	M	VATER SEWERAGE PRODU	стя
No.	Products	Standard Number	Standard Title
	Chemical for Water Treatment		
	Imported Chemicals for Water Treatment: Chlorine Dioxide	BS EN 12671-2009	Chemical used for treatment of water intended for human consumption - Chlorine Dioxide generated in situ
1	Conveyance of Water Coupling	IACS Requirements concerning Pipes	s and Pressure Vessels
2	Ductile Iron (DI) Ferrous Saddle Ductile Iron (DI) material	P2 Rules for piping design, constr JKR 20200-0184-04	ruction and testing JKR Standard Specification for Ferrous Saddle
3	Mechanical Joint Compression Fittings	SIRIM 11:2017	Specification for Thermoplastic Mechanical Fittings for
4	Stainless Steel (SS) Press Fittings	SAS 322:2003	pressure piping systems Pipe coupling performance standards for Stainless Steel
5	Strainer	Speifikasi JKR 20200-0100-01	pipes for general piping JKR Specification for Ductile Iron Y and T Strainers
	Ductile Iron (DI) DN600 & above Flow Controls		
1	Centrifugal Pump End Suction Multistage Self-Priming Split Casing Submersible	ISO 9906:2012	Rotodynamic pumps - Hydraulic performance acceptance tests - Grades 1B, 1E, 1U and 2B
		ANSI/HI 14.6:2011	Rotodynamic pumps for hydraulic performance acceptance tests - Grades 1B, 1E, 1U and 2B
2	Constant Flow Controllers	ATS 5200.037.1-2006	Technical specification for plumbing and drainage products flow controllers. - For controlling flows in cold or heated water systems
3	Knife Gate Valve Ductile Iron (DI)	MSS SP-81-2013	Stainless-Steel or Stainless-Steel-Lined, bonnetless, knife gate valve with flanged ends
		MSS SP-81-2000	Stainless-Steel, bonnetless, flanged knife gate valve
4	Pilot Control Valve	AWWA C530-12	Pilot-operated control valves
5	Thermoplastic Stopvalves	BS EN 1213:2000 (Excluding Clause 6.2) SIRIM 9:2017	Thermoplastic Stopvalves for Potable Water Supply in Buildings Thermoplastic Stopvalves for Potable Water Supply in Buildings
6	Water Hammer Arresters	Standard PDI-WH 201 (Revise 2010)	
7	Valves for Waterworks. Beyond the range of diameter specified in the standard	Directive 2014/68/EU BS EN 12266-1:2012	Pressure Equipment Directive Industrial valves
	Air Valve Butterfly Valve Check Valve Gate Valve	BS EN 12200-1.2012	Testing of metallic valves. Pressure tests, test procedures and acceptance criteria.
		BS EN 12266-1:2003	Industrial valves Testing of valves Part 1: Pressure tests, test procedures and acceptance criteria
	nstrumentation and Control		
1	Motorised Actuator Electric operated Quarter-turn Multi-turn Battery operated Quarter-turn Multi-turn	BS EN 15714-2:2009	Industrial valves - Actuators Part 2: Electric actuators for industrial valves Basic requirements & IEC 60529 / EN 60529
			Degrees of protection provided by enclosures (IP Code)
	Linning/Coating/Sealant/Adhesive/Solvent Cement		
1	Lining Coating Waterproofing Sealant Adhesive Solvent Cement	AS/NZS 4020:2005	Testing of products for use in contact with drinking water.
		BS 6920-1:2014	Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water. Specification
		BS 6920 1:2000	Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water. Specification.
		SS 375-1:2015	Specification for suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water. Part 1: Specification

		SS 375-1:2001	Specification for suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the
		MS 1583: Part 1:2003	water. Part 1: Specification
			Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water. Part 1: Specification
ľ	Measuring Device		
1	Electromagnetic Flowmeter (Custody Transfer Meter)	Directive 2014/32/EU Measurement Directive 2004/22/EC Measurement OIML R49-1:2013 OIML R49-1:2006	
1	New Innovative Product	01012 143-1.2000	
1	New Innovative System / Product for Treatment of Water, Storage of Water or Conveyance of Water	Assessment for performance efficiency is made through a pilot project. (please refer to procedures to carry out a pilot project for water supply system)	
	storage of Water Cylindrical Double Fold System Tank	BS 5950-1:2000	Structural use of steelwork in building Part 1: Code of practice for design Rolled and welded section
2	Corrugated Steel Panel with Polyethylene-Lined Water Storage Tank	BS 1449-1.1:1991	Steel plate, sheet & strip. carbon and carbon- manganese shee and strip
		SS 245:2014 (Cl. 10.2.1 & Cl. 10.2.2)	Specification for glass reinforced polyester sectional water tanks
		SS 245:1995 (Cl. 10.2.1 & Cl. 10.2.2)	Specification for Glass Reinforced Polyester Sectional Water Tanks
	Vater Treatment Equipment		
1	Disinfection System Ozone		ciency is made through a pilot project. out a pilot project for water supply system)
2	Disinfection System Ultraviolet (UV)	ONORM M5873-1:2001 DVGW W294:2006 NWRI UV Disinfection Guidelines	
3	Electro Chlorination Brine Solution Sea Water	Assessment for performance efficiency is made through a pilot project. (please refer to procedures to carry out a pilot project for water supply system)	
	Membrane Filtration Ceramic Micro-filtration Nano-filtration Ultra-filtration Reverse Osmosis VPMF		ciency is made through a pilot project. out a pilot project for water supply system)
5	Metering Pumps Diaphragm pumps	ANSI/ HI 7.6-2012	Controlled Volume Metering Pumps for Test
	Piston pumps Peristaltic pumps	GB/T 7782-2008	Metering Pumps
	Vater Treatment System	Annual for and	
1	Compact Plant Conventional Dissolved Air Flotation (DAF)	Assessment for performance efficiency is made through a pilot project. (please refer to procedures to carry out a pilot project for water supply system)	
2	Package Plant Dissolved Air Flotation (DAF) KS Filter Lamella Settler Revo Filter	Assessment for performance efficiency is made through a pilot project. (please refer to procedures to carry out a pilot project for water supply system)	
	Package Plant with Membrane Filtration System	(please refer to procedu	ormance efficiency is made through a pilot project. res to carry out a pilot project for water supply system)
	Package Plant with Bio-Green Filtration System		ormance efficiency is made through a pilot project. res to carry out a pilot project for water supply system)
	Diffused Aerator Aspirating Aerator Ejector	BS EN 12255-15	Wastewater treatment plants. Measurement of the oxygen
	Submersible Aerator		transfer in clean water in aeration tanks of activated sludge plants.
