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Nudging for Prompt Tax Penalty Payment: Evidence from a Field Experiment in Indonesia^{*}

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ABSTRACT

We conducted a randomised controlled trial in Indonesia to evaluate the effect of three intervention letters on tax penalty compliance behaviour. Over 10,000 individual taxpayers are randomly assigned to receive either a deterrence, information, or simplification letter, or no letter. Our results indicate that simplification, which makes paying a penalty less burdensome administratively by providing billing codes to pay the penalties, yields the highest probability of timely settlement, increasing compliance by 32 per cent compared to the control group. Deterrence also positively impacts penalty compliance, increasing timely settlement rates by 27 per cent. The least effective intervention is the information letter. Although associated with a 12 per cent increase in tax compliance, this effect is only statistically significant at the 10 per cent confidence level. Our results suggest that strategic messaging by tax authorities in developing countries can be a cost-effective tool for improving tax penalty payment compliance.

JEL: C93; D91; H26; Z18

Keywords: Tax penalties; Tax compliance; RCT; Simplification; Deterrence; Information; Indonesia.

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1. Introduction

Collecting delinquent debt is a considerable and ongoing challenge for tax administration. Data from the Indonesian Directorate General of Taxes (DJP – *Direktorat Jenderal Pajak*), for example, indicate the estimated value of tax arrears, including unpaid penalties at the end of 2019, was approximately US \$3.2 billion (DJP, 2020). According to DJP data, between January 2020 and June 2021 alone, penalty collection rates appear dangerously low, at around 10 per cent. This issue is by no means confined to developing countries, however. In the United States, late and enforced payments from 2011 to 2013 amounted to \$60 billion, of which 72 per cent was related to individual income tax (Internal Revenue Service, 2019). In related enforcement domains, only 50 per cent of UK court penalties were paid within the statutory six months (as of 2016), with outstanding court fines estimated to be over £600 million (Haynes et al., 2013). Dušek et al. (2022) report that, in Berlin, 25 per cent of fines for minor traffic offences are not paid on time, and the equivalent figure for New York is 40 per cent. In this study, we explore ways to reduce outstanding fines.

Outstanding fines matter for a variety of reasons. First, as fine revenue is a component of government revenue like any other, the state cannot use outstanding fines to provide public services. Arrears necessarily defer revenue and, in the presence of statutory time limits on the recovery of tax arrears (five years in Indonesia, ten years in the United States), can materialise into outright revenue losses. In Indonesia, by the end of 2019, around Indonesian Rupiah (Rp) 10.5 trillion (\$750 million) of tax arrears, including tax penalties, was written off (DJP, 2020). Second, although tax authorities have significant legal powers for the recovery of debt, up to and including distraint (the seizure and sale of assets and property), these measures are themselves costly, thereby reducing the net benefit to the exchequer of pursuing these debts and making the recovery of smaller debts ungainful. On the other hand, failing to recover such debt might ultimately undermine the effective enforcement of the tax system, in which penalties are an important deterrent.

Addressing the problem of outstanding fines has two components. First, one can seek to increase the likelihood that taxpayers do not attract a fine in the first place, what is termed the "extensive margin" of tax compliance. A growing literature explores how behaviour at the extensive margin can be influenced through a mixture of legal deterrence and other non-deterrence factors – often referred to collectively as tax morale – which includes social norms, simplification, information, and moral suasion. Second, one can seek to influence the likelihood that those taxpayers who nonetheless do attract a fine pay it on time, without the

need for heightened (and costly) debt recovery measures by the tax authority. Our study focuses on this second component, which so far has received much less attention in the literature.

Seeking to influence the payment behaviour of taxpayers who have already attracted a fine for failing to meet a filing or payment deadline, we perform a randomised controlled trial (RCT) among just over 10,000 taxpayers in Indonesia in cooperation with the DJP. All participants receive the standard Notice of Tax Penalties (NTP), as required by Indonesian tax law, but participants in treatment conditions receive an additional attachment – commonly referred to as a "nudge" (Thaler and Sunstein, 2008). The nudges we test, informed by behavioural science, are a deterrence treatment (emphasising the enforcement measures available to the DJP in the event of the penalty not being settled), a simplification treatment (aiding with the necessary codes and providing a telephone number that the taxpayer can call for assistance); and an information treatment (clarifying the various ways the taxpayer can settle the penalty).

