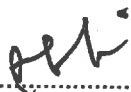


Our ref: BSEN/MS/15/R007  
Job Ref: ADM/14/8813Issued Date: 06-01-2015  
Page: 1 of 6

## TEST REPORT

- 1.0 Test Requested by Client : Microscopic Examination
- 2.0 Tested For : **DJI Internationals Pentens Holdings Sdn Bhd**  
No. 6, Jalan TPP 5/7  
Taman Perindustrian Puchong  
47100 Puchong  
Selangor Darul Ehsan
- 3.0 Project : **Construction & Completion of Service Apartment for Sunway M1**  
**(Plot F23), On Part of Lot PTD 183276, MEDINI Zon F, Mukim Pulau**
- 4.0 Method of Testing : **Scanning Electron Microscope / Energy Dispersive X-ray**  
**Flourescence Spectroscopy (SEM/EDXRF)**
- 5.0 Sample Type : Concrete cube
- 6.0 Date received : 22-Dec-2014
- 7.0 Remarks : Test was conducted by DSI Advanced Analysis Laboratory (Service  
Ref. No: I14212192)

for and behalf of BSEN TEST SDN. BHD.

RICKY TING HONG YEW  
Technical Manager

Prepared by: thy

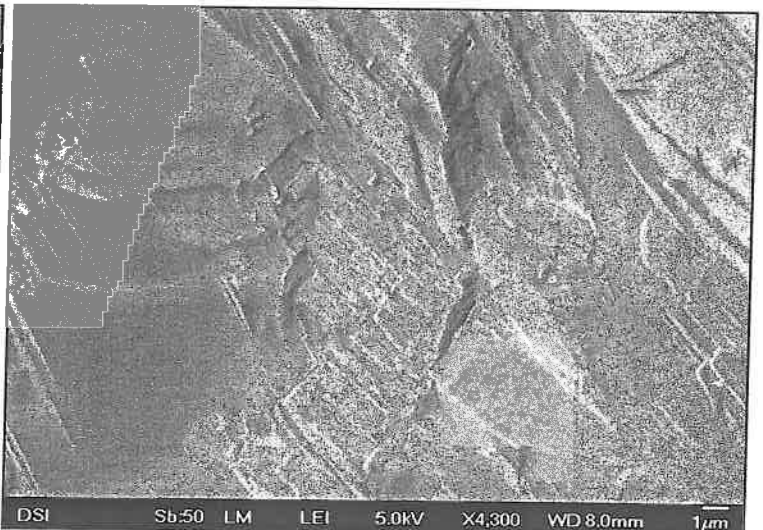
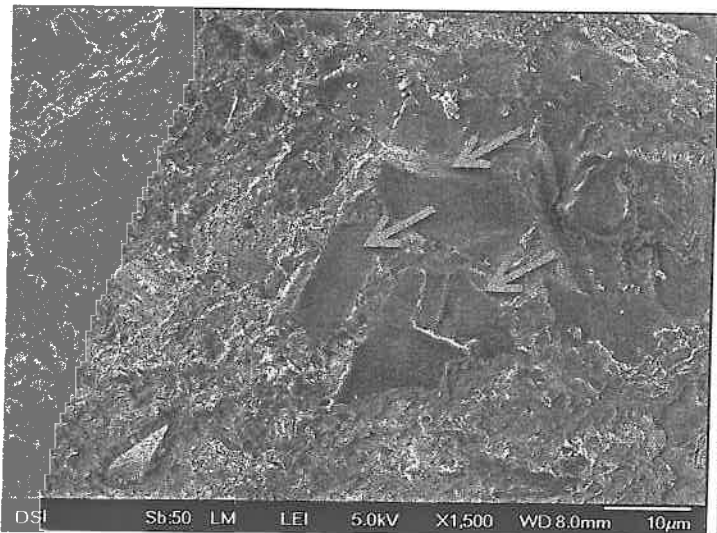
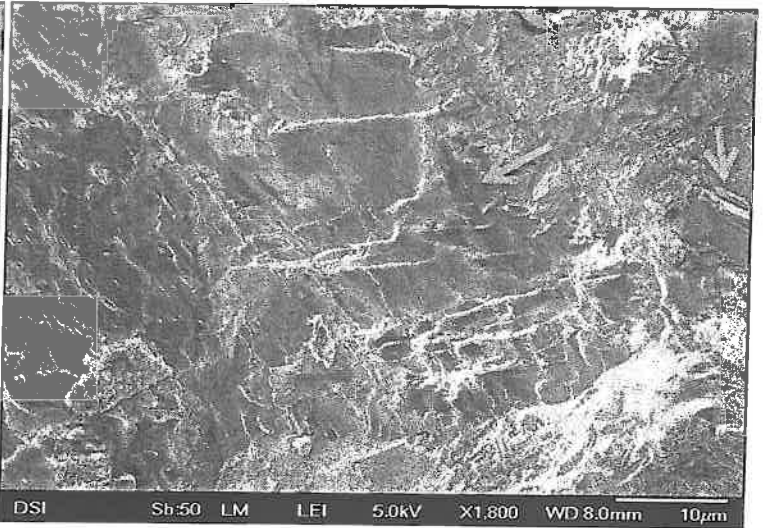
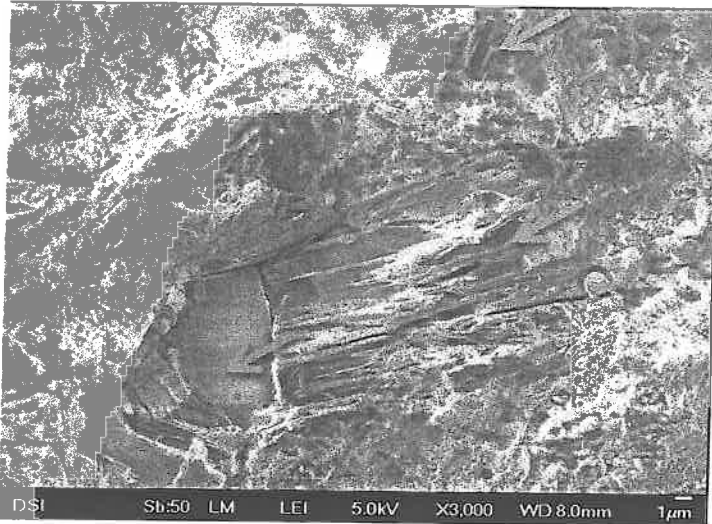
**TERMS & CONDITIONS:**

