

SCHEDULE 2: SPECIAL PIPE WORKS AND FITTINGS						
ITEM NO.	REF	DESCRIPTION	UNIT	QUANT	RATE	AMOUNT
2	<b>SABS 1200 DB</b>	<b><u>SPECIAL PIPE WORK AND FITTINGS</u></b>				
		<b><u>EARTHWORKS</u></b>				
	<b>SABS 1200L</b>	<b><u>STEEL PIPES and FITTINGS</u></b>				
	<b>PSL4.1</b>	Fabrication, supply, transport and install and test the following pipe fittings. All items to be approved by Engineer prior to ordering.				
		<b><u>Pump station 3 :</u></b>				
	<b>PSL4.1</b>	<b><u>STEEL PRESSED TANK Inlet Pipework (dwg - N/3110/M/6/302RA&amp;303RA)</u></b>				
2.1		a) Pipe item number 3.1.1. : 600mm Ø Flange adaptor	no	1		
2.2		b) Pipe item number 3.1.2. : 600mm Ø Flanged MS elbow.	no	2		
2.3		c) Pipe item number 3.1.3. : 600mm Ø Flanged MS pipe. 8400mm long	no	2		
2.4		d) Pipe item number 3.1.4. : 600mm Ø Flanged MS pipe. 500mm long	no	2		
2.5		e) Pipe item number 3.1.5 : 600mm Ø Flanged MS pipe. 1131mm long	no	2		
2.6		f) Pipe item number 3.1.6 : 600mm Ø Flange adaptor.	no	1		
2.7		g) Pipe item number 3.1.7 : 600mm Ø Flanged MS pipe piece with puddle flange as indicated. 1144mm long	no	1		
2.8		h) Pipe item number 3.1.8 : 600 x 450mm Ø Flanged MS concentric reducer.	no	2		
2.9		i) Pipe item number 3.1.9 : 450mm Ø RSV gate valve.	no	1		
2.10		j) Pipe item number 3.1.10 : 450mm Ø Flanged MS pipe piece 989mm long	no	1		
2.11		k) Pipe item number 3.1.11 : 450mm Ø Hydraulic control valve. Oblique pattern, globe valves with double chamber unitized actuator	no	1		
2.12		l) Pipe item number 3.1.12 : 450mm Ø Flanged MS pipe piece with puddle flange as indicated. 860mm long	no	1		
2.13		m) Pipe item number 3.1.13 : 600mm Ø MS pipe Flanged one end with other end suitable for flange adaptor.	no	1		
	<b>PSL4.1</b>	<b><u>Suction Pipework (dwg - N/3110/M/6/302RA)</u></b>				
2.14		a) Pipe item number 3.2.1: 700mm Ø to 300mm Ø flanged ms concentric reducer.	no	3		
2.15		b) Pipe item number 3.2.2. : 700mm Ø flanged ms pipe with position of puddle flange as indicated. 2500mm long	no	2		
2.16		c) Pipe item number 3.2.3. :700mm Ø flanged ms 45° bend.	no	3		
2.17		d) Pipe item number 3.2.4. : 700mm Ø flanged ms pipe. 4000mm long	no	2		
<b>TOTAL CARRIED FORWARD</b>						

ITEM NO.	REF	DESCRIPTION	UNIT	QUANT	RATE	AMOUNT
<b>TOTAL BROUGHT FORWARD</b>						
2.18		e) Pipe item number 3.2.5. : 700mm Ø flanged ms 45° bend	no	3		
2.19		f) Pipe item number 3.2.6. 700mm Ø butterfly valve	no	3		
2.20		g) Pipe item number 3.2.7. : 1200mm Ø to 700mm Ø bell mouth with flange as indicated.	no	3		
2.21		h) Pipe item number 3.2.8. : 700mm Ø flanged ms pipe. 2831mm long	no	1		
2.22		i) Pipe item number 3.2.9. : 700mm Ø flanged ms pipe with position of puddle flange as indicated. 3467mm long	no	1		
	<b>PSL4.1</b>	<b><u>Delivery Pipework (dwg - N/3110/M/6/303RA)</u></b>				
2.23		a) Pipe item number 3.3.1. : 400mm Ø to 250mm Ø Flanged MS concentric reducer.	no	3		
2.24		b) Pipe item number 3.3.2. : 400mm Ø Flanged check valve. Metal seated single door one piece body non return valve.	no	3		
