

MATERIAL APPROVAL REQUEST FORM

GENERAL INFORMATION			
Issuer: Mr. Carlos Gonzalez Gabarda, FCC-EM – Line 5 & 6 – MEP			
Issue Date: 19-Nov-2017	Submittal N°: M3-FCI-MAR-EME00-GEN-000059	REV N°: AB	
Requirement N°: Air Ionization	WBS N°:		
LOCATION WHERE MATERIAL WILL BE USED			
Line 4 <input type="checkbox"/>	LINE 5 <input type="checkbox"/>	LINE 6 <input type="checkbox"/>	All LINES <input checked="" type="checkbox"/>
Exact location: All Locations			
Structure: Mechanical			
Chainage:			

SUPPLIER / MANUFACTURER			
Name: Petra.	Approved <input type="checkbox"/>	To be approved <input checked="" type="checkbox"/>	Not Applicable <input type="checkbox"/>
Approval request reference:			
Comments:			

MATERIAL				
Material description: Ionization Units				
Origin:	Saudi Arabia <input type="checkbox"/>	Foreigner <input checked="" type="checkbox"/>		
Sample Provided :	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>		
Documents Provided			YES	NO
Material Specifications (Physical, Mechanical, Electrical, Chemical, etc...)(Employer Requirements)			<input checked="" type="checkbox"/>	<input type="checkbox"/>
Material Certification (International Standards, Test Methods, Target & Tolerances)			<input checked="" type="checkbox"/>	<input type="checkbox"/>
Complete & Comprehensive Compliance/Comparison Matrix			<input checked="" type="checkbox"/>	<input type="checkbox"/>
Quality Control and Acceptance Sampling			<input type="checkbox"/>	<input checked="" type="checkbox"/>
Safety considerations and requirements			<input type="checkbox"/>	<input checked="" type="checkbox"/>
Environmental considerations and requirements			<input type="checkbox"/>	<input checked="" type="checkbox"/>
Typical Details Drawings			<input checked="" type="checkbox"/>	<input type="checkbox"/>
Catalog and/or Technical Data Sheet			<input checked="" type="checkbox"/>	<input type="checkbox"/>
Photographs and/ or Technical Illustration			<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other (Specify): Project Schedule.			<input checked="" type="checkbox"/>	<input type="checkbox"/>

FAST SUBMISSION	
Representative: Mr. CARLOS GONZALEZ, FCC-EM PROJECT DIRECTOR, Mr. INCHAE SONG, SAMSUNG C&T, PROJECT MANAGER	Date: 19-Nov-2017
Signature:  21/11/17  22/Nov/2017	

Riyadh Metro Project Package 3
COMMENTS RESOLUTION SHEET

OVERALL REVIEW CODE	A - Reviewed - Work may proceed.			OVERALL STATUS	
Document Ref. No.	M3-FST-WTRAN-070688 (WF-125727) M3-FST-WTRAN-066833 (WF-117894)	Comments Issued on	10-Dec-17	Date CRS Responded by Contractor	
Document Title	Submission of Material Approval Request - Ionization Units, Supplier / Manufacture: Petra / Petra Rev. AB (M3-FCI-MAR-EME00-GEN-000059)	Document Type	Material Approval Request		
Date Received	04-Dec-17	Lead Reviewer	Zafar Ali		
Originator	CJV - FAST	CRS Rev.	R1	CRS Ref.: M3-FCI-CRS-EME00-GEN-000081	