1 b)	Mechanical Aerator Brush Aerator Hydrojet Aerator Surface Aerator Paddle Wheel Aerator	ASCE/EWRI 2-06	Measurement of oxygen transfer in clean water (Note: Standards for material is subject to manufacturer recommendations)
1 c)	Diffuser	CJ/T 264-2007	Membrane fine bubble diffuser for water & wastewater treatment
	Disc Tube/Pipe Panel	HJ/T 252-2006	Specification for environmental protection product middle and fine bubble diffuser
		CJ/T 475-2015	Micropore Aerator Clean Water Oxygen Mass Transfer Performance Measurement
	Air Supply Air Blower & Air Compressor	For blowing application	Displacement Compressors -Acceptance tests

	1	DC ICO 4247-2000	Disalanament Compression Accortance toots	
		BS ISO 1217:2009	Displacement Compressors -Acceptance tests	
		KS B 6350:2014	Testing Method for Turbo Compressor.	
		JB/T 8941.2-1999	(Roots Type Blowers for General Purpose) Part 2: Performance test methods.	
		ASME PTC 10-1997	Performance Test Code on Compressors and Exhausters	
	Air Vacuum			
1	Vacuum pump	BS ISO 21360:2007	Vacuum technology. Standard methods for measuring vacuum-pump performance. General description	
	Clarifier / Sedimentation			
1	Scum Skimmer	Assessment for performance efficier		
	Weir Skimmer Trough/Pipe Chain & Flight Multiple travelling collector	(please refer to procedures to carry or	it a pilot project for sewerage system)	
2	Sludge Scrapper	Assessment for performance efficiency is made through a pilot project.		
	Rectangular	(please refer to procedures to carry or	it a pilot project for sewerage system)	
	- Chain & Flight			
	 Multiple travelling collector 			
3	Sludge Scrapper & Scum Skimmer	Assessment for performance efficier	, , , , ,	
	Circular	(please refer to procedures to carry out a pilot project for sewerage system)		
	Rectangular			
	- Chain & Flight			
	- Bridge travelling			
1	Disinfection	ONODNA NA5972 1-2001		
1	Ultraviolet (UV)	ONORM M5873-1:2001 DVGW W294:2006		
		NWRI UV Disinfection Guidelines		
-	Effluent and Water Removal / Recycle			
	Effluent Transfer & Dewatering (Centrifugal Pump)	ISO 9906:2012	Rotodynamic pumps - Hydraulic performance acceptance tests	
-	End Suction		- Grades 1B/1E/1U and 2B	
	Multistage			
	Self-Priming			
	Submersible	ANSI/HI 14.6:2011	Rotodynamic Pumps for hydraulic performance	
		/	acceptance tests Grades	
			1B/1E/1U and 2B	
	Effluent Decanting	•		
1 Effluent Decanter Assessment for performance efficiency is made through a pilot project.		ncy is made through a pilot project.		
	-Fixed Pipe	(please refer to procedures to carry out a pilot project for sewerage system)		
	-Floating			
	-Surface Skimming			
	Flow Control			
4	Recoil Check Valve	BS EN 12334:2001	Industrial valves.	
1				
1			Cast iron check valves	
1		BS EN 14341:2006	Industrial valves. Steel check valves	
	Grit and Grease Removal	BS EN 14341:2006		
	Grit and Grease Removal Grease Collector	BS EN 14341:2006 Assessment for performance efficier	Industrial valves. Steel check valves	
		Assessment for performance efficier	Industrial valves. Steel check valves	
	Grease Collector	Assessment for performance efficier	Industrial valves. Steel check valves	
1	Grease Collector -Chain & Flight -Trough-Pipe Skimmer -Weir Skimmer	Assessment for performance efficier (please refer to procedures to carry or	Industrial valves. Steel check valves industrial	
	Grease Collector -Chain & Flight -Trough-Pipe Skimmer -Weir Skimmer Grit & Grease Collector (Horizontal Flow)	Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier	Industrial valves. Steel check valves icy is made through a pilot project. It a pilot project for sewerage system)	
1	Grease Collector -Chain & Flight -Trough-Pipe Skimmer -Weir Skimmer Grit & Grease Collector (Horizontal Flow) -Chain & Flight	Assessment for performance efficier (please refer to procedures to carry of Assessment for performance efficier	Industrial valves. Steel check valves industrial	
1	Grease Collector -Chain & Flight -Trough-Pipe Skimmer -Weir Skimmer Grit & Grease Collector (Horizontal Flow) -Chain & Flight -Detritor	Assessment for performance efficier (please refer to procedures to carry of Assessment for performance efficier	Industrial valves. Steel check valves icy is made through a pilot project. It a pilot project for sewerage system) icy is made through a pilot project.	
1	Grease Collector -Chain & Flight -Trough-Pipe Skimmer -Weir Skimmer Grit & Grease Collector (Horizontal Flow) -Chain & Flight -Detritor -Travelling Bridge	Assessment for performance efficien (please refer to procedures to carry or Assessment for performance efficien (please refer to procedures to carry or	Industrial valves. Steel check valves icy is made through a pilot project. It a pilot project for sewerage system) icy is made through a pilot project. It a pilot project for sewerage system)	
1	Grease Collector -Chain & Flight -Trough-Pipe Skimmer -Weir Skimmer Grit & Grease Collector (Horizontal Flow) -Chain & Flight -Detritor -Travelling Bridge Grit Collector	Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier	Industrial valves. Steel check valves try is made through a pilot project. tt a pilot project for sewerage system) try is made through a pilot project. tt a pilot project for sewerage system) try is made through a pilot project.	
1	Grease Collector -Chain & Flight -Trough-Pipe Skimmer -Weir Skimmer Grit & Grease Collector (Horizontal Flow) -Chain & Flight -Detritor -Travelling Bridge Grit Collector -Aerated	Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier	Industrial valves. Steel check valves icy is made through a pilot project. It a pilot project for sewerage system) icy is made through a pilot project. It a pilot project for sewerage system)	
1	Grease Collector -Chain & Flight -Trough-Pipe Skimmer -Weir Skimmer Grit & Grease Collector (Horizontal Flow) -Chain & Flight -Detritor -Travelling Bridge Grit Collector -Aerated -Horizontal Flow	Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier	Industrial valves. Steel check valves try is made through a pilot project. tt a pilot project for sewerage system) try is made through a pilot project. tt a pilot project for sewerage system) try is made through a pilot project.	
