

**CAMDEN POWER STATION
THE SUPPLY AND DELIVERY OF PIPES**

	Description	Material number	Full Description	Unit	Qty	Rate	Total Cost
	ASH LINES						
1	Y-piece	39071	CASTING: TYPE: FORGING; DIMENSIONS: ID 300 X OD 346 X LG 990 MM; MATERIAL: CAST IRON; REFERENCE NO: 0.36/21209; MINIMUM OPERATING PRESSURE: 16 BAR; MINIMUM OPERATING TEMPERATURE: 23 DEG C; FLANGE THICKNESS: 1 OF 25 AND 2 OF 25; HOLES: 12; BOLTS: M20; MATERIAL: CAST IRON GRADE 17; PCD: 406 MM; CHEMICAL ANALYSIS %, C: 3.6, SI: 2.66, MN: 0.75, CR: 0.48, P: 0.046, S: 0.09	No	15		
2	Flange 400 PCD	598800	FLANGE, PIPE: TYPE: WELD ON; BORE: 323.9 MM; PIPE SIZE: 300 MM; MATERIAL: MILD STEEL; RATING: 16 BAR; STYLE: FF; GRADE: SANS 1123; PCD: 400 MM; BOLT HOLES: 12; BOLT HOLE SIZE: 22 MM; FLANGE DIAMETER: 445 MM; FLANGE: 300 MM; FLANGE: 22 MM THK; BOLT: M20; PCD 400 MM; ASHLINE WELDON FLANGE (2015)	No	4000		
3	Flange 400 PCD	256426	FLANGE, PIPE: TYPE: WELD ON; BORE: 445 MM; PIPE SIZE: 300 MM; MATERIAL: MS; RATING: 10 BAR; STYLE: LAPPED FACE; SPECIFICATION: BS 4504 TABLE 10; PCD: 400 MM; BOLT HOLES: 12; BOLT HOLE SIZE: M22; FLANGE DIAMETER: 445 MM	No	1500		
4	Flange 405 PCD	599698	FLANGE: TYPE: WELD ON; DIMENSIONS: ID 323.9 X OD 457.2 X THK 19 MM; MATERIAL: STL; STYLE: LAPPED FACE; RATING: 10 BAR; SPECIFICATION: BS 10T-D; PCD 406.4 MM; 12 HOLES; 22.2 MM HOLES; ASH LINE PIPE FLANGE 406 MM	No	1500		
5	Flange Big (ceramic pipe)	606428	FLANGE: TYPE: LAPPED FACE; DIMENSIONS: ID 327 X OD 528 X THK 22 MM; MATERIAL: MS; NUMBER OF HOLES: 12; HOLE DIAMETER: 24 MM; ASH LINE X-OVER FLANGE; PCD: 470 MM	No	150		
6	Expansion bellow (300NB)	576277	BELLOWS, PRESSURE: TYPE: HYDRO FORMED; PRESSURE RANGE: 16 BAR; MATERIAL: SS; DIMENSIONS: DIA 300 MM; APPLICATION: ASH PUMP DISCHARGE; END CONNECTION TYPE: FLANGE BS10/D; FLANGE THK: 35MM; FACE TO FACE: 260MM; BENNOX INSERT AND THREE ADJUSTABLE TIRODS MUST BE SUPPLIED	No	300		
7	Expansion bellow (250 NB)	598801	BELLOWS, PRESSURE: TYPE: HYDRO FORMED; PRESSURE RANGE: 16 BAR; MATERIAL: SS; END CONNECTION TYPE: FLANGE; WITH BENNOX INSERTAND THREE ADJUSTABLE TIRODS; FLANGE: FACE TO FACE 225 MM; PCD 355 MM; 12 X 26 MM HOLE SIZE; FLANGE 30 MM THK; SANS 1123- 1600/3- ASH PUMP BOTTOM BELLOW	No	90		
8	300NB Ash line pipe (Flanged)	55810	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 323.9 MM; MATERIAL: MS; LENGTH: 12 M; WALL THICKNESS: 8 MM; CONSTRUCTION: SEAMLESS; END TYPE: FLANGE; MAXIMUM OPERATING PRESSURE: 16 BAR; SCHEDULE: 30; MAXIMUM OPERATING TEMP: 23 DEG C; SPECIFICATION: BS 4504-T10- APPLICATION: ASH PLANT- PIPE OD 324MM	m	9000		
9	300NB Ash line pipe (not flanged)	256842	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 300 MM; MATERIAL: MS; LENGTH: 12 M; WALL THICKNESS: 8 MM; SPECIFICATION: SABS 719; APPLICATION ASH LINES	m	10000		
10	250NB pipe (not flanged)	707197	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: DIA NB250; MATERIAL: MILD STEEL; LENGTH: 12 M; WALL THICKNESS: 6 MM; MAXIMUM OPERATING PRESSURE: 16 BAR; MAXIMUM OPERATING TEMP: 5-40 DEG C; GRADE: SABS 719; 3.1 MATERIAL CERTIFICATE TO BE SUPPLIED WITH EVERY DELIVERY	m	3000		
11	400NB pipe (not flanged)	707199	PIPE BEND, METALLIC: DIAMETER: NB 300; CONNECTION: WELDED; MATERIAL: MILD STEEL; GRADE: SABS 719; DEGREE: 90 DEG; RADIUS: SHORT; PRESSURE RATING: 16 BAR; WALL THICKNESS: 8 MM; 3.1 MATERIAL CERTIFICATE TO BE SUPPLIED WITH EVERY DELIVERY	m	3000		