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**TEST RESULTS:**

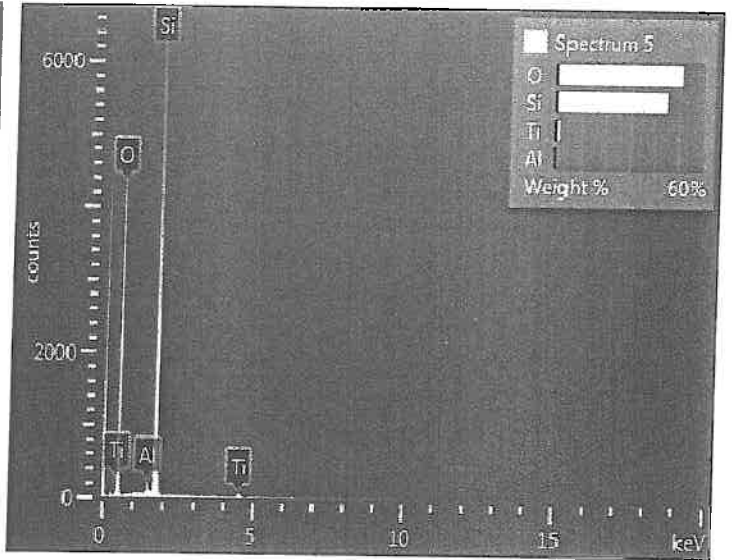
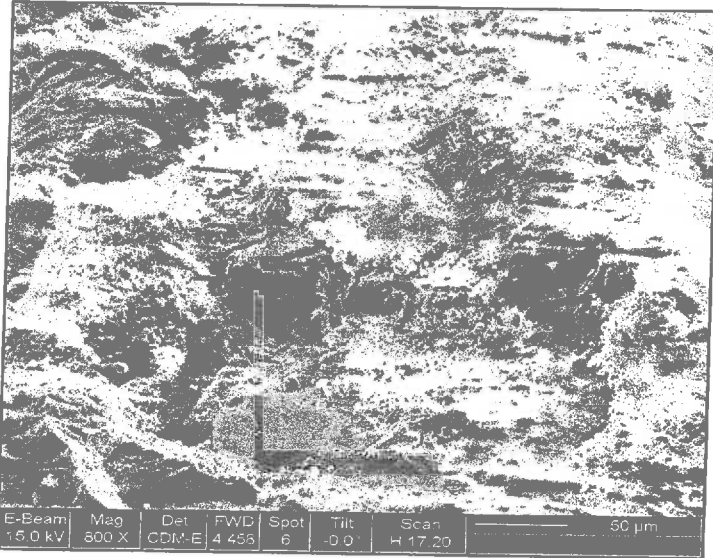
- Test Objectives:**
- 1) To confirm crystalline phase in the concrete cube
  - 2) Semi-quantification of the crystalline phase