2.25		c) Pipe item number 3.3.3. : 400mm Ø pump control valve. double chambered, hydraulically operated, diaphragm actuated active check valve that opens fully or shuts off in response to electric signals.	no	3		
2.26		d) Pipe item number 3.3.4. : 400mm Ø RSV gate valve	no	3		
2.27		e) Pipe item number 3.3.5. : 600mm Ø x 400mm Ø Flanged MS sweep tee- piece.	no	3		
2.28		f) Pipe item number 3.3.6. : 600mm Ø Flanged MS pipe.	no	2		
2.29		g) Pipe item number 3.3.7. : 600mm Ø Flanged MS pipe with position of puddle flange as indicated.	no	1		
2.30		h) Pipe item number 3.3.8. : 600Ø x 600Ø Flanged MS tee-piece.	no	1		
2.31		i) Pipe item number 3.3.9. : 600 mm Ø MS blank flange with 150 mm Ø Flanged tee-stub	no	1		
2.32		j) Pipe item number 3.3.10. : 150 mm Ø Flanged gate valve	no	1		
2.33		k) Pipe item number 3.3.11. : 150 mm Ø Double acting SS air valve	no	1		
2.34		l) Pipe item number 3.3.12. : 600mm Ø Flanged MS 45° bend.	no	1		
2.35		m) Pipe item number 3.3.13. : 600mm Ø Flanged MS pipe.	no	1		
2.36		n) Pipe item number 3.3.14. : 600mm Ø Flanged MS 45° bend.	no	1		
2.37		o) Pipe item number 3.3.15. : 600mm Ø Flanged MS pipe.	no	1		
2.38		p) Pipe item number 3.3.16. : 600mm Ø Flanged MS pipe.	no	1		
2.39		q) Pipe item number 3.3.17. : 500mm Ø MS pipe piece, Flanged one end & other end suitable for flexible coupling.	no	1		
<b>TOTAL CARRIED FORWARD</b>						

ITEM NO.	REF	DESCRIPTION	UNIT	QUANT	RATE	AMOUNT
<b>TOTAL BROUGHT FORWARD</b>						
2.40		r) Pipe item number 3.3.18. : 500mm Ø Flexible coupling.	no	1		
2.41		s) Pipe item number 3.3.19. : 500mm Ø MS pipe piece, Flanged one end & other end suitable for flexible coupling. puddle flange in position as indicated.	no	1		
2.42		t) Pipe item number 3.3.20. : 500mm Ø MS pipe piece, Flanged one end & other end suitable for flexible coupling. puddle flange in position as indicated.	no	1		
2.43		u) Pipe item number 3.3.21. : 500mm Ø Flange adaptor bolts to suit length of restraining flange.	no	1		
2.44		v) Pipe item number 3.3.22. : 500mm Ø Flanged concentric non - return valve.Axial flow, spring assisted check valve.	no	1		
2.45		w) Pipe item number 3.3.23. : 500 x 200 mm Ø Flanged MS tee-piece.	no	1		
2.46		x) Pipe item number 3.3.24. : 500 x Flanged RSV Valve	no	1		
2.47		y) Pipe item number 3.3.25. : 600mm Ø to 500mm Ø Flanged MS concentric reducer.	no	2		
2.48		z) Pipe item number 3.3.26. : 600mm Ø Flanged MS pipe piece. puddle flange in position as indicated.	no	1		
2.49		aa) Pipe item number 3.3.27. : 600mm Ø Flange adaptor.	no	1		
2.50	<b>PSL4.1</b>	<b><u>Surge Pipework (dwg - N/3110/M/6/303RA)</u></b>				
2.51		a) Pipe item number 3.4.1. : 200mm Ø MS pipe piece, Flanged one end & other end suitable for flange adaptor.	no	1		
2.52		b) Pipe item number 3.4.2. : 200mm Ø Flange adaptor.	no	1		
2.53		c) Pipe item number 3.4.3. : 200 mm Ø Flanged RSV valve	no	1		