12	400NB Flange	707201	FLANGE: TYPE: PIPE; DIMENSIONS: OD 580 X THK 35 MM; MATERIAL: MS; STYLE: LAPPED FACE; RATING: 16 BAR; SPECIFICATION: CLASS SABS 1123- 16000/3; PCD: 525 MM; NUMBER OF HOLES: 16; HOLE DIAMETER: 26 MM; DATA SHEET TO BE SUPPLIED WITH EVERY DELIVERY	m	3000		
13	Clamp 600 x 300NB	252951	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 323 MM; MATERIAL: SS; LENGTH: 500 MM; SUPPL P/N: TUC1- 0325; TWO BOLTS FOR TENSIONING; BORE 300MM; CLAMP RUBBER LINED: CLAMP RANGE 320 - 330MM	No	330		
14	Johnson Coupling 300 x 300 NB	231665	COUPLING: TYPE: JOHNSON; SIZE: DIA 323.9 X LG 300 MM; MATERIAL: STL; COUPLING RANGE: 315 - 328MM	No	6000		
15	Johnson Coupling 600 x 300NB	231664	COUPLING, PIPE: SIZE: ID 323.9 X WD 600 MM; MATERIAL: STL; SPECIFICATION: JOHNSON (VJ); COLOR CODING: GREEN; MEDIA FOR WHICH DESIGNED: ASH WATER; TYPE AQUALOCK COUPLINGS; FOR 300NB PIPE; SEAMLESS	No	1000		
16	Clamp 356- 366mm (GRP pipe)	554194	CLAMP, PIPE REPAIR: PIPE SIZE: 350 MM; MATERIAL: SS; PRESSURE RATING: 16 BAR; MANUF P/N: TUC1- 0361-40; WIDTH: 500MM/600MM; TWO BOLTS FOR TENSIONING; CLAMP RUBBER LINED WITH HIGH PRESSURE RUBBER NO: 2008/05746; RANGE: 356- 366MM	No	100		
17	U-Bolts	562731	BOLT, U: NOMINAL SIZE: 323.9 MM; DIAMETER: M16; LOAD RATING: 695 KG; INSIDE LENGTH: 380 MM; THREAD LENGTH: 80 MM; THREAD: 1.5 MM; MATERIAL: STL; INSIDE WIDTH: 353 MM- PIPE NOMINAL BORE IS 300MM	No	220		
18	Reducer 250- 200mm	563029	REDUCER, PIPE: TYPE: CONCENTRIC; NOMINAL SIZE: 200 X 250 MM; CONNECTION: NPT X FNPT; MATERIAL: CARBON STEEL; GRADE: SABS/SANS719; RATING: 16 BAR; SCHEDULE: 40; STRUCTURE: SEAMLESS; MEDIA FOR WHICH DESIGNED: ASH WATER	No	40		
19	Ash Pump Reducer 300- 250mm	563030	REDUCER, PIPE: TYPE: CONCENTRIC; NOMINAL SIZE: 300 X 250 MM; CONNECTION: NPT X FNPT; MATERIAL: CARBON STEEL; GRADE: SABS/SANS719; RATING: 16 BAR; SCHEDULE: 40; STRUCTURE: SEAMLESS; MEDIA FOR WHICH DESIGNED: ASH WATER	No	10		
20	Intermediate Pipe 90' Bend 250NB	528368	BEND, PIPE: MATERIAL: MILD STEEL; DEGREE: 90 DEG; SPECIFICATION: SABS 719; MEDIA FOR WHICH DESIGNED: WATER; 250NB; WALL THICKNESS 6MM; INSPECTION CERTIFICATE 3.2; CERTIFIED EN10204:2004	No	55		
21	Intermediate Pipe 45' Bend 250NB	528369	BEND, PIPE: MATERIAL: MILD STEEL; DEGREE: 45 DEG; SPECIFICATION: SABS 719; MEDIA FOR WHICH DESIGNED: WATER; 100NB; WALL THICKNESS 6MM; INSPECTION CERTIFICATE 3.2; CERTIFIED EN10204:2004	No	20		
22	Flange - PCD 350mm - 12 hole	629164	FLANGE: TYPE: LAPPED; DIMENSIONS: ID 275 X OD 405 MM; MATERIAL: STEEL; RATING: 16 BAR; PCD: 350 MM; NUMBER OF HOLES: 12; HOLE DIAMETER: 22 MM; TEST CERTIFICATE MUST BE SUPPLIED WITH EVERY DELIVERY	No	400		
23	Flange - PCD 360mm - 12 hole	635594	FLANGE: TYPE: LAPPED; DIMENSIONS: ID 275 X OD 405 X THK 15 MM; MATERIAL: STEEL; RATING: 0-16 BAR; PCD: 360 MM; NUMBER OF HOLES: 12; HOLE DIAMETER: 22 MM; TEST CERTIFICATE MUST BE SUPPLIED WITH EVERY DELIVERY	No	20		
24	Flange - PCD 360mm - 8 hole	636824	FLANGE: TYPE: LAPPED; DIMENSIONS: ID 275 X OD 405 MM; MATERIAL: STEEL; RATING: 16 BAR; PCD: 360 MM; NUMBER OF HOLES: 8; HOLE DIAMETER: 22 MM; TEST CERTIFICATE TO BE SUPPLIED WITH EVERY DELIVERY	No	16		
25	Flange - PCD 355mm - 8 hole	669955	FLANGE: TYPE: LAPPED; DIMENSIONS: ID 275 X OD 405 MM; MATERIAL: STEEL; STYLE: LAPPED FACE; RATING: 16 BAR; FLANGE PCD: 355 MM; NUMBER OF HOLES: 8; HOLE DIAMETER: 22 MM- MATERIAL CERTIFICATE TO BE SUPPLIED	No	20		
26	Flange - PCD 355mm - 12 hole	635594	FLANGE: TYPE: LAPPED; DIMENSIONS: ID 275 X OD 405 X THK 15 MM; MATERIAL: STEEL; RATING: 0-16 BAR; PCD: 360 MM; NUMBER OF HOLES: 12;HOLE DIAMETER: 22 MM; TEST CERTIFICATE MUST BE SUPPLIED WITH EVERY DELIVERY	No	400		