**SEM images where crystalline phases are found (indicated by arrows)**

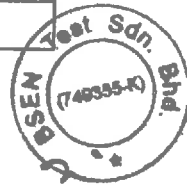


**TEST RESULTS:**

**Semi-quantification of the crystalline phase by EDX**

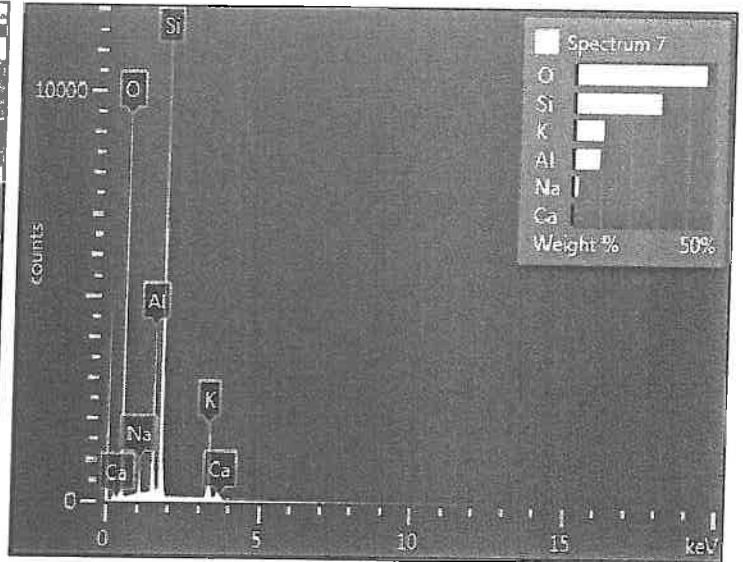
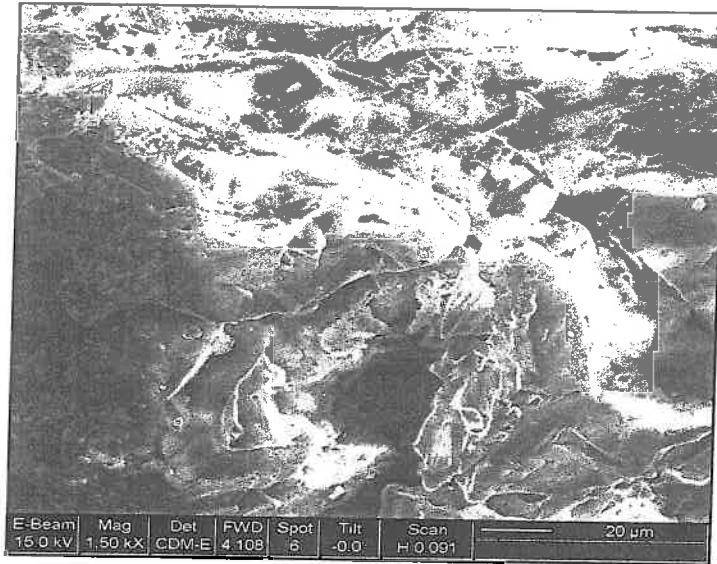


Element	Line Type	Wt%	Atomic %	Standard Label	Factory Standar
O	K series	53.12	70.33	SiO2	Yes
Na	K series	1.2	1.1	Albite	Yes
Mg	K series	0.67	0.58	MgO	Yes
Al	K series	4.26	3.34	Al2O3	Yes
Si	K series	14.12	10.65	SiO2	Yes
S	K series	0.59	0.39	FeS2	Yes
K	K series	2.87	1.55	KBr	Yes
Ca	K series	21.83	11.54	Wollastonite	Yes
Fe	K series	1.35	0.51	Fe	Yes
<b>Total:</b>		<b>100</b>	<b>100</b>		