1 2 3	Grease Collector -Chain & Flight -Trough-Pipe Skimmer -Weir Skimmer Grit & Grease Collector (Horizontal Flow) -Chain & Flight -Detritor -Travelling Bridge Grit Collector -Aerated -Horizontal Flow -VorteN/A	Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or	Industrial valves. Steel check valves try is made through a pilot project. tt a pilot project for sewerage system) try is made through a pilot project. tt a pilot project for sewerage system) try is made through a pilot project. tt a pilot project for sewerage system)	
1	Grease Collector -Chain & Flight -Trough-Pipe Skimmer -Weir Skimmer Grit & Grease Collector (Horizontal Flow) -Chain & Flight -Detritor -Travelling Bridge Grit Collector -Aerated -Horizontal Flow -VorteN/A Grit Transfer Pump	Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier	Industrial valves. Steel check valves try is made through a pilot project. tr a pilot project for sewerage system) try is made through a pilot project. tr a pilot project for sewerage system) try is made through a pilot project. tr a pilot project for sewerage system) Rotary positive displacement pumps. Performance tests	
1 2 3	Grease Collector -Chain & Flight -Trough-Pipe Skimmer -Weir Skimmer Grit & Grease Collector (Horizontal Flow) -Chain & Flight -Detritor -Travelling Bridge Grit Collector -Aerated -Horizontal Flow -VorteN/A Grit Transfer Pump (Positive Displacement)	Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or	Industrial valves. Steel check valves try is made through a pilot project. tt a pilot project for sewerage system) try is made through a pilot project. tt a pilot project for sewerage system) try is made through a pilot project. tt a pilot project for sewerage system)	
1 2 3	Grease Collector -Chain & Flight -Trough-Pipe Skimmer -Weir Skimmer Grit & Grease Collector (Horizontal Flow) -Chain & Flight -Detritor -Travelling Bridge Grit Collector -Aerated -Horizontal Flow -VorteN/A Grit Transfer Pump (Positive Displacement) -Reciprocating	Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or	Industrial valves. Steel check valves try is made through a pilot project. tr a pilot project for sewerage system) try is made through a pilot project. tr a pilot project for sewerage system) try is made through a pilot project. tr a pilot project for sewerage system) Rotary positive displacement pumps. Performance tests	
1 2 3	Grease Collector -Chain & Flight -Trough-Pipe Skimmer -Weir Skimmer Grit & Grease Collector (Horizontal Flow) -Chain & Flight -Detritor -Travelling Bridge Grit Collector -Aerated -Horizontal Flow -VorteN/A Grit Transfer Pump (Positive Displacement) -Reciprocating -Rotary	Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or BS EN 14343:2005	Industrial valves. Steel check valves icy is made through a pilot project. it a pilot project for sewerage system) icy is made through a pilot project. it a pilot project for sewerage system) icy is made through a pilot project. it a pilot project for sewerage system) Rotary positive displacement pumps. Performance tests for acceptance.	
1 2 3 4 a)	Grease Collector -Chain & Flight -Trough-Pipe Skimmer -Weir Skimmer Grit & Grease Collector (Horizontal Flow) -Chain & Flight -Detritor -Travelling Bridge Grit Collector -Aerated -Horizontal Flow -VorteN/A Grit Transfer Pump (Positive Displacement) -Reciprocating	Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or	Industrial valves. Steel check valves try is made through a pilot project. tr a pilot project for sewerage system) try is made through a pilot project. tr a pilot project for sewerage system) try is made through a pilot project. tr a pilot project for sewerage system) Rotary positive displacement pumps. Performance tests	
1 2 3 4 a)	Grease Collector -Chain & Flight -Trough-Pipe Skimmer -Weir Skimmer Grit & Grease Collector (Horizontal Flow) -Chain & Flight -Detritor -Travelling Bridge Grit Collector -Aerated -Horizontal Flow -VorteN/A Grit Transfer Pump (Positive Displacement) -Reciprocating -Rotary Grit Transfer Pump	Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or BS EN 14343:2005	Industrial valves. Steel check valves Industrial valves. Steel check valves. Steel c	
1 2 3 4 a)	Grease Collector -Chain & Flight -Trough-Pipe Skimmer -Weir Skimmer Grit & Grease Collector (Horizontal Flow) -Chain & Flight -Detritor -Travelling Bridge Grit Collector -Aerated -Horizontal Flow -VorteN/A Grit Transfer Pump (Positive Displacement) -Reciprocating -Rotary Grit Transfer Pump (Centrifugal Pump)	Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or BS EN 14343:2005	Industrial valves. Steel check valves Industrial valves. Steel check valves. Steel check valves Industrial valves. Steel check valves Industrial valves. Steel check	
1 2 3 4 a)	Grease Collector -Chain & Flight -Trough-Pipe Skimmer -Weir Skimmer Grit & Grease Collector (Horizontal Flow) -Chain & Flight -Detritor -Travelling Bridge Grit Collector -Aerated -Horizontal Flow -VorteN/A Grit Transfer Pump (Positive Displacement) -Reciprocating -Rotary Grit Transfer Pump (Centrifugal Pump) -End Suction	Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or BS EN 14343:2005 ISO 9906:2012	Industrial valves. Steel check valves cy is made through a pilot project. It a pilot project for sewerage system) cy is made through a pilot project. It a pilot project for sewerage system) cy is made through a pilot project. It a pilot project for sewerage system) Rotary positive displacement pumps. Performance tests for acceptance. Rotodynamic pumps - Hydraulic performance acceptance tests - Grades 1B/1E/1U and 2B	
1 2 3 4 a)	Grease Collector -Chain & Flight -Trough-Pipe Skimmer -Weir Skimmer Grit & Grease Collector (Horizontal Flow) -Chain & Flight -Detritor -Travelling Bridge Grit Collector -Aerated -Horizontal Flow -VorteN/A Grit Transfer Pump (Positive Displacement) -Reciprocating -Rotary Grit Transfer Pump (Centrifugal Pump) -End Suction -Self-Priming	Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or BS EN 14343:2005 ISO 9906:2012	Industrial valves. Steel check valves icy is made through a pilot project. it a pilot project for sewerage system) icy is made through a pilot project. it a pilot project for sewerage system) icy is made through a pilot project. it a pilot project for sewerage system) Rotary positive displacement pumps. Performance tests for acceptance. Rotodynamic pumps - Hydraulic performance acceptance tests - Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance	
1 2 3 4 a)	Grease Collector -Chain & Flight -Trough-Pipe Skimmer -Weir Skimmer Grit & Grease Collector (Horizontal Flow) -Chain & Flight -Detritor -Travelling Bridge Grit Collector -Aerated -Horizontal Flow -VorteN/A Grit Transfer Pump (Positive Displacement) -Reciprocating -Rotary Grit Transfer Pump (Centrifugal Pump) -End Suction -Self-Priming	Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or BS EN 14343:2005 ISO 9906:2012	Industrial valves. Steel check valves Industrial valves. Industrial valves valves Industrial valves. Steel check valves. Industrial valves. Indust	
1 2 3 4 a) b)	Grease Collector -Chain & Flight -Trough-Pipe Skimmer -Weir Skimmer Grit & Grease Collector (Horizontal Flow) -Chain & Flight -Detritor -Travelling Bridge Grit Collector -Aerated -Horizontal Flow -VorteN/A Grit Transfer Pump (Positive Displacement) -Reciprocating -Rotary Grit Transfer Pump (Centrifugal Pump) -End Suction -Self-Priming -Submersible	Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or BS EN 14343:2005 ISO 9906:2012 ANSI/HI 14.6:2011 Assessment for performance efficier	Industrial valves. Steel check valves Industrial valves. Industrial valves valves Industrial valves. Steel check valves. Industrial valves. Indust	
1 2 3 4 a) 4 b)	Grease Collector -Chain & Flight -Trough-Pipe Skimmer -Weir Skimmer Grit & Grease Collector (Horizontal Flow) -Chain & Flight -Detritor -Travelling Bridge Grit Collector -Aerated -Horizontal Flow -VorteN/A Grit Transfer Pump (Positive Displacement) -Reciprocating -Rotary Grit Transfer Pump (Centrifugal Pump) -End Suction -Self-Priming -Submersible Grit Transfer	Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or BS EN 14343:2005 ISO 9906:2012 ANSI/HI 14.6:2011 Assessment for performance efficier	Industrial valves. Steel check valves industrial valves. Steel check valves iccy is made through a pilot project. it a pilot project for sewerage system) iccy is made through a pilot project. it a pilot project for sewerage system) iccy is made through a pilot project. it a pilot project for sewerage system) iccy is made through a pilot project. it a pilot project for sewerage system) Rotary positive displacement pumps. Performance tests for acceptance. Rotodynamic pumps - Hydraulic performance acceptance tests - Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests 1B/1E/1U and 2B rey is made through a pilot project.	
