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 rows 1-6 (including 4.(b)(1.1-2.5) dividend sub-rows on A4), statutory funds (GPF/SSO/PVD), and tax conditions (1)-(4) with custom Other text.

- 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, Vector PDF Direct Print & Amber Spotlight

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

- 2) A4 Landscape 2-Copy (297 x 210 mm = 2x A5 Portrait): Saves 50% paper with a vertical dashed cut line at 148.5 mm. Supports Same Certificate Pairs (1+2 / 3+4) or Batch Pair Saver (2 different payees per sheet).

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

- True Print-to-PDF Parity & Amber Spotlight: Preview and CSS print stretch rows 1-6 to full sheet height with zero shadows or double borders; Desktop Print sends the exact Vector PDF via a hidden print frame (falling back cleanly to native print on mobile). Active fields use warm Amber Highlighter Spotlight across both Form and Paper, paired with desktop Pane Swap and Full Preview Expand.

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

3. Step-1 Workflow Selector (Fill / Blank Form) & Signing Modes

- Step-1 Mode Switcher at Top of Controls: Switch cleanly between "Fill & Print" and "Blank Form" (hand-writing ready) with two sub-modes: (1) 100% Empty (clears No., branch 00000, PND/condition checks, and date in muted gray lines, locking Tabs 1-2 for 1-step printing) and (2) Pre-Filled Payer Header (locks Tab 2 & signatory fields) — preserving any previously entered data.

- Signature Modes & Ink Color: Default Print-to-Real-Sign leaves crisp wet-ink pen space and optional corporate seal circle; optional Digital Mode supports SignaturePad drawing or verified PNG/JPG/WebP stamps (.svg blocked). Filled values toggle between Blue Ballpoint (#003399) and Crisp Black (#111827).

- Zero-Amount Row Suppression: Rows with 0 base and 0 WHT are hidden from printed paper/PDF, while 0% payroll rows with base > 0 still print normally.

4. Money Input UX, Smart VAT/WHT Calculator & Mod-11 Validation

- 3 VAT Modes with Live Guidance: Exclude VAT (Pre-VAT base), Include VAT 7% (keeps your VAT-inclusive figure in the input while displaying extracted base = gross x 100 / 107 below without double-division on blur or rate edits), and No VAT. Currency inputs show clean 0.00 placeholders and support 1-satang manual WHT override + 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. Smart Undo/Redo, 2-Sheet Excel Engine, Cover Sheet & Batch ZIP

- RAM-Only Smart Undo/Redo (up to 25 steps): Undo/Redo via toolbar buttons, Ctrl+Z / Ctrl+Shift+Z (outside text fields), and Toast Undo after high-impact actions — wiped 100% upon PDPA Panic Reset.

- 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 (50Tawi_Data for 100% lossless re-import + PND_Summary grouped by PND), plus Batch Sign-Off Cover Sheets, Vector PDFs, 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+Z (Undo), Ctrl/Cmd+Shift+Z (Redo), Ctrl/Cmd+S (Export Excel), Ctrl/Cmd+P (Print), Esc (Close modal).

- PDPA Zero-Server Architecture: Zero personal data leaves your browser. Undo/Redo history stays in temporary RAM and is wiped immediately on Panic Reset; only your last active batch (pulse_50tawi_last_session_v1) and opt-in payer profile (pulse_50tawi_payer_v1) stay on-device.

* 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.