2.54		d) Pipe item number 3.4.4. : 200mm surge anticipating valve model 835.	no	1		
2.55		e) Pipe item number 3.4.5. : 200mm Ø MS pipe piece, Flanged one end & other end suitable for flexible coupling. puddle flange in position as indicated.	no	1		
2.56		f) Pipe item number 3.4.6. 200mm Ø Flexible coupling	no	1		
2.57		g) Pipe item number 3.4.7 : 200mm Ø MS pipe piece, Flanged one end & other end suitable for flexible coupling.	no	1		
2.58		h) Pipe item number 3.4.8. : 200mm Ø Flanged MS 45° bend.	no	1		
2.59		i) Pipe item number 3.4.9. : 200mm Ø Flanged MS pipe.	no	1		
		j) Pipe item number 3.4.10. : 200mm Ø Flanged MS pipe.	no	3		
<b>TOTAL CARRIED FORWARD</b>						

ITEM NO.	REF	DESCRIPTION	UNIT	QUANT	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
2.60	PSL4.1	<b><u>Overflow &amp; Scour Pipe work (dwg - N/3110/M/6/303RA)</u></b>				
		a) Pipe item number 3.5.1. : 300mm Ø flanged ms pipe. 671mm long	no	1		
2.61		b) Pipe item number 3.5.2. : 300mm Ø flanged ms elbow.	no	3		
2.62		c) Pipe item number 3.5.3. : 300mm Ø flanged ms pipe. 8400mm long	no	1		
2.63		e) Pipe item number 3.5.4. : 300Ø x 300Ø flanged ms tee-piece.	no	1		
2.64		f) Pipe item number 3.5.5. : 300mm Ø flanged ms pipe.	no	1		
2.65		g) Pipe item number 3.5.6. : 300mm Ø ms pipe with flange one end. 627mm long	no	1		
2.66		h) Pipe item number 3.5.7 : 300mm Ø RSV gate valve.	no	1		
2.67		i) Pipe item number 3.5.8. : 900mm Ø to 300mm Ø bell mouth with flange as indicated.	no	1		
2.68		j) Pipe item number 3.5.9. : 300mm Ø MS Pipe with flange one end 627mm	no	1		
	PSL4.1	<b><u>Pump station 4</u></b>				
		<b><u>STEEL PRESSED TANK Inlet Pipework (dwg - N/3110/M/6/402RA)</u></b>				
2.69		a) Pipe item number 4.1.1. : 600mm Ø Flange adaptor	no	1		
2.70		b) Pipe item number 4.1.2. : 600mm Ø Flanged MS elbow.	no	2		
2.71		c) Pipe item number 4.1.3. : 600mm Ø Flanged MS pipe. 8400mm long	no	2		
2.72		d) Pipe item number 4.1.4. : 600mm Ø Flanged MS pipe. 500mm long	no	1		
2.73		e) Pipe item number 4.1.5 : 600mm Ø Flanged MS pipe. 1131mm long	no	1		
2.74		f) Pipe item number 4.1.6 : 600mm Ø Flange adaptor.	no	1		
2.75		g) Pipe item number 4.1.7 : 600mm Ø Flanged MS pipe piece with puddle flange as indicated. 1144mm long	no	1		
2.76		h) Pipe item number 4.1.8 : 600 x 450mm Ø Flanged MS concentric reducer.	no	2		
2.77		i) Pipe item number 4.1.9 : 450mm Ø RSV gate valve.	no	1		
2.78		j) Pipe item number 4.1.10 : 450mm Ø Flanged MS pipe piece	no	1		
2.79		k) Pipe item number 4.1.11 : 450mm Ø Hydraulic control valve. Oblique pattern, globe valves with double chamber unitized actuator	no	1		
2.80	l) Pipe item number 4.1.12 : 450mm Ø Flanged MS pipe piece with puddle flange as indicated.	no	1			
2.81	m) Pipe item number 4.1.13 : 600mm Ø MS pipe Flanged one end with other end suitable for flange adaptor.	no	1			
TOTAL CARRIED FORWARD						

ITEM NO.	REF	DESCRIPTION	UNIT	QUANT	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