1 2 3 4 a) 4 b)	Grease Collector -Chain & Flight -Trough-Pipe Skimmer -Weir Skimmer Grit & Grease Collector (Horizontal Flow) -Chain & Flight -Detritor -Travelling Bridge Grit Collector -Aerated -Horizontal Flow -VorteN/A Grit Transfer Pump (Positive Displacement) -Reciprocating -Rotary Grit Transfer Pump (Centrifugal Pump) -End Suction -Self-Priming -Submersible Grit Transfer -Chain and BucketCompactor	Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or BS EN 14343:2005 ISO 9906:2012 ANSI/HI 14.6:2011 Assessment for performance efficier	Industrial valves. Steel check valves industrial valves. Steel check valves iccy is made through a pilot project. it a pilot project for sewerage system) iccy is made through a pilot project. it a pilot project for sewerage system) iccy is made through a pilot project. it a pilot project for sewerage system) iccy is made through a pilot project. it a pilot project for sewerage system) Rotary positive displacement pumps. Performance tests for acceptance. Rotodynamic pumps - Hydraulic performance acceptance tests - Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests 1B/1E/1U and 2B rey is made through a pilot project.	
1 2 3 4 a) 4 b)	Grease Collector -Chain & Flight -Trough-Pipe Skimmer -Weir Skimmer Grit & Grease Collector (Horizontal Flow) -Chain & Flight -Detritor -Travelling Bridge Grit Collector -Aerated -Horizontal Flow -VorteN/A Grit Transfer Pump (Positive Displacement) -Reciprocating -Rotary Grit Transfer Pump (Centrifugal Pump) -End Suction -Self-Priming -Submersible Grit Transfer -Chain and BucketCompactor -Compactor and Conveyor	Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or BS EN 14343:2005 ISO 9906:2012 ANSI/HI 14.6:2011 Assessment for performance efficier	Industrial valves. Steel check valves Industrial valves. Steel check valves Incy is made through a pilot project. It a pilot project for sewerage system) Incy is made through a pilot project. It a pilot project for sewerage system) Incy is made through a pilot project. It a pilot project for sewerage system) Rotary positive displacement pumps. Performance tests for acceptance. Rotodynamic pumps - Hydraulic performance acceptance tests - Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests - Grades 1B/1E/1U and 2B Ity is made through a pilot project. It a pilot project for sewerage system)	
1 2 3 4 a) 4 b)	Grease Collector -Chain & Flight -Trough-Pipe Skimmer -Weir Skimmer Grit & Grease Collector (Horizontal Flow) -Chain & Flight -Detritor -Travelling Bridge Grit Collector -Aerated -Horizontal Flow -VorteN/A Grit Transfer Pump (Positive Displacement) -Reciprocating -Rotary Grit Transfer Pump (Centrifugal Pump) -End Suction -Self-Priming -Submersible Grit Transfer -Chain and BucketCompactor -Compactor and Conveyor -Conveyor	Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or BS EN 14343:2005 ISO 9906:2012 ANSI/HI 14.6:2011 Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier	Industrial valves. Steel check valves Industrial valves. Steel check valves Incy is made through a pilot project. It a pilot project for sewerage system) Incy is made through a pilot project. It a pilot project for sewerage system) Incy is made through a pilot project. It a pilot project for sewerage system) Rotary positive displacement pumps. Performance tests for acceptance. Rotodynamic pumps - Hydraulic performance acceptance tests - Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests - Grades 1B/1E/1U and 2B Ity is made through a pilot project. It a pilot project for sewerage system)	
1 2 3 4 a) 4 b)	Grease Collector -Chain & Flight -Trough-Pipe Skimmer -Weir Skimmer Grit & Grease Collector (Horizontal Flow) -Chain & Flight -Detritor -Travelling Bridge Grit Collector -Aerated -Horizontal Flow -VorteN/A Grit Transfer Pump (Positive Displacement) -Reciprocating -Rotary Grit Transfer Pump (Centrifugal Pump) -End Suction -Self-Priming -Submersible Grit Transfer -Chain and BucketCompactor -Compactor and Conveyor -Conveyor Grit Washing & Dewatering	Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or BS EN 14343:2005 ISO 9906:2012 ANSI/HI 14.6:2011 Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier	Industrial valves. Steel check valves icty is made through a pilot project. it a pilot project for sewerage system) icty is made through a pilot project. it a pilot project for sewerage system) icty is made through a pilot project. it a pilot project for sewerage system) icty is made through a pilot project. it a pilot project for sewerage system) Rotary positive displacement pumps. Performance tests for acceptance. Rotodynamic pumps - Hydraulic performance acceptance tests - Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests - Grades 1B/1E/1U and 2B rev is made through a pilot project. it a pilot project for sewerage system)	
1 2 3 4 a) 4 b)	Grease Collector -Chain & Flight -Trough-Pipe Skimmer -Weir Skimmer Grit & Grease Collector (Horizontal Flow) -Chain & Flight -Detritor -Travelling Bridge Grit Collector -Aerated -Horizontal Flow -VorteN/A Grit Transfer Pump (Positive Displacement) -Reciprocating -Rotary Grit Transfer Pump (Centrifugal Pump) -End Suction -Self-Priming -Submersible Grit Transfer -Chain and BucketCompactor -Compactor and Conveyor -Conveyor Grit Washing & Dewatering -Drum Screen	Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier (please refer to procedures to carry or BS EN 14343:2005 ISO 9906:2012 ANSI/HI 14.6:2011 Assessment for performance efficier (please refer to procedures to carry or Assessment for performance efficier	Industrial valves. Steel check valves icy is made through a pilot project. it a pilot project for sewerage system) icy is made through a pilot project. it a pilot project for sewerage system) Rotary positive displacement pumps. Performance tests for acceptance. Rotodynamic pumps - Hydraulic performance acceptance tests - Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B Ity is made through a pilot project. it a pilot project for sewerage system) Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B Ity is made through a pilot project. it a pilot project for sewerage system)	

1	Instrumentation and Control		
	Actuator	BS EN 15714-2:2009	Industrial valves - Actuators
	-Electric		Part 2: Electric actuators for industrial valves Basic
			requirements
			and comply with SPAN TS 1701:2015
			Technical Specification for Instrumentation
ļ			and Control
			Part 1: Actuator
2	Actuator	BS EN 15714-3:2009	Industrial valves - Actuators
-	-Pneumatic	D3 EN 13714 3.2003	Part 3: Pneumatic part-turn actuators for industrial valves
3	System Control	Manufacturer Standard	
J	-Air Control System	IEEE C37.1-2007	SCADA and Automation Systems.