27	FLANGE: ID 116 X OD 220	685015	FLANGE: TYPE: LAPPED; DIMENSIONS: ID 116 X OD 220 MM; MATERIAL: CARBON STEEL; RATING: PN16; PCD: 180 MM; NUMBER OF HOLES: 8; HOLE DIAMETER: 18 MM; PRESSURE: 16 BAR- MATERIAL CERTIFICATE TO BE SUPPLIED	No	20		
28	80NB x 6m x 5.5mm Supply pipe	250438	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: ID 80 X OD 88.9 MM; MATERIAL: MS; LENGTH: 6 M; WALL THICKNESS: 5.5 MM; CONSTRUCTION: SEAMLESS; END TYPE: MACHINED; SCHEDULE: 40; SPECIFICATION: BS 3601-22; APL5L GR A- WEIGHT 11.3KG/M	No	80		
29	100NB x 6m x 6mm supply pipe	250434	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: ID 100 X OD 114.3 MM; MATERIAL: MS; LENGTH: 6 M; WALL THICKNESS: 6 MM; CONSTRUCTION: SEAMLESS; END TYPE: BEVELLED; SCHEDULE: 40; SPECIFICATION: BS 3601-22; API 5L GR A; SUPPLIER NOTE: ONLY WITH 3.2 MATERIAL CERTIFICATE WILL BE ACCEPTED	No	80		

**CAMDEN POWER STATION
THE SUPPLY AND DELIVERY OF PIPES**

30	Bend, 90° , 100NB	528366	BEND, PIPE: OUTSIDE DIAMETER: 108 MM; CONNECTION: NPT; MATERIAL: MILD STEEL; DEGREE: 90 DEG; RADIUS: LONG; SPECIFICATION: SABS 62; MEDIA FOR WHICH DESIGNED: WATER; 100NB; WALL THICKNESS 6MM; INSPECTION CERTIFICATE 3.2; CERTIFIED EN10204:2004	No	30		
31	FLANGE:ID 120 X OD 215 MM	623468	FLANGE: TYPE: LAPPED; DIMENSIONS: ID 120 X OD 215 MM; MATERIAL: STEEL; RATING: 16 BAR; FLANGE PCD: 180 MM; NUMBER OF HOLES: 4; HOLE DIAMETER: 18 MM	No	260		
32	Manifold Clamp 107 – 117mm	252952	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 112 MM; MATERIAL: SS; LENGTH: 200 MM; SUPPL P/N: TUC1- 0112; TWO BOLTS FOR TENSIONING; BORE 100MM; CLAMP RUBBER LINED; CLAMP RANGE 107 -117MM	No	50		
33	Bend 90° Elbow SS - 90mm	528363	ELBOW: SIZE: 90 MM; CONNECTION: FLANGE; MATERIAL: SS; DEGREE: 90 DEG; INSPECTION CERTIFICATE 3.2; CERTIFIED EN10204:2004	No	50		
34	Bend 45° Elbow	528365	BEND, PIPE: OUTSIDE DIAMETER: 86 MM; CONNECTION: FNPT; MATERIAL: MILD STEEL; DEGREE: 45; RADIUS: LONG; SPECIFICATION: SABS 62; MEDIA FOR WHICH DESIGNED: WATER; 80NB; WALL THICKNESS 6MM; INSPECTION CERTIFICATE 3.2; CERTIFIED EN10204:2004	No	50		
35	2" SS 90° Bend	61712	BEND, PIPE: OUTSIDE DIAMETER: 86 MM; CONNECTION: FNPT; MATERIAL: MILD STEEL; DEGREE: 45; RADIUS: LONG; SPECIFICATION: SABS 62; MEDIA FOR WHICH DESIGNED: WATER; 80NB; WALL THICKNESS 6MM; INSPECTION CERTIFICATE 3.2; CERTIFIED EN10204:2004	No	20		
36	Threaded bar 12mm x 1m	85234	ROD, THREADED: DIAMETER: 12 MM; THREAD: 1.75 MM; LENGTH: 1 M; MATERIAL: MS; FULL THREAD	No	4000		
37	Threaded Bar 16mm x 1m	85235	ROD, THREADED: DIAMETER: 16 MM; LENGTH: 1 M; MATERIAL: MS; FULL	No	300		
38	Threaded Bar 20mm x 1m	85236	ROD, THREADED: DIAMETER: 20 MM; LENGTH: 1 M; MATERIAL: MS; FULL	No	400		
39	Threaded Bar 30mm x 1m	238640	ROD, THREADED: DIAMETER: 30 MM; THREAD: 3.5 MM; LENGTH: 1 M; MATERIAL: HTS	No	180		
40	Threaded Bar 36mm x 1m	254770	ROD, THREADED: DIAMETER: 36 MM; LENGTH: 1 M; MATERIAL: MS	No	300		
41	Plate 10mm	583807	PLATE, METAL: DIMENSIONS: WD 1.2M X LG 3M X THK 10MM; MATERIAL: GR430A; WEIGHT: 2826 KG; PROCESS: HOT ROLLED; SPECIFICATION: BS 1501-161; GRADE: 430A; CERTIFICATE 3.1 WILL BE REQUIRED ON EVERY DELIVERY; NO MATERIAL WILL BE ACCEPTED WITHOUT THE CERTIFICATE	No	30		
42	Plate 20mm	298167	PLATE, METAL: DIMENSIONS: WD 1.2 M X LG 2.5 M X THK 20 MM; MATERIAL: MILD STEEL GRADE: S355JA	No	8		