At the outset, we were cautious as to whether nudges would be effective in this context. First, we consider taxpayers who have already either (i) filed late; (ii) filed on time but were then late in making the associated tax payment; or (iii) filed late and then also paid late. This sample of taxpayers would seem unlikely to be representative of the taxpayer population as a whole. Instead, it seems likely that the sample will be over-represented with taxpayers having low intrinsic motivation to comply, in the sense of Dwenger et al. (2016). Such taxpayers will plausibly be less likely to respond to any tax authority interventions - nudge or otherwise. Second, there are reasons to believe that the sample will be over-represented with taxpayers who have shown previous insensitivity to nudge interventions specifically. Following a major field study in Indonesia in 2017 (Persian et al., 2023), the DJP introduced nudge insights (albeit in relation to reminders and planning prompts - different to the nudges we consider) into its standard operating procedures around income tax filing. Thus, our sample is composed entirely of individuals for whom one attempt at nudging has already proved ineffective. Third, following the meta-analyses of DellaVigna and Linos (2022) and Maier et al. (2022), we were aware that many more nudge interventions yield no measurable effect than would be surmised from a reading of published studies. Last, in an influential meta-analysis, Antinyan and Asatryan (2020) report that tax compliance nudges are less effective in lower-income countries.

Thus, communications that might hypothetically be impactful in a developed country context might prove inert in the Indonesian context.⁴

Perhaps surprisingly, all three treatments increase the probability that tax penalties are paid on time relative to the control group. Simplifying the payment process produces a 4.5 percentage point (pp.) increase in the probability of prompt payment. As only 13.9 per cent of the control group paid promptly, this represents a 32 per cent higher probability of prompt payment. Emphasising deterrence increases the probability of timely payment by 3.7 pp., or 27 per cent. Providing further information regarding penalty payment generated the lowest effect of the three interventions, increasing the probability of timely payment by 1.7 pp., or 12 per cent. Considering the relatively large effect sizes and the relatively modest cost of producing the additional communication, a cost-benefit analysis shows that implementing either of the two most effective treatments – simplification and deterrence – is a cost-effective policy instrument.

Our findings contribute to what is so far only a small literature on the effectiveness of taxbased nudging in developing countries yet are broadly in line with evidence from developed country contexts. In particular, prior studies (reviewed in Section 2) also find that simplification letters can have an effect quantitatively comparable to (and possibly exceeding) that of deterrence letters and that providing information is less impactful than, for instance, emphasising deterrence.

This paper also connects to a broader literature seeking to understand aspects of tax compliance from a behavioural science standpoint (e.g., Hashimzade et al., 2013; Alm, 2019) and to the literature on the effects of nudges more generally (e.g., Milkman et al., 2021; Congiu and Moscati, 2022). It also contributes to the wider literature on taxation and development (e.g., Besley and Persson, 2013), wherein an effective tax system is found to be an important determinant of successful state-building (Fjeldstad and Moore, 2007), and of economic growth (e.g., Arnold et al., 2011).

The remainder of the paper is organised as follows: Section 2 reviews the existing literature, focusing on behavioural nudging and compliance outcomes, whilst Section 3 outlines the

⁴ We also continue to be concerned about emerging evidence pointing to the "regular" failure of scientific standards in cooperative field experiments (Fels, in press). This study was not produced under contract from the DJP and was pre-registered, as described elsewhere.

experimental design. Section 4 lays out the empirical methodology, and Section 5 presents the results. Section 6 concludes.

