AIRCRAFT WEIGHT & BALANCE

AIRCRAFT WEIGHT AND C.G DETERMINATION
REPORT NO : 03/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 : AERIAL SURVEY
PERFORMED BY : PILATUS FACTORY
    SIGNED: DATE: 19 OCT 2021
CHECKED BY : PILATUS FACTORY.
     SIGNED: DATE: 19 OCT 2021

RESULTS

EMPTY WEIGHT	**: 1462.2Kg**
EMPTY C.G FROM DATTUM LINE	**: 3.395 M**
INDEX MAC %	**: 20.78 %**
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
1st ROW PAX SEAT REMOVED	9	3.90	35.1
2nd 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	1480.2	3.406	5041
WEIGHT FROM TABLE 1 (-)	18	4.25	76.5
TOTAL	1462.2	3.395	4964.5

CENTER of GRAVITY

C of G Position from datum   = <u>TOTAL MOMENT</u>
                                        TOTAL WEIGHT

                                = <u>4964.5</u>
                                     1462.2

                                = **3.395** m

LOCATING PERCENT MAC

As % MAC   = <u>C of G – 3.0 m</u>   X   100
                          1.9 m

                      = <u>3.395 – 3.0 m </u>   X   100
                          1.9 m

                      = **20.78 %**

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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	-