

SCHEDULE 12: SPECIAL PIPE WORKS AND FITTINGS TO PIPELINE						
ITEM NO.	REF	DESCRIPTION	UNIT	QUANT	RATE	AMOUNT
12	SABS 1200 DB	<u>SECTION 4: SPECIAL PIPE WORK AND FITTINGS</u>				
		<u>EARTHWORKS</u>				
	8.3.2(a)	Excavate in all materials for pipe valve manholes. Backfill, compact, and dispose of surplus/unsuitable material for pipes:				
12.1		a) Air valve chambers	m ³	1072		
12.2		b) Scour valve chambers	m ³	1152		
12.3		c) Junction boxes and chambers	m ³	372		
12.4		d) Surface pipeline pedestals	m ³	810		
12.5		<u>Extra-over item 12.1 to 12.4 for:</u> a) Hard rock excavation	m ³	855		
12.6	8.3.3.3	<u>EXCAVATION ANCILLARIES</u> Compaction in roads reserves	m ³	647		
	SABS 1200L PSL 4.1	<u>STEEL PIPES and FITTINGS</u> Fabrication, supply, transport and install and test the following pipe fittings. All items to be approved by Engineer prior to ordering.				
	PSL 4.1	<u>80mmØ DOUBLE ACTING AIR VALVE CHAMBER ON 630mmØ PIPELINE. Class 25. (dwg - N/3110/W/11/006RA)</u>				
12.7		a) Item 4.1: 600mm dia. flange adaptor.	no	10		
12.8		b) Item 4.2: 600mm dia. flanged MS equal tee-piece	no	5		
12.9		c) Item 4.3: 600 x 400mm dia. flanged MS concentric reducer.	no	5		
12.10		d) Item 4.4: 400mm x 200mm dia. flanged MS concentric reducer.	no	5		
12.11		e) Item 4.5: 80mm Ø MS pipe with one side flanged and the other side a 200mm x 80mm Reducing Flange	no	5		
12.12		f) Item 4.6: 80mm dia. flanged RSV gate valve	no	5		
12.13		g) Item 4.7: 80mm dia. flanged MS pipe piece	no	5		
12.14		h) Item 4.8: 80mm dia. Double acting airvalve with anti shock mechanism, Flanged	no	5		
12.15		i) GMS Gooseneck vent pipe for all structures	no	5		
	PSL 4.1	<u>100mmØ DOUBLE ACTING AIR VALVE CHAMBER ON 630mmØ PIPELINE. Class 25. (dwg - N/3110/W/11/007RA)</u>				
12.16		a) Item 7.1: 600mm dia. flange adaptor.	no	4		
12.17		b) Item 7.2: 600mm dia. flanged MS equal tee-piece	no	2		
12.18		c) Item 7.3: 600 x 400mm dia. flanged MS concentric	no	2		
TOTAL CARRIED FORWARD						

ITEM NO.	REF	DESCRIPTION	UNIT	QUANT	RATE	AMOUNT	
TOTAL BROUGHT FORWARD							
12.19	PSL 4.1	d) Item 7.4: 400 x 200mm dia. flanged MS concentric reducer.	no	2			
12.20		e) Item 7.5: 100mm Ø MS pipe with one side flaged and the other side a 200mm x 100mm Reducing Flange	no	2			
12.21		f) Item 7.6: 100mm dia. flanged RSV gate valve	no	2			
12.22		g) Item 7.7: 100mm dia. flanged MS pipe piece	no	2			
12.23		h) Item 7.8: 100mm dia. Double acting airvalve with anti shock mechanism, Flanged	no	2			
12.24		i) GMS Gooseneck vent pipe for all structures	no	2			
		<u>150mmØ DOUBLE ACTING AIR VALVE CHAMBER ON 630mmØ PIPELINE. Class 25. (dwg - N/3110/W/11/008RA)</u>					
12.25		a) Item 7.1: 600mm dia. flange adaptor.	no	14			
12.26		b) Item 7.2: 600mm dia. flanged MS equal tee-piece	no	7			
12.27		c) Item 7.3: 600 x 400mm dia. flanged MS concentric reducer.	no	7			
12.28	PSL 4.1	d) Item 7.4: 400 x 200mm dia. flanged MS concentric reducer.	no	7			
12.29		e) Item 7.5: 150mm dia. MS pipe with one side flaged and the other side a 200mm x 150mm Reducing Flange	no	7			
12.30		f) Item 7.6: 150mm dia. flanged RSV gate valve	no	7			
12.31		g) Item 7.7: 150mm dia. MS pipe piece flanged	no	7			
12.32		h) Item 7.8: 150mm dia. Double acting airvalve with anti shock mechanism, Flanged	no	7			
12.33		i) GMS Gooseneck vent pipe for all structures	no	7			
		<u>200mmØ DOUBLE ACTING AIR VALVE CHAMBER ON 630mmØ PIPELINE. Class 25. (dwg - N/3110/W/11/009RA)</u>					
12.34		a) Item 7.1: 600mm dia. flange adaptor.	no	4			
12.35		b) Item 7.2: 600mm dia. flanged MS equal tee-piece	no	2			
12.36		c) Item 7.3: 600 x 400mm dia. flanged MS concentric reducer.	no	2			
12.37		d) Item 7.4: 400 x 200mm dia. flanged MS concentric reducer.	no	2			
12.38		e) Item 7.5: 200mm dia. MS pipe piece flanged	no	2			
12.39		f) Item 7.6: 200mm dia. flanged gate valve	no	2			
12.40		g) Item 7.7: 200mm dia. MS pipe piece flanged	no	2			
TOTAL CARRIED FORWARD							

