

S.NO.	OPERATION / PARAMETER	CHARACTERISICS / PARAMETERS	ACCEPTANCE CRITERIA & CERTIFICATION	VENDOR	TPIA	CLIENT/ PMC	REMARKS
Bought Out items & Equipment details							
1	Skid/Canopy Dimensional Report	Dimension Reports	As per Technical specification & Foundation GAD	P	W/R	R	
2	Odorant storage Tank						
2(a)	Chemical composition of Material	Review of MTC	MTC By supplier / Chemical composition as per standards Material	P	W/R	R	
2(b)	Hydrostatic Test at 3.9 kg/cm ² (bar(g))	Performance Check / inspection Report	ASME SEC VIII Div. 1 latest edition	P	W/R	W	
2(C)	Dye Penetrant test at Vendor's premises	Performance Check / Inspection Report	ASME Sec V latest edition	P	W/R	W	
3	Pressure Relief Valve						
3(a)	Review of Test Certificates	Review of MTC	Chemical composition of PRV as per API-520	P	W/R	W	
3(b)	Crack Pressure Test	Performance & seals Check / inspection Report	Cracking set pressure check as per Approved data sheet / Technical spec.	P	W/R	W	
4	Level Indicator & Transmitter						
4(a)	Review of Test Certificate	Review of MTC Certificates	As per Technical specification & Data sheet / EN 10204	P	W/R	W	
4(b)	Calibration Certificates	Review of Calibration certificates	As per Technical specification & Data sheet	P	W/R	W	
5	Pressure Gauge						
5(a)	Review of Test Certificate	Review of MTC Certificates	As per Technical specification & Data sheet / EN 10204	P	W/R	W	
5(b)	Calibration Certificates	Review of Calibration certificates	As per Technical specification & Data sheet	P	W/R	W	
6	Pressure Regulator						
6(a)	Review of Test Certificate	Review of MTC Certificates	As per Technical specification & Data sheet / EN 10204	P	W/R	W	
6(b)	Calibration Certificates	Review of Calibration certificates	As per Technical specification & Data sheet	P	W/R	W	
6(c)	Set pressure Test	Performance check	EN 10204	P	W/R	W	

7	Tubing's & Piping						
7(a)	Tubes & Piping	Chemical, Mechanical, Hydro test, Physical, Heat Chart	As per technical specifications/Data sheet	P	W/R	R	
8	Fittings	Visual, Dimensional, Fitment & Alignment as per P&ID shown, Physical Test, Chemical Test, Operational & functional, Leak test, Test certificates of bought out items	Technical specification & Approved data sheets / Chemical composition as per ASTM A629	P	W/R	R	
9	Valves						
9(a)	Review of MTC	Visual, Dimensional, Fitment & Alignment, Physical Test, Chemical Test, Operational & functional, Leak test, Test certificates of bought out items, Cv verification w.r.t data sheet	Technical specification & Approved data sheets / Chemical composition as per ASTM-A-479	P	W/R	R	
10	Solenoid Valve & manifold	Performance report, Fitment & alignment , Test certificates, Compliance report , chemical & physical reports	As per OEM specifications/Data sheet	P	W/R	R	
11	Pressure Transducer & Transmitter	Location as per P&ID, Fitment & alignment, calibration report, Test certificates of bought out items, pressure test, Operational & functional, current consumption w.r.t pressure, IP ratings, supply voltage, Output signal voltage	Technical specification & Approved data sheets	P	W/R	R	
12	Check Valve	Chemical, Mechanical, Hydro test, Physical, Heat chart	As per Technical specification/Data sheet/ calculation report	P	W/R	R	
13	Pressure Regulating Valve/Direction & flow control valve	Test/compliance/performance/ warranty certificates	As per OEM specifications/Data sheet	P	W/R	R	
14	Flame arrester	Test report, compliance report, Routine test ,Physical & chemical report	As per OEM specifications/Data sheet	P	W/R	R	
15	ESD & Hooter	Fitment & alignment , Test certificates, Compliance report , chemical & physical reports	As per OEM specifications/Data sheet	P	W/R	R	
16	Solenoid Valve & manifold	Performance report, Fitment & alignment , Test certificates, Compliance report , chemical & physical reports	As per OEM specifications/Data sheet	P	W/R	R	
17	Pneumatic Actuators	Performance report, Fitment & alignment , Test certificates, Compliance report , chemical & physical reports	As per OEM specifications/Data sheet	P	W/R	R	