2.82	PSL4.1	<b><u>Suction Pipework (dwg - N/3110/M/6/402RA)</u></b> a) Pipe item number 4.2.1: 700mm Ø to 300mm Ø flanged ms concentric reducer.	no	3		
2.83		b) Pipe item number 4.2.2. : 700mm Ø flanged ms pipe with position of puddle flange as indicated. 2500mm long	no	2		
2.84		c) Pipe item number 4.2.3. :700mm Ø flanged ms 45° bend.	no	3		
2.85		d) Pipe item number 4.2.4. : 700mm Ø flanged ms pipe. 4000mm long	no	2		
2.86		e) Pipe item number 4.2.5. : 700mm Ø flanged ms 45° bend	no	3		
2.87		f) Pipe item number 4.2.6. 700mm Ø butterfly valve	no	3		
2.88		g) Pipe item number 4.2.7. : 1200mm Ø to 700mm Ø bell mouth with flange as indicated.	no	3		
2.89		h) Pipe item number 4.2.8. : 700mm Ø flanged ms pipe. 2831mm long	no	1		
2.90		i) Pipe item number 4.2.9. : 700mm Ø flanged ms pipe with position of puddle flange as indicated. 3467mm long	no	1		
2.91	PSL4.1	<b><u>Delivery Pipework (dwg - N/3110/M/6/403RA)</u></b> a) Pipe item number 4.3.1. : 400mm Ø to 250mm Ø Flanged MS concentric reducer.	no	3		
2.92		b) Pipe item number 4.3.2. : 400mm Ø Flanged check valve. Metal seated single door one piece body non return valve.	no	3		
2.93		c) Pipe item number 4.3.3. : 400mm Ø pump control valve. double chambered, hydraulically operated, diaphragm actuated active check valve that opens fully or shuts off in response to electric signals.	no	3		
2.94		d) Pipe item number 4.3.4. : 400mm Ø RSV gate valve	no	3		
2.95		e) Pipe item number 4.3.5. : 600mm Ø x 400mm Ø Flanged MS sweep tee- piece.	no	3		
2.96		f) Pipe item number 4.3.6. : 600mm Ø Flanged MS pipe.	no	2		
2.97		g) Pipe item number 4.3.7. : 600mm Ø Flanged MS pipe with position of puddle flange as indicated.	no	1		
2.98		h) Pipe item number 4.3.8. : 600Ø x 600Ø Flanged MS tee-piece.	no	1		
2.99		i) Pipe item number 4.3.9. : 600 mm Ø MS blank flange with 150 mm Ø Flanged tee-stub	no	1		
2.100		j) Pipe item number 4.3.10. : 150 mm Ø Flanged gate valve	no	1		
2.101		k) Pipe item number 4.3.11. : 150 mm Ø Double acting SS air valve	no	1		
2.102		l) Pipe item number 4.3.12. : 600mm Ø Flanged MS 45° bend.	no	1		
2.103		m) Pipe item number 4.3.13. : 600mm Ø Flanged MS pipe.	no	1		
TOTAL CARRIED FORWARD						

ITEM NO.	REF	DESCRIPTION	UNIT	QUANT	RATE	AMOUNT
<b>TOTAL BROUGHT FORWARD</b>						
2.104		n) Pipe item number 4.3.14. : 600mm Ø Flanged MS 45° bend.	no	1		
2.105		o) Pipe item number 4.3.15. : 600mm Ø Flanged MS pipe.	no	1		
2.106		p) Pipe item number 4.3.16. : 600mm Ø Flanged MS pipe.	no	1		
2.107		q) Pipe item number 4.3.17. : 500mm Ø MS pipe piece, flanged one end & other end suitable for flexible coupling.	no	1		
2.108		r) Pipe item number 4.3.18. : 500mm Ø Flexible coupling.	no	1		
2.109		s) Pipe item number 4.3.19. : 500mm Ø MS pipe piece, flanged one end & other end suitable for flexible coupling. puddle flange in position as indicated.	no	1		
2.110		t) Pipe item number 4.3.20. : 500mm Ø MS pipe piece, flanged one end & other end suitable for flexible coupling. puddle flange in position as indicated.	no	1		
