

1. SCOPE OF WORK OF GOODS REQUIRED

1. Background

The store at Mkondeni does not have an active pipe supply contract to deal with maintenance requirements. Therefore there is inadequate spares holding to deal maintenance demands and to mitigate supply risks. This leads to the workshops having to procure repair spares externally in order to do repairs. This leads to delays in the turnaround times to restore services and numerous emergency orders are generated to external suppliers.

Equipping the stores with the relevant pipe spares will reduce the risk exposure currently faced and will assist in speedily resolving breakdown as the required spares will be accessed internally through stores

2. Description of goods/ services required.

This acquisition comprises the supply and delivery of various size Un-plasticised poly vinyl chloride (uPVC), Modified poly vinyl chloride (M-PVC) pressure rubber ring socket and plain ended bevelled pipe, PVC non pressure pipes, HDPE pipes Fitting and specials. The various type of pipes must conform to SANS 966-1, SANS 966-2, SANS 761, SANS 1601, SANS 4427 as specified in the specifications and scope of work and schedule.

The pipes must be delivered in the specified standard lengths 6 m

Un-plasticised and Modified poly vinyl chloride (uPVC and MPVC)

- PIPE UPVC and MPVC 500 mm CLASS 12, 16 and 25
- PIPE UPVC and MPVC 450 mm CLASS 12, 16 and 25
- PIPE UPVC and MPVC 400 mm CLASS 12, 16 and 25
- PIPE UPVC and MPVC 355 mm CLASS 12, 16 and 25
- PIPE UPVC and MPVC 315 mm CLASS 12, 16 and 25
- PIPE UPVC and MPVC 250mm CLASS 12, 16 and 25
- PIPE UPVC and MPVC 200mm CLASS 12, 16 and 25
- PIPE MPVC and MPVC 177mm CLASS 12, 16 and 25
- PIPE UPVC and MPVC 160mm CLASS 12, 16 and 25
- PIPE UPVC and MPVC 140 mm CLASS 12, 16 and 25
- PIPE UPVC and MPVC 125mm CLASS 12, 16 and 25
- PIPE UPVC and MPVC 110mm CLASS 12, 16 and 25
- PIPE UPVC and MPVC 90 mm CLASS 12, 16 and 25
- PIPE UPVC and MPVC 75mm CLASS 12, 16 and 25
- PIPE UPVC and MPVC 63mm CLASS 12, 16 and 25
- PIPE UPVC and MPVC 50mm CLASS 12, 16 and 25
- PIPE UPVC 40mm CLASS 12, 12, 16 and 25 16 and 25
- PIPE UPVC 32 mm CLASS 12, 16 and 25
- PIPE UPVC 25 mm CLASS 12, 16 and 25
- PIPE UPVC 20 mm CLASS 12, 16 and 25

Poly vinyl chloride (SANS 761 and 1601) Plain ended and integral joint

- PIPE PVC 250mm CLASS 34, 51, 200 & 400
- PIPE PVC 200mm CLASS 34, 51, 200 & 400
- PIPE PVC and MPVC 160mm CLASS 34, 51, 200 & 400
- PIPE PVC and MPVC 110mm CLASS 34, 51, 200 & 400

PE100 HDPE piping as per SANS 4427 standard CLASS 16

- 16 mm diameter X 100 m roll
- 20mm diameter x 100 m roll
- 25mm diameter X 100 m roll
- 32mm diameter X 100 m roll
- 40mm diameter X 100 m roll
- 50mm diameter X 100 m roll

- 63mm diameter X 100 m roll
- 75mm diameter X 100 m roll
- 90mm diameter X 100 m roll
- 110mm diameter X 50 m roll
- 160 mm diameter x 6 m length
- 160 mm x diameter 9 m length
- 200 mm diameter x 6 m length
- 200 mm diameter x 9 m length
- 250 mm diameter x 6 m length
- 250 mm diameter x 9 m length
- 315 mm diameter x 6 m length
- 315 mm diameter x 9 m length
- 400 mm diameter x 6 m length
- 400 mm diameter x 9 m length
- 450 mm diameter x 6 m length
- 450 mm diameter x 9 m length

Fittings

- Various size and type of reducers
- Various sizes and type of couplers
- Various sizes and type of sliding couplers
- Various sizes and type of Tee special
- Various sizes and types of saddles

Specials and bends

- 11.25 degree various type and size bends
- 22.5 degrees various type and size bends
- 45 degrees various type and size of bends
- 90 degrees various type and size of bends

3. Technical Specification/Extent of the supply

General

Materials shall be transported, stored and handled in such a manner that pipes and fittings are not overstressed at any time and are not damaged in any way, All thin-walled, flexible, and soft-coated pipes shall be handled with particular care and shall be so stored that they are not subject to concentrated pressure from stones or other obstructions, Pipes damaged or cracked in any way shall be removed from the Site at no cost to the Employer.

Pipes to be supplied in 6m lengths, with constant outside diameters for all classes of a given size,

- Pipe ends / joints shall be spigot and socket pipe with integral socket and locked-in rubber ring seal
- Pipes shall be pressure Class unless otherwise indicated.

All pipes delivered will have distinct markings cast or stamped onto the pipe indicating the following:

- SABS Mark or SABS Specification number
- Nominal pipe size
- Pressure class
- The designation "PVC-U"
- Manufacturer's trade name or trade mark o
- Batch identification number that provides traceability of the product,
- with the date and time of manufacture

It will be the suppliers' responsibility to deliver the pipes in a perfect, damage-free condition to site.

It will be the supplier's responsibility to offload the pipes on site

The pipe supplier must allow for suitable UV protection to cover pipe stockpiles and prevent sun damage.

UPVC (Un-plasticised Polyvinyl Chloride) Pressure Pipes & Fittings

Pipes to be manufactured, supplied and delivered to the following standards,

- Pipe and fittings for pressure pipe systems: SANS 966 Part 1
- Design stress: 10 & 12.5 MPa
- Safety factor :2.5 & 2.0
- Seal rings: SANS 4633

M PVC (Modified Polyvinyl Chloride) Pressure pipes and fittings

Pipes to be manufactured, supplied and delivered to the following standards

- Pipes and fittings for pressure pipe systems: SANS 966 Part 2 -2013
- Design stress : 18 MPa
- Safety factor : 1.4
- Seal rings –SANS 4633

PVC - O (Oriented Polyvinyl Chloride) Pressure pipes and fittings

Pipes to be manufactured, supplied and delivered to the following standards

- Pipes and fittings for pressure pipe systems: SANS 16422
- Design stress : 36 MPa
- Safety factor : 1.4
- Seal rings – EN 681-1

UPVC (Un-plasticised Polyvinyl Chloride) Structured wall pipe/multi-layer for buried Drainage and Sewerage Systems

Pipes to be manufactured, supplied and delivered to the following standards

- Pipes and fittings for structured/multi wall pipe systems: SANS 1601:2010
- Colour SABS 1091 white sand Long radius bends

UPVC (Un-plasticised Polyvinyl Chloride) Solid wall for buried Drainage and Sewerage Systems

Pipes to be manufactured, supplied and delivered to the following standards

- Pipes and bends solid wall pipe systems: SANS 791 :2010
- Heavy duty pipe -300 KPa pipe stiffness
- Medium duty pipe – 100 KPa pipe stiffness

UPVC (Un-plasticised Polyvinyl Chloride) Soil, Waste and Vent Pipes

Pipes to be manufactured, supplied and delivered to the following standards

- Pipes and fittings Soil, waste and vent pipes systems: SANS 967 :2010

PE 100 HDPE Piping to SANS4427

PHYSICAL PROPERTIES

Physical Properties	Test Mode	Values	Unit
Density g/cm ³	ISO 1183	0.958	
Melt Flow Index (190 °C / 21.6Kg)	ISO 1133	6.5	g/10 min.

