

AIRCRAFT WEIGHT AND C.G DETERMINATION

REPORT NO : 02/WB/SND/XII/2022
DATE : 06 DECEMBER 2022

AIRCRAFT REGISTRATION : PK-SND
AIRCRAFT TYPE : PILATUS PORTER PC-6
AIRCRAFT SERIAL NUMBER : 1018
PROPERTY OF : PT. SMART CAKRAWALA AVIATION
PLACE OF WEIGHING : PILATUS FACTORY
REASON OF WEIGHING : INITIAL
CONFIGURATION : CARGO
PERFORMED BY : PILATUS FACTORY
SIGNED: DATE: 31 MAY 2022

CHECKED BY : ISTIONO. (TRANSFER TO SCA FORM)
SIGNED:  DATE: 06 DECEMBER 2022

RESULTS

EMPTY WEIGHT	: 1442.9 Kg
EMPTY C.G FROM DATTUM LINE	: 3.362 M
INDEX MAC %	: 19.05 %
VALID UNTIL	: MAY 2027

WEIGHING EQUIPMENT

PART NUMBER	: N/A
SERIAL NUMBER	: N/A
VALIDATION	: N/A

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	4.732	146.7

TABEL 2

AIRCRAFT WEIGHT CALCULATION	WEIGHT (kg)	CG ARM (m)	MOMENT mKg
AIRCRAFT EMPTY WEIGHT	1473.9	3.391	4999
WEIGHT FROM TABLE 1 (-)	31	4.732	146.7
TOTAL	1442.9	3.362	4852.3

CENTER of GRAVITY

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

$$= \frac{4852.3}{1442.9}$$

$$= 3.362 \text{ m}$$

LOCATING PERCENT MAC

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

$$= \frac{3.362 - 3.0 \text{ m}}{1.9 \text{ m}} \times 100$$

$$= 19.05 \%$$

PRIOR TO WEIGHT AND BALANCE CHECK				
AIRCRAFT TYPE : PILATUS PORTER PC-6 AIRCRAFT REGISTRATION : PK-SND AIRCRAFT SERIAL NUMBER : 1018 DATE OF WEIGHING : 31 MAY 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	-

8. State of Empty Weight

Whenever equipment is changed, or after any repair to the aircraft which affects the weight, the relevant items must be inserted in the table below and the new empty weight and moment have to be calculated.

Aircraft Registration No: <u>PK-SND</u> Aircraft Serial No: <u>1018</u>				
DATE	ITEM	WEIGHT (kg or lb)	ARM (m or in)	MOMENT (mkg or lbin)
31 MAY 2022	Empty weight of new airplane according to equipment list.	1473.9	3.396	4999
	Modifications:			