2. Nudging Taxpayers

This section reviews the existing literature broadly related to the themes of this paper. A growing literature explores the possibility of influencing individual taxpayer behaviour by sending messages (Pomeranz and Vila-Belda, 2019; Slemrod, 2019).⁵ Although each study is unique, various broad categories of nudges may be discerned in the literature. Building on rational economic approaches to the study of tax compliance, as embodied by the model of Allingham and Sandmo (1972), *deterrence* nudges emphasise the probability of being sanctioned for non-compliance and the nature of the sanctions that will apply. Slemrod et al. (2001) and Kleven et al. (2011) provide examples of RCTs that emphasise the probability of sanction, while Meiselman (2018) provides an example of an RCT emphasising penalty information. We perform a treatment that similarly emphasises penalty information.

Our remaining treatments are examples of *non-deterrence* nudges. Following studies such as Coleman (1997), Dwenger et al. (2016), John and Blume (2018), and De Neve et al. (2021), we communicate information to taxpayers intended to simplify the process of complying with tax law. Previous research highlights how simplifying communication can help overcome information frictions and/or "hassle costs" associated with filing and paying taxes (e.g., Kleven and Kopczuk, 2011; Hoopes et al., 2015; Benzarti, 2020).⁶ Like us, Dwenger et al. (2016) and De Neve et al. (2021) find that simplifying communication positively affects compliance to a degree comparable to deterrence communication. However, the evidence is not entirely consistent: see, e.g., John and Blume (2018), who report no effect of their simplification treatment on compliance with local taxes in London.

Other non-deterrence nudges found commonly in the tax literature provide information on the compliance behaviour of others (social norms) or appeal to moral suasion (see, e.g., Pomeranz and Vila-Belda, 2019, for a review). The meta-analysis of Antinyan and Asatryan (2020), however, finds that such nudges have no measurable effect. Accordingly, we implement an information nudge that articulates the where, when, and how of prompt penalty

⁵ For related RCTs considering the effect of nudges on firms, rather than individuals, see, e.g., Pomeranz (2015), Carrillo et al. (2017), Biddle et al. (2018), and Gillitzer and Sinning (2020).

⁶ For a related literature on the effects of complexity in the tax code itself, see, e.g., Chetty and Saez (2013) and Abeler and Jäger (2015).

payment.⁷ The idea behind such interventions is that even taxpayers with good intentions might fail to comply due to inattention or planning failures (Rogers et al., 2015). So far, the evidence for such interventions in the tax context is mixed. On the one hand, Robitaille et al. (2021) find that information communication of this form generates positive effects on Ontario businesses that had failed to file their employer health tax return on time. On the other hand, Bott et al. (2020) detect no discernible effect on Norwegian taxpayers of a letter containing information about why and how to report foreign income.

Evidence on the effects of compliance nudges in developing countries – the focus of this paper – is much more limited than in developed countries (Mascagni, 2018). Most developing country studies are from Latin America and the Caribbean (e.g., Del Carpio, 2013; Castro and Scartascini, 2015; Lopez-Luzuriaga and Scartascini, 2019; Holz et al., 2020; Ortega and Scartascini, 2020; Mogollon et al., 2021). For Africa, we know only of Mascagni and Nell (2022) and Santoro and Mascagni (2023), both conducted in Rwanda, and Shimeles et al. (2017) for Ethiopia. In Europe, Jamison et al. (2021) nudge taxpayers in Latvia. In Asia – the region we consider – we know of only Suharnoko (2020) and Persian et al. (2023) for Indonesia, Chetty et al. (2014) for Bangladesh, and Hoy et al. (forthcoming) for Papua New Guinea.

Given that the evidence discussed above for developing countries is (i) relatively sparse, (ii) somewhat clustered by country, and (iii) largely too recent to be included in extant metaanalyses of tax nudges (e.g., Antinyan and Asatryan, 2020), proper inference of the effects of such nudges in the developing country context remains lacking. This paper contributes to filling this lacuna. These caveats regarding the existing evidence base notwithstanding, prior studies in the developing country context do typically report discernible positive effects for at least a subset of nudges. Moreover, owing to the low levels of compliance on average in the control group, the reported compliance increases can be large in percentage change terms.