Melt Flow Index (190°C/5Kg)	ISO 1133	0,23	g/10 min
Vicat Softening point (5Kg)	ISO 306	67	°C
Crystalline Melting Range	ISO 3146-85	130- 133	°C
Viscosity Number	ISO 1628-3	390	cm3 /g

MECHANICAL PROPERTIES

Physical Properties	Test Mode	Values	Unit
Shore D. Hardness	ISO 868	61	-
Tensile @ Yield	ISO 527	26	MPa
Ultimate Tensile	ISO 527	35	MPa
Ultimate Elongation	ISO 527	>600	%
Elastic Modules	ISO 527	900	MPa
Flexural Stress (3.5% Deflection)	ISO 178	19	MPa
Notched Impact (Charpy) acN 23°C	ISO 119	20	KJ/m3
Notched Impact (Charpy) acN 30°C	ISO 179	6	KJ/m3
Thermal Stability 210°C	ISO 10837	>60	min
Carbon Black Content	ASTM D 1603	>2	%

4. Schedule of items supplied under this contract

ITEM NO.	ITEM DESCRIPTION
UPVC PIPES CLASS 12 SANS 966 PART 1 SPIGOT AND SOCKET	
1.	25 mm dia class 12
2.	32 mm dia class 12
3.	40mm dia class 12
4.	50mm dia class 12
5.	63mm dia class 12
6.	75mm dia class 12
7.	90mm dia class 12
8.	110mm dia class 12
9.	125mm dia class 12
10.	160mm dia class 12
11.	200mm dia class 12
12.	250mm dia class 12
13.	315mm dia class 12
14.	355mm dia class 12
15.	400 mm dia class 12
UPVC PIPES CLASS 16 SANS 966 PART 1 SPIGOT AND SOCKET	
16.	16 mm dia class 16
17.	20 mm dia class 16
18.	25 mm dia class 16
19.	32 mm dia class 16
20.	40mm dia class 16
21.	50mm dia class 16
ITEM NO.	ITEM DESCRIPTION

22.	63mm dia class 16
23.	75mm dia class 16
24.	90mm dia class 16
25.	110mm dia class 16
26.	125mm dia class 16
27.	160mm dia class 16
28.	200mm dia class 16
29.	250mm dia class 16
30.	315mm dia class 16
31.	355mm dia class 16
32.	400 mm dia class 16
UPVC PIPES CLASS 20 SANS PART 1 SPIGOT AND SOCKET	
33.	110mm dia class 20
34.	125mm dia class 20
35.	160mm dia class 20
36.	200mm dia class 20
37.	250mm dia class 20
M-PVC PIPES CLASS 16 SANS PART 2 SPIGOT AND SOCKET	
38.	50mm dia class 16
39.	63mm dia class 16
40.	75mm dia class 16
41.	90mm dia class 16
42.	110mm dia class 16
43.	125mm dia class 16
44.	160mm dia class 16
45.	200mm dia class 16
46.	250mm dia class 16
47.	315 mm dia class 16
48.	355mm dia class 16
49.	400 mm dia class 16
M-PVC PIPES CLASS 20 SANS PART 2 SPIGOT AND SOCKET	
50.	50mm dia class 20
51.	63mm dia class 20
52.	75mm dia class 20
53.	90mm dia class 20
54.	110mm dia class 20
55.	125mm dia class 20
56.	160mm dia class 20
57.	200mm dia class 20
58.	250mm dia class 20
59.	315mm dia class 20
60.	355 mm dia class 20
M-PVC PIPES CLASS 25 SANS PART 2 SPIGOT AND SOCKET	
61.	50mm dia class 25
62.	63mm dia class 25
63.	75mm dia class 25
64.	90mm dia class 25
65.	110mm dia class 25
ITEM NO.	ITEM DESCRIPTION

66.	125mm dia class 25
67.	160mm dia class 25
68.	200mm dia class 25
69.	250mm dia class 25
PVC- O PIPES CLASS 12 SANS 16422 SPIGOT AND SOCKET	
70.	90mm dia class 12
71.	110mm dia class 12
72.	125mm dia class 12
73.	160mm dia class 12
74.	200mm dia class 12
75.	250mm dia class 12
76.	315mm dia class 12
77.	355mm dia class 12
78.	400 mm dia class 12
PVC- O PIPES CLASS 16 SANS 16422 SPIGOT AND SOCKET	
79.	90mm dia class 16
80.	110mm dia class 16
81.	125mm dia class 16
82.	160mm dia class 16
83.	200mm dia class 16
84.	250mm dia class 16
85.	315 mm dia class 16
86.	355mm dia class 16
87.	400 mm dia class 16
PVC- O PIPES CLASS 20 SANS 16422 SPIGOT AND SOCKET	
88.	90mm dia class 20
89.	110mm dia class 20
90.	125mm dia class 20
91.	160mm dia class 20
92.	200mm dia class 20
93.	250mm dia class 20
94.	315mm dia class 20
95.	355 mm dia class 20
96.	400 mm dia class 20
PVC- O PIPES CLASS 25 SANS 16422 SPIGOT AND SOCKET	
97.	90mm dia class 25
98.	110mm dia class 25
99.	125mm dia class 25
100.	160mm dia class 25
101.	200mm dia class 25
102.	250mm dia class 25
103.	315mm dia class 25
104.	355 mm dia class 25
105.	400 mm dia class 25
90° UPVC PRESSURE BENDS CLASS 16 SANS 966 PART 1 SPIGOT AND SOCKET	
106.	50mm
107.	63mm
108.	75mm
109.	90mm
ITEM NO.	ITEM DESCRIPTION

110.	110mm
111.	125mm
112.	160mm
113.	200mm
114.	250mm
115.	315mm
45° UPVC PRESSURE BENDS CLASS 16 SANS 966 PART 1 SPIGOT AND SOCKET	
116.	50mm
117.	63mm
118.	75mm
119.	90mm
120.	110mm
121.	125mm
122.	160mm
123.	200mm
124.	250mm
125.	300mm
126.	315mm
22.5° UPVC PRESSURE BENDS CLASS 16 SANS 966 PART 1 SPIGOT AND SOCKET	
127.	50mm
128.	63mm
129.	75mm
130.	90mm
131.	110mm
132.	125mm
133.	160mm
134.	200mm
135.	250mm
136.	300mm
137.	315mm
11.25° UPVC PRESSURE BENDS CLASS 16 SANS 966 PART 1 SPIGOT AND SOCKET	
138.	50mm
139.	63mm
140.	75mm
141.	90mm
142.	110mm
143.	125mm
144.	160mm
11.25° UPVC PRESSURE BENDS CLASS 16 SANS 966 PART 1 SPIGOT AND SOCKET CONTINUED	
145.	200mm
146.	250mm
147.	300mm
148.	315mm
90° MPVC PRESSURE BENDS CLASS 16 SANS 966 PART 2 SPIGOT AND SOCKET	
149.	50mm
150.	63mm
151.	75mm
152.	90mm
153.	110mm
ITEM NO.	ITEM DESCRIPTION