	-Monitoring System		
Ν	Aixing	E	
	Mixer	ISO 21630:2007	Pumps Testing. Submersible miN/Aers for wastewater and
	-Submersible Mixer		similar applications.
(Odour Control and Treatment		
1	Odour Control	Assessment for performance	efficiency is made through a pilot project.
	-Biofiltration	(please refer to procedures to c	arry out a pilot project for sewerage system)
	-Bioscrubbing		
	-Carbon Adsorption		
	-Deodorizer		
	-Liquid Redox		
ł	-Photoionization		
ł	-Solid Scavenger		
	-Wet Air Scrubbing		
1	Pre-Treatment		
1	Grease Trap	BS EN 1825-1:2004	Grease separators.
			Principles of design, performance and testing, marking
			and quality control.
2	Communal Grease Trap	Assessment for performance	efficiency is made through a pilot project.
3	Complete Pre- Treatment System	Assessment for performance	efficiency is made through a pilot project.
F	Primary and Secondary Screening		
1	Screen	Assessment for performance	efficiency is made through a pilot project
2	Screening Transfer	Assessment for performance	efficiency is made through a pilot project
	Compactor	(please refer to procedures to c	arry out a pilot project for sewerage system)
	Conveyor		
	Conveyor & Compactor		
	Raw Sewage Pumping		
1	Positive Displacement Pump	BS EN 14343:2005	Rotary positive displacement pumps. Performance tests
	Rotary		for acceptance
	- Archimedes		
	- Lobes		
	- Screw		
2	Centrifugal Pump	ISO 9906:2012	Rotodynamic pumps
2			 Hydraulic performance acceptance tests
2	-End Suction		, , , ,
2	-Self-Priming		- Grades 1B/1E/1U and 2B
2			, , , ,
Z	-Self-Priming		- Grades 1B/1E/1U and 2B
۷	-Self-Priming	ANSI/HI 14.6:2011	- Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance
2	-Self-Priming	ANSI/HI 14.6:2011	- Grades 1B/1E/1U and 2B
	-Self-Priming -Submersible	ANSI/HI 14.6:2011	- Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance
5	-Self-Priming -Submersible Sewage Conveyance		- Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B
	-Self-Priming -Submersible Sewage Conveyance Sewer Liner	ANSI/HI 14.6:2011 BS EN ISO 11296:2011	- Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B Plastics piping systems for renovation of underground non
5	-Self-Priming -Submersible Sewage Conveyance		Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B Plastics piping systems for renovation of underground non pressure drainage and sewerage networks
5	-Self-Priming -Submersible Sewage Conveyance Sewer Liner		Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B Plastics piping systems for renovation of underground non pressure drainage and sewerage networks Part 1: General
5	-Self-Priming -Submersible Sewage Conveyance Sewer Liner		Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B Plastics piping systems for renovation of underground non pressure drainage and sewerage networks Part 1: General Part 2: Lining with continuous pipes
5	-Self-Priming -Submersible Sewage Conveyance Sewer Liner		Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B Plastics piping systems for renovation of underground non- pressure drainage and sewerage networks Part 1: General Part 2: Lining with continuous pipes Part 3: Lining with close-fit pipes
5	-Self-Priming -Submersible Sewage Conveyance Sewer Liner		Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B Plastics piping systems for renovation of underground non- pressure drainage and sewerage networks Part 1: General Part 2: Lining with continuous pipes
5	-Self-Priming -Submersible Sewage Conveyance Sewer Liner	BS EN ISO 11296:2011	Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B Plastics piping systems for renovation of underground non- pressure drainage and sewerage networks Part 1: General Part 2: Lining with continuous pipes Part 3: Lining with close-fit pipes Part 4: Lining with cured-in-place pipes
5	-Self-Priming -Submersible Sewage Conveyance Sewer Liner		Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B Plastics piping systems for renovation of underground non- pressure drainage and sewerage networks Part 1: General Part 2: Lining with continuous pipes Part 3: Lining with close-fit pipes Part 4: Lining with cured-in-place pipes Standard specification for cured-in-place thermosetting
5	-Self-Priming -Submersible Sewage Conveyance Sewer Liner	BS EN ISO 11296:2011 ASTM D5813-04 (2012)	Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B Plastics piping systems for renovation of underground non- pressure drainage and sewerage networks Part 1: General Part 2: Lining with continuous pipes Part 3: Lining with continuous pipes Part 4: Lining with cured-in-place pipes Standard specification for cured-in-place thermosetting resin sewer piping systems
5	-Self-Priming -Submersible Sewage Conveyance Sewer Liner	BS EN ISO 11296:2011	Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B Plastics piping systems for renovation of underground non- pressure drainage and sewerage networks Part 1: General Part 2: Lining with continuous pipes Part 3: Lining with close-fit pipes Part 4: Lining with close-fit pipes Part 4: Lining with cured-in-place pipes Standard specification for cured-in-place thermosetting resin sewer piping systems Standard practice for rehabilitation of existing pipelines and
5	-Self-Priming -Submersible Sewage Conveyance Sewer Liner	BS EN ISO 11296:2011 ASTM D5813-04 (2012)	Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B Plastics piping systems for renovation of underground non- pressure drainage and sewerage networks Part 1: General Part 2: Lining with continuous pipes Part 3: Lining with close-fit pipes Part 4: Lining with close-fit pipes Part 4: Lining with cured-in-place pipes Standard specification for cured-in-place thermosetting resin sewer piping systems Standard practice for rehabilitation of existing pipelines and conduits by the pulled in place installation of Glass
5	-Self-Priming -Submersible Sewage Conveyance Sewer Liner	BS EN ISO 11296:2011 ASTM D5813-04 (2012)	Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B Plastics piping systems for renovation of underground non- pressure drainage and sewerage networks Part 1: General Part 2: Lining with continuous pipes Part 3: Lining with close-fit pipes Part 4: Lining with close-fit pipes Part 4: Lining with cured-in-place pipes Standard specification for cured-in-place thermosetting resin sewer piping systems Standard practice for rehabilitation of existing pipelines and conduits by the pulled in place installation of Glass Reinforced Plastic (GRP) Cured-in-Place Thermosetting
5	-Self-Priming -Submersible Sewage Conveyance Sewer Liner	BS EN ISO 11296:2011 ASTM D5813-04 (2012) ASTM F2019-11	Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B Plastics piping systems for renovation of underground non- pressure drainage and sewerage networks Part 1: General Part 2: Lining with continuous pipes Part 3: Lining with close-fit pipes Part 4: Lining with close-fit pipes Part 4: Lining with cured-in-place pipes Standard specification for cured-in-place thermosetting resin sewer piping systems Standard practice for rehabilitation of existing pipelines and conduits by the pulled in place installation of Glass Reinforced Plastic (GRP) Cured-in-Place Thermosetting Resin Pipe (CIPP)