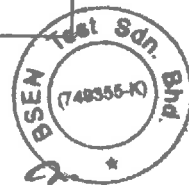


**TEST RESULTS:**

**Semi-quantification of the crystalline phase by EDX**

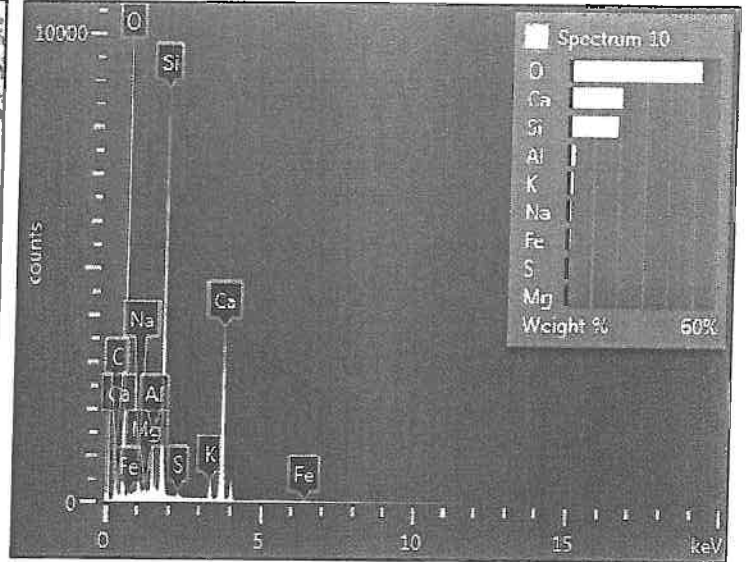
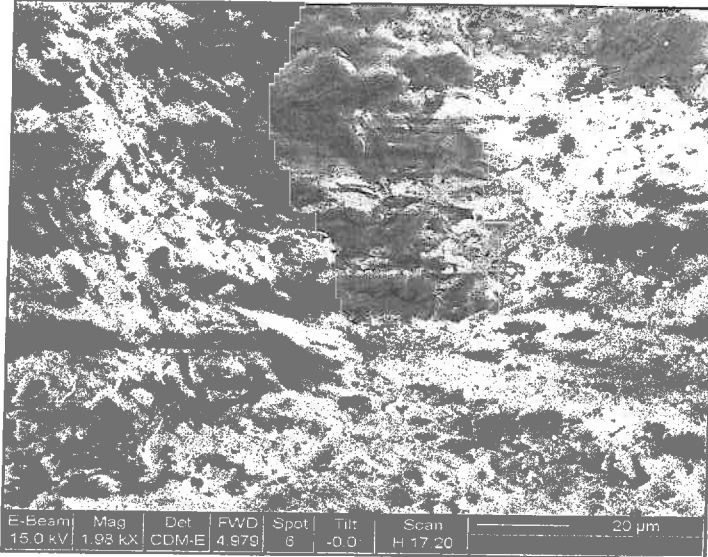


Element	Line Type	Wt%	Atomic %	Standard Label	Factory Standar
O	K series	46.45	61.42	SiO2	Yes
Na	K series	2.2	2.03	Albite	Yes
Al	K series	9.32	7.31	Al2O3	Yes
Si	K series	30.71	23.13	SiO2	Yes
K	K series	10.54	5.71	KBr	Yes
Ca	K series	0.78	0.41	Wollastonite	Yes
<b>Total:</b>		<b>100</b>	<b>100</b>		

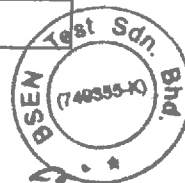


**TEST RESULTS:**

**Semi-quantification of the crystalline phase by EDX**



Element	Line Type	Wt%	Atomic %	Standard Label	Factory Standard
O	K series	52.16	69.12	SiO2	Yes
Na	K series	1.47	1.36	Albite	Yes
Mg	K series	0.21	0.18	MgO	Yes
Al	K series	2.6	2.04	Al2O3	Yes
Si	K series	19.29	14.57	SiO2	Yes
S	K series	0.27	0.18	FeS2	Yes
K	K series	2.01	1.09	KBr	Yes
Ca	K series	20.86	11.04	Wollastonite	Yes
Fe	K series	1.12	0.43	Fe	Yes
<b>Total:</b>		<b>100</b>	<b>100</b>		



BSEN/MS/15/R007

Issued Date : 06-01-2015

Job Ref: ADM/14/8813

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**CONCLUSIONS & FINDINGS**

1. Crystalline phase of the concrete cube can be identified.
2. EDX shows the crystalline phase contains mainly O, Si, Ca (some location) and other small amounts of elements such as S, Al, K, Mg, Na.

Prepared by  
Lee Way Liang  
Assistant Chemist

Certified by,



Ricky Ting Hong Yew  
Technical Manager