No.	Section/ Page/ Drawing No.	PM/CM Comments	Doc. Rev.	By	Contractor Response	By	Review Code	Status
Mechanical Comments								
1	M3-FCI-MAR-EME00-GEN-000059	<p>First cycle comment :</p> <ol style="list-style-type: none"> Catalog provided is for Plasma and very old reports of Bentax. Petra submittal Schedule shows no relation to these manufacturers Bentax models. Provide reference to the actual manufacturer's model Provide certified documentation from an independent international testing agency which shows the ER values as a minimum Provide latest reports Provide surface flammability Test report as per UL-94-SVA and BS 476, part 6, for all materials with in the air stream. Provide proof of delivering Ozone less than 0.05 ppm. <p>Second cycle comment : Noted.</p>	AA/AB	SMZ	<p>First cycle response :</p> <ol style="list-style-type: none"> Attached are more recent reports. And please understand that Plasma Air changed its name from Bentax in 2007 for marketing reasons (Appendices A to E) See attached Appendix (F) LAWN_Environmental_Test_Report See above (Appendices A to E) See attached UL test certificates indicating that all models were tested and had satisfactory results for UL 2043 – Test for Heat and Visible Smoke Release. UL 94 is a flammability test only for individual components. UL 2043 is a flammability test for the entire piece of equipment. It is a superior test protocol. (Appendix A) Find attached 2 ozone tests illustrating essentially no ozone is measured in the occupied space. (Appendix C) <p>Second cycle response :</p>		A	
QA Comments								
2	M3-FCI-MAR-EME00-GEN-000059	<p>First cycle comment : Clarify the name of Manufacturer and Supplier for Ionization unit.</p> <p>Second cycle comment : Noted.</p>	AA/AB	SS	<p>First cycle response : Manufacture is Plasma Air / Supplier is khalid Asad Jamjom</p> <p>Second cycle response :</p>		A	
3	M3-FCI-MAR-EME00-GEN-000059	<p>First cycle comment : Certification of Conformity is not provided for Electro-Magnetic-Compatibility Standards (EMC-Test).</p> <p>Second cycle comment : Noted.</p>	AA/AB	SS	<p>First cycle response :</p> <p>Radiated noise will be contained by metal enclosure and metal ducts. AC has a noise suppressing capacitor. More importantly, any and all tests required for EMC in the product certifications under UL 867, UL 1995 and UL 2043 have been satisfactorily completed. In other words, if UL determined that the tests were required, we were tested for them (Appendix A)</p> <p>Second cycle response :</p>		A	
4	M3-FCI-MAR-EME00-GEN-000059	<p>First cycle comment : Certification of Conformity is not provided for safety standard for IP 66 for The housing of the high voltage transformers including switches, supply power connectors.</p> <p>Second cycle comment : Noted.</p>	AA/AB	SS	<p>First cycle response :</p> <p>IP 66 is for a "dust tight" enclosure - under a vacuum for 8 hours and water from powerful jets from any direction. UL 867 6.15 requires equivalent testing related to resisting abuses likely to be subjected; however, specifically for this project, the enclosure of the 50 series ionizers will be gasketed and sealed creating a rating equivalent to IP66. (Appendix A)</p> <p>Second cycle response :</p>		A	
5	M3-FCI-MAR-EME00-GEN-000059	<p>First cycle comment : Latest test reports of certificates shall be submitted for approval of air ionization modules to deliver ozone, from Independent laboratory.</p> <p>Second cycle comment : Noted.</p>	AA/AB	SS	<p>First cycle response :</p> <p>See attached ozone tests (Appendix C)</p> <p>Second cycle response :</p>		A	
6	M3-FCI-MAR-EME00-GEN-000059	<p>First cycle comment : Site tests shall be carried out to verify the ozone level in the occupied zones.</p> <p>Second cycle comment : Noted.</p>	AA/AB	SS	<p>First cycle response :</p> <p>Manufacturer will support Contractor in field testing</p> <p>Second cycle response :</p>		A	
Electrical Comments								
7	M3-FCI-MAR-EME00-GEN-000059	<p>First cycle comment : No Electrical Comments.</p> <p>Second cycle comment :</p>	AA	MHF				

RAMPED - PMCM		D&B CONTRACTOR	
Lead Reviewer	No Objection By	Response By	Approved By
Name: Zafar Ali Designation: Material's Engineer	Name: Henche Ignacio Designation: stations manager	Name: Designation:	Name: Designation:
Sign:	Sign:	Sign:	Sign:
Date: 10 December 2017	Date: 10 December 2017	Date:	Date:

Disclaimer : Permission to proceed shall not constitute acceptance or approval of design details, calculations, analyses, test methods or materials developed or selected by the Contractor and shall not relieve the Contractor from full compliance with Contractual Obligations.

The contractor is liable to obtain from the Engineer and the Client, approval of all the proposed designs, materials, as well as the subcontractors and suppliers he proposes to use on the Project. The result of this review does not allow the contractor to proceed without getting all of the requisite approvals. This is a mandatory contractual requirement. For clarity FAST has the obligation before any construction proceeds to:- Get the approval of the design from the Engineer.- Get the approval of the proposed material from the Engineer.- Get the approval of the supplier from the Engineer.- Get the approval of the Sub Contractor from the Engineer. The contractor is only authorized to proceed when he has completed all of the above steps.

Status

Closed
Agree to Close
Open

