

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

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

WEIGHING EQUIPMENT

PART NUMBER	: UNK
SERIAL NUMBER	: UNK
VALIDATION	: UNK

APPROVED BY:




YANUAR ABDUL FATAH
CHIEF INSPECTOR

AIRCRAFT WEIGHT & BALANCE

TABLE 1

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

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
TOTAL	1449.2	3.377	4894.3

CENTER of GRAVITY

$$\begin{aligned}\text{C of G Position from datum} &= \frac{\text{TOTAL MOMENT}}{\text{TOTAL WEIGHT}} \\ &= \frac{4894.3}{1449.2} \\ &= 3.377\text{m}\end{aligned}$$

LOCATING PERCENT MAC

$$\begin{aligned}\text{As \% MAC} &= \frac{\text{C of G} - 3.0 \text{ m}}{1.9 \text{ m}} \times 100 \\ &= \frac{3.377 - 3.0 \text{ m}}{1.9 \text{ m}} \times 100 \\ &= 19.84 \%\end{aligned}$$

AIRCRAFT WEIGHT & BALANCE

PRIOR TO WEIGHT AND BALANCE CHECK				
AIRCRAFT TYPE : PILATUS PORTER PC-6 AIRCRAFT REGISTRATION : PK-SNC AIRCRAFT SERIAL NUMBER : 1016 DATE OF WEIGHING : 19 OCTOBER 2021				
NO.	DESCRIPTION	APPL	CHECK	REMARKS
A	STANDARD ITEMS			
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	STANDARD EQUIPMENTS			
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	-