500 mm	no	1
7.25	Swing Check Valve Class 16		
7.25.1	Diameter 50 mm	no	1
7.25.2	Diameter 65 mm	no	1
7.25.3	Diameter 80 mm	no	1
7.25.4	Diameter 100 mm	no	1
7.25.5	Diameter 125 mm	no	1
7.25.6	Diameter 150 mm	no	1
7.25.7	Diameter 200 mm	no	1
7.25.8	Diameter 250 mm	no	1
7.25.9	Diameter 300 mm	no	1
7.25.10	Diameter 350 mm	no	1
7.25.11	Diameter 400 mm	no	1
7.25.12	Diameter 450 mm		
7.25.13	Diameter 500 mm		
7.26	Tilting Disc Check Valve Class 16		
7.26.1	Diameter 50 mm	no	1
7.26.2	Diameter 65 mm	no	1
7.26.3	Diameter 80 mm	no	1
7.26.4	Diameter 100 mm	no	1
7.26.5	Diameter 125 mm	no	1
7.26.6	Diameter 150 mm	no	1
7.26.7	Diameter 200 mm	no	1

7.26.8	Diameter 250 mm	no	1	
7.26.9	Diameter 300 mm	no	1	
7.26.10	Diameter 350 mm	no	1	
7.26.11	Diameter 400 mm	no	1	
7.26.12	Diameter 450 mm	no	1	
7.26.13	Diameter 500 mm	no	1	
7.27	Premier Multi Door Check Valve Class 16			
7.27.1	Diameter 50 mm	no	1	
7.27.2	Diameter 65 mm	no	1	
7.27.3	Diameter 80 mm	no	1	
7.27.4	Diameter 100 mm	no	1	
7.27.5	Diameter 125 mm	no	1	
7.27.6	Diameter 150 mm	no	1	
7.27.7	Diameter 200 mm	no	1	
7.27.8	Diameter 250 mm	no	1	
7.27.9	Diameter 300 mm	no	1	
7.27.10	Diameter 350 mm	no	1	
7.27.11	Diameter 400 mm	no	1	
7.27.12	Diameter 450 mm	no	1	
7.27.13	Diameter 500 mm	no	1	
Total carried forward				
Total brought forward				
	Supply, deliver, store, protect, handle and install			

	Control Valves				
7.28	Ring Needle Control Valves Class 16				
7.28.1	Diameter 50 mm	no	1		
7.28.2	Diameter 65 mm	no	1		
7.28.3	Diameter 80 mm	no	1		
7.28.4	Diameter 100 mm	no	1		
7.28.5	Diameter 125 mm	no	1		
7.28.6	Diameter 150 mm	no	1		
7.28.7	Diameter 200 mm	no	1		
7.28.8	Diameter 250 mm	no	1		
7.28.9	Diameter 300 mm	no	1		
7.28.10	Diameter 350 mm	no	1		
7.28.11	Diameter 400 mm	no	1		
7.28.12	Diameter 450 mm	no	1		
7.28.13	Diameter 500 mm	no	1		
7.29	Ring Needle Control Valves Class 25				
7.29.1	Diameter 50 mm	no	1		
7.29.2	Diameter 65 mm	no	1		
7.29.3	Diameter 80 mm	no	1		
7.29.4	Diameter 100 mm	no	1		
7.29.5	Diameter 125 mm	no	1		
7.29.6	Diameter 150 mm	no	1		
7.29.7	Diameter 200 mm	no	1		
7.29.8	Diameter 250 mm	no	1		
7.29.9	Diameter 300 mm	no	1		

7.29.10	Diameter 350 mm	no	1
7.29.11	Diameter 400 mm	no	1
7.29.12	Diameter 450 mm	no	1
7.29.13	Diameter 500 mm	no	1
7.30	Ring Needle Control Valves Class 40		
7.30.1	Diameter 50 mm	no	1
7.30.2	Diameter 65 mm	no	1
7.30.3	Diameter 80 mm	no	1
7.30.4	Diameter 100 mm	no	1
7.30.5	Diameter 125 mm	no	1
7.30.6	Diameter 150 mm	no	1
7.30.7	Diameter 200 mm	no	1
7.30.8	Diameter 250 mm	no	1
7.30.9	Diameter 300 mm	no	1
7.30.10	Diameter 350 mm	no	1
7.30.11	Diameter 400 mm	no	1
7.30.12	Diameter 450 mm	no	1
7.30.13	Diameter 500 mm	no	1
7.31	Ring Needle Control Valves Class 63		
7.31.1	Diameter 50 mm	no	1
7.31.2	Diameter 65 mm	no	1
7.31.3	Diameter 80 mm	no	1
7.31.4	Diameter 100 mm	no	1
7.31.5	Diameter 125 mm	no	1

