

AIRCRAFT WEIGHT AND C.G DETERMINATION

REPORT NO : 02/WB/SNE/II/2022
DATE : 21 FEBRUARY 2022

AIRCRAFT REGISTRATION : PK-SNE
AIRCRAFT TYPE : PILATUS PORTER PC-6
AIRCRAFT SERIAL NUMBER : 1017
PROPERTY OF : PT. SMART CAKRAWALA AVIATION
PLACE OF WEIGHING : PILATUS FACTORY
REASON OF WEIGHING : INITIAL
CONFIGURATION : CARGO
PERFORMED BY : PILATUS FACTORY
SIGNED: DATE: 21 FEBRUARY 2022

CHECKED BY : YANUAR ABDUL FATAH

SIGNED:  DATE: 21 FEBRUARY 2022

RESULTS

EMPTY WEIGHT	: 1449 Kg
EMPTY C.G FROM DATTUM LINE	: 3.371M
INDEX MAC %	: 21.36 %
VALID UNTIL	: FEBRUARY 2027

WEIGHING EQUIPMENT

PART NUMBER	: UNK
SERIAL NUMBER	: UNK
VALIDATION	: UNK

APPROVED BY:



YANUAR ABDUL FATAH
CHIEF INSPECTOR



AIRCRAFT WEIGHT & BALANCE

TABEL 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

TABEL 1

AIRCRAFT WEIGHT CALCULATION	WEIGHT (kg)	CG ARM (m)	MOMENT mKg
AIRCRAFT EMPTY WEIGHT	1480	3.400	5032
WEIGHT FROM TABLE 1 (-)	31	4.73	146.7
TOTAL	1449	3.371	4885.3

CENTER of GRAVITY

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

$$= \frac{4885.3}{1449}$$

$$= 3.371 \text{ m}$$

LOCATING PERCENT MAC

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

$$= \frac{3.371 - 3.0 \text{ m}}{1.9 \text{ m}} \times 100$$

$$= 19.52 \%$$

PRIOR TO WEIGHT AND BALANCE CHECK				
AIRCRAFT TYPE : PILATUS PORTER PC-6 AIRCRAFT REGISTRATION : PK-SNE AIRCRAFT SERIAL NUMBER : 1017 DATE OF WEIGHING : 21 FEBRUARY 2022				
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	-