

**AIRCRAFT WEIGHT AND C.G DETERMINATION**

**REPORT NO : 02/WB/SNB/VIII/2021**

**DATE : 16 AUGUST 2021**

AIRCRAFT REGISTRATION	: PK-SNB	
AIRCRAFT TYPE	: PILATUS PORTER PC-6	
AIRCRAFT SERIAL NUMBER	: 1015	
PROPERTY OF	: PT. SMART CAKRAWALA AVIATION	
PLACE OF WEIGHING	: PILATUS FACTORY	
REASON OF WEIGHING	: INITIAL	
CONFIGURATION	: CARGO	
PERFORMED BY	: PILATUS FACTORY	
	SIGNED:	DATE: JULY 2021
CHECKED BY	: PILATUS FACTORY.	
	SIGNED:	DATE: JULY 2021

**RESULTS**

<b>EMPTY WEIGHT</b>	<b>: 1451.6 Kg</b>
<b>EMPTY C.G FROM DATTUM LINE</b>	<b>: 3.379 M</b>
<b>INDEX MAC %</b>	<b>: 19.94 %</b>
<b>VALID UNTIL</b>	<b>: JULY 2026</b>

**WEIGHING EQUIPMENT**

PART NUMBER	: UNK
SERIAL NUMBER	: UNK
VALIDATION	: UNK

APPROVED BY:

A handwritten signature in black ink, appearing to read 'Yanuar', is written over a red circular official stamp. The stamp contains the letters 'CI' and some other illegible text.

**YANUAR ABDUL FATAH  
CHIEF INSPECTOR**

## AIRCRAFT WEIGHT & BALANCE

### 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	1482.6	3.407	5052.14
WEIGHT FROM TABLE 1 ( - )	31	4.73	146.7
<b>TOTAL</b>	<b>1451.6</b>	<b>3.379</b>	<b>4905.44</b>

### CENTER of GRAVITY

$$\begin{aligned}
 \text{C of G Position from datum} &= \frac{\text{TOTAL MOMENT}}{\text{TOTAL WEIGHT}} \\
 &= \frac{4905.44}{1451.6} \\
 &= 3.379\text{m}
 \end{aligned}$$

### LOCATING PERCENT MAC

$$\begin{aligned}
 \text{As \% MAC} &= \frac{\text{C of G} - 3.0 \text{ m}}{1.9 \text{ m}} \times 100 \\
 &= \frac{3.379 - 3.0 \text{ m}}{1.9 \text{ m}} \times 100 \\
 &= 19.94 \%
 \end{aligned}$$

## AIRCRAFT WEIGHT & BALANCE

<b>PRIOR TO WEIGHT AND BALANCE CHECK</b>				
<b>AIRCRAFT TYPE</b> : PILATUS PORTER PC-6 <b>AIRCRAFT REGISTRATION</b> : PK-SNB <b>AIRCRAFT SERIAL NUMBER</b> : 1015 <b>DATE OF WEIGHING</b> : JULY 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	11 EA	-
7	Life Raft	x	N/A	-
8	Survival Kit	x	N/A	-