7.31.6	Diameter 150 mm	no	1
7.31.7	Diameter 200 mm	no	1
7.31.8	Diameter 250 mm	no	1
7.31.9	Diameter 300 mm	no	1
7.31.10	Diameter 350 mm	no	1
7.31.11	Diameter 400 mm	no	1
7.31.12	Diameter 450 mm	no	1
7.31.13	Diameter 500 mm	no	1
7.32	Baker Control Valves Class 16		
7.32.1	Diameter 50 mm	no	1
7.32.2	Diameter 65 mm	no	1
7.32.3	Diameter 80 mm	no	1
7.32.4	Diameter 100 mm	no	1
7.32.5	Diameter 125 mm	no	1
7.32.6	Diameter 150 mm	no	1
7.32.7	Diameter 200 mm	no	1
7.32.8	Diameter 250 mm	no	1
7.32.9	Diameter 300 mm	no	1
7.32.10	Diameter 350 mm	no	1
7.32.11	Diameter 400 mm	no	1
7.32.12	Diameter 450 mm	no	1
7.32.13	Diameter 500 mm	no	1
7.33	Baker Control Valves Class 25		
7.33.1	Diameter 50 mm	no	1

7.33.2	Diameter 65 mm	no	1
7.33.3	Diameter 80 mm	no	1
7.33.4	Diameter 100 mm	no	1
7.33.5	Diameter 125 mm	no	1
7.33.6	Diameter 150 mm	no	1
7.33.7	Diameter 200 mm	no	1
7.33.8	Diameter 250 mm	no	1
7.33.9	Diameter 300 mm	no	1
7.33.10	Diameter 350 mm	no	1
7.33.11	Diameter 400 mm	no	1
7.33.12	Diameter 450 mm	no	1
7.33.13	Diameter 500 mm	no	1
Baker Control Valves Class 40			
7.34			
7.34.1	Diameter 50 mm	no	1
7.34.2	Diameter 65 mm	no	1
7.34.3	Diameter 80 mm	no	1
7.34.4	Diameter 100 mm	no	1
7.34.5	Diameter 125 mm	no	1
7.34.6	Diameter 150 mm	no	1
7.34.7	Diameter 200 mm	no	1
7.34.8	Diameter 250 mm	no	1
7.34.9	Diameter 300 mm	no	1
7.34.10	Diameter 350 mm	no	1
7.34.11	Diameter 400 mm	no	1
7.34.12	Diameter 450 mm	no	1

7.34.13	Diameter 500 mm	no	1	
7.35	Baker Control Valves Class 63			
7.35.1	Diameter 50 mm	no	1	
7.35.2	Diameter 65 mm	no	1	
7.35.3	Diameter 80 mm	no	1	
7.35.4	Diameter 100 mm	no	1	
7.35.5	Diameter 125 mm	no	1	
7.35.6	Diameter 150 mm	no	1	
7.35.7	Diameter 200 mm	no	1	
7.35.8	Diameter 250 mm	no	1	
7.35.9	Diameter 300 mm	no	1	
7.35.10	Diameter 350 mm	no	1	
7.35.11	Diameter 400 mm	no	1	
7.35.12	Diameter 450 mm	no	1	
7.35.13	Diameter 500 mm	no	1	
Total carried forward				
Total brought forward				
	Supply and deliver			
	Strainer			
7.36	Y Type Flange Strainer Class 16			
7.36.1	Diameter 50 mm	no	1	
7.36.2	Diameter 65 mm	no	1	

7.36.3	Diameter 80 mm	no	1	
7.36.4	Diameter 100 mm	no	1	
7.36.5	Diameter 125 mm	no	1	
7.36.6	Diameter 150 mm	no	1	
7.36.7	Diameter 200 mm	no	1	
7.36.8	Diameter 250 mm	no	1	
7.36.9	Diameter 300 mm	no	1	
7.36.10	Diameter 350 mm	no	1	
7.36.11	Diameter 400 mm	no	1	
7.36.12	Diameter 450 mm	no	1	
7.36.13	Diameter 500 mm	no	1	
Y Type Flange Strainer Class 25				
7.37				
7.37.1	Diameter 50 mm	no	1	
7.37.2	Diameter 65 mm	no	1	
7.37.3	Diameter 80 mm	no	1	
7.37.4	Diameter 100 mm	no	1	
7.37.5	Diameter 125 mm	no	1	
7.37.6	Diameter 150 mm	no	1	
7.37.7	Diameter 200 mm	no	1	
7.37.8	Diameter 250 mm	no	1	
7.37.9	Diameter 300 mm	no	1	
7.37.10	Diameter 350 mm	no	1	
7.37.11	Diameter 400 mm	no	1	
7.37.12	Diameter 450 mm	no	1	
7.37.13	Diameter 500 mm	no	1	