154.	125 mm
155.	160mm
156.	200mm
157.	250mm
158.	300mm
159.	315mm
45° MPVC PRESSURE BENDS CLASS 16 SANS 966 PART 2 SPIGOT AND SOCKET	
160.	50mm
161.	63mm
162.	75mm
163.	90mm
164.	110mm
165.	125mm
166.	160mm
167.	200mm
168.	250mm
169.	300mm
170.	315mm
22.5° MPVC PRESSURE BENDS CLASS 16 SANS 966 PART 2 SPIGOT AND SOCKET	
171.	50mm
172.	63mm
173.	75mm
174.	90mm
175.	110mm
176.	125mm
177.	160mm
178.	200mm
179.	250mm
180.	300mm
181.	315mm
11.25° MPVC PRESSURE BENDS CLASS 16 SANS 966 PART 2 SPIGOT AND SOCKET	
182.	50mm
183.	63mm
184.	75mm
185.	90mm
186.	110mm
187.	125mm
188.	160mm
189.	200mm
190.	250mm
191.	300mm
192.	315mm
UPVC TO AC ADAPTORS CLASS 16 SANS 966 SOCKET AND PLAIN END	
193.	50 mm – 50 mm
194.	63 mm - 50 mm
195.	75 mm - 75 mm
196.	90 mm - 75 mm
197.	110 mm – 100 mm
198.	160 mm - 150 mm
ITEM NO.	ITEM DESCRIPTION

199.	200 mm – 200 mm
200.	200 mm - 225 mm
201.	315 mm - 350 mm
202.	350 mm - 375 mm
203.	400 mm - 450 mm
UPVC CLASS 16 SANS 966 DOUBLE SOCKET	
204.	50mm
205.	63mm
206.	75mm
207.	90mm
208.	110mm
209.	125mm
210.	160mm
211.	200mm
212.	250mm
213.	300mm
214.	315mm
CAST IRON EQUAL TEE FOR UPVC PIPE	
215.	90 X 90 mm
216.	110 X 110 mm
217.	160 X 160 mm
218.	200 X 200 mm
219.	250 X 250 mm
CAST IRON REDUCING TEE FOR UPVC PIPE	
220.	63mm x 50mm
221.	75mm x 50mm
222.	75mm x 63 mm
223.	90mm x 50mm
224.	90mm x 63 mm
225.	90mm x 75 mm
226.	110mm x 50 mm
227.	110 mm x 63mm
228.	110mm x 90mm
229.	160 mm x50 mm
230.	160 mm x63 mm
231.	160 mm x75 mm
232.	160 mm x90 mm
233.	160 mm x110 mm
234.	160 mm x 125 mm
235.	160 mm x 140 mm
236.	200 mm x 50 mm
237.	200 mm x 63mm
238.	200 mm x 75 mm
239.	200 mm x 90 mm
240.	200 mm x 110 mm
241.	200 mm x 125 mm
242.	200 mm x 140 mm
243.	200 mm x 160 mm
244.	250 mm x 50 mm
ITEM NO.	ITEM DESCRIPTION

245.	250 mm x 63 mm
246.	250 mm x 75 mm
247.	250 mm x 90 mm
248.	250 mm x 110 mm
249.	250 mm x 125 mm
250.	250 mm x 140 mm
251.	250 mm x 160 mm
252.	250 mm x 200 mm
CAST IRON HYDRANT TEE FOR UPVC PIPE	
253.	110 mm x 80 mm Flange SANS 1123 Table 10
254.	160 mm x 80 mm Flange SANS 1123 Table 10
255.	200 mm x 80 mm Flange SANS 1123 Table 10
256.	250 mm x 80 mm Flange SANS 1123 Table 10
257.	110 mm x 80 mm Flange SANS 1123 Table 16
258.	160 mm x 80 mm Flange SANS 1123 Table 16
259.	200 mm x 80 mm Flange SANS 1123 Table 16
260.	250 mm x 80 mm Flange SANS 1123 Table 16
CAST IRON SCOUR TEE FOR UPVC PIPE	
261.	110 mm x 100 mm Flange SANS 1123 Table 10
262.	160 mm x 100 mm Flange SANS 1123 Table 10
263.	200 mm x 100 mm Flange SANS 1123 Table 10
264.	250 mm x 100 mm Flange SANS 1123 Table 10
265.	110 mm x 100 mm Flange SANS 1123 Table 16
266.	160 mm x 100 mm Flange SANS 1123 Table 16
267.	200 mm x 100 mm Flange SANS 1123 Table 16
268.	250 mm x 100 mm Flange SANS 1123 Table 16
CAST IRON SOCKETED REDUCER FOR UPVC PIPE	
269.	90mm x 63 mm
270.	110 mm x 63mm
271.	110mm x 90mm
272.	160 mm x90 mm
273.	160 mm x110 mm
274.	200 mm x110 mm
275.	200 mm x160 mm
CAST IRON SOCKETED FLANGE ADAPTORS FOR UPVC	
276.	110 mm x 100 mm Flange SANS 1123 Table 10
277.	160 mm x 150 mm Flange SANS 1123 Table 10
278.	200 mm x 200 mm Flange SANS 1123 Table 10
279.	250 mm x 250 mm Flange SANS 1123 Table 10
280.	110 mm x 100 mm Flange SANS 1123 Table 16
281.	160 mm x 150 mm Flange SANS 1123 Table 16
282.	200 mm x 200 mm Flange SANS 1123 Table 16
283.	250 mm x 250 mm Flange SANS 1123 Table 16
CAST IRON SADDLES UPVC drilled 25mm	
284.	90mm
285.	110mm
286.	125mm
287.	160mm
288.	200mm
ITEM NO.	ITEM DESCRIPTION

289.	315mm
CAST IRON SADDLES UPVC drilled 32 mm	
290.	90mm
291.	110mm
292.	125mm
293.	160mm
294.	200mm
295.	315mm
POLYPROPYLENE COPOLYMER STABILIZED (PP-B) WITH MASTER BATCHES UV STABILIZED (GRADE 8, ASTM D2565, 1-8 BLUE CLAMP SADDLES WITH STAINLESS STEEL REINFORCING RING, FLAT GASKET AND GALVANIZED BOLTS AND NUTS SANS 1808 -44 2010 PN 16	
296.	50 mm x 1/2"
297.	50 mm x 3/4"
298.	50 mm x 1"
299.	50 mm x 1 1/4"
300.	63 mm x 1/2"
301.	63 mm x 3/4"
302.	63 mm x 1"
303.	63 mm x 1 1/4"
304.	63 mm x 1 1/2"
305.	75 mm x 1/2"
306.	75 mm x 3/4"
307.	75 mm x 1"
308.	75 mm x 1 1/4"
309.	75 mm x 1 1/2"
310.	75 mm x 2"
311.	90 mm x 1/2"
312.	90 mm x 3/4"
313.	90 mm x 1"
314.	90 mm x 1 1/4"
315.	90 mm x 1 1/2"
316.	90 mm x 2"
317.	110 mm x 1/2"
318.	110 mm x 3/4"
319.	110 mm x 1"
320.	110 mm x 1 1/4"
321.	110 mm x 1 1/2"
322.	110 mm x 2"
323.	160mm x 1/2"
324.	160 mm x 3/4"
325.	160 mm x 1"
326.	160 mm x 1 1/4"
327.	160 mm x 1 1/2"
328.	160 mm x 2"
PVC-UH SOLVENT WELD FITTINGS 90° ELBOW	
329.	25 mm
330.	32 mm
331.	40 mm
332.	50mm
333.	63mm
ITEM NO.	ITEM DESCRIPTION