18	Flameproof Junction Box	Test report, compliance report, Physical & chemical report	As per OEM specifications/Data sheet	P	W/R	R	
19	Control panel	Test report, compliance report, Routine test ,Physical & chemical report	As per OEM specifications/Data sheet	P	W/R	R	
20	Vacuum pump	Performance report, Fitment & alignment , Test certificates, Compliance report , chemical & physical reports	Technical specification & Approved data sheets	P	W/R	R	
21	SS Needle / Block & Bleed valve	Chemical, Mechanical, Hydro test, Physical, Heat Chart	As per Technical specification/Data sheet	P	W/R	R	
22.	Gas filter	Visual, Dimensional, Fitment & Alignment, Physical Test, Chemical Test report, Operational & functional, Leak test, Hydro test, filter sizing calculation	Technical specification / Approved data sheets/ Filter Sizing calculation sheet	P	W/R	R	
23.	Filter Elements	Visual, Dimensional, Fitment & Alignment, Test certificates of bought out items Operational & functional, Leak test, Hydro test, filter sizing & pressure drop calculation with elements	Technical specification / Approved data sheets/ Filter Sizing calculation sheet	P	W/R	R	
24.	Pressure switch	Performance report, Fitment & alignment , Test certificates, calibration, Compliance report , chemical & physical reports	As per OEM specifications/Data sheet	P	W/R	R	
25.	Package CCOE approval certificates	Valid PESO package approval certificates, Number plate embossing with PESO no. & other details.	As per Technical specification & approved Name plate	P	W/R	R	
26.	All electrical PESO/ATEX/DEKRA certificates	Valid PESO certificates of all electrical & hazardous components	As per PESO certificates	P	W/R	R	
Complete Assembly Simulation & Testing Details							
27.	Complete Assembly @ pressure Leak Test	Leak Test at 6 kg/cm2(g)	Technical specifications & OEM test procedure.	P	W	W	
28.	Complete Assembly @ static pressure Leak Test	Leak Test Throughout on all Joints By using Soap solution and Holding Time as per OEM Test procedure	Technical specifications & OEM test procedure.	P	W	W	
29.	Performance of complete odorizing unit	Performance test as per Approved Control Philosophy/ Logic diagram	Technical specifications & Approved Control Philosophy	P	W	W	

Notes:

1. The above testing and acceptance criteria are minimum requirements; however, manufacturer shall ensure that the product shall also comply to the additional requirements as per particular Technical Specification (PTS) and Data Sheet.
2. The supplier shall submit their own detailed QAP prepared on the basis of above / Technical specification for approval of Owner/Owner's representative.
3. Supplier shall submit calibration certificates of all instruments/Equipment to be used for inspection and Testing to TPIA with relevant procedures and updated standards for TPIA review/Approval. All reference codes / documents shall be arranged by vendor for reference of TPIA at the time of inspection.
4. Owner / Owner's representative include TPIA will have the right to inspect activity of manufacturing at any time.
5. TPIA along with Owner / Owner's representative shall review/approval all the documents related to QAP/Quality manuals/Drawings etc., submitted by supplier.
6. Contractor shall in coordination with supplier/sub vendor shall issue detailed production and inspection schedule indicating the dates and the location of facilities Owner/Owner's representative and TPIA to organize inspection.
7. Special manufacturing procedure have to be specially approved or only previously approved procedures have to be used, in case of conflict between specification more stringent condition shall be applicable.
8. The supplier shall submit separate control logic sheet along with actuator/SOV operation philosophy.