2.111		u) Pipe item number 4.3.21. : 500mm Ø Flange adaptor bolts to suit length of restraining flange.	no	1		
2.112		v) Pipe item number 4.3.22. : 500mm Ø Flanged concentric non - return valve. Axial flow, spring assisted check valve	no	1		
2.113		w) Pipe item number 4.3.23. : 500 x 200 mm Ø Flanged MS tee-piece.	no	1		
2.114		x) Pipe item number 4.3.24. : 500 mm Ø Flanged gate valve	no	1		
2.115		y) Pipe item number 4.3.25. : 600mm Ø to 500mm Ø flanged MS concentric reducer.	no	2		
2.116		z) Pipe item number 4.3.26. : 600mm Ø Flanged MS pipe piece. puddle flange in position as indicated.	no	1		
2.117		aa) Pipe item number 4.3.27. : 600mm Ø Flange adaptor.	no	1		
	<b>PSL4.1</b>	<b><u>Surge Pipework (dwg - N/3110/M/6/403RA)</u></b>				
2.118		a) Pipe item number 4.4.1. : 200mm Ø MS pipe piece, flanged one end & other end suitable for flange adaptor.	no	1		
2.119		b) Pipe item number 4.4.2. : 200mm Ø Flange adaptor.	no	1		
2.120		c) Pipe item number 4.4.3. : 200 mm Ø Flanged RSV valve	no	1		
2.121		d) Pipe item number 4.4.4. : 200mm surge anticipating valve	no	1		
2.122		e) Pipe item number 4.4.5. : 200mm Ø MS pipe piece, flanged one end & other end suitable for flexible coupling. puddle flange in position as indicated.	no	1		
2.123		f) Pipe item number 4.4.6. : 200mm Ø Flexible coupling	no	1		
2.124		g) Pipe item number 4.4.7 : 200mm Ø MS pipe piece, flanged one end & other end suitable for flexible coupling.	no	1		
2.125		h) Pipe item number 4.4.8. : 200mm Ø Flanged bend.	no	1		
<b>TOTAL CARRIED FORWARD</b>						

ITEM NO.	REF	DESCRIPTION	UNIT	QUANT	RATE	AMOUNT
<b>TOTAL BROUGHT FORWARD</b>						
2.126	PSL4.1	i) Pipe item number 4.4.9. : 200mm Ø Flanged MS pipe.	no	1		
2.127		j) Pipe item number 4.4.10. : 200mm Ø Flanged MS pipe.	no	3		
2.128		<b><u>Overflow &amp; Scour Pipe work (dwg - N/3110/M/6/403RA)</u></b>				
2.129		a) Pipe item number 4.5.1. : 300mm Ø flanged ms pipe. 671mm	no	1		
2.130		b) Pipe item number 4.5.2. : 300mm Ø flanged ms 90 Deg. elbow.	no	3		
2.131		c) Pipe item number 4.5.3. : 300mm Ø flanged ms pipe. 8400mm	no	1		
2.132		e) Pipe item number 4.5.4. : 300Ø x 300Ø flanged ms tee-piece.	no	1		
2.133		f) Pipe item number 4.5.5. : 300mm Ø flanged ms pipe piece	no	1		
2.134		g) Pipe item number 4.5.6. : 300mm Ø ms pipe with flange one end. 627mm long	no	1		
2.135		h) Pipe item number 4.5.7 : 300mm Ø RSV gate valve.	no	1		
2.136		i) Pipe item number 4.5.8. : 900mm Ø to 300mm Ø bell mouth with flange as indicated.	no	1		
2.136		i) Pipe item number 4.5.9. : 300mm Ø MS Pipe with flange one end.	no	1		
2.137		<b><u>Steel Pressed Reservoir</u></b> Supply, Deliver, Install and Commission the following steel pressed tank with aproximate dimensions and minimum supply volume required. Tank to be corrosion protected according to SANS 121:				
		a) 9.76m x 8.54 x 7.32 (H x W x B) with minimum supply capacity of 610kl	no	2		
<b>TOTAL SCHEDULE 2 CARRIED FORWARD TO SUMMARY</b>						