PVC-UH SOLVENT WELD FITTINGS 90° ELBOW	
334.	75mm
335.	90mm
336.	110mm
337.	125mm
338.	160mm
339.	200mm
340.	250mm
341.	300mm
342.	315mm
PVC-UH SOLVENT CEMENT JOINT FITTINGS 90° BEND	
343.	25 mm
344.	32 mm
345.	40 mm
346.	50mm
347.	63mm
348.	75mm
349.	90mm
350.	110mm
351.	125mm
352.	160mm
353.	200mm
354.	250mm
355.	300mm
356.	315mm
PVC-UH SOLVENT CEMENT JOINT FITTINGS 45° ELBOW	
357.	25 mm
358.	32 mm
359.	40 mm
360.	50mm
361.	63mm
362.	75mm
363.	90mm
364.	110mm
365.	125mm
366.	160mm
367.	200mm
368.	250mm
369.	300mm
370.	315mm
PVC-UH SOLVENT CEMENT JOINT FITTINGS DOUBLE SOCKET	
371.	25 mm
372.	32 mm
373.	40 mm
374.	50mm
375.	63mm
376.	75mm
377.	90mm
378.	110mm
ITEM NO.	ITEM DESCRIPTION

PVC-UH SOLVENT CEMENT JOINT FITTINGS DOUBLE SOCKET CONTINUED	
379.	125mm
380.	160mm
381.	200mm
382.	250mm
383.	300mm
384.	315mm
PVC-UH SOLVENT CEMENT JOINT FITTINGS TEE 90°	
385.	25 mm
386.	32 mm
387.	40 mm
388.	50mm
389.	63mm
390.	75mm
391.	90mm
392.	110mm
393.	125mm
394.	160mm
395.	200mm
396.	250mm
397.	300mm
398.	315mm
PVC-UH SOLVENT CEMENT JOINT FITTINGS UNION WITH O-RING	
399.	25 mm
400.	32 mm
401.	40 mm
402.	50mm
403.	63mm
404.	75mm
405.	90mm
406.	110mm
PVC-UH SOLVENT CEMENT JOINT FITTINGS REDUCED TEE 90°	
407.	25 mm x 16 mm
408.	25 mm x 20 mm
409.	32 mm x 16 mm
410.	32 mm x 20 mm
411.	32 mm x 25 mm
412.	40 mm x 20 mm
413.	40 mm x 25 mm
414.	40 mm x 32mm
415.	50 mm x 20 mm
416.	50 mm x 25 mm
417.	50 mm x 32mm
418.	50 mm x 40mm
419.	63 mm x 20 mm
420.	63 mm x 25 mm
421.	63 mm x 32mm
ITEM NO.	ITEM DESCRIPTION

PVC-UH SOLVENT CEMENT JOINT FITTINGS REDUCED TEE 90° CONTINUED	
422.	63 mm x 40mm
423.	63 mm x 50 mm
424.	75 mm x 32 mm
425.	75 mm x 40 mm
426.	75 mm x 50 mm
427.	75 mm x 63 mm
428.	90 mm x 40 mm
429.	90 mm x 50 mm
430.	90 mm x 63 mm
431.	90 mm x 75 mm
432.	110 mm x 50 mm
433.	110 mm x 63 mm
434.	110 mm x 75 mm
435.	110 mm x 90 mm
436.	125 mm x 63mm
437.	125 mm x 90 mm
438.	125 mm x 110 mm
439.	160 mm x90 mm
440.	160 mm x110 mm
PVC-UH SOLVENT CEMENT JOINT FITTINGS CAP	
441.	25 mm
442.	32 mm
443.	40 mm
444.	50mm
445.	63mm
446.	75mm
447.	90mm
448.	110mm
449.	125mm
450.	160mm
451.	200mm
452.	225 mm
PVC-UH SOLVENT CEMENT JOINT FITTINGS CROSS 90°	
453.	25 mm
454.	32 mm
455.	40 mm
456.	50mm
457.	63mm
458.	75mm
459.	90mm
460.	110mm
PVC-UH SOLVENT CEMENT JOINT FITTINGS REDUCING BUSH	
461.	25 mm x 16 mm
462.	25 mm x 20 mm
463.	32 mm x 16 mm
464.	32 mm x 20 mm
465.	32 mm x 25 mm
ITEM NO.	ITEM DESCRIPTION

PVC-UH SOLVENT CEMENT JOINT FITTINGS REDUCING BUSH CONTIUED	
466.	40 mm x 20 mm
467.	40 mm x 25 mm
468.	40 mm x 32mm
469.	50 mm x 25 mm
470.	50 mm x 32mm
471.	50 mm x 40mm
472.	63 mm x 32mm
473.	63 mm x 40mm
474.	63 mm x 50 mm
475.	75 mm x 40 mm
476.	75 mm x 50 mm
477.	75 mm x 63 mm
478.	90 mm x 50 mm
479.	90 mm x 63 mm
480.	90 mm x 75 mm
481.	110 mm x 63 mm
482.	110 mm x 75 mm
483.	110 mm x 90 mm
484.	125 mm x 75 mm
485.	125 mm x 90 mm
486.	125 mm x 110 mm
487.	160 mm x 110 mm
488.	160 mm x 125 mm
489.	160 mm x140 mm
490.	200 mm x 160 mm
491.	250 mm x160 mm
492.	250 mm x 200 mm
PVC-UH SOLVENT CEMENT JOINT FITTINGS REDUCING SOCKET	
493.	25 mm x 20 mm
494.	32 mm x 25 mm
495.	40 mm x 32mm
496.	50 mm x 40mm
497.	63 mm x 50 mm
498.	75 mm x 63 mm
499.	90 mm x 75 mm
500.	110 mm x 90 mm
501.	125 mm x 110 mm
502.	140 mm x 110 mm
503.	140 mm x 125 mm
504.	160 mm x 110 mm
505.	160 mm x 140mm
506.	200 mm x 160 mm
PVC-UH SOLVENT CEMENT JOINT FITTINGS BACKING FLANGE PN 16 & PN10	
507.	25 mm x 20 mm PN 16
508.	32 mm x 25 mm PN 16
509.	40 mm x 32mm PN 16
510.	50 mm x 40mm PN 16
511.	63 mm x 50 mm PN 16
ITEM NO.	ITEM DESCRIPTION

512.	75 mm x 65 mm PN 16
513.	90 mm x 75 mm PN 16
514.	110 mm x 100 mm PN 16
515.	160 mm x 150 mm PN 16
516.	200 mm x 200 mm PN 10
517.	250 mm x 250 mm PN 10
518.	315 mm x 300 mm PN 10
PVC-UH SOLVENT CEMENT JOINT FITTINGS FIXED FLANGE PN 16 & PN10	
519.	25 mm x 20 mm PN 16
520.	32 mm x 25 mm PN 16
521.	40 mm x 32mm PN 16
522.	50 mm x 40mm PN 16
523.	63 mm x 50 mm PN 16
524.	75 mm x 65 mm PN 16
525.	90 mm x 75 mm PN 16
526.	110 mm x 100 mm PN 16
527.	125 mm x 150 mm PN 10
528.	140 mm x 150 mm PN 10
529.	160 mm x 150 mm PN 10
PVC-UH SOLVENT CEMENT JOINT FITTINGS BLIND/BLANK FLANGE PN 16 & PN10	
530.	25 mm x 20 mm PN 16
531.	32 mm x 25 mm PN 16
532.	40 mm x 32mm PN 16
533.	50 mm x 40mm PN 16
534.	63 mm x 50 mm PN 16
535.	75 mm x 65 mm PN 16
536.	90 mm x 75 mm PN 16
537.	110 mm x 100 mm PN 16
538.	160 mm x 150 mm PN 16
539.	200 mm x 200 mm PN 10
PVC-UH SOLVENT CEMENT JOINT FITTINGS HOSE ADAPTOR	
540.	32 mm
541.	40 mm
542.	50 mm
543.	63 mm
SANS 791 :2010 SOLID WALL SEWER PIPE CLASS 51	
544.	110 mm diameter plain end
545.	110 mm diameter Socketed
546.	160mm diameter plain end
547.	160mm diameter Socketed
SANS 791 :2010 SOLID WALL SEWER PIPE CLASS 34	
548.	110 mm diameter Socketed
549.	160 mm diameter Socketed
550.	200mm diameter Socketed
551.	250mm diameter Socketed
552.	315 mm diameter Socketed
553.	355 mm diameter Socketed
554.	400 mm diameter Socketed
ITEM NO.	ITEM DESCRIPTION

SANS 1601:2010 STRUCTURED WALL PIPE MEDIUM DUTY 200 KPA	
555.	110 mm diameter plain end
SANS 1601:2010 STRUCTURED WALL PIPE HEAVY DUTY 400 KPA	
556.	110 mm diameter Socketed
557.	160 mm diameter Socketed
558.	200mm diameter Socketed
559.	250mm diameter Socketed
UNDERGROUND SEWER & DRAIN FITTINGS (SANS 791, SANS 1601)	
560.	110mm dia pvc kimberly socket
561.	160mm dia pvc kimberly socket
562.	160mm dia ug kimberly socket
563.	110mm dia pvc plain y-junction
564.	110mm dia pvc access y-junction
565.	160mm x 110mm x 45° in line junction
566.	160mm x 160mm 45° in line junction
567.	110 mm dia single (rubber ring & Solvent weld)
568.	110 mm dia double socket solvent weld
569.	110mm tee /square junctions
570.	110mm x 45 deg rodding eye
571.	160mm x 45 deg rodding eye
572.	110mm dia pvc 22.5° bend
573.	110mm dia pvc 45° bend
574.	160mm dia pvc 22.5° bend
575.	110mm dia pvc 90° bend
576.	110mm dia pvc access 90° bend
577.	110mm dia pvc end cap
578.	160mm dia pvc end cap
579.	110mm dia ug end cap male
580.	110 mm dia gulley P-trap rubber ring and spigot
581.	110mm dia ug end cap female
SANS 967 PVC SOIL, WASTE AND VENT PIPES	
582.	40 mm diameter plain end
583.	50 mm diameter plain end
584.	75 mm diameter plain end
585.	110 mm diameter plain end
586.	160 mm diameter plain end
40MM & 50MM WASTE FITTINGS (SANS 967)	
587.	40 mm dia pvc 90° bend solvent weld
588.	40 mm dia pvc 90° access bend solvent weld
589.	40 mm dia pvc 45° bend solvent weld
590.	40 mm dia pvc 45 ° access bend solvent weld
591.	40 mm dia pvc Tee solvent weld
592.	40 mm dia pvc access Tee solvent weld
593.	40 mm dia pvc 45° plain junction solvent weld
594.	40 mm dia pvc 45 ° access junction solvent weld
595.	40 mm dia pvc double socket solvent weld
596.	40 mm dia pvc single socket (solvent weld& rubber)
597.	40 mm x 1½ " BSP male adaptor(solvent & BSP thread)
598.	40 mm x 1¼ " BSP male adaptor(solvent & BSP thread)
ITEM NO.	ITEM DESCRIPTION

599.	40 mm x 1½ " BSP female adaptor(solvent & BSP thread)
600.	40 mm x 1¼ " BSP female adaptor(solvent & BSP thread)
601.	40 mm dia stop end plain male plug solvent weld
602.	40 mm dia stop end access female with screw lid solvent weld
603.	40 mm dia female stop end plug solvent weld
604.	40 mm aluminium holder bat with wall plug and nail
605.	40 mm PVC holder bat with wall plug and nail
606.	40 mm PVC holder pipe clip (clip on)
607.	50 mmx 40 mm reducer concentric insert bush solvent weld
608.	50 mm dia pvc 90° bend solvent weld
609.	50 mm dia pvc 90° access bend solvent weld
610.	50 mm dia pvc 45° bend solvent weld
611.	50 mm dia pvc 45 ° access bend solvent weld
612.	50 mm dia pvc Tee solvent weld
613.	50 mm dia pvc access Tee solvent weld
614.	50 mm dia pvc 45° plain junction solvent weld
615.	50 mm dia pvc 45 ° access junction solvent weld
616.	50 mm dia pvc double socket solvent weld
617.	50 mm dia pvc single socket (solvent weld& rubber)
618.	50 mm x 1½ " BSP male adaptor(solvent & BSP thread)
40MM & 50MM WASTE FITTINGS (SANS 967)	
619.	50 mm x 1¼ " BSP male adaptor(solvent & BSP thread)
620.	50 mm x 1½ " BSP female adaptor(solvent & BSP thread)
621.	50 mm x 1¼ " BSP female adaptor(solvent & BSP thread)
622.	50 mm x 2 " BSP male adaptor(solvent & BSP thread)
623.	50 mm dia stop end plain male plug solvent weld
624.	50 mm dia stop end access female with screw lid solvent weld
625.	50 mm dia female stop end plug solvent weld
626.	50 mm aluminium holder bat with wall plug and nail
627.	50 mm PVC holder bat with wall plug and nail
628.	50 mm PVC holder pipe clip (clip on)
629.	50 mm PVC female vent cowl
75MM & 110MM SOIL & VENT FITTINGS (SANS 967)	
630.	75 mm 45° bend plain spigot / solvent weld
631.	75 mm 45° bend access spigot / solvent weld
632.	75 mm 87.5° bend spigot / solvent weld
633.	75 mm 87.5° bend access spigot / solvent weld
634.	75 mm 87.5° Junction plain spigot / solvent weld
635.	75 mm 87.5° Junction access spigot / solvent weld
636.	75 mm 45° Junction plain spigot / solvent weld
637.	75 mm 45° Junction access spigot / solvent weld
638.	110 mm 45° bend rubber ring
639.	110 mm 45° bend access rubber ring
640.	110 mm 87.5° bend plain rubber ring
641.	110 mm 87.5° bend access rubber ring
642.	110 mmx 50mm 87.5° bend access rubber ring
643.	110 mm 87.5° Junction plain rubber ring
644.	110 mm 87.5° Junction plain spigot / rubber ring
645.	110 mm 87.5° Junction access rubber ring
ITEM NO.	ITEM DESCRIPTION

