# Pulse50Tawi User Manual (English Edition)

Free 100% Client-Side Thai 50 Tawi Withholding Tax Certificate Studio | Offline Desktop PWA | A4 Full, A4 Half 2-Copy & A5 Portrait

## 1. Overview & Thai Revenue Department Compliance

- Pulse50Tawi is developed by NOVA PULSE AI CO., LTD. (Tax ID / VAT: 0125569038981) as a 100% free, zero-login client-side utility for generating statutory Thai Withholding Tax Certificates under Section 50 Tawi.

- Supports all statutory PND return checkboxes: PND 1Kor, PND 1Kor Special, PND 2, PND 3 (Individuals), PND 2Kor, PND 3Kor, and PND 53 (Juristic Companies), covering Section 40 income rows 1-6 and tax conditions (1)-(4).

- Supports printing Copy 1 (taxpayer attachment), Copy 2 (taxpayer copy), Copy 3, and Copy 4 (withholder accounting record). Statutory printed wording remains in official Thai as required by the Revenue Department.

## 2. Three Paper Print Modes & Printer Setup

- 1) A4 Full Page (210 x 297 mm Portrait): Standard full-page layout with generous wet-ink signature space, optional 3-fold envelope marks, and selectable Copies 1, 2, 1+2, or full 1-4 sets.

- 2) A4 Half-Page 2-Copy (297 x 210 mm Landscape = 2x A5 Portrait): Saves 50% paper with a vertical dashed cut line at 148.5 mm. Supports Same Certificate (Copy 1 Left + Copy 2 Right) or Batch Pair Saver (2 different payees per sheet).

- 3) A5 Portrait Standalone (148 x 210 mm Portrait): Purpose-built readable A5 layout preserving all 6 statutory income rows without illegible scaling.

* Pre-Print Checklist: Match printer paper size to the selected mode, set scale to 100% (Actual Size), and disable browser Headers & Footers.

## 3. Print-to-Real-Sign Default, Ink Color & Digital Signatures

- Default Mode (Recommended): Print-to-Real-Sign leaves crisp wet-ink pen signature space, optional corporate seal circle, optional blank issue date, and optional dotted write-in lines for hand-written completion.

- Optional Digital Mode: Draw signatures with pointer/touch/stylus or upload transparent PNG/JPG/WebP stamp images (verified via magic bytes; SVG uploads blocked for XSS safety).

- Ink Color Toggle: Switch filled values between Blue Ballpoint (#003399) and Crisp Black (#111827).

## 4. Smart VAT/WHT Calculator & Mod-11 Tax ID Validator

- 3 VAT Modes: Exclude VAT (Pre-VAT base), Include VAT 7% (automatically extracts base = gross x 100 / 107), and No VAT, with manual WHT override to match 1-satang rounding differences and automatic Thai Baht wording (thaiBahtText ).

- 13-Digit Tax ID Mod-11 Checksum validation emits non-blocking soft warnings and auto-suggests PND 53 (starts with 0) vs PND 3 (individuals).

- Common WHT Rates (Order Tor.Por. 4/2528): Freight 1%, Advertising 2%, Services/Contracting/Freelance 3%, Property/Asset Rent 5%, Dividends Sec. 40(4)(b) 10%.

## 5. Excel 2-Sheet Engine, Ctrl+V Paste, Cover Sheet & Batch ZIP

- Import batches up to 500 rows (<= 15 MB) from .xlsx, .csv, or Ctrl+V clipboard tables pasted from Excel/Google Sheets with auto column mapping and Formula Injection sanitization on both import and export.

- Export 2-Sheet .xlsx workbooks: Sheet 1 (50Tawi_Data) preserves 100% metadata for lossless re-import next month; Sheet 2 (PND_Summary) totals base income and WHT grouped by PND 53, PND 3, PND 1Kor, PND 2, and Others.

- Generate Batch Sign-Off Cover Sheets for director review, exact-size Vector PDFs with embedded Thai fonts, per-payee ZIP bundles, LINE text summaries, and accounting email drafts.

## 6. Offline Desktop PWA, Shortcuts, PDPA Privacy & YMYL Notice

- Install via "Install App" in Chrome or Edge to cache the studio and Thai TTF fonts for 100% offline PDF and Excel generation. Shortcuts: Ctrl/Cmd+S (Export Excel), Ctrl/Cmd+P (Print), Esc (Close modal).

- PDPA Zero-Server Architecture: Zero personal data leaves your browser. Only your last active batch ( pulse_50tawi_last_session_v1) and opt-in payer profile (pulse_50tawi_payer_v1) stay on-device, with a 1-click Reset affecting only pulse_50tawi_* keys.

* YMYL Disclaimer: Tax rates and form helpers follow general Thai Revenue Department rules for convenience. Consult a certified Thai accountant or the Revenue Department for complex or cross-border transactions.