

AIRCRAFT WEIGHT AND C.G DETERMINATION

REPORT NO : 03/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 : AERIAL SURVEY
PERFORMED BY : PILATUS FACTORY
SIGNED: DATE: JULY 2021
CHECKED BY : PILATUS FACTORY.
SIGNED: DATE: JULY 2021

RESULTS

EMPTY WEIGHT	: 1464.6 Kg
EMPTY C.G FROM DATTUM LINE	: 3.393 M
INDEX MAC %	: 20.68 %
VALID UNTIL	: JULY 2026

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 st ROW PAX SEAT REMOVED	9	3.90	35.1
2 nd ROW PAX SEAT REMOVED	9	4.60	41.4
TOTAL	18	4.25	76.5

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 (-)	18	4.25	76.5
TOTAL	1464.6	3.393	4975.64

CENTER of GRAVITY

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

$$= \frac{4949.29}{1458.4}$$

$$= 3.393 \text{ m}$$

LOCATING PERCENT MAC

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

$$= \frac{3.393 - 3.0 \text{ m}}{1.9 \text{ m}} \times 100$$

$$= 20.68 \%$$

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