As well as the developing country focus, another important distinction between this study and much of the tax-nudge literature is that we seek to influence the behaviour of individual taxpayers who have already attracted a penalty for failing to file and/or pay on time. Other tax studies to share this feature include Hallsworth et al. (2017), Gemmell and Ratto (2018),

⁷ We were also concerned that, in the context of tax penalties, a social norm nudge may be prone to backfiring, as in, e.g., Silva and John (2017) and John and Blume (2018). Pointing out how many others engage in socially harmful behaviour may have the unintended consequence of making the behaviour natural and permissible and end up encouraging it. For a dedicated analysis of the effects of norm-nudges, see Bicchieri and Dimant (2022).

Chirico et al. (2019), and Cranor et al. (2020). Whereas, however, these studies focus on the recovery of tax debt, we analyse specifically the recovery of fine debt, distinct from tax debt. The only other studies we are aware of that focus specifically on fine debt are outside the tax context. Haynes et al. (2013) trial a variety of text messages to encourage the timely payment of UK court fines. They find positive effects from various communications, with the most effective nuance being to address the recipient by name. Whereas personalisation of the nudge is a treatment in Haynes et al. (2013), in our study, all communications address the taxpayer by name. Dušek et al. (2022) and Sinning and Zhang (2023) seek to nudge the payment of fines by drivers (in the Czech Republic and Australia, respectively) who have been prosecuted for traffic or parking offences. Both studies find that emphasising the late payment fines makes penalty payment more likely.

3. The Experiment

3.1. Institutional Context

The experiment was performed in Indonesia, a country geographically located in southeast Asia. Despite being the largest economy in the region, Indonesia's tax-to-GDP ratio – a rough-and-ready indicator of state capacity – was just 10.1 per cent in 2019 (OECD, 2020), ranking it below its closest neighbours, Singapore (12.8 per cent) and Malaysia (11.4 per cent).

We focus on civil penalties (fines) issued by the DJP. Specifically, we consider so-called "administrative" fines arising from a failure to file a tax return on time or to make a payment on time (as distinct from "criminal" fines, which arise from audit or tax crime investigations). In the case of individual taxpayers (as opposed to firms), every monthly or annual income tax return filed late attracts a fine of Rp100,000 (\$6.50). In addition, overdue tax balances relating to a tax return attract interest at five per cent, plus a penalty rate decreed by the Minister of Finance. While such fine amounts may seem trifling in the developed country context, they are less so in Indonesian context, where GDP per capita in dollar terms is less than a tenth of that in the UK, for instance.

Taxpayers are informed of administrative fines via a NTP. That fine amounts are notified and paid separate from unpaid tax arrears in the Indonesian context – rather than being bundled into a single payment item – offers an opportunity to study the repayment of fines distinct from the payment of tax. Under the standard operating procedure, active efforts by the DJP to recover penalty amounts begin eight days after a NTP exceeds its thirty-day statutory deadline with the sending of a warning letter. This letter is followed by a distress warrant when the taxpayer does not respond within 21 days. Within 48 hours of the distress warrant date, assuming no payment has been received, a notice of confiscation of assets is issued: the taxpayer has 14 days to settle the penalties, or the DJP proceeds to auction their assets.⁸

When the DJP begins active debt recovery measures, it may levy an additional penalty of Rp50,000 (\$3.50) per unpaid tax bill, followed by a further penalty of Rp100,000 (\$6.50) per unpaid tax bill following the issue of a distress warrant. As, however, these additional penalties are insufficient to cover the cost of the debt recovery measures, the DJP is obliged to engage in debt recovery activity that is ungainful from a static perspective in order to maintain long-run dynamic incentives for compliance.

3.2. Treatment Design

The experiment exploits intervention letters that aim to change taxpayer behaviour. Three intervention letters are designed, based on behaviourally informed messages in the literature on behavioural economics and individual tax compliance.