646.	110 mm 45° Junction plain spigot / solvent weld
647.	110 mm 45° Junction access spigot / solvent weld
648.	110 mm x 50 mm 87.5° Reducing Junction spigot /rubber ring
649.	110 mm x 50 mm 87.5° Reducing Junction access heel spigot /rubber ring
650.	110 mm x 40 mm 87.5° Reducing Junction access heel spigot /rubber ring
651.	110 mm x 50 mm 87.5° Reducing Junction rubber ring
652.	110 mm x 40 mm 87.5° Reducing Junction spigot /rubber ring
75MM & 110MM SOIL & VENT FITTINGS (SANS 967)	
653.	110 mm x 50 mm 87.5° Reducing Junction access heel rubber ring
654.	110 mm x 40 mm 87.5° Reducing Junction access heel rubber ring
655.	110 mm inspection straight solvent weld
656.	75 mm inspection straight solvent weld
657.	110 mm Kimberly repair socket rubber ring
658.	110 mm x 40 mm 45° Reducing Junction access heel rubber ring/spigot
659.	110 mm x 50 mm 45° access Reducing Junction rubber ring/spigot
660.	110 mm x 50 mm 45° access Reducing Junction rubber ring/spigot
661.	110 mm double socket rubber ring
662.	110 mm double socket solvent weld
663.	110 mm single socket solvent weld/rubber ring
664.	75 mm single socket solvent weld/rubber ring
665.	110 mm 90° bend plain bend pan connector rubber ring
666.	110 mm 90° bend access bend pan connector rubber ring
667.	110 mm 90° bend access bend pan connector solvent weld
668.	110 mm straight pan connector
669.	110 mm eccentric pan connector
670.	110 mm x 50 mm eccentric reducer rubber ring/spigot
671.	110 mm x 75 mm eccentric reducer rubber ring/spigot
672.	110 mm x 50 mm eccentric reducer spigot & solvent weld
673.	110 mm x 75 mm eccentric reducer spigot & solvent weld
674.	110 mm round gulley head and grate solvent weld
675.	110 mm square gulley head and grate solvent weld
676.	75 mm male stop end plain spigot plug
677.	110 mm male stop end plain spigot plug
678.	75 mm female stop end with screw lid solvent weld
679.	110 mm female stop end with screw lid solvent weld
680.	75 mm aluminium holder bat with wall plug and nail
681.	110 mm aluminium holder bat with wall plug and nail
682.	75 mm PVC holder bat with wall plug and nail
683.	110 mm PVC holder bat with wall plug and nail
684.	110 mm x50 mm PVC Strap saddle solvent weld
685.	110 mm x50 mm PVC Strap saddle rubber ring
686.	110 mm x40 mm PVC Strap saddle solvent weld
687.	110 mm x40 mm PVC Strap saddle rubber ring
688.	110 mm overflow cap solvent weld
689.	110 mm female vent cowl
ITEM NO.	ITEM DESCRIPTION

PE100 HDPE PIPING AS PER SANS 4427 STANDARD CLASS 16	
690.	16 mm diameter X 100 m roll
691.	20mm diameter x 100 m roll
692.	25mm diameter X 100 m roll
693.	32mm diameter X 100 m roll
694.	40mm diameter X 100 m roll
695.	50mm diameter X 100 m roll
696.	63mm diameter X 100 m roll
697.	75mm diameter X 100 m roll
698.	90mm diameter X 100 m roll
699.	110mm diameter X 50 m roll
700.	160 mm diameter x 6 m length
701.	160 mm x diameter 9 m length
702.	200 mm diameter x 6 m length
703.	200 mm diameter x 9 m length
704.	250 mm diameter x 6 m length
705.	250 mm diameter x 9 m length
706.	315 mm diameter x 6 m length
707.	315 mm diameter x 9 m length
708.	400 mm diameter x 6 m length
709.	400 mm diameter x 9 m length
710.	450 mm diameter x 6 m length
711.	450 mm diameter x 9 m length
HDPE COMPRESSION TYPE REDUCERS SABS CLASS 16	
712.	20 mm x16 mm
713.	25 mmx16 mm
714.	25 mmx20 mm
715.	32 mmx20 mm
716.	32 mm x25 mm
717.	40 mmx25 mm
718.	40 mm x32 mm
719.	50 mm x32 mm
720.	50 mm x40 mm
721.	63 mm x32 mm
722.	63 mm x40 mm
723.	63mm x50 mm
724.	75 mm x50 mm
725.	75 mm x63 mm
726.	90 mm x63 mm
727.	90 mm x75 mm
728.	100 mm x90 mm
HDPE COMPRESSION TYPE EQUAL TEE SABS CLASS 16	
729.	16mm
730.	20mm
731.	25mm
732.	32mm
ITEM NO.	ITEM DESCRIPTION

HDPE COMPRESSION TYPE EQUAL TEE SABS CLASS 16 CONTINUED	
733.	40mm
734.	50 mm
735.	63 mm
736.	90 mm
737.	110 mm
COMPRESSION TYPE FLANGE ADAPTORS, MULTIDRILLED CLASS 16 SABS PLASSON	
738.	50 mm
739.	63 mm
740.	90 mm
741.	110 mm
COMPRESSION TYPE REDUCING TEE CLASS 16 SABS PLASSON / UNIDELTA	
742.	20 mm x 16 mm
743.	25 mm x 20 mm
744.	32 mm x 25 mm
745.	40 mm x 32mm
746.	50 mm x 32mm
747.	50 mm x 40mm
748.	63 mm x 32mm
749.	63 mm x 40mm
750.	63 mm x 50 mm
751.	75 mm x 63 mm
752.	90 mm x 75 mm
753.	110 mm x 63 mm
754.	110 mm x 90 mm
COMPRESSION TYPE STRAIGHT COUPLING SABS CLASS 16	
755.	16mm
756.	20mm
757.	25mm
758.	32mm
759.	40mm
760.	50mm
761.	63mm
762.	75mm
763.	90 mm
764.	110 mm
HDPE COMPRESSION FLANGE ADAPTOR INCLUDING BACKING RING	
765.	50 mm x 1½ "
766.	50 mm x 2"
767.	63 mm x 2"
768.	63 mm x 2½ "
769.	75 mm x 2½ "
770.	75 mm x 3 "
771.	90 mm x 3"
772.	90 mm x 4"
773.	110mm x 4"
ITEM NO.	ITEM DESCRIPTION

HDPE COMPRESSION 90 °ELBOW COUPLING SABS CLASS 16	
774.	16mm
775.	20mm
776.	25mm
777.	32mm
778.	40mm
779.	50mm
780.	63mm
781.	75mm
782.	90 mm
783.	110 mm
HDPE MALE ADAPTOR COMPRESSION FITTING	
784.	16 mm x ½ "
785.	16 mm x ¾ "
786.	20 mm x ½ "
787.	20 mm x ¾ "
788.	20 mm x 1"
789.	25 mm x ½ "
790.	25 mm x ¾ "
791.	25 mm x 1"
792.	32 mm x ¾ "
793.	32 mm x 1"
794.	32 mm x 1 ¼ "
795.	32 mm x 1½ "
796.	40 mm x 1"
797.	40 mm x 1 ¼ "
798.	40 mm x 1½ "
799.	40 mm x 2"
800.	50 mm x 1"
801.	50 mm x 1¼ "
802.	50 mm x 1½ "
803.	50 mm x 2"
804.	63 mm x 1½ "
805.	63 mm x 2"
806.	63 mm x 2½ "
807.	75 mm x 2"
808.	75 mm x 2½ "
809.	75 mm x 3 "
810.	90 mm x 2 "
811.	90 mm x 2½ "
812.	90 mm x 3"
813.	90 mm x 4 "
814.	110 mm x 3 "
815.	110 mm x 4 "
HDPE COMPRESSION FITTING TEE 90° WITH THREADED MALE OFFTAKE	
816.	16 mm x ½ "
817.	16 mm x ¾ "
818.	20 mm x ½ "
819.	20 mm x ¾ "
ITEM NO.	ITEM DESCRIPTION