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12.41	PSL 4.1	h) Item 7.8: 200mm dia. Double acting with anti shock mechanism, Flanged	no	2		
12.42		i) GMS Gooseneck vent pipe for all structures	no	2		
		<u>100mmØ ARI D-060 AIR & CHECK VALVE COMBINATION CHAMBER ON 600mmØ PIPELINE. Class 25 (dwg - N/3110/W/11/010RA)</u>				
12.43		a) Item 8.1: 600mm dia. flange adaptor.	no	10		
12.44		b) Item 8.2: 600mm dia. flanged MS pipe piece, with position of puddle flange as indicated. 1500mm long	no	5		
12.45		c) Item 8.3: 600mm dia. flanged swing check valve,	no	5		
12.46		d) Item 8.4: 600mm dia. MS pipe piece, flanged one end and other end suitable for flange adaptor.	no	5		
12.47		e) Item 8.5: 600mm dia. flanged MS equal tee-piece.	no	5		
12.48		f) Item 8.6: 600 x 500mm dia. flanged MS concentric reducer.	no	5		
12.49		g) Item 8.7: 100mm dia. flanged MS pipe piece, one end flanged to suit 500mm dia. and other end to suit 100mmdia..	no	5		
12.50		h) Item 8.8: 100mm dia. flanged RSV, right hand closing, non rising spindle gate valve. (PN25)	no	5		
12.51		i) Item 8.9: 100mm dia. flanged air valve.	no	5		
12.52		j) Item 8.10: 600mm x 100mm Flanged MS reducing Tee Piece	no	5		
12.53		k) Item 8.11: 100mm Flanged MS 45Deg Bend	no	5		
12.54		l) Item 8.12: 100mm Flanged MS on one end only.	no	5		
12.55		m) Item 8.13: 100mm Flanged butterfly valve with gearbox operator	no	5		
12.56		n) Item 8.14: 100mm Flange adaptor	no	5		
		<u>200mm Ø PIP LINE SCOUR ASSEMBLY ON 630mm PIPELINE. (dwg - N/3110/W/11/012RA)</u>				
12.57	a) Item SC 11.1: 600 x 200mm dia. flanged MS reducing tee-piece.	no	16			
12.58	b) Item SC 11.2: 600mm dia. flanged MS pipe piece, with position of puddle flange as indicated.	no	32			
12.59	c) Item SC 11.3: 600mm dia. flange adaptor.	no	32			
12.60	d) Item SC 11.4: 200mm dia. PN16 butterfly valve.	no	16			
12.61	e) Item SC 11.5: 200mm dia. flange adaptor.	no	16			
TOTAL CARRIED FORWARD						
ITEM	REF	DESCRIPTION	UNIT	QUANT	RATE	AMOUNT

NO.	REF	DESCRIPTION	UNIT	QUANT	RATE	AMOUNT	
TOTAL BROUGHT FORWARD							
12.62	PSL 4.1	f) Item SC 11.6: 200mm dia. MS pipe piece, flanged one end, with other end suitable for flange adaptor. position of puddle flange as indicated	no	16			
12.63		g) Item SC 11.7: 200mm dia. flanged MS pipe piece.	no	16			
12.64		h) Item SC 11.8: 200mm dia. MS puddle pipe piece, flanged one end and the other end plain ended. Position of puddle flange as indicated	no	16			
		<u>HORIZONTAL AND VERTICAL BENDS</u> <u>Fabrication, supply, transport and install and test the following pipe fittings. All items to be approved by Engineer prior to ordering.</u> <u>600ND Flanged Long radius steel bends FBE and Drilled SABS 1123, Table 2500/3.</u>					
12.65		a) From 3 degrees to 6 degrees	no	123			
12.66		b) From 6 degrees to 9 degrees	no	64			
12.67		c) From 9 degrees to 12 degrees	no	36			
12.68		d) From 12 degrees to 15 degrees	no	30			
12.69		e) From 15 degrees to 18 degrees	no	20			
12.70		f) From 18 degrees to 21 degrees	no	12			
12.71		g) From 21 degrees to 24 degrees	no	15			
12.72		h) From 24 degrees to 27 degrees	no	7			
12.73		i) From 27 degrees to 30 degrees	no	8			
12.74		j) From 30 degrees to 33 degrees	no	6			
12.75		k) From 33 degrees to 36 degrees	no	6			
12.76		l) From 36 degrees to 39 degrees	no	6			
12.77		m) From 39 degrees to 42 degrees	no	4			
12.78		n) From 42 degrees to 45 degrees	no	9			
12.79		o) From 45 degrees to 48 degrees	no	4			
12.80		p) From 48 degrees to 51 degrees	no	8			
12.81		q) From 51 degrees to 54 degrees	no	4			
12.82		r) From 54 degrees to 57 degrees	no	4			
12.83		s) From 57 degrees to 60 degrees	no	4			
12.84		t) From 60 degrees to 63 degrees	no	2			
12.85		u) From 63 degrees to 66 degrees	no	3			
12.86		v) From 66 degrees to 69 degrees	no	4			
TOTAL CARRIED FORWARD							
ITEM NO.	REF	DESCRIPTION	UNIT	QUANT	RATE	AMOUNT	

TOTAL BROUGHT FORWARD						
12.87		w) From 69 degrees to 72 degrees	no	2		
12.88		x) From 72 degrees to 75 degrees	no	4		
12.89		y) From 75 degrees to 78 degrees	no	3		
12.90		z) From 78 degrees to 81 degrees	no	1		
12.91		aa) From 81 degrees to 84 degrees	no	2		
	PSL 4.1	<u>Fabrication, supply, transport and install and test the following MS Flange adaptors. Drilled SABS 1123, table 2500/3</u>				
12.92		a) For 600mm pipe fittings	no	782		
TOTAL SCHEDULE 12 CARRIED FORWARD TO SUMMARY						