43	Plate 30mm	596610	PLATE, METAL: DIMENSIONS: WD 1.2 M X LG 2.5 M X THK 30 MM; MATERIAL: MILD STEEL; WEIGHT: 706.77 KG; GRADE: S355JA	No	8		
44	Plate 40mm	596611	PLATE, METAL: DIMENSIONS: WD 1.2 M X LG 2.5 M X THK 40 MM; MATERIAL: MILD STEEL; WEIGHT: 942.36 KG; GRADE: S355JA	No	3		
45	Plate 50mm	595471	PLATE, METAL: DIMENSIONS: WD 2.5 M X LG 1.2 M X THK 50 MM; MATERIAL: MILD STEEL; WEIGHT: 1.178 T; GRADE: 350WA; STELL PLATE FOR ASH PUMP BASE	No	3		
46	Lay flat - 20 Bar	604183	PIPE, NON METALLIC: NOMINAL PIPE SIZE DESIGNATION: 150 MM; MATERIAL: RUBBER; LENGTH: 100 M; WALL THICKNESS: 3 MM; MAXIMUM OPERATING TEMP: 40 DEG C; MAXIMUM OPERATING PRESSURE: 20 BAR; EXTERIOR COLOUR: BLACK	No	2000		
47	Flexible Pipe Clamp	593070	CLAMP, HOSE: TYPE: CLIP; INSIDE DIAMETER: 150 MM; WIDTH: 30 MM; MATERIAL: STL; FASTENING DEVICE TYPE: BOLT/NUT; CLAMP SIZE SHOULD BE IN A RANGE: 154 TO 168MM	No	140		
48	Lifting Liner	39068	LINER: TYPE: LIFTING; DIMENSIONS: DIA 570 MM X LG 1.175 M; MATERIAL: CI; SUPPL P/N: R33198; ID: 750 MM; LENGTH 1: 1175 MM; LENGTH 2: 900 MM; HEIGHT: 970 MM; THK: 23 MM; LINER MUST HAVE 4 TAPPED HOLES ON TOP FOR FASTENING THE SPINDLE PLATE	No	8		
49	AWR Barge Suction Pipe	605469	PIPE, ASSEMBLY: CONNECTION: FLANGE; DIMENSIONS: DIA 250 MM; MATERIAL: GLASS REINFORCED PLASTIC; 250NB GRP OFF SET SUCTION PIPE; COMPLETE WITH CARRYING COLLAR; SUCTION TO SUPPORT FLANGE FACE TO CENTRE: 787 MM; SUPPORT FLANGE TO BOTTOM FLANGE: 928 MM; SUCTION FLANGE PCD: 355 MM; HOLE DIAMETER: 20 MM; NUMBER OF HOLES: 12; THK: 50 MM; OD: 396 MM; SPECIFICATION: BS 10 TABLE E; CARRYING COLLAR SUPPORT FLANGE OUTSIDE DIAMETER: 764 MM; THK: 30; NUMBER OF HOLES: 4; HOLE DIAMETER: 19 MM; HOLES ARE 525 MM AND 310 MM APART; 4 BRACES TO SUPPORT COLLAR; AWR BARGE PUMP SUCTION PIPE	No	2		
50	AWR Barge Discharge First 90° Bend	605479	PIPE BEND, NON METALLIC: DIAMETER: 250 MM; CONNECTION: FLANGE; MATERIAL: GLASS REINFORCED PLASTIC; DEGREE: 90 DEG; GRP 250NB - 200NB REDUCTION FLANGE 90 DEG BEND; FACE TO CENTRE VERTICAL: 585 MM; HORIZONTAL: 411 MM; COMPLETE WITH FLOATING FLANGE ON 200NB; MATERIAL: SS; THK: 15 MM; NUMBER OF HOLES: 8; HOLE DIAMETER: 22 MM; PCD: 297 MM; OD: 343 MM; FIXED FLANGE 250NB PCD: 355 MM; NUMBER OF HOLES: 12; HOLE DIAMETER: 22 MM; SPECIFICATION: BS 10 TABLE E; COMPLETE WITH TAPPING POINT ON TOP; FACE TO CENTRE HORIZONTAL: 300 MM; TAPPING POINT OD: 72 MM; ID: 30 MM; LG: 200 MM; FLANGE OD: 102 MM; THK: 40 MM WITH FLOATING FLANGE; FLOATING FLANGE PCD: 125 MM; OD: 160 MM;	No	2		
51	AWR Barge Distance Piece	605421	PIPE, NON METALLIC: NOMINAL PIPE SIZE DESIGNATION: 250 MM; MATERIAL: GLASS REINFORCED PLASTIC; LENGTH: 290 MM; WALL THICKNESS: 40 MM; RATING: 16 BAR; MAXIMUM OPERATING PRESSURE: 16 BAR; PIPE MUST BE COMPLETED WITH TWO FLANGES; FACE TO FACE: 290 MM; PCD: 355 MM; NUMBER OF HOLES: 12; HOLE DIAMETER: 22 MM; SPECIFICATION: BS 10 TABLE E- AWR BARGE PUMP DISTANCE PIECE	No	2		
52	AWR Barge Discharge Second 90° Bend	605468	PIPE BEND, NON METALLIC: DIAMETER: 250 MM; CONNECTION: FLANGE; MATERIAL: GLASS REINFORCED PLASTIC; DEGREE: 90 DEG; GRP 250NB 90 DEG BEND; FACE TO CENTRE VERTICAL: 610 MM; HORIZONTAL: 605 MM; COMPLETE WITH FLANGES; THK: 50 MM; PCD: 355; NUMBER OF HOLES: 12; HOLE DIAMETER: 22 MM; SPECIFICATION: BS 10 TABLE E; COMPLETE WITH TAPPING POINT ON SIDE; TAPPING SIDE FACE TO CENTRE VERTICAL: 406 MM; HORIZONTAL: 300 MM; TAPPING POINT OD: 50 MM; ID: 25 MM; LG: 130 MM; FLANGE THICKNESS: 17 MM; FLANGE OD WITH FLOATING FLANGE: 63 MM; FLOATING FLANGE OVER TAPPING POINT; MATERIAL: SS; PCD: 85 MM; NUMBER OF HOLES: 4; HOLE DIAMETER: 14 MM; THK: 10 MM; AWR BARGE PUMP SECOND 90 BEND	No	4		