820.	25 mm x ½ "
821.	25 mm x ¾ "
822.	25 mm x 1"
823.	32 mm x ¾ "
824.	32 mm x 1"
825.	40 mm x ¾ "
826.	40 mm x 1 ¼ "
827.	40 mm x 1½ "
828.	50 mm x ¾ "
829.	50 mm x 1¼ "
830.	50 mm x 1½ "
831.	63 mm x 1¼ "
832.	63 mm x 1½ "
833.	63 mm x 2"
834.	63 mm x 2½ "
835.	75 mm x 2½ "
836.	75 mm x 3 "
837.	90 mm x 3"
838.	110 mm x 4 "
FEMALE ADAPTOR COMPRESSION FITTING	
839.	16 mm x ½ "
840.	16 mm x ¾ "
841.	20 mm x ½ "
842.	20 mm x ¾ "
843.	25 mm x ½ "
844.	25 mm x ¾ "
845.	25 mm x 1"
846.	32 mm x ¾ "
847.	32 mm x 1"
848.	32 mm x 1 ¼ "
849.	40 mm x 1"
850.	40 mm x 1 ¼ "
851.	40 mm x 1½ "
852.	50 mm x 1"
853.	50 mm x 1¼ "
854.	50 mm x 1½ "
855.	50 mm x 2"
856.	63 mm x 1½ "
857.	63 mm x 2"
858.	63 mm x 2½ "
859.	75 mm x 2"
FEMALE ADAPTOR COMPRESSION FITTING CONTINUED	
860.	75 mm x 2½ "
861.	75 mm x 3 "
862.	90 mm x 2 "
863.	90 mm x 2½ "
864.	90 mm x 3"
865.	110 mm x 3 "
866.	110 mm x 4 "
ITEM NO.	ITEM DESCRIPTION

TEE 90° WITH THREADED FEMALE OFFTAKE COMPRESSION FITTING	
867.	16 mm x ½"
868.	16 mm x ¾"
869.	20 mm x ½"
870.	20 mm x ¾"
871.	25 mm x ½"
872.	25 mm x ¾"
873.	25 mm x 1"
874.	32 mm x ½"
875.	32 mm x ¾"
876.	32 mm x 1"
877.	32 mm x 1 ¼"
878.	40 mm x ¾"
879.	40 mm x 1"
880.	40 mm x 1 ¼"
881.	40 mm x 1½"
882.	50 mm x 1"
883.	50 mm x 1¼"
884.	50 mm x 1½"
885.	50 mm x 2"
886.	63 mm x 1¼"
887.	63 mm x 1½"
888.	63 mm x 2"
889.	75 mm x 2"
890.	75 mm x 2½"
891.	75 mm x 3"
892.	90 mm x 3"
893.	110 mm x 4"
POLYCOP PIPE AND FITTINGS SABS 4427	
894.	15mm x 100m
895.	22mm x 100m
896.	28mm x 100m
897.	15mm c/c straight coupler dzt brass
898.	22mm c/c straight coupler dzt brass
899.	28mm c/c straight coupler dzt brass
900.	15mm c/ male adaptor dzt brass
901.	15mm c/ female coupler dzt brass
POLYCOP PIPE AND FITTINGS SABS 4427 CONTINUED	
902.	22mm c/ male coupler dzt brass
903.	22mm c/ female coupler dzt brass
904.	28mm c/c female coupler dzt brass
905.	15mm c/c elbows dzt brass
906.	22mm c/c elbows dzt brass
907.	15mm c/c elbows coupler dzt brass
908.	22mm c/c elbows coupler dzt brass
909.	15mm copper female iron elbows
910.	15mm copper male iron elbows
911.	22mm copper male iron elbows
912.	15mm c/c tee dzt brass
ITEM NO.	ITEM DESCRIPTION

913.	22mm c/c tee dzt brass
914.	28mm c/c tee dzt brass
915.	22mm x 15mm dia c/c coupling dzt brass
916.	28mm x 22mm reducing coupling dzt brass
HELI – FLEX HOSE SABS APPROVED	
917.	50mm
918.	80mm
919.	100mm
920.	150 mm
LAY FLAT HOSE SABS APPROVED	
921.	50mm
922.	80mm
923.	100mm
GENERAL PLUMBING TOOLS AND CONSUMABLES	
924.	PTFE Tape
925.	20mm x 50m male and female ends
926.	20mm nozzles male
927.	50mm nozzles male
928.	20mm nozzles female
929.	ABE – Bitu-putty
930.	ABE – Rock Bitumen
931.	ABE – Bitu Prime
932.	Hacksaw Blade 18/25 Eclipse
933.	Q20 375ml
934.	Roll rubber insertion 10m x 1,5m x 3mm
935.	Leather insertion 2m x 1m x 3mm
936.	10kg waste rags
937.	300mm x 22.2mm x 3mm masonry cutting disc
938.	300mm x 22.2mm 3mm steel cutting disc
939.	230mm x 3,2 x 22.23mm Masonry Cutting Disc
940.	230mm x 3,2 x 22.23mm Steel Cutting Disc
941.	115mm Masonry Cutting Disc
942.	115 Steel Cutting Disc
943.	1m roll hemp
GENERAL PLUMBING TOOLS AND CONSUMABLES CONTINUED	
944.	200ml stag
945.	500ml Tangit Glue for uPVC Pipe
946.	8mm graphite packing
947.	10mm graphite packing
948.	12mm graphite packing
949.	100 disposal face mask
950.	100mm x 10m denso tape
951.	Barricading tape
952.	Barricading net 50m
953.	2,4m fencing “y” standards

5. Applicable National and International Standards

Manufacturers to be registered with SAPPMA (South African Plastic Pipe Manufacturers Association),

Manufacturer must have ISO-9001 Quality Management System,

The different pipes must conform to the following SANS specifications

- SANS 996 Part 1
- SANS 996 Part 2
- SANS 791
- SANS 1601
- SANS 967
- SANS 4427
-

6. Particular/Generic Specifications

uMngeni uThukela Water Particular Specification for 164 mm to 2230 mm diameter steel pipe, specials, coating and linings

7. Delivery Instruction

- To supply and deliver of PVC and HDPE pipes, various fittings and specials if for delivery to Mkondeni Stores
- To supply in accordance to agreed time frames and lead times for the different size fitting. Maximum Delivery time of 3 weeks on the bigger pipefittings and the initial first bulk order of the contract. The Manufacturer shall be ISO 9001 certified and the product shall be SANS/BS certified as applicable.
- Providing QCP's, manufacturing, testing, supply and delivery to Mkondeni workshops.
- Where no code of practice is available, discussions with inventory management must take place to find a solution
- The Service Provider shall prepare reports for uMngeni uThukela Water in respect of goods/services undertaken by the Service Provider in line with the Contract Terms.
- Should uMngeni uThukela Water require additional report from the Service Provider, such reports shall be submitted to uMngeni uThukela Water within a reasonable timeframe of uMngeni uThukela Water's request.

