



# TEST REPORT

(This Report is issued subject to the terms & conditions set out below)

## MAGNETIC PARTICLE TESTING (MT)

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Our Ref. : **NI-8500170018/MMJ**

Date : 15/07/2021

Customer Ref. : -

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**Customer** : **OPAI (SINGAPORE) PTE LTD**  
1 BUKIT BATOK CRESCENT  
#08-14, (S) 658064  
WCEGA PLAZA  
Attention : **Mr Francis Ang**

### Job Details

Project Title : **BJT PROJECT**

Date of Test : 13 July 2021

Location of Test : 38, Joo Koon Road

### Test Requirements

Standard / Code : BS EN ISO 17638 - 2016

Test Procedure : NDT/TP/MT/30 (Rev.3)

Acceptance : BS EN ISO 23278 - 2015 (Table 1)

### Details of Item(s) Tested

Description : Brackets Steel Weld Joints (GFRC Panel Frame)

Material : Carbon Steel

Surface Temp : Ambient

Thickness : -

Surface Condition : As Welded

Type of Weld / Welding Process : Fillet / MIG

### Equipment

Description : Electromagnetic Yoke

Serial Number : 15553

Make / Model : Electro-Spect Testing Systems Inc / ES-X Ferrous Pro

Current Type : AC

### Test Media

Contrast Medium : SHERWIN / CP-2

Batch No. : 1504-400-39-1220

Particles : SHERWIN / BO-1

Batch No. : 1503-400-31-1220

### Method of Testing

Test Method : Wet (Visible)

Magnetizing Method : Continuous

Viewing Condition : White Light Intensity of min 100 fc (1000Lx)

### Post-Examination

Cleaning : NA

Demagnetization : NA

**Testing Officer** : Mohamed Mubin Bin Amad Jais

**Qualification** : ASNT Level II

**Test Results** : Refer next page for test results and photos of items tested.

**Note** : This test report consists of results for magnetic particle testing only and does not cover the visual examination acceptance of the welds and its sizes.

Abdul Rahim b Hassan  
PCN Level 2  
(Supervisor)

Maung Tint Lwin  
Manager  
(NDT / Inspection)  
Mechanical Technology Division

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LA-1993-0051-C LA-1998-0144-D  
LA-1993-0067-G LA-2000-0181-F  
LA-1994-0068-A LA-2012-0519-E  
LA-1987-0001-B LA-1987-0001-B-1

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Test Results:

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No.	Weld Identification	Tested Length (mm)	Evaluation			Results	Remarks
			Distance from Datum (mm)	Discontinuity Length (mm)	Discontinuity Type		
#	Brackets Steel Weld Joints (GFRC Panel Frame)						
1	BAY-1						
	Mark No. 1-13 (Jt 1 to Jt 3)	-	-	-	A	S	Refer to photos
2	BAY-2						
	Mark No. 2-14 (Jt 1 to Jt 4)	-	-	-	A	S	Refer to photos
	Mark No. 2-9 (Jt 1 to Jt 4)	-	-	-	A	S	Refer to photos
3	BAY-3						
	Mark No. 3-10 (Jt 1 to Jt 4)	-	-	-	A	S	Refer to photos
	Mark No. 3-12 (Jt 1 to Jt 4)	-	-	-	A	S	Refer to photos
4	BAY-4						
	Mark No. 4-10 (Jt 1 to Jt 4)	-	-	-	A	S	Refer to photos
	Mark No. 4-12 (Jt 1 to Jt 4)	-	-	-	A	S	Refer to photos
	Mark No. 4-13 (Jt 1 to Jt 3)	-	-	-	A	S	Refer to photos
	Note: The above item tested was carried on accessible area only.						

Legend :

S Satisfactory

U Unsatisfactory

Type of Discontinuities :

A No Significant Discontinuity

D Lack of Fusion

G Slag Line

J Undercut

B Porosity

E Incomplete Penetration

H Longitudinal Crack

K Transverse Crack

C Wormhole

F Slag Inclusions

I Crater Crack

L Cluster Porosity





**PHOTOS ATTACHED**