5	-Self-Priming -Submersible Sewage Conveyance Sewer Liner	BS EN ISO 11296:2011 ASTM D5813-04 (2012)	Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B Plastics piping systems for renovation of underground non- pressure drainage and sewerage networks Part 1: General Part 2: Lining with continuous pipes Part 3: Lining with close-fit pipes Part 4: Lining with close-fit pipes Part 4: Lining with cured-in-place pipes Standard specification for cured-in-place thermosetting resin sewer piping systems Standard practice for rehabilitation of existing pipelines and conduits by the pulled in place installation of Glass Reinforced Plastic (GRP) Cured-in-Place Thermosetting Resin Pipe (CIPP) Standard practice for rehabilitation of eN/Aisting pipelines and
5	-Self-Priming -Submersible Sewage Conveyance Sewer Liner	BS EN ISO 11296:2011 ASTM D5813-04 (2012) ASTM F2019-11	Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B Plastics piping systems for renovation of underground non- pressure drainage and sewerage networks Part 1: General Part 2: Lining with continuous pipes Part 3: Lining with close-fit pipes Part 4: Lining with close-fit pipes Part 4: Lining with close-fit pipes Standard specification for cured-in-place thermosetting resin sewer piping systems Standard specification for cured-in-place thermosetting resin sewer piping systems Standard practice for rehabilitation of existing pipelines and conduits by the pulled in place installation of Glass Reinforced Plastic (GRP) Cured-in-Place Thermosetting Resin Pipe (CIPP) Standard practice for rehabilitation of eN/Aisting pipelines and conduits by the Inversion and Curing of a Resin-Impregnated
5	-Self-Priming -Submersible Sewage Conveyance Sewer Liner Cured-in-place pipes (CIPP)	BS EN ISO 11296:2011 ASTM D5813-04 (2012) ASTM F2019-11 ASTM F1216-16	Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B Plastics piping systems for renovation of underground non- pressure drainage and sewerage networks Part 1: General Part 2: Lining with continuous pipes Part 3: Lining with cose-fit pipes Part 4: Lining with close-fit pipes Part 4: Lining with cured-in-place pipes Standard specification for cured-in-place thermosetting resin sewer piping systems Standard practice for rehabilitation of existing pipelines and conduits by the pulled in place installation of Glass Reinforced Plastic (GRP) Cured-in-Place Thermosetting Resin Pipe (CIPP) Standard practice for rehabilitation of existing pipelines and conduits by the Inversion and Curing of a Resin-Impregnated Tube
5	-Self-Priming -Submersible Sewage Conveyance Sewer Liner Cured-in-place pipes (CIPP) Sewer Liner	BS EN ISO 11296:2011 ASTM D5813-04 (2012) ASTM F2019-11	Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B Plastics piping systems for renovation of underground non- pressure drainage and sewerage networks Part 1: General Part 2: Lining with continuous pipes Part 3: Lining with close-fit pipes Part 4: Lining with close-fit pipes Part 4: Lining with close-fit pipes Standard specification for cured-in-place thermosetting resin sewer piping systems Standard specification for cured-in-place thermosetting resin sewer piping systems Standard practice for rehabilitation of existing pipelines and conduits by the pulled in place installation of Glass Reinforced Plastic (GRP) Cured-in-Place Thermosetting Resin Pipe (CIPP) Standard practice for rehabilitation of eN/Aisting pipelines and conduits by the Inversion and Curing of a Resin-Impregnated
5	-Self-Priming -Submersible Sewage Conveyance Sewer Liner Cured-in-place pipes (CIPP) Sewer Liner -FRP Slip Lining	BS EN ISO 11296:2011 ASTM D5813-04 (2012) ASTM F2019-11 ASTM F1216-16 BS EN ISO 178:2010+A1:2013	Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B Plastics piping systems for renovation of underground non pressure drainage and sewerage networks Part 1: General Part 2: Lining with continuous pipes Part 3: Lining with colse-fit pipes Part 4: Lining with cured-in-place pipes Standard specification for cured-in-place thermosetting resin sewer piping systems Standard practice for rehabilitation of existing pipelines and conduits by the pulled in place installation of Glass Reinforced Plastic (GRP) Cured-in-Place Thermosetting Resin Pipe (CIPP) Standard practice for rehabilitation of eN/Aisting pipelines and conduits by the Inversion and Curing of a Resin-Impregnated Tube Plastics - Determination of fleN/Aural properties
5	-Self-Priming -Submersible Sewage Conveyance Sewer Liner Cured-in-place pipes (CIPP) Sewer Liner	BS EN ISO 11296:2011 ASTM D5813-04 (2012) ASTM F2019-11 ASTM F1216-16	Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B Plastics piping systems for renovation of underground non pressure drainage and sewerage networks Part 1: General Part 2: Lining with continuous pipes Part 3: Lining with close-fit pipes Part 4: Lining with cured-in-place pipes Standard specification for cured-in-place thermosetting resin sewer piping systems Standard practice for rehabilitation of existing pipelines and conduits by the pulled in place installation of Glass Reinforced Plastic (GRP) Cured-in-Place Thermosetting Resin Pipe (CIPP) Standard practice for rehabilitation of eN/Aisting pipelines and conduits by the Inversion and Curing of a Resin-Impregnated Tube Plastics - Determination of fleN/Aural properties
5	-Self-Priming -Submersible Sewage Conveyance Sewer Liner Cured-in-place pipes (CIPP) Sewer Liner -FRP Slip Lining	BS EN ISO 11296:2011 ASTM D5813-04 (2012) ASTM F2019-11 ASTM F1216-16 BS EN ISO 178:2010+A1:2013	Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B Plastics piping systems for renovation of underground non pressure drainage and sewerage networks Part 1: General Part 2: Lining with continuous pipes Part 3: Lining with close-fit pipes Part 4: Lining with cured-in-place pipes Standard specification for cured-in-place thermosetting resin sewer piping systems Standard practice for rehabilitation of existing pipelines and conduits by the pulled in place installation of Glass Reinforced Plastic (GRP) Cured-in-Place Thermosetting Resin Pipe (CIPP) Standard practice for rehabilitation of eN/Aisting pipelines and conduits by the Inversion and Curing of a Resin-Impregnated Tube Plastics - Determination of fleN/Aural properties Plastics piping systems for renovation of underground non pressure drainage and sewerage networks
5	-Self-Priming -Submersible Sewage Conveyance Sewer Liner Cured-in-place pipes (CIPP) Sewer Liner -FRP Slip Lining	BS EN ISO 11296:2011 ASTM D5813-04 (2012) ASTM F2019-11 ASTM F1216-16 BS EN ISO 178:2010+A1:2013	Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B Plastics piping systems for renovation of underground non pressure drainage and sewerage networks Part 1: General Part 2: Lining with continuous pipes Part 3: Lining with close-fit pipes Part 4: Lining with cured-in-place pipes Standard specification for cured-in-place thermosetting resin sewer piping systems Standard practice for rehabilitation of existing pipelines and conduits by the pulled in place installation of Glass Reinforced Plastic (GRP) Cured-in-Place Thermosetting Resin Pipe (CIPP) Standard practice for rehabilitation of eN/Aisting pipelines and conduits by the Inversion and Curing of a Resin-Impregnated Tube Plastics - Determination of fleN/Aural properties Plastics piping systems for renovation of underground non pressure drainage and sewerage networks Part 1: General
5	-Self-Priming -Submersible Sewage Conveyance Sewer Liner Cured-in-place pipes (CIPP) Sewer Liner -FRP Slip Lining	BS EN ISO 11296:2011 ASTM D5813-04 (2012) ASTM F2019-11 ASTM F1216-16 BS EN ISO 178:2010+A1:2013	Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B Plastics piping systems for renovation of underground non pressure drainage and sewerage networks Part 1: General Part 2: Lining with continuous pipes Part 3: Lining with close-fit pipes Part 4: Lining with cured-in-place pipes Standard specification for cured-in-place thermosetting resin sewer piping systems Standard practice for rehabilitation of existing pipelines and conduits by the pulled in place installation of Glass Reinforced Plastic (GRP) Cured-in-Place Thermosetting Resin Pipe (CIPP) Standard practice for rehabilitation of eN/Aisting pipelines and conduits by the Inversion and Curing of a Resin-Impregnated Tube Plastics - Determination of fleN/Aural properties Plastics piping systems for renovation of underground non pressure drainage and sewerage networks Part 1: General Part 2: Lining with continuous pipes Part 3: Lining with close-fit
5	-Self-Priming -Submersible Sewage Conveyance Sewer Liner Cured-in-place pipes (CIPP) Sewer Liner -FRP Slip Lining	BS EN ISO 11296:2011 ASTM D5813-04 (2012) ASTM F2019-11 ASTM F1216-16 BS EN ISO 178:2010+A1:2013	Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B Plastics piping systems for renovation of underground non- pressure drainage and sewerage networks Part 1: General Part 2: Lining with continuous pipes Part 3: Lining with close-fit pipes Part 4: Lining with close-fit pipes Standard specification for cured-in-place thermosetting resin sewer piping systems Standard practice for rehabilitation of existing pipelines and conduits by the pulled in place installation of Glass Reinforced Plastic (GRP) Cured-in-Place Thermosetting Resin Pipe (CIPP) Standard practice for rehabilitation of existing pipelines and conduits by the Inversion and Curing of a Resin-Impregnated Tube Plastics - Determination of fleN/Aural properties Plastics piping systems for renovation of underground non- pressure drainage and sewerage networks Part 1: General Part 2: Lining with continuous pipes Part 3: Lining with close-fit pipes
5	-Self-Priming -Submersible Sewage Conveyance Sewer Liner Cured-in-place pipes (CIPP) Sewer Liner -FRP Slip Lining	BS EN ISO 11296:2011 ASTM D5813-04 (2012) ASTM F2019-11 ASTM F1216-16 BS EN ISO 178:2010+A1:2013	- Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B Plastics piping systems for renovation of underground non- pressure drainage and sewerage networks Part 1: General Part 2: Lining with continuous pipes Part 3: Lining with close-fit pipes Part 4: Lining with close-fit pipes Part 4: Lining with cured-in-place pipes Standard specification for cured-in-place thermosetting resin sewer piping systems Standard practice for rehabilitation of existing pipelines and conduits by the pulled in place installation of Glass Reinforced Plastic (GRP) Cured-in-Place Thermosetting Resin Pipe (CIPP) Standard practice for rehabilitation of eN/Aisting pipelines and conduits by the Inversion and Curing of a Resin-Impregnated Tube Plastics - Determination of fleN/Aural properties Plastics piping systems for renovation of underground non- pressure drainage and sewerage networks Part 1: General Part 2: Lining with continuous pipes Part 3: Lining with close-fit pipes Part 3: Lining with continuous pipes Part 3: Lining with close-fit pipes Part 3: Lining with close-fit pipes
5	-Self-Priming -Submersible Sewage Conveyance Sewer Liner Cured-in-place pipes (CIPP) Sewer Liner -FRP Slip Lining	BS EN ISO 11296:2011 ASTM D5813-04 (2012) ASTM F2019-11 ASTM F1216-16 BS EN ISO 178:2010+A1:2013	Grades 1B/1E/1U and 2B Rotodynamic Pumps for hydraulic performance acceptance tests Grades 1B/1E/1U and 2B Plastics piping systems for renovation of underground non- pressure drainage and sewerage networks Part 1: General Part 2: Lining with continuous pipes Part 3: Lining with close-fit pipes Part 4: Lining with close-fit pipes Standard specification for cured-in-place thermosetting resin sewer piping systems Standard practice for rehabilitation of existing pipelines and conduits by the pulled in place installation of Glass Reinforced Plastic (GRP) Cured-in-Place Thermosetting Resin Pipe (CIPP) Standard practice for rehabilitation of existing pipelines and conduits by the Inversion and Curing of a Resin-Impregnated Tube Plastics - Determination of fleN/Aural properties Plastics piping systems for renovation of underground non- pressure drainage and sewerage networks Part 1: General Part 2: Lining with continuous pipes Part 3: Lining with close-fit pipes

1 Biogas System -Gas Holder Assessment for performance efficiency is made through a (please refer to procedures to carry out a pilot project for s 2 Gas Control -Gas Holder Assessment for performance efficiency is made through a (please refer to procedures to carry out a pilot project for s 3 Gas Holder Assessment for performance efficiency is made through a (please refer to procedures to carry out a pilot project for s 4 Polymer Dosing Metering Pump - Positive Displacement GB/T 7782-2008 5 Sludge Dewatering Assessment for performance efficiency is made through a (please refer to procedures to carry out a pilot project for s 5 Sludge Dewatering Assessment for performance efficiency is made through a (please refer to procedures to carry out a pilot project for s 6 Sludge Digester Assessment for performance efficiency is made through a (please refer to procedures to carry out a pilot project for s -Gravity Container	ewerage system) a pilot project ewerage system) a pilot project ewerage system) Metering Pumps for test a pilot project a pilot project a pilot project a pilot project		
2 Gas Control Assessment for performance efficiency is made through a glot project for s -Gas Holder (please refer to procedures to carry out a pilot project for s 3 Gas Holder Assessment for performance efficiency is made through a glot project for s -Dry Seal (please refer to procedures to carry out a pilot project for s 4 Polymer Dosing GB/T 7782-2008 Metering Pump - Positive Displacement ANSI/ HI 7.6-2012 5 Sludge Dewatering Assessment for performance efficiency is made through a glot project for s 6 Sludge Digester Assessment for performance efficiency is made through a glot project for s 7 Sludge Dryer Assessment for performance efficiency is made through a glot project for s -Screw Press (please refer to procedures to carry out a pilot project for s	a pilot project sewerage system) a pilot project sewerage system) Metering Pumps for test a pilot project a pilot project a pilot project		
-Gas Holder (please refer to procedures to carry out a pilot project for s 3 Gas Holder Assessment for performance efficiency is made through a (please refer to procedures to carry out a pilot project for s 4 Polymer Dosing Metering Pump GB/T 7782-2008 Metering Pumps - Positive Displacement ANSI/ HI 7.6-2012 Controlled volume I 5 Sludge Dewatering Assessment for performance efficiency is made through a (please refer to procedures to carry out a pilot project for s 6 Sludge Digester Assessment for performance efficiency is made through a (please refer to procedures to carry out a pilot project for s 7 Sludge Dryer Assessment for performance efficiency is made through a (please refer to procedures to carry out a pilot project for s 7 Sludge Dryer Assessment for performance efficiency is made through a (please refer to procedures to carry out a pilot project for s	ewerage system) a pilot project ewerage system) Metering Pumps for test a pilot project a pilot project a pilot project		