53	600NB x 6 m Rubber pipe	585538	HOSE, NON METALLIC: INSIDE DIAMETER: 600 MM; LENGTH: 6 M; CONNECTION: FLANGE; MATERIAL: RUBBER SYNTHETIC BRAIDED; MAXIMUM OPERATING PRESSURE: 700 KPA; TYPE: AWR; EXTERIOR COLOR: BLACK; MEDIA FOR WHICH DESIGNED: PULP AND SLURRY; MANUF P/N: CFX- 6010/6; LINER: HIGH WET ABRASION RESISTANT NATURAL RUBBER COMPOUND; COVER: NR/SBR BLEND COMPOUND ABRASION WEATHER OZONE RESISTANT; REINFORCEMENT: HIGH STRAIN WIRE HELIX EMBEDDED IN PLIES OF HIGH STRENGTH STEEL TYRE CORD; FLANGE: ROTATING ON D- RING; AWR BARGE MANIFOLDS INTERCONNECTOR; TABLE 1000/3 FLANGES; INCLUDE STORAGE REQUIREMENTS ON DATA PACK; PROVIDE MATERIAL DATA SHEET ON EVERY DELIVERY	No	18		
54	600NB x 4 m Rubber pipe	-	HOSE, NON METALLIC: INSIDE DIAMETER: 600 MM; LENGTH: 4 M; CONNECTION: FLANGE; MATERIAL: RUBBER SYNTHETIC BRAIDED; MAXIMUM OPERATING PRESSURE: 700 KPA; TYPE: AWR; EXTERIOR COLOR: BLACK; MEDIA FOR WHICH DESIGNED: PULP AND SLURRY; MANUF P/N: CFX- 6010/6; LINER: HIGH WET ABRASION RESISTANT NATURAL RUBBER COMPOUND; COVER: NR/SBR BLEND COMPOUND ABRASION WEATHER OZONE RESISTANT; REINFORCEMENT: HIGH STRAIN WIRE HELIX EMBEDDED IN PLIES OF HIGH STRENGTH STEEL TYRE CORD; FLANGE: ROTATING ON D- RING; AWR BARGE MANIFOLDS INTERCONNECTOR; TABLE 1000/3 FLANGES; INCLUDE STORAGE REQUIREMENTS ON DATA PACK; PROVIDE MATERIAL DATA SHEET ON EVERY DELIVERY	No	2		

CAMDEN POWER STATION
THE SUPPLY AND DELIVERY OF PIPES

55	600NB 70' HDPE Pipe Bend	647835	PIPE BEND, NON METALLIC: DIAMETER: 600 MM; CONNECTION: FLANGE; MATERIAL: HDPE; DEGREE: 70 DEG; RADIUS: SHORT; FLANGE OD: 790 MM; NUMBER OF HOLE: 20; HOLE DIAMETER: M24; PCD: 730 MM; THICKNESS: 43 MM; ROTATING FLANGE	No	2		
56	Coupling 150 ~165mm	248376	COUPLING, PIPE: SIZE: 165-150 MM; CONNECTION: COMPRESSION; MATERIAL: MS	No	50		
57	Coupling 159 ~182mm	625034	COUPLING, PIPE: SIZE: 159-182 MM; CONNECTION: SLIP ON; MATERIAL: STL/UPVC; RATING: 16 BAR; MEDIA FOR WHICH DESIGNED: WATER	No	100		
58	Coupling 230 ~247mm	625377	COUPLING, PIPE: SIZE: 230-247 MM; CONNECTION: SLIP ON; MATERIAL: STL/UPVC; RATING: 16 BAR; MEDIA FOR WHICH DESIGNED: WATER	No	40		
59	Coupling 250 ~267mm	629165	COUPLING, PIPE: SIZE: 265-250 MM; CONNECTION: SLIP ON; MATERIAL: STL/UPVC; RATING: 16 BAR; COLOR CODING: RED; MEDIA FOR WHICH DESIGNED: WATER	No	40		
60	Flat Bar 25mm x 6mm x 6m	557417	BAR, FLAT: WIDTH: 25 MM; LENGTH: 6 M; THICKNESS: 6 MM; MATERIAL: MS	No	100		
61	Flat Bar 40mm x 6mm x 6m	17081	BAR, FLAT: WIDTH: 40 MM; LENGTH: 6 M; THICKNESS: 6 MM; MATERIAL: MS BS 4360; PROCESS: HOT ROLLED; GRADE: 43A; WEIGHT: 1.88 KG/M	Kg	700		
62	Flat Bar 50mm x 6mm x 6m	17082	BAR, FLAT: WIDTH: 50 MM; LENGTH: 6 M; THICKNESS: 6 MM; MATERIAL: MS BS 4360; PROCESS: HOT ROLLED; GRADE: EN43A; WEIGHT: 2.36 KG/M; 14.16 KG/LENGTH	Kg	15000		
63	CW Screen – Frame	623469	FRAME: TYPE: STRAINER SCREEN; SIZE: WD 2.06 M X LG 3.5 M X THK 45 MM MM; MATERIAL: STL GALV;	No	70		
	OTHER SPARES						
64	Ranger coupling 150-165	248376	COUPLING, PIPE: SIZE: 165-150 MM; CONNECTION: COMPRESSION; MATERIAL: MS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE)	No	30		
65	Ranger coupling 109-128	585942	COUPLING, PIPE: SIZE: 109-128 MM; CONNECTION: BW; MATERIAL: CI; SPECIFICATION: KLAMFLEX RANGER; STYLE: STRAIGHT; COLOR CODING: RED; MEDIA FOR WHICH DESIGNED: SULPHURIC ACID; PRIMER COATED	No	6		
