


 ISO 9001 : 2008		CUSTOMER	POWER AND WATER UTILITY COMPANY FOR JUBAIL & YANBU (MARAFIQ)				 		
		PLANT LOCATION	Yanbu Industrial City, KSA						
		PROJECT CONTRACT NUMBER/TITLE	CONTRACT NO. 7200.012.306 - INSTALLATION OF 48,000m ³ /day WASTE TREATMENT PLANT (IWTP-II) AT MARAFIQ - YANBU						
ITP FOR HVAC(HEATING VENTILATION AND AIR CONDITIONING) SYSTEM INSTALLATION								Rev No: A	
DOC.NO: 12306-ME-A4-2702								DATE:20-02-2012	
ITEM No.	Inspection & Testing Description	Acceptance Criteria	Reference Document	QC Checklist					Remarks
					AKWAN	Q	M.E	MFQ	
MATERIAL INSPECTION									
1	Equipment/Material Receiving inspection for HVAC equipment,duct & accessories,hanger/supports, Insulation, air terminal devices,Flexible Connection, volume/firedampers,Electrical InstrumentMaterials.	RC Standard 15820/15670,Material Approval submittal,Drawing,Relavant applicable Industrial Codes/standars.	Drawing,Manufacturer Instruction, Approved Material Submittal,Purchase Order,Project Specification, QCP/M.S	QCF-001	P	W	S	S	
2	Storage,handling & Preservation of Above material/Equipment for HVAC System.	Project Specification, RC Standard 15820/15670,Manufacturer instruction.	Project Specification,,Manufactur er Recommendation.	QCF - 113	P	W	S	S	
DUCT SYSTEM INSTALLATION									
3	3.1).Duct Material conforming to specification. 3.2).Duct Layout and Elevation. 3.3).Duct Installation as per approved drawings. 3.4)Hangers and support installation support spacing,ducting route,reinforcement & hangers. 3.5)Check joints & Application of duct Sealant. 3.6). Visual check of connection tightness. gaskets & seals. 3.7)Visual Inspection of duct & its accessories conforming to the project. 3.8).Check accessories & duct free from damage. 3.9).Duct Insulation material are conforming to the project specification. 3.10).Duct insulation installation as per drawing, check the insulation band spacing as per drawing.	RC Standard 15810/15820,QCP Project specification,Relavant applicable Industrial codes/standards Manufacturer Installation manual.	Manufacturer recommendation,HVAC Duct construction standards,SMACNA, Project specification, Drawing.	QCF - 115 QCF - 116	P	W	S	S	

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4	Duct accessories, duct heater, Volume Damper,sound alternator,Flow grid inspection,fire damper.	RC Standard 15820/15670,SMACNA Standards,Project specification, drawing,QCP Relavant applicable industrial code & standards, Manufacturer installation manual.	Approved Drawing,SMACNA StandardQCP	QCF - 117	P	W	S	S	
5	Installation of air terminal device, Flexible connections.	RC Standard 15840,SMACNA Standards,Project specification, drawing,QCP Relavant applicable industrial code & standards, Manufacturer installation manual.	Approved Drawing,SMACNA StandardQCP	QCF - 118	P	W	S	S	
6	Functional test of Fire Damper.	Project Specification, RC Standard 15820, Codes/relavant applicable Industrial codes & standards, Manufacturer manual.	IFC Drawing,Manu Instru,RC Standars 15820,Project Specification.	AS PER VENDOR FORM	P	W	W	S	
7	HVAC Electrical & Instrumentation Material Receiving Visual Inspections	Project Specification	RC Specification	AS PER ELECTRICAL ITP	P	W	S	S	

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DUCT INSULATION / CLADDING										
8	8.1) Material Thickness, Approved Insulations / Cladding Sheet. 8.2) Material Delivered at Site is free from Defects & as per specifications. 8.3) Check duct Surface for Clean & dry prior to Insulations. 8.4) Size of fastening Screws. 8.5) workmanship. 8.6) Check sealant. 8.7) Correct flow direction. 8.8) Check all the joints are sealed properly. 8.9) Visual Inspection of conditions of air cutlets & inlets & direction of grills.	RC Standard 15820/15670,Project specification, drawing,QCP Relavant applicable code & standards Manufacturer instructions manual.	SMACNA HVAC Duct construction Standard,Purchase Order,Manufacturer Recommendation.	QCF-120	P	W	W	S		
LEAK TEST INSPECTION										
9	Check for Leak Test for Duct Installation, by conducting light test Method	RC Standard 15820 / 15670,QCP ,Project specification,Relavant applicable codes/standards Manufacturer Instruction manual.	Vendor recommendation,SMACNA Standards, RC Standard.	QCF-119	P	W	W	S		
EQUIPMENT INSTALLATION										
10	Equipment Foundation Location Check as per Approved Drawing 10.1) Verify unit Installation is as per approved Drawing, Check Vibration pad Place Beneath the Package Equipment installation. 10.2) Check Orientation & Level is per IFC Drawing. C) Check Condensate Drain System is as per approved drawing.	RC Standard 15820/15730,QCP Project specification,Relavant applicable Industrial codes/standards Manufacturer Installation manual.	Approved Drawing.	QCF - 114	P	W	S	S		