Delivery Time Frames for Replenishing of Stock:

Description	Size Range	Maximum Delivery Turnaround
Pipe and fittings	80 mm – 250 mm diameter	1 Weeks
	300 mm – 500 mm diameter	4 Weeks

8. Procedure for work execution

The Employer will only order those quantities of spares, which are actually requires for execution of repairs and stock replenishment from time to time/on as an when needed basis. The Employer reserves the right not to order any quantities at all depending on circumstances and subject to operational conditions.

The acquisition process shall be in three Categories and the categories predetermined by the end user department representative i.e.

- Standard Procedure – 5 days
- Fast Tracked Procedure – 3 days
- Crisis/emergency Procedure – 4 Hours

The Works Projects shall be done subject to availability of funding.

The Procedures are described in detail below.

8.1 Standard Procedure

As and when the Employer requires the spares and material to be acquired under this contract, the Employer shall specify the specification materials or spares required, the sizes, quantities and delivery time lines for delivery of such material in a form of an RFQ document.

The Employer will invite the successful tenderer(s) that are part of the panel to bid to supply the required spares and material.

The successful tenderer(s) will receive an RFQ document comprising Returnable Documents, Agreement and Contract Data, Bills / Schedule(s) of Quantities. The RFQ document will generally be sent to the panel of service providers via email.

In the RFQ documents Bills / Schedule(s) of Quantities the Employer shall assign quantities to the items relating to the specific spares and material required. The assigned quantity shall be multiplied by the panel member's rate at the time of request and those rates must be fixed for a minimum period of 30 days.

The Employer will specify the proposed lead times for delivery on the RFQ document. The panel member must confirm adherence to the delivery timelines

Included in RFQ document successful panel members tenderer(s) will fill be a works acceptance / refusal Notice requesting the successful tenderer to state in writing whether he/she accepts/refuses the opportunity afforded to participate further in the supplier appointment procedure (i.e. that he/she is willing/not willing to undertake the work specified in Schedule of Quantities and has/has not the necessary resources available to complete the work within the required prescribed time period should he/she be appointed).

The RFQ document shall be completed, signed and returned to the SCM buyer no later than five (5) working days of receipt of the RFQ document comprising Returnable Documents, Agreement and Contract Data, Bills / Schedule(s) of Quantities. Any prospective suppliers whose reply RFQ document is received after the date and time specified or who does not reply at all will not be considered further.

The returned Works Project documents / schedules will be evaluated in accordance with F.3.11 of the Tender Data of the Periodic Tender document. The tenderer obtaining the highest points will be appointed as Contractor to execute the works for the specific Works Project in terms of the Contract.

Commencement and Completion Date-Standard Procedure

- Contractor to Sign the Acceptance form
- SCM buyer to generate a Purchase Order
- End user

8.2 Fast Tracked Procedure

The Procedure is applied in an emergency situation where a spare or a material is needed on an urgent basis , but where it is possible to invite approved suppliers to price for the urgent supply, deliver and to be evaluated urgently in time to avoid severities to the site. The Procedure used is the same as the standard Procedure except that the supplier is expected to be return the RFQ document 3 days from the date that the emergency occurs.

The time duration for the supplier to provide a quotation is 3 days

- Time for pricing of “Emergency Works Project” – 1 day
- Time for adjudication/allocation of work – 1 day
- Time for Purchase Order and commencement – 1 day

8.3 Crisis /Emergency Procedure

This occurs where the spare and materials are required immediately. Time duration for suppliers to attend to Crisis Situation is maximum 4 hours. The Procedure is as follows:

- Operational staff will call service providers heading list of successful tenderers as per approved Tender.
- Service provider may Accept OR reject emergency supply
 - A follow up e-mail will be sent to the successful contractor confirming the time of call(s), time on site, general details of spares and material , general details of the crisis and copied to the Stores manager, Foreman, Maintenance engineer and Buyer and all unsuccessful contractors.
 - Should a contractor reject a Crisis work/supply, or is not contactable, an e-mail will be sent confirming this aspect.
 - Where a service provider was not contactable, the e-mail will include the approximate time an attempt was made to contact him.
- Acceptance of Crisis Work will require the service provider to be on able to provide quote and supply the required spare and material within 6 hours of notification.
 - Delay in providing the spare may result in the next highest scoring contractor being allocated the work. Failure to respond timeously, may lead to censor.
- Rejection by service provider, call next on list of approved tenderers
- Procedure follows as above
- Signing of Acceptance Form
 - The contractor to sign the Acceptance Form on the first day following the receipt of the RFQ notification.
 - Scanned e-mail / faxed copy of the Acceptance Form is initially acceptable.
- Procurement provides a Purchase Order post facto, after services have been rendered.

9. Quality Management

9.1 The Employer intends to arrange for quality management representatives to be present during the manufacturing process of the appurtenances as well as during the loading and dispatching. Inspection will also be conducted during the offloading and stacking processes.

9.2 During manufacturing of the fittings, the Contractor shall enable access to its facility for the purposes of the Employer’s staff and/or the Employer’s appointed inspectors to inspect the workmanship and materials during the manufacturing process.

9.3 All costs incurred by the Employer, (other than the Employer’s cost of employing their staff), including, but not limited to, travel to and from the Contractor’s manufacturing facility, accommodation, subsistence and any incidentals will be borne by the Contractor and the Employer will reimburse the Contractor for all such costs incurred.

9.4 Only appurtenances that have been inspected and accepted shall be transported to site and only appurtenances that have been inspected for transport damage and accepted may be off-loaded at the pipe yards. Each delivery is to be accompanied by the relevant delivery notes and quality control documentation. Deliveries without this documentation will not be accepted at the pipe yard.

9.5 All materials will be inspected by the Employer's quality representative upon delivery to the site to ensure that it is acceptable and in compliance with the specification. The appurtenances shall be delivered in acceptable condition without any damage. Any minor damage found once the appurtenances have been offloaded shall be repaired by the Contractor before acceptance by the Engineer on behalf of the Employer. Where unacceptable damage is found the relevant items will not be accepted and will be removed from site immediately.

9.6 The Contractor will be responsible for all material supplied until it is accepted by the Employer's representative in writing at the point of delivery on site after stacking, where after the responsibility will pass to the Employer.

9.7 All uPVC and HDPE pipe and specials shall be manufactured in accordance with an approved quality control plan and procedure (QCP&P). Manufacture shall not commence until such time as the QCP&P has been approved by the Purchaser. The Manufacturer shall, in consultation with the Purchaser or his/her representative, prepare and submit to the Purchaser for his/her approval a draft QCP&P within 14 days of award of the contract. The Purchaser shall approve the QCP&P, subject to amendments if necessary, and advise the Manufacturer accordingly within 14 days of receipt of the draft QCP&P.

9.8 The Contractor will be responsible for all material supplied until it is accepted by the Employer's representative in writing at the point of delivery on site after stacking, where after the responsibility will pass to the Employer.

10. Penalties

An amount of R 5000.00 (incl. VAT) Penalty Fee per an infringement may be fined for late deliveries of products or services rendered as stipulated in section i and ii.e.g. Review report