66	Ranger coupling 250-267	588425	COUPLING, PIPE: SIZE: 250-267 MM; CONNECTION: BOLTED; MATERIAL: CI; SPECIFICATION: AWWA C219-01; STYLE: KLAMFLEX RANGER END CAP; COLOR CODING: BLUE; MEDIA FOR WHICH DESIGNED: POTABLE WATER; APPLICATION: FIRE, OIL SKIMMING PLANT; PRIMER CAP: 250NB; PART NO: 044273	No	8		
67	Ranger coupling 159-182	248396	COUPLING, PIPE: SIZE: 150 MM; CONNECTION: CLAMP; MATERIAL: CI; OD RANGE 159-182 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE)	No	8		
68	Johnson coupling 220-235	248377	COUPLING, PIPE: SIZE: 235-220 MM; CONNECTION: COMPRESSION; MATERIAL: MS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE)	No	4		
69	Fenner Flex couplings F70, Flange	48211	FLANGE: TYPE: FLEXIBLE BUSHED; DIMENSIONS: ID 58 MM; MATERIAL: STL; FENNAFLEX, COMPLETE, ITEM MUST BE ORIGINAL PACKED; REFERENCE NO: F70H	No	6		
70	Fenner Flex couplings F70, Rubber	18138	INSERT, FLEXIBLE COUPLING: TYPE: TIRE; SIZE: ID 110 X OD 180 X THK 75 MM; MATERIAL: RUBBER; PART NO: F70	No	6		
71	Fenner Flex couplings F80	237352	COUPLING, SHAFT FLEXIBLE: TYPE: TIRE; BORE DIAMETER: 44.5-42 MM; MATERIAL: RUBBER/STL, 211 MM OUTSIDE DIAMETER; 107 MM LENGTH, WITH A TAPER LOCK, KEY WAY: 12.6 MM WD X 3.2 MM DP; H2 CW BOOSTER PUMP; A3; SERIAL NO: SAS/A80/175, SUPPLIER: JOHN CRANE POWER STREAM	No	4		
72	Plascon coupling PVC 110mm	528989	COUPLING, SHAFT FLEXIBLE: TYPE: TIRE; BORE DIAMETER: 44.5-42 MM; MATERIAL: RUBBER/STL, 211 MM OUTSIDE DIAMETER; 107 MM LENGTH, WITH A TAPER LOCK, KEY WAY: 12.6 MM WD X 3.2 MM DP; H2 CW BOOSTER PUMP; A3; SERIAL NO: SAS/A80/175, SUPPLIER: JOHN CRANE POWER STREAM	No	12		
73	Galvanised 100mm	243238	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 100 MM; MATERIAL: STL GALV; LENGTH: 6 M; END TYPE: FLANGE 4 HOLES	No	15		
74	Galvanised 150mm	243239	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 150 MM; MATERIAL: STL GALV; LENGTH: 6 M; END TYPE: FLANGE 6 HOLES	No	2		
75	Galvanised 200mm	243237	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 200 MM; MATERIAL: STL GALV; LENGTH: 6 M; END TYPE: FLANGE (8) HOLES	No	100		
76	Galvanised 212mm	528362	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 212 MM; MATERIAL: GALV STL; LENGTH: 9 M; WALL THICKNESS: 8 MM; END TYPE: FLANGE; PCD 295MM; HOLE 8; DISTANCE BETWEEN HOLES 115MM; BOLT SIZE M16X90MM	No	20		
77	PVC 110 mm	528514	PIPE, NON METALLIC: NOMINAL PIPE SIZE DESIGNATION: 97 MM; MATERIAL: PVC (HDPE); LENGTH: 50 MM; WALL THICKNESS: 16.5 MM; TYPE: AQUA FLOW; REFERENCE NO: PE100; CLASS 10: CERTIFICATION: ISO9001, ISO14001	No	7		
78	Lay-flats pipes NB 80 (100M)	590162	PIPE, NON METALLIC: MATERIAL: RUBBER; NOMINAL PIPE SIZE DESIGNATION: 80 MM; WALL THICKNESS: 1.5 MM; MAXIMUM OPERATING PRESSURE: 400 KPA; CONSTRUCTION: LAY FLAT; LENGTH: 40 M; RE-CIRCULATING PUMP 3 DISCHARGE PIPE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER .	No	80		
79	Lay-flats pipes NB 150 (100M)	248371	HOSE, NON METALLIC: INSIDE DIAMETER: 150 MM; LENGTH: 100 M; MAXIMUM OPERATING PRESSURE: 12 BAR; TYPE: LAY FLAT; EXTERIOR COLOR: BLUE	No	7		
80	Stainless steel pipe 81mm	528988	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 110 MM; MATERIAL: SS; LENGTH: 6 M; WALL THICKNESS: 3 MM; CONSTRUCTION: STRAIGHT; END TYPE: BW; MAXIMUM OPERATING PRESSURE: 100 KPA; APPLICATION: SULPHURIC ACID	No	2		
