

**AIRCRAFT WEIGHT AND C.G DETERMINATION**

REPORT NO : 02/WB/SNB/XI/2021  
DATE : 16 NOVEMBER 2021

AIRCRAFT REGISTRATION : PK-SNC  
AIRCRAFT TYPE : PILATUS PORTER PC-6  
AIRCRAFT SERIAL NUMBER : 1016  
PROPERTY OF : PT. SMART CAKRAWALA AVIATION  
PLACE OF WEIGHING : PILATUS FACTORY  
REASON OF WEIGHING : INITIAL  
CONFIGURATION : CARGO  
PERFORMED BY : PILATUS FACTORY  
SIGNED: DATE: 19 OCT 2021  
CHECKED BY : PILATUS FACTORY.  
SIGNED: DATE: 19 OCT 2021

**RESULTS**

<b>EMPTY WEIGHT</b>	<b>: 1449.2Kg</b>
<b>EMPTY C.G FROM DATTUM LINE</b>	<b>: 3.377M</b>
<b>INDEX MAC %</b>	<b>: 19.84 %</b>
<b>VALID UNTIL</b>	<b>: OCTOBER 2026</b>

**WEIGHING EQUIPMENT**

PART NUMBER	: UNK
SERIAL NUMBER	: UNK
VALIDATION	: UNK

APPROVED BY:



**YANUAR ABDUL FATAH**  
**CHIEF INSPECTOR**

**TABLE 1**

DESCRIPTION OF ACTION PERFORMED	WEIGHT (kg)	CG ARM (m)	MOMENT mKg
1 <sup>st</sup> ROW PAX SEAT REMOVED	9	3.90	35.1
2 <sup>nd</sup> ROW PAX SEAT REMOVED	9	4.60	41.4
3 <sup>rd</sup> ROW PAX SEAT REMOVED	13	5.40	70.2
<b>TOTAL</b>	<b>31</b>	<b>4.73</b>	<b>146.7</b>

**TABLE 2**

AIRCRAFT WEIGHT CALCULATION	WEIGHT (kg)	CG ARM (m)	MOMENT mKg
AIRCRAFT EMPTY WEIGHT	1480.2	3.406	5041
WEIGHT FROM TABLE 1 ( - )	31	4.73	146.7
<b>TOTAL</b>	<b>1449.2</b>	<b>3.377</b>	<b>4894.3</b>

### CENTER of GRAVITY

$$\text{C of G Position from datum} = \frac{\text{TOTAL MOMENT}}{\text{TOTAL WEIGHT}}$$

$$= \frac{4894.3}{1449.2}$$

$$= 3.377\text{m}$$

### LOCATING PERCENT MAC

$$\text{As \% MAC} = \frac{\text{C of G} - 3.0\text{ m}}{1.9\text{ m}} \times 100$$

$$= \frac{3.377 - 3.0\text{ m}}{1.9\text{ m}} \times 100$$

$$= 19.84\%$$

<b>PRIOR TO WEIGHT AND BALANCE CHECK</b>				
<b>AIRCRAFT TYPE</b> : PILATUS PORTER PC-6 <b>AIRCRAFT REGISTRATION</b> : PK-SNC <b>AIRCRAFT SERIAL NUMBER</b> : 1016 <b>DATE OF WEIGHING</b> : 19 OCTOBER 2021				
NO.	DESCRIPTION	APPL	CHECK	REMARKS
<b>A</b>	<b>STANDARD ITEMS</b>			
1	All fuel tank EMPTY or recorded / FULL	✓	Empty	-
2	All engine oil tanks EMPTY or recorded / FULL	✓	Full	-
3	All others oil tanks FULL (included Propeller, Starters, Gearbox and Air Cycle)	✓	Full	-
4	Hydraulic tanks FULL	✓	Full	-
<b>B</b>	<b>STANDARD EQUIPMENTS</b>			
1	Technical supply or Flight Kits	x	N/A	-
2	Aircraft Books, Manuals and Papers	x	1 Bag	-
3	AXE	x	1 EA	-
4	Fire Extinguisher	✓	1 EA	-
5	First Aid Kit	x	1 Box	-
6	Life Vests	x	8 EA	-
7	Life Raft	x	N/A	-
8	Survival Kit	x	N/A	-