7.38	Y Type Flange Strainer Class 40				
7.38.1	Diameter 50 mm		no	1	
7.38.2	Diameter 65 mm		no	1	
7.38.3	Diameter 80 mm		no	1	
7.38.4	Diameter 100 mm		no	1	
7.38.5	Diameter 125 mm		no	1	
7.38.6	Diameter 150 mm		no	1	
7.38.7	Diameter 200 mm		no	1	
7.38.8	Diameter 250 mm		no	1	
7.38.9	Diameter 300 mm		no	1	
7.38.10	Diameter 350 mm		no	1	
7.38.11	Diameter 400 mm		no	1	
7.38.12	Diameter 450 mm		no	1	
7.38.13	Diameter 500 mm		no	1	
Total carried forward					
Total brought forward					
	Supply and deliver				
	Surge Anticipation Valve				
7.39	Surge Anticipation Valve Class 25				
7.39.1	Diameter 50 mm		no	1	
7.39.2	Diameter 65 mm		no	1	
7.39.3	Diameter 80 mm		no	1	

7.39.4	Diameter 100 mm	no	1	
7.39.5	Diameter 125 mm	no	1	
7.39.6	Diameter 150 mm	no	1	
7.39.7	Diameter 200 mm	no	1	
7.39.8	Diameter 250 mm	no	1	
7.39.9	Diameter 300 mm	no	1	
7.39.10	Diameter 350 mm	no	1	
7.39.11	Diameter 400 mm	no	1	
7.40	Surge Anticipation Valve Class 40			
7.40.1	Diameter 50 mm	no	1	
7.40.2	Diameter 65 mm	no	1	
7.40.3	Diameter 80 mm	no	1	
7.40.4	Diameter 100 mm	no	1	
7.40.5	Diameter 125 mm	no	1	
7.40.6	Diameter 150 mm	no	1	
7.40.7	Diameter 200 mm	no	1	
7.40.8	Diameter 250 mm	no	1	
7.40.9	Diameter 300 mm	no	1	
7.40.10	Diameter 350 mm	no	1	
7.40.11	Diameter 400 mm	no	1	
Total carried forward				
Total brought forward				
	Supply and deliver			
	Air Release Valve			

7.41	Single Orifice Air Valve Class 16				
7.41.1	Diameter 50 mm	no	1		
7.41.2	Diameter 80 mm	no	1		
7.41.3	Diameter 100 mm	no	1		
7.41.4	Diameter 150 mm	no	1		
7.42	Single Orifice Air Valve Class 25				
7.42.1	Diameter 50 mm	no	1		
7.42.2	Diameter 80 mm	no	1		
7.42.3	Diameter 100 mm	no	1		
7.42.4	Diameter 150 mm	no	1		
7.42.5	Diameter 200 mm	no	1		
7.43	Double Orifice Air Valve Class 16				
7.43.1	Diameter 50 mm	no	1		
7.43.2	Diameter 80 mm	no	1		
7.43.3	Diameter 100 mm	no	1		
7.43.4	Diameter 150 mm	no	1		
7.43.5	Diameter 200 mm	no	1		
7.44	Double Orifice Air Valve Class 25				
7.44.1	Diameter 50 mm	no	1		
7.44.2	Diameter 80 mm	no	1		
7.44.3	Diameter 100 mm	no	1		
7.44.4	Diameter 150 mm	no	1		
7.44.5	Diameter 200 mm	no	1		

Total brought forward				
7.46	Supply and deliver			
	Bulk Water Meter			
7.46.1	Precision Water Meters			
7.46.1.1	Diameter 50 mm	no	1	
7.46.1.2	Diameter 65 mm	no	1	
7.46.1.3	Diameter 80 mm	no	1	
7.46.1.4	Diameter 100 mm	no	1	
7.46.1.5	Diameter 125 mm	no	1	
7.46.1.6	Diameter 150 mm	no	1	
7.46.1.7	Diameter 200 mm	no	1	
7.46.1.8	Diameter 250 mm	no	1	
7.46.1.9	Diameter 300 mm	no	1	
7.46.1.10	Diameter 350 mm	no	1	
7.46.1.11	Diameter 400 mm	no	1	
7.46.1.12	Diameter 450 mm	no	1	
7.46.1.13	Diameter 500 mm	no	1	
7.46.1.14	Diameter 550 mm	no	1	
7.46.1.15	Diameter 1000 mm	no	1	
7.46.2	Wotlman Water Meters			
7.46.2.1	Diameter 50 mm	no	1	
7.46.2.2	Diameter 65 mm	no	1	