81	Stainless steel pipe 110mm	585944	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 110 MM; MATERIAL: SS; LENGTH: 6 M; WALL THICKNESS: 3 MM; CONSTRUCTION: STRAIGHT; END TYPE: BW; MAXIMUM OPERATING PRESSURE: 100 KPA; APPLICATION: SULPHURIC ACID	No	8		
82	Pipes, 125mm	661373	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 10 MM; MATERIAL: CARBON STEEL BS 1501 224 490A; LENGTH: 6 M; WALL THICKNESS: 5 MM; END TYPE: FLANGE	No	15		
83	Pipes, 75mm	661371	PIPE, NON METALLIC: NOMINAL PIPE SIZE DESIGNATION: 110 MM; MATERIAL: HDPE; LENGTH: 30 M; WALL THICKNESS: 3 MM	No	15		
84	pipes, 50mm	661366	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 50 MM; MATERIAL: CARBON STEEL BS1501 224 490A; LENGTH: 6 M; WALL THICKNESS: 5 MM	No	4		
85	Coupling, pipe, 75mm	605956	COUPLING, PIPE: SIZE: 75 MM; CONNECTION: COMPRESSION; MATERIAL: STL; RATING: 16 BAR; MEDIA FOR WHICH DESIGNED: WATER; RANGE: 72-85 MM	No	6		
86	Flexible pipe clamps	593070	CLAMP, HOSE: TYPE: CLIP; INSIDE DIAMETER: 150 MM; WIDTH: 30 MM; MATERIAL: STL; FASTENING DEVICE TYPE: BOLT/NUT; CLAMP SIZE SHOULD BE IN A RANGE: 154 TO 168MM	No	20		
87	Clamps, hose, 76-51mm	61872	CLAMP, HOSE: INSIDE DIAMETER: 76-51 MM; MATERIAL: SS; FASTENING DEVICE TYPE: WORM DRIVE; PART NO: GS40	No	20		
88	Clamp 180 mm	612127	CLAMP, TUBE: TYPE: RUBBER LINED; COMMERCIAL SIZE: 180 MM; MATERIAL: SS; APPLICATION: FIBRE CEMENT PIPES; LENGTH: 300 MM; RANGE: 180-184 MM; PART NO: TUC1-0184	No	3		

CAMDEN POWER STATION
THE SUPPLY AND DELIVERY OF PIPES

89	Clamp 188 mm	612128	CLAMP, TUBE. TYPE: RUBBER LINED; COMMERCIAL SIZE: 188 MM; MATERIAL: SS; APPLICATION: FIBRE CEMENT PIPES; LENGTH: 300 MM; RANGE: 188- 194 MM; PART NO: TUC1-0193	No	3		
90	Coupling 2'	257012	CLAMP, HOLDING: CLAMP MATERIAL: STL GALV; TAP SIZE: 2 IN; APPLICATION SPLIT COUPLING CW EPDM & GASKET	No	10		
91	Coupling 3'	257016	CLAMP, HOLDING: CLAMP MATERIAL: STL GALV; TAP SIZE: 3 IN; APPLICATION SPLIT COUPLING CW EPDM & GASKET	No	10		
92	Coupling, clamp, 63mm	579104	COUPLING, PIPE: SIZE: 50 MM; CONNECTION: CLAMP ON; MATERIAL: DI; STYLE: SHOULDERED; MEDIA FOR WHICH DESIGNED: WATER; PIPE OD: 60.3MM; BOLT SIZE: M10X55	No	6		
93	Coupling, pipe, 114mm, ring, rubber	235300	COUPLING, PIPE: SIZE: 114 MM; CONNECTION: RING; MATERIAL: RUBBER; BLSA RYC 4 IN, GR, LP AND SP, R AND F SERIES	No	10		
94	Coupling, pipe, 165mm, ring, rubber	235301	COUPLING, PIPE: SIZE: 165 MM; CONNECTION: RING; MATERIAL: RUBBER; BLSA RYC, GR, LP AND SP R AND F SERIES; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE)	No	10		
95	Coupling, pipe, 89mm, ring, rubber	235298	COUPLING, PIPE: SIZE: 89 MM; CONNECTION: RING; MATERIAL: RUBBER; BLSA RYC GR, LP AND SP, R AND F SERIES	No	10		
96	Coupling, pipe, 218mm, ring, rubber	235299	COUPLING, PIPE: SIZE: 219 MM; CONNECTION: RING; MATERIAL: RUBBER; BLSA RYC 8 IN, GR, LP AND SP, R AND F SERIES	No	10		
97	Pipe, MTLC: 323.8mm, MS, LG 9.144m, 324 OD	55810	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 323.9 MM; MATERIAL: MS; LENGTH: 12 M; WALL THICKNESS: 8 MM; CONSTRUCTION: SEAMLESS; END TYPE: FLANGE; MAXIMUM OPERATING PRESSURE: 16 BAR; SCHEDULE: 30; MAXIMUM OPERATING TEMP: 23 DEG C; SPECIFICATION: BS 4504-T10; APPLICATION: ASH PLANT; PIPE OD 324MM	No	660		
98	Pipe 25 mm	250927	PIPE, METALLIC: MATERIAL: GS; NOMINAL PIPE SIZE DESIGNATION: 25 MM; END TYPE: PLAIN; LENGTH: 6 M; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE)	No	6		
99	Pipe 15 mm	250928	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 15 MM; MATERIAL: STL GALV; LENGTH: 6 M; END TYPE: PLAIN	No	6		