The treatment letters are delivered as physical letters, written in Indonesian. They are received as an attachment to the standard NTP, for the DJP must issue the standard NTP by law. The standard NTP contains a general message explaining why the taxpayer is receiving a NTP, details of the penalty (as in Cranor et al., 2018), and the contact details of the local tax office.⁹ Delivery to taxpayers is by the approved postal service of each local tax office. The sample is assigned to four groups. The first is the control group, which receives the standard NTP only. The remainder of the sample is allocated to three treatment groups: deterrence, information, and simplification, as summarised in Table 1.¹⁰ Some words in the treatment letters appear in bold font to increase their salience to the reader (De Neve et al., 2021; Kahneman, 2012). The actual intervention letters in English and Indonesian are reproduced in Appendix 2.

<Table 1 here – see p. 21>

⁸ If assets cannot be auctioned the DJP can impose an overseas travel ban and/or freeze a taxpayer's bank account. In extreme cases, a taxpayer with significant amount of delinquent tax debt and with doubtful intention to settle can be imprisoned for up to a year.

⁹ See Appendix 1 for an example of the standard NTP in Indonesia.

¹⁰ The design of the intervention letters in terms of format and colour mostly follows Gillitzer and Sinning (2020), but the wording is mainly adapted from the UK's Notice of Penalty Assessment form. Before deploying the intervention, we also discussed the design of each intervention letter through qualitative interviews with 11 individual taxpayers, selected based on convenient sampling.

3.3. Data and Sample

In executing the experiment, we cooperated with 19 local tax offices within four DJP regional tax offices: South Sumatra and Bangka Belitung Islands, Nusa Tenggara, North Jakarta, and Banten. These regional offices were selected because, as of the time of the experiment, they were the five largest issuers of NTPs. The sample comprises taxpayers classed as individuals. We exclude firms as the person in the firm who might make payment decisions is rarely the same person who receives the letter (Castro and Scartascini, 2015). To be included in the sample, taxpayers must:

- 1. be an individual taxpayer registered at one of the 19 local tax offices that perform the trial;
- 2. be slated to be issued a NTP between October 2021 and February 2022;
- 3. be issued penalties associated with income taxes;
- 4. face administrative, rather than criminal, penalties;
- 5. have registered an address and a telephone number with the DJP;
- 6. have an active payment and/or tax return filing history for the 2020 tax year.

The total number of taxpayers meeting the above criteria is N = 11,026. Of these taxpayers, 959, or around eight per cent of the total sample, were never ultimately served a NTP and, therefore, dropped out of the sample. The reasons for such attrition are various, including where taxpayers move their registration to a local tax office not involved in the experiment. If dropping out is a random occurrence, such that the sample of dropouts is balanced across treatments, then the balance of the remaining sample is preserved. Therefore, we test the balance of the dropouts and the remaining sample across control and treatment groups (Appendix 4), finding that the balance is not compromised. Indeed, we implemented measures aimed at minimising non-random dropout, including not announcing the commencement of the experiment either to affected taxpayers or to the tax officers in charge of issuing NTPs. Only the tax officers in charge of printing the intervention letters observed the allocation of taxpayers to the control and treatment groups.

The outcome data consists of a de-identified list of taxpayers, their tracking status, and an indicator for timely settlement. We also collect administrative data comprising taxpayer baseline characteristics (recorded as categorical and interval variables to ensure taxpayer anonymity) which, according to the existing literature, may influence taxpayer behaviour.

These include a taxpayer's age, years registered, annual income, annual tax payment, and the amount of outstanding penalties from the previous five years.¹¹

3.4. Procedures

The RCT was conducted from October 2021 to February 2022, with post-trial data collection occurring in March-April 2022.

The sample of taxpayers is randomly allocated to a control and three treatment groups separately by each local tax office.¹² We perform stratified randomisation to ensure the baseline characteristics balance across control and treatment groups and to minimise the potential for selection bias. The strata are listed in Appendix 5. Bruhn and McKenzie (2009) suggest performing balance tests (i.e., ANOVA or Tukey-HSD) after each randomisation and repeating the procedure if randomisation fails the balance test until a balanced random draw is obtained. The outcomes of this exercise are given in Table 2.

The local tax offices printed the intervention letters independently to ensure confidentiality, following DJP data regulations. We supplied customised software, printing equipment and other practical items to the local tax offices, who then implemented the trial independently. Local tax offices tracked the postage status to determine the letter delivery rate.

4. Empirical Methodology

To measure the outcome, we adopt 37 days post NTP issuance as the cut-off for timely settlement instead of the 30 days statutory deadline under the current regulation. As discussed in Section 3, active DJP debt recovery measures do not begin until after the elapse of 37 days. Indeed, the allowance of a 7-day grace period is a legal obligation on the DJP. Qualitatively identical results (not reported for brevity) are obtained when taking the cut-off to be 30 days.¹³ As well as having the option of paying their penalty in full, taxpayers can also opt to pay their penalty in instalments. Taxpayers who arrange within the 37 days to pay their penalty in

¹¹ The remaining characteristics we include are an indicator for taxpayers being monitored by a strategic business unit within the tax office; an indicator for taxpayers registered for VAT; the distance of a taxpayer's residence from the closest tax office; tax return filing channel; prior year reported annual taxable income; and an indicator for being recently audited. For further details, see Appendix 5.

¹² This is performed in each local tax office separately for practical reasons. Local tax offices could not submit a list of samples simultaneously. This approach is also employed in, e.g., Biddle et al. (2018).

¹³ Use of the 37-day cut-off also has the advantage of mitigating issues relating to the lag between a NTP being issued, and it being received by the taxpayer (tax offices require approximately three to five working days from the issue date to perform clerical work such as signing the NTP and handing it over to the postal service).

instalments fall within our definition of timely settlement. This point does bear discernibly on our findings, however, for fewer than one per cent of our sample arrange to pay by instalments.

Treatment Effect Estimation

To estimate the causal impact of each intervention, we use the following regression model:

$$Y_i = \alpha + \beta_1 DT_i + \beta_2 IN_i + \beta_3 SM_i + \gamma X_i + \varepsilon_i,$$

where Y_i is an indicator variable for settling penalties within 37 days of the issue date; DT_i , IN_i , SM_i are indicators for treatment assignment to deterrence, information, and simplification; and X_i is a vector of taxpayer characteristics. A description of the characteristics and their coding is presented in Appendix 5.

A small proportion of taxpayers who were issued a NTP did not receive the treatment due to delivery problems (556 taxpayers, representing 5.6 per cent of the total sample). To account for this, we estimate the treatment effects using intention to treat (ITT) and local average treatment effect (LATE) analyses. ITT estimates treatment effects for all taxpayers in the sample who were issued a NTP, regardless of whether they received it. Taxpayers issued a treatment letter who fail to receive the letter are handled equivalently to taxpayers who receive it and do not respond to it. By contrast, LATE estimates the treatment effect for taxpayers who receive the intervention letter only.

To evaluate the results of our primary analysis, we also perform a series of robustness checks to assess possible treatment effect heterogeneity across subgroups. Using the sample-split method, we test the effect of our treatments when distinguishing taxpayers by region, by late filers versus late payers, and by employment status.¹⁴

5. Results and Discussion

Our data comprises 11,643 penalties issued to 10,067 taxpayers across 19 local tax offices in four regions. The average value of the penalties issued to the control and treatment groups ranges from Rp139,000 to slightly above Rp147,000. Around half of the penalty amounts lie between Rp50,000 and Rp100,000.

¹⁴ We also cross-check our results under the sample-split method by instead including treatment-covariate interaction terms, finding very similar qualitative results.

5.1. Main Analysis

As described in the empirical methodology section, we estimate the separate ITT and LATE estimates of the treatment effects.

Treatment Effect of All Individuals – Intention to Treat

The ITT considers the initial random treatment assignment, regardless of treatment receipt. We estimate the ITT with a linear probability model.¹⁵ Panel A of Table 3 presents the results of our ITT estimation: column 1 presents the results from the basic model; column 2 incorporates taxpayer characteristics; and column 3, our preferred specification, further includes a tax office fixed effect.

We observe that conveying behaviourally informed messages to taxpayers increases timely penalty settlement. All three regression models presented in Table 3, panel A, indicate that the simplification and deterrence letters have a positive and statistically significant effect on the prompt penalty settlement at the one per cent confidence level. The information letter also positively affects prompt penalty payment when including taxpayer characteristics and a tax office fixed effect (column 3), albeit only at the 10 per cent confidence level.

On average, individuals in the control group have a 13.9 per cent probability of settling the NTP within 37 days. Attaching the simplification letter to the standard NTP yields an increase in the probability of settlement of 4.5 pp., implying a 32 per cent increase relative to the control group. Attaching the deterrence letter induces a 3.7 pp. higher than the control group, which equals a 27 per cent increase in the probability of timely settlement compared to the control group. Finally, the information letter induces a 1.7 pp. increase in timely penalty settlement, which equates to a 12 per cent increase over the control group.

A comparison between treatment groups reveals that the simplification (p < 0.03) and deterrence (p < 0.05) letters both induced a stronger effect than did the information letter. Although the simplification letter attained the highest point estimate for the increase in the probability of settlement, the effects of the simplification and deterrence letters are indistinguishable statistically at conventional significance levels.

The critical feature of the simplification letter – the most effective treatment in point estimate terms – is providing billing codes that taxpayers can use directly in paying their

¹⁵ Similar results are obtained with probit analysis (see Appendix 3).

penalty, similar to letters in Biddle et al. (2018) and De Neve (2021). Although direct comparison with the prior literature requires caution, the effect size of 4.5 may be is contextually large. For instance, a simplification letter in the prior RCT of Persian et al. (2023) – also conducted in Indonesia but on the universe of all income tax filers – produced an increase of 0.8 pp. compared to no email in the likelihood of filing a tax return. It is perhaps also worth noting that, although it produced the smallest effect of our intervention letters, the information letter also generated a stronger effect (1.7 pp. compared to 1.0 pp.) than the related information treatment in Persian et al. (2023).

When turning to the deterrence treatment, our findings are consistent with recent literature in a developed country context, albeit the effect size of 3.7 pp. is somewhat larger. For instance, Dušek et al. (2022) find that highlighting penalties to speeding offenders in Prague increased speeding ticket payment rates by 2.0 pp. Also, Cranor et al. (2020) found that providing detailed penalty information increased the repayment rate of delinquent taxpayers in Colorado by around 1.5 pp.

Treatment Effect Among Compliers – Local Average Treatment Effect

LATE computes treatment effects only for taxpayers who received the treatment. It is, therefore, expected to (and does) exceed our ITT estimates. Following, e.g., Imbens and Angrist (1994) and Gerber and Green (2012), we estimate LATE using an instrumental variable (IV) regression, the instrument being the original random allocation to the treatment groups. Our LATE estimates are presented in Table 3, panel B, where column 1 is for the basic model; column 2 adds control variables; and column 3 additionally includes a tax office fixed effect.

According to our results (panel B, column 3), among taxpayers who received the treatment, the simplification letter produced the greatest effect on timely penalty settlement, increasing the probability of prompt penalty payment by 5.1 pp., equivalent to a 37 per cent increase relative to the control group. This effect is followed in magnitude by the deterrence letter, which increased the probability of prompt settlement by 4.1 pp. (an increase of 30 per cent). The information letter increased the probability of timely settlement by 1.9 pp. (an increase of 14 per cent). Again, we can distinguish between the effect of the information letter relative to the other two treatments at the five per cent level, but we cannot distinguish statistically between the effects of the simplification and deterrence letters.

5.2. Robustness Checks

We explore the robustness of our results by performing treatment effect heterogeneity analysis across regions; across employed