3 Gas Holder Assessment for performance efficiency is made through a plot project for s (please refer to procedures to carry out a pilot project for s (please refer to procedures to carry out a pilot project for s (please refer to procedures to carry out a pilot project for s (please refer to procedures to carry out a pilot project for s (please refer to procedures to carry out a pilot project for s (please refer to procedures to carry out a pilot project for s (please refer to procedures to carry out a pilot project for s (please refer to procedures to carry out a pilot project for s (please refer to procedures to carry out a pilot project for s (please please refer to procedures to carry out a pilot project for s (please refer to procedures to carry out a pilot project for s (please refer to procedures to carry out a pilot project for s (please refer to procedures to carry out a pilot project for s (please refer to procedures to carry out a pilot project for s (please refer to procedures to carry out a pilot project for s (please refer to procedures to carry out a pilot project for s (please refer to procedures to carry out a pilot project for s (please refer to procedures to carry out a pilot project for s (please refer to procedures to carry out a pilot project for s (please refer to procedures to carry out a pilot project for s (please refer to procedures to carry out a pilot project for s (please refer to procedures to carry out a pilot project for s (please refer to procedures to carry out a pilot project for s (please refer to procedures to carry out a pilot project for s (please refer to procedures to carry out a pilot project for s (please refer to procedures to carry out a pilot project for s (please refer to procedures to carry out a pilot project for s (please refer to procedures to carry out a pilot project for s (please refer to procedures to carry out a pilot project for s (please refer to procedures to carg out a pilot project for s (a pilot project ewerage system) Metering Pumps for test a pilot project a pilot project a pilot project		
-Dry Seal (please refer to procedures to carry out a pilot project for s 4 Polymer Dosing Metering Pump - Positive Displacement GB/T 7782-2008 Metering Pumps 5 Sludge Dewatering ANSI/ HI 7.6-2012 Controlled volume I 5 Sludge Dewatering Assessment for performance efficiency is made through a subsect of performance efficiency is made through a screw Press	wewerage system) Metering Pumps for test a pilot project a pilot project a pilot project		
4 Polymer Dosing Metering Pump - Positive Displacement GB/T 7782-2008 Metering Pumps 5 Sludge Dewatering ANSI/ HI 7.6-2012 Controlled volume I 6 Sludge Digester Assessment for performance efficiency is made through a Assessment for performance efficiency is made through a Sludge Dryer 7 Sludge Dryer Assessment for performance efficiency is made through a (please refer to procedures to carry out a pilot project for s	Metering Pumps for test a pilot project a pilot project a pilot project		
Metering Pump - Positive Displacement ANSI/ HI 7.6-2012 Controlled volume I 5 Sludge Dewatering Assessment for performance efficiency is made through a 6 Sludge Digester Assessment for performance efficiency is made through a 7 Sludge Dryer Assessment for performance efficiency is made through a -Screw Press (please refer to procedures to carry out a pilot project for s	a pilot project a pilot project a pilot project		
- Positive Displacement ANSI/ HI 7.6-2012 Controlled volume I 5 Sludge Dewatering Assessment for performance efficiency is made through a 6 Sludge Digester Assessment for performance efficiency is made through a 7 Sludge Dryer Assessment for performance efficiency is made through a -Screw Press (please refer to procedures to carry out a pilot project for s	a pilot project a pilot project a pilot project		
5 Sludge Dewatering Assessment for performance efficiency is made through a 6 Sludge Digester Assessment for performance efficiency is made through a 7 Sludge Dryer Assessment for performance efficiency is made through a -Screw Press (please refer to procedures to carry out a pilot project for s	a pilot project a pilot project a pilot project		
6 Sludge Digester Assessment for performance efficiency is made through a 7 Sludge Dryer Assessment for performance efficiency is made through a -Screw Press (please refer to procedures to carry out a pilot project for s	a pilot project a pilot project		
7 Sludge Dryer Assessment for performance efficiency is made through a -Screw Press (please refer to procedures to carry out a pilot project for s	a pilot project		
-Screw Press (please refer to procedures to carry out a pilot project for s			
	ewerage system)		
-Gravity Container			
-Fluidised Bed Sludge			
-Rotary Klin			
8 Sludge Reception Facilities Assessment for performance efficiency is made through a			
9 Sludge Screen Assessment for performance efficiency is made through a			
Mechanical (please refer to procedures to carry out a pilot project for s	sewerage system)		
- Drum Screen			
- Micro Screen			
- Screw Screen			
10 Sludge Thickener Assessment for performance efficiency is made through a			
	(please refer to procedures to carry out a pilot project for sewerage system)		
Gravity Belt Thickener			
Gravity Thickener			
- Central Driven			
- Peripheral Driven			
Rotary Drum Thickener Screw Thickener Table Thickener			
	displacement pumps. Performance tests		
11 Sludge Transfer (Positive Displacement Pump) BS EN 14343:2005 Rotary positive -Progressive Cavity for acceptance	displacement pumps. Performance tests		
	ement Pumps, General Rules of Testing		
	ement rumps, deneral rules of resting		
Sludge Transfer ISO 9906:2012 Rotodynamic pump	05		
	nance acceptance tests		
End Suction Self-Priming Submersible - Grades 1B/1E/1U			
	for hidro la seference		
	imps for hydraulic performance		
acceptance tests Grades 1B/1E/1U a	nd 2B		
Treatment System	10 20		
1 Package Sewage Treatment System Assessment for performance efficiency is made through a sessment	a pilot project		
-High Density Polyethylene (HDPE)	(please refer to procedures to carry out a pilot project for sewerage system)		
-Steel			
	Assessment for performance efficiency is made through a pilot project		
	Assessment for performance efficiency is made through a pilot project		
	Assessment for performance efficiency is made through a pilot project		
5 Moving Bed Bioreactor (MBBR) Assessment for performance efficiency is made through	Assessment for performance efficiency is made through a pilot project		
6 Rotating Biological Contactor (RBC) Assessment for performance efficiency is made through	Assessment for performance efficiency is made through a pilot project		
7 Super Dissolved ON/Aygen Assessment for performance efficiency is made through			
-Bi-Act SDO (please refer to procedures to carry out a pilot project for s			
	Assessment for performance efficiency is made through a pilot project		
Post Effluent			
1 Effluent Polishing System Assessment for performance efficiency is made through a	a pilot project		