100	Pipe 50 mm	250929	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 50 MM; MATERIAL: STL GALV; LENGTH: 6 M; END TYPE: PLAIN	No	6		
101	PVC coupling, 50mm	579344	COUPLING, PIPE: SIZE: 50 MM; CONNECTION: COMPRESSION; MATERIAL: PVC; MEDIA FOR WHICH DESIGNED: WATER; COUPLING LENGTH: 201MM	No	8		
102	PVC coupling, 63mm	579342	COUPLING, PIPE: SIZE: 63 MM; CONNECTION: COMPRESSION; MATERIAL: PVC; MEDIA FOR WHICH DESIGNED: WATER; APPLICATION: WATER TREATMENT PLANT; COUPLING LENGTH: 230MM	No	8		
103	PVC coupling, 90mm	579341	COUPLING, PIPE: SIZE: 90 MM; CONNECTION: COMPRESSION; MATERIAL: PVC; MEDIA FOR WHICH DESIGNED: WATER; COUPLING LENGTH: 323MM	No	8		
104	PVC coupling, 100mm	579343	COUPLING, PIPE: SIZE: 100-114 MM; CONNECTION: COMPRESSION; MATERIAL: MS; COLOR CODING: ORANGE; MEDIA FOR WHICH DESIGNED: WATER; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE)	No	16		
105	PIPE,MTLC:TUC1-0097;ID 80 X OD 92 MM;SS	252877	PIPE, METALLIC: MATERIAL: SS; NOMINAL PIPE SIZE DESIGNATION: ID 80 X OD 92 MM; LENGTH: 150 MM; TWO BOLTS FOR TENSIONING; CLAMP RUBBER LINER; CLAMP RANGE 92 - 102 MM; PART NO: TUC1-0097, SUPPLIER: UNKNOWN; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE)	No	8		
106	PIPE,MTLC:TUC1- 0112;112 MM;SS;LG 200 MM	252952	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 112 MM; MATERIAL: SS; LENGTH: 200 MM; TWO BOLTS FOR TENSIONING; BORE 100MM; CLAMP RUBBER LINED; CLAMP RANGE 107 - 117MM; PART NO: TUC1-0112	No	10		
107	PIPE,MTLC:TUC1- 0163;168 MM;SS;LG 200 MM	252948	PIPE, METALLIC: MATERIAL: SS; NOMINAL PIPE SIZE DESIGNATION: 168 MM; LENGTH: 200 MM; TWO BOLTS FOR TENSIONING; BORE 150MM; CLAMP RUBBER LINED; CLAMP RANGE 158 - 168MM; PART NO: TUC1-0163, SUPPLIER: UNKNOWN; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE)	No	10		
108	PIPE,MTLC:TUC1- 0223;218 MM;SS;LG 300 MM	252949	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 218 MM; MATERIAL: SS; LENGTH: 300 MM; TWO BOLTS FOR TENSIONING; BORE 200MM; CLAMP RUBBER LINED; CLAMP RANGE 218 - 228MM; PART NO: TUC1-0223	No	50		
109	PIPE,MTLC:TUC1- 0276;270 MM;SS;LG 300 MM	252950	PIPE, METALLIC: MATERIAL: SS; NOMINAL PIPE SIZE DESIGNATION: 270 MM; LENGTH: 300 MM; TWO BOLTS FOR TENSIONING; BORE 250MM; CLAMP RUBBER LINED; CLAMP RANGE 271 - 281MM; PART NO: TUC1-0276, SUPPLIER: UNKNOWN; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE)	No	8		
110	PIPE,MTLC:TUC1- 0325;323 MM;SS;LG 500 MM	252951	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 323 MM; MATERIAL: SS; LENGTH: 500 MM; TWO BOLTS FOR TENSIONING; BORE 300MM; CLAMP RUBBER LINED; CLAMP RANGE 320 - 330MM; PART NO: TUC1-0325	No	20		
111	Flanges, pipe, 225mm	554699	FLANGE: TYPE: SLIP ON; DIMENSIONS: DIA 9 IN; MATERIAL: SS; STYLE: DRILLED TO SUIT 2IN PIPE; RATING: BS 10 - TABLE D; GRADE: 316L; SPECIFICATION: BLIND; INSPECTION CERTIFICATE 3.2; CERTIFIED EN10204:2004- BS10-TABLE D	No	20		
112	Flanges, pipe, 100mm	528996	FLANGE: TYPE: MOUNTING; DIMENSIONS: ID 100 X OD 185 X THK 8 MM; MATERIAL: SS GR 316; HOLE: 4; HOLE DIA: M16; DISTANCE BETWEEN TWO HOLES: 105MM; PCD: 145MM	No	20		
113	Flanges, pipe, 125mm	528997	FLANGE: TYPE: MOUNTING; DIMENSIONS: ID 142 X OD 250 X THK 15 MM; MATERIAL: SS GR 316; HOLE: 8; HOLE DIA: M16; DISTANCE BETWEEN TWO HOLES: 80MM; PCD: 210MM	No	20		
114	Flanges, pipe, 150mm	528995	FLANGE: DIMENSIONS: ID 170 X OD 280 X THK 15 MM; MATERIAL: SS GR 316; HOLE: 8; HOLE DIA: M16; DISTANCE BETWEEN TWO HOLES: 90MM; PCD: 235MM	No	20		

TOTAL: