Defense & Law Enforcement & Security & Safety Equipment & Supplies UNSPSC: 46									
Fire protection- UNSPSC :4619									
Fire fighting equipment - UNSPSC :461916									
Oscillating water driven Monitors (Fire sprinkler systems)- UNSPSC : 46191602									
S No	**Parameters**	**Value 1**	**Value 2**	**Value 3**	**Value 4**	**Value5**	**Value 6**	**Validation**	**Unit**
GENERIC									
1	Oscillating water driven Monitors	Water Powered Oscillating Monitors are designed to automatically discharge over a specific design area upon system activation. These are suitable for use in high risk areas such as tank farm facilities, aircraft hangars, offshore, refineries, chemical plants, and heliports						M	
2	Water Powered Oscillating Monitors specification	EN	UL Certified as per NFPA	UL Listed as per UL 162		FM approved		G	
3	Self Oscillating Monitor	Water Monitor device, Light Weight designed to throw high volume of water in form of Jet, Fog & curtain in Oscillating Foarm to defuse Fire.							
4	Type of Monitor	Water monitor	Foam-cum-water monitor- With water/foam barrel with aspirating type nozzle		Foam-cum-water monitor- With non-aspirating type jet(spray nozzle)			G	
5	Inlet Diameter	63		75		100			mm
6	Discharge out let Diameter	32	38	50	63	75	100	G	mm
7	Flow Type	Fixed Flow			Variable Flow				
8	Discharge capacity for water / water and foam mixture at 7 kg/cm2 (± 5%)	250	500	750	1000	250-500-750	500-750-1000	G	GPM
9	Discharge range at 7Kg/cm² pressure at 30º nozzle angle in still air condition							TBD	Meter
10	Movement control	Manual with Hand Wheels			Automatic			G	
11	Manual override capabilities in both horizontal and vertical degree fields	Yes			No			F	
12	Arc of oscillation adjustable via 6 set points	Yes						M	
13	Speed of oscillation	adjustable from 0°-30°/sec. (24° / sec. @7 kg/cm2 (± 5%)						M	

Constructional							
1	Material of construction for body/ elbow / pipe / flange	Aluminium Alloy	SS 304	SS 316	SS 316 L	F	
2	Material of construction for swivel joint	Aluminium Alloy	SS 304	SS 316		F	
3	Material of construction for worm & worm shaft	SS 304				M	
4	Material of construction for hand wheel	SS 316				M	
5	Material of construction for drain connection	SS 304				M	
6	Nuts & Bolts Material	SS 304 / SS 316				M	
7	Pressure Gauge Material	SS 304 / SS 316				M	
8	Nozzle Type	Solid Jet Type Nozzle (Jet / Fog)	Non Aspirating, Aqua Foam Nozzle	Hollow Jet	Foam Barrel Type Nozzle	G	
9	Nozzle Media	Water	Water & Foam			F	
10	Nozzle Material	SS 3 SS 316 / SS 316L	ALUMINUM ALLOY HARD ANODISED				
11	Nozzle flow change over	Interrupted (After Changing of Nozzle)	Interrupted (After shuting down of flow)	Uninterrupted (without shuting down the flow)		F	
12	Connection	Threaded				M	
13	Foam Expansion	1:3 to 1:7	NA for water			F	
14	Foam Induction	Through JRCP	SELF TYPE	NA		F	
15	Pick up tube	PVC tube reinforced with high tensile steel wire helix as per ASTM D1785 Sch. 80 (3-4 M Long)				M	
16	Lazer Marking on Monitor	a) Manufacturer's name and his trade-mark, b) Year of manufacture, c) Discharge capacity, in l/min.				M	
17	Anti-corrosive treatment	All steel components subject to direct water contact shall be hot dip galvanized after fabrication to a minimum thickness of 0.03 mm. The aluminium parts subject to direct water contact shall be hard anodized to a minimum thickness of 0.015 mm.				M	

18	Painting	Fire Red						M	
Performance									
1	Horizontal Throw Rate for Water in Fixed Mode(minimum) at 7 kg/cm2	35	50	60	70			F	meter
2	Vertical Throw Rate for Water in Fixed Mode(minimum)at 7 kg/cm2	35	50	60	70			F	meter
3	HorizontalThrow Rate for Foam Mixture in Oscillating Mode(minimum) at 7 kg/cm2	53	60	64				F	meter
4	Vertical Throw Rate for Foam Mixture in Oscillating Mode (minimum) at 7kg/cm2	45	50	55				F	meter
5	Movement	Horizontal-360, Vertical - 105º (+90º,-15º)						F	
6	Hydraulic test duration for Flow test and Throw test At 21 kg/cm²	minimum 5 Minutes						M	minutes
7	Hydraulic test duration (For Monitor Body without Nozzle) At 23 kg/cm²	minimum 5 minutes						M	Minutes
Certification									
1	Availability of Type Test Report to prove conformity of declared parameters from NABL accredited / ILAC/Central Govt Lab	Yes						M	
2	Test Report Number							M	
3	Test Report Date							M	
4	Name of the Lab where test Conducted							M	
5	Test Reports to be furnished to the buyer on demand	Yes						M	
6	Warranty Period	2			5			G	year
7	Certification of Product	CE certified		FM certified		UL certified		M	
8	Certification number							TBD	
9	Listing of product	CE		FM		UL		M	