7.46.2.3	Diamater 80 mm	no	1
7.46.2.4	Diameter 100 mm	no	1
7.46.2.5	Diameter 125 mm	no	1
7.46.2.6	Diameter 150 mm	no	1
7.46.2.7	Diameter 200 mm	no	1
7.46.2.8	Diameter 250 mm	no	1
7.46.2.9	Diameter 300 mm	no	1
7.46.2.10	Diameter 350 mm	no	1
7.46.2.11	Diameter 400 mm	no	1
7.46.2.12	Diameter 450 mm	no	1
7.46.2.13	Diameter 500 mm	no	1
7.46.2.14	Diameter 550 mm	no	1
7.46.2.15	Diameter 1000 mm	no	1
Elster Kent Water Meters			
7.46.3			
7.46.3.1	Diameter 50 mm	no	1
7.46.3.2	Diameter 65 mm	no	1
7.46.3.3	Diameter 80 mm	no	1
7.46.3.4	Diameter 100 mm	no	1
7.46.3.5	Diameter 125 mm	no	1
7.46.3.6	Diameter 150 mm	no	1
7.46.3.7	Diameter 200 mm	no	1
7.46.3.8	Diameter 250 mm	no	1
7.46.3.9	Diameter 300 mm	no	1
7.46.3.10	Diameter 350 mm	no	1
7.46.3.11	Diameter 400 mm	no	1

7.46.3.12	Diameter 450 mm	no	1	
7.46.3.13	Diameter 500 mm	no	1	
7.46.3.14	Diameter 550 mm	no	1	
7.46.3.15	Diameter 1000 mm	no	1	
7.46.4	Insertion Electromagnetic Water Meters			
7.46.4.1	Diameter 100 mm	no	1	
7.46.4.2	Diameter 125 mm	no	1	
7.46.4.3	Diameter 150 mm	no	1	
7.46.4.4	Diameter 200 mm	no	1	
7.46.4.5	Diameter 250 mm	no	1	
7.46.4.6	Diameter 300 mm	no	1	
7.46.4.7	Diameter 350 mm	no	1	
7.46.4.8	Diameter 400 mm	no	1	
7.46.4.9	Diameter 450 mm	no	1	
7.46.4.10	Diameter 500 mm	no	1	
7.46.4.11	Diameter 550 mm	no	1	
7.46.4.12	Diameter 1000 mm	no	1	
7.47	Note: The three quote system will be used to evaluate the material cost and add contractor's mark up	%		
SUB-TOTAL CARRIED FORWARD TO SUMMARY				

AMOUNT		
--------	--	--

ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
8		SCHEDULE 4 - GASKETS, SEALS AND BOLTS				
		Supply and deliver				
8.1		GASKETS				
8.1.1		T16 Rubber Gaskets				
8.1.1.1		Diameter 50 mm	no	1		
8.1.1.2		Diameter 65 mm	no	1		
8.1.1.3		Diameter 80 mm	no	1		
8.1.1.4		Diameter 100 mm	no	1		
8.1.1.5		Diameter 125 mm	no	1		
8.1.1.6		Diameter 150 mm	no	1		
8.1.1.7		Diameter 200 mm	no	1		
8.1.1.8		Diameter 250 mm	no	1		
8.1.1.9		Diameter 300 mm	no	1		
8.1.1.10		Diameter 350 mm	no	1		
8.1.1.11		Diameter 400 mm	no	1		
8.1.1.12		Diameter 450 mm	no	1		
8.1.1.13		Diameter 500 mm	no	1		
8.1.1.14		Diameter 550 mm	no	1		
8.1.1.15		Diameter 700mm	no	1		
8.1.1.16		Diameter 900 mm	no	1		
8.1.1.17		Diameter 1000 mm	no	1		
8.1.2		T40 Rubber Gaskets				
8.1.2.1		Diameter 50 mm	no	1		
8.1.2.2		Diameter 65 mm	no	1		
8.1.2.3		Diameter 80 mm	no	1		
8.1.2.4		Diameter 100 mm	no	1		
8.1.2.5		Diameter 125 mm	no	1		
8.1.2.6		Diameter 150 mm	no	1		
8.1.2.7		Diameter 200 mm	no	1		
8.1.2.8		Diameter 250 mm	no	1		

8.1.2.9	Diameter 300 mm	no	1
8.1.2.10	Diameter 350 mm	no	1
8.1.2.11	Diameter 400 mm	no	1
8.1.2.12	Diameter 450 mm	no	1
8.1.2.13	Diameter 500 mm	no	1
8.1.2.14	Diameter 550 mm	no	1
8.1.2.15	Diameter 700mm	no	1
8.1.2.16	Diameter 900 mm	no	1
8.1.2.17	Diameter 1000 mm	no	1
T16 Klinger Gaskets			
8.1.3			
8.1.3.1	Diameter 50 mm	no	1
8.1.3.2	Diameter 65 mm	no	1
8.1.3.3	Diameter 80 mm	no	1
8.1.3.4	Diameter 100 mm	no	1
8.1.3.5	Diameter 125 mm	no	1
8.1.3.6	Diameter 150 mm	no	1
8.1.3.7	Diameter 200 mm	no	1
8.1.3.8	Diameter 250 mm	no	1
8.1.3.9	Diameter 300 mm	no	1
8.1.3.10	Diameter 350 mm	no	1
8.1.3.11	Diameter 400 mm	no	1
8.1.3.12	Diameter 450 mm	no	1
8.1.3.13	Diameter 500 mm	no	1
8.1.3.14	Diameter 550 mm	no	1
8.1.3.15	Diameter 700mm	no	1
8.1.3.16	Diameter 900 mm	no	1
8.1.3.17	Diameter 1000 mm	no	1
T40 Klinger Gaskets			
8.1.4			
8.1.4.1	Diameter 50 mm	no	1
8.1.4.2	Diameter 65 mm	no	1
8.1.4.3	Diameter 80 mm	no	1
8.1.4.4	Diameter 100 mm	no	1

8.1.4.5	Diameter 125 mm	no	1	
8.1.4.6	Diameter 150 mm	no	1	
8.1.4.7	Diameter 200 mm	no	1	
8.1.4.8	Diameter 250 mm	no	1	
8.1.4.9	Diameter 300 mm	no	1	
8.1.4.10	Diameter 350 mm	no	1	
8.1.4.11	Diameter 400 mm	no	1	
8.1.4.12	Diameter 450 mm	no	1	
8.1.4.13	Diameter 500 mm	no	1	
8.1.4.14	Diameter 550 mm	no	1	
8.1.4.15	Diameter 700mm	no	1	
8.1.4.16	Diameter 900 mm	no	1	
8.1.4.17	Diameter 1000 mm	no	1	
Total carried forward				
Total carried forward				
Supply and deliver				
8.2	SEALS			
8.2.1	Rubber Seals Class 16			
8.2.1.1	Diameter 50 mm	no	1	
8.2.1.2	Diameter 65 mm	no	1	
8.2.1.3	Diameter 80 mm	no	1	
8.2.1.4	Diameter 100 mm	no	1	
8.2.1.5	Diameter 125 mm	no	1	
8.2.1.6	Diameter 150 mm	no	1	
8.2.1.7	Diameter 200 mm	no	1	
8.2.1.8	Diameter 250 mm	no	1	
8.2.1.9	Diameter 300 mm	no	1	
8.2.1.10	Diameter 350 mm	no	1	
8.2.1.11	Diameter 400 mm	no	1	
8.2.1.12	Diameter 450 mm	no	1	
8.2.1.13	Diameter 500 mm	no	1	
8.2.1.14	Diameter 550 mm	no	1	

8.2.1.15	Diameter 700mm	no	1
8.2.1.16	Diameter 900 mm	no	1
8.2.1.17	Diameter 1000 mm	no	1
8.2.2	Rubber Seals Class 25		
8.2.2.1	Diameter 50 mm	no	1
8.2.2.2	Diameter 65 mm	no	1
8.2.2.3	Diameter 80 mm	no	1
8.2.2.4	Diameter 100 mm	no	1
8.2.2.5	Diameter 125 mm	no	1
8.2.2.6	Diameter 150 mm	no	1
8.2.2.7	Diameter 200 mm	no	1
8.2.2.8	Diameter 250 mm	no	1
8.2.2.9	Diameter 300 mm	no	1
8.2.2.10	Diameter 350 mm	no	1
8.2.2.11	Diameter 400 mm	no	1
8.2.2.12	Diameter 450 mm	no	1
8.2.2.13	Diameter 500 mm	no	1
8.2.2.14	Diameter 550 mm	no	1
8.2.2.15	Diameter 700mm	no	1
8.2.2.16	Diameter 900 mm	no	1
8.2.2.17	Diameter 1000 mm	no	1
8.2.3	Rubber Seals Class 40		
8.2.3.1	Diameter 50 mm	no	1
8.2.3.2	Diameter 65 mm	no	1
8.2.3.3	Diameter 80 mm	no	1
8.2.3.4	Diameter 100 mm	no	1
8.2.3.5	Diameter 125 mm	no	1
8.2.3.6	Diameter 150 mm	no	1
8.2.3.7	Diameter 200 mm	no	1
8.2.3.8	Diameter 250 mm	no	1
8.2.3.9	Diameter 300 mm	no	1
8.2.3.10	Diameter 350 mm	no	1

8.2.3.11	Diameter 400 mm	no	1	
8.2.3.12	Diameter 450 mm	no	1	
8.2.3.13	Diameter 500 mm	no	1	
8.2.3.14	Diameter 550 mm	no	1	
8.2.3.15	Diameter 700mm	no	1	
8.2.3.16	Diameter 900 mm	no	1	
8.2.3.17	Diameter 1000 mm	no	1	
Total carried forward				
Total carried forward				
	Supply and deliver			
8.3	Bolts and Nuts			
8.3.1	M16 x 75 mm Bolts and nuts	no	1	
8.3.2	M18 x 75 mm Bolts and nuts	no	1	
8.3.3	M18 x 90 mm Bolts and nuts	no	1	
8.3.4	M20 x 75 mm Bolts and nuts	no	1	
8.3.5	M20 x 90 mm Bolts and nuts	no	1	
8.3.6	M24 x 75 mm Bolts and nuts	no	1	
8.3.7	M24 x 90 mm Bolts and nuts	no	1	
8.3.8	M24 x 120 mm Bolts and nuts	no	1	
8.3.9	M30 x 150mm Bolts and nuts	no	1	
8.3.10	M36 x 170mm Bolts and nuts	no	1	
8.3.11	M39 x 170mm Bolts and nuts	no	1	
	Note: The three quote system will be used to evaluate the material cost and add contractor's mark up	%		
SUB-TOTAL CARRIED FORWARD TO SUMMARY				

[illegible]

[illegible]

[illegible]

ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
12		SCHEDULE 8 - REINFORCEMENT				
		Supply and deliver				
12.1		REINFORCEMENT				
12.1.1		<u>Mild steel bars</u>				
12.1.1.1		Diameter 8mm to 16mm	kg	1		
12.1.2		<u>High tensile steel bars</u>				
12.1.2.1		Diameter 8mm to 16mm	kg	1		
12.1.3		<u>Mesh</u>				
12.1.3.1		Ref 888	kg	1		
		SUB-TOTAL CARRIED FORWARD TO SUMMARY				

ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
13		SCHEDULE 9 - MECHANICAL				
		Supply and deliver				
13.1		Pumps				
		Submersibe Pumps				
13.1.1		Borehole pump 0.37 kW	no	1		
13.1.1.1		Borehole pump 0.55 kW	no	1		
13.1.1.2		Borehole pump 0.75 kW	no	1		
13.1.1.3		Borehole pump 1.1 kW	no	1		
13.1.1.4		Borehole pump 1.5 kW	no	1		
13.1.1.5		Borehole pump 2.2 kW	no	1		
13.1.1.6		Borehole pump 3 kW	no	1		
13.1.1.7		Borehole pump 3.7 kW	no	1		
13.1.1.8		Borehole pump 4 kW	no	1		
13.1.1.9		Borehole pump 5.5 kW	no	1		
13.1.1.10		Borehole pump 7.5 kW	no	1		
13.1.1.11		Amarex 0.37 kW to 7.5 kW	no	1		
13.1.1.12		Amarex NS 0.37 kW to 7.5 kW	no	1		
13.1.1.13		Amarex KRT 0.37 kW to 7.5 kW	no	1		
13.1.1.14						
13.1.2		Centrifugal Pumps				
13.1.2.1		Multi-stage Pump 0.65 kW	no	1		
13.1.2.2		Multi-stage Pump 0.94 kW	no	1		
13.1.2.3		Multi-stage Pump 2.2 kW	no	1		
13.1.2.4		Multi-stage Pump 2.85 kW	no	1		
13.1.2.5		Multi-stage Pump 5.5 kW	no	1		
13.1.2.6		Multi-stage Pump 10 kW	no	1		
13.1.2.7		Multi-stage Pump 20 kW	no	1		
13.1.2.8		Multi-stage Pump 25 kW	no	1		
13.1.2.9		Multi-stage Pump 50 kW	no	1		
13.1.2.10		Multi-stage Pump 75 kW	no	1		

13.1.2.11	Multi-stage Pump 100 kW	no	1	
13.1.2.12	Multi-stage Pump 220 kW	no	1	
13.1.2.13	DL-DB End Suction Range 0.65 kW - 25 kW	no	1	
13.1.2.14	NF End Suction Pumps 0.65 kW - 25 kW	no	1	
13.1.2.15	Chemical Pump DL-DB Range 0.65 kW - 25 kW	no	1	
13.1.3	Waste Water Screens			
13.1.3.1	Drum Screen	no	1	
13.1.3.2	Step Screen	no	1	
13.1.3.3	Static Wedge Screen	no	1	
13.1.4	Air Blower Aeration			
13.1.4.1	Positive Displacement Blowers	no	1	
13.1.4.2	Multistage Centrifugal Blower	no	1	
13.1.4.3	High Speed Blower	no	1	
13.1.4.4	Regenerative Blower	no	1	
13.2	<i>Note: The three qoute system will be used to evaluate the material cost</i>	%		
SUB-TOTAL CARRIED FORWARD TO SUMMARY				

ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
14	14	SCHEDULE 10 - ELECTRICAL				
14.1		Supply and deliver Borehole Pump Timer	no	1		
14.2		Electromagnetic Flow Indicator	no	1		
14.3		Borehole Pump motor	no	1		
14.4		Borehole Control box 0.37 kW	no	1		
14.5		Borehole Control box 0.55 kW	no	1		
14.6		Borehole Control box 0.75 kW	no	1		
14.7		Borehole Control box 1.1 kW	no	1		
14.8		Borehole Control box 1.5 kW	no	1		
14.9		Borehole Control box 2.2 kW	no	1		
14.10		Borehole Control box 3 kW	no	1		
14.11		Borehole Control box 3.7 kW	no	1		
14.12		Borehole Control box 4 kW	no	1		
14.13		Borehole Control box 5.5 kW	no	1		
14.14		Borehole Control box 7.5 kW	no	1		
14,15		<i>Note: The three quote system will be used to evaluate the material cost, specialist work and add ontractor's mark up</i>	%			
SUB-TOTAL CARRIED FORWARD TO SUMMARY						

[illegible]

REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
12	SCHEDULE 12 - CHEMICALS				
	Supply and deliver				
12.1	WTW				
12.1.1	5000 L Chem Flocc A7D (Flocculant)	no	1		
12.1.2	25 Kg White hydrated Lime	no	1		
12.1.3	925 kg Chlorine gas	no	1		
12.2	WTW				
12.2.1	70 Kg Liquid Chlorine	no	1		
12.3	Reverse Osmosis Plant				
12.3.1	25 L PWT Spectraguard 300 (Antiscalant)	no	1		
12.3.2	1000 L Sodium metabisulfite	no	1		
12.3.3	Chlorine - Sodium hypochlorite	no	1		
12.4	Other Chemicals				
12.4.1	25 Kg HTH industrial granular	no	1		
12.4.2	200 Kg HTH Industrial chip dozer	no	1		
12.4.3	10 tablets Chlorine inline feeder	no	1		
12.4.4	12 tablets Chlorine inline feeder	no	1		
12.4.5	35 Kg HTH Chip dozer	no	1		
12.4.6	25 Kg Scientific Industrial Chip	no	1		
12.4.7	2 Kg Scientific Reservoir refill (HTH)	no	1		
12.4	<i>Note: The three quote system will be used to evaluate the material cost and add contractor's mark up</i>	%			
SUB-TOTAL CARRIED FORWARD TO SUMMARY					

ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
13		SCHEDULE 13 - MISCELLANEOUS				
13.1		Supply and deliver				
13.1.1		Pipe Brackets				
13.1.1.1		Diameter 20 mm (ND)	no	1		
13.1.1.2		Diameter 25 mm(ND)	no	1		
13.1.1.3		Diameter 32 mm (ND)	no	1		
13.1.1.4		Diameter 40 mm (ND)	no	1		
13.1.1.5		Diameter 50 mm (ND)	no	1		
13.1.1.6		Diameter 65 mm (ND)	no	1		
13.1.1.7		Diameter 80 mm (ND)	no	1		
13.1.1.8		Diameter 90 mm (ND)	no	1		
13.1.1.9		Diameter 100 mm (ND)	no	1		
13.1.1.10		Diameter 125 mm (ND)	no	1		
13.1.1.11		Diameter 150 mm (ND)	no	1		
13.1.1.12		Diameter 200 mm (ND)	no	1		
13.1.1.13		Diameter 250 mm (ND)	no	1		
13.1.1.14		Diameter 300 mm (ND)	no	1		
13.1.1.15		Diameter 350 mm (ND)	no	1		
13.1.1.16		Diameter 400 mm (ND)	no	1		
13.1.1.17		Diameter 450 mm (ND)	no	1		
13.1.1.18		Diameter 500 mm (ND)	no	1		
13.1.2		Vent Pipe				
13.1.2.1		100 mm Elbow Vent Pipe	no	1		
13.1.3		Threaded rods				
13.1.3.1		M10 x 1m	no	1		
13.1.3.2		M12 x 1m	no	1		
13.1.3.3		M14 x 1m	no	1		
13.1.3.4		M16 x 1m	no	1		
13.1.3.5		M18 x 1m	no	1		
13.1.3.6		M20 x 1m	no	1		
13.1.3.7		M22 x 1m	no	1		
13.1.3.8		M24 x 1m	no	1		
13.1.3.9		M27 x 1m	no	1		
13.1.3.10		M30 x 1m	no	1		
13.1.3.11		M33 x 1m	no	1		
13.1.3.12		M36 x 1m	no	1		
13.1.3.13		M39 x 1m	no	1		
13.1.4		Manhole Cover and Frame				
13.1.4.1		1m x 0.5 m	no	1		
13.1.4.2		1 m x 1 m	no	1		
13.1.4.3		2 m x 0.5 m (Heavy duty)	no	1		
13.1.4.4		2 m x 0.6 m (Heavy duty)	no	1		
13.1.5		Solvent Cleaner				
13.1.5.1		500ml Tangit PVC Solvent Cleaner	no	1		
13.1.6		Tangit PVC Solvent Cements				

13.1.6.1	1litre Tangit PVC Solvent Cement - Tin	no	1
13.1.6.2	100ml Tangit PVC Solvent Cement - Tube	no	1
13.1.6.3	250ml Tangit PVC Solvent Cement - Tin	no	1
13.1.6.4	250ml Tangit PVC Solvent Cement Exp - Tin	no	1
13.1.6.5	500ml Tangit PVC Solvent Cement - Tin	no	1
13.1.7	Weatherproof Padlocks Abus 70AL/45mm Aluminium Padlock Yellow Abus 70AL/45mm Aluminium Padlock Green KA Masterlock 6121 Pro Series Padlock Masterlock 6121 Pro Series Padlock KA Masterlock 6121 Pro Series Padlock LS Masterlock 6121 Pro Series Padlock KA LS	no	1
13.1.7.1	Abus 70AL/45mm Aluminium Padlock Yellow	no	1
13.1.7.2	Abus 70AL/45mm Aluminium Padlock Green KA	no	1
13.1.7.3	Masterlock 6121 Pro Series Padlock	no	1
13.1.7.4	Masterlock 6121 Pro Series Padlock KA	no	1
13.1.7.5	Masterlock 6121 Pro Series Padlock LS	no	1
13.1.7.6	Masterlock 6121 Pro Series Padlock KA LS	no	1
13.1.7.7	Abus Extreme Padlock 83WP 52mm	no	1
13.1.7.8	Abus Extreme Padlock 83WP 60mm	no	1
13.1.7.9	Abus Extreme Padlock 83WP 52mm	no	1
13.1.8	Hose Pipe 20mm X 40m 10mm X 10m	no	1
13.1.8.1	20mm X 40m	no	1
13.1.8.2	10mm X 10m	no	1
13.1.9	Honey Sucker Pipes 110mm X 40m	no	1
13.1.10	Other items 1000 ml measuring cylinder 250 ml glass beaker 10ml test tube Wheelbarrow (concrete polypan) Disposable latex gloves Full face gas mask Dust Mask Respiratory Mask with filters fitted Lab Wash bottle Ammonium Solution Cotton Wool Measuring Cylinder 1000ml Glass Beaker 250 ml Syringe 10ml Handheld pool net Sanitary hand washing soap Sanitising fluid Gas cylinder trolley Rubber rake Brush cutting machine Machine oil 20L 2 Stroke oil 20L Grass cutting slasher Grass cutting googles	no	1

SUB-TOTAL CARRIED FORWARD TO SUMMARY					
13.1.10.25	Grass cutting knee pad	no	1		
13.1.10.26	Grass cutting trimmer line 2.5mm (160 m)	no	1		
13.1.10.27	6" digital calliper Vernier gauge micrometer	no	1		
13.1.10.28	Eveready/Duracell Alkaline battery (AA)	no	1		
13.1.10.29	Heavy Duty Garden Pick	no	1		
13.1.10.30	Handle garden spade	no	1		
13.1.10.31	Step Ladder 2 meter	no	1		
13.1.10.32	Hard Broom	no	1		
13.1.10.33	8mm spring Nozzles 110	no	1		
13.1.10.34	8mm Spring Nozzles 160	no	1		
13.1.10.35	8mm Roots Nozzles 110	no	1		
13.1.10.36	8mm Roots Nozzles 160	no	1		
13.1.10.37	8mm Rods Spanner	no	1		
13.1.10.38	8mm Rods	no	1		
13.1.10.39	Plier	no	1		
13.1.10.40	250 mm Grip Pipe Wrench	no	1		
13.1.10.41	Full face gas mask	no	1		
13,2	Note: The three goute system will be used to evaluate the material cost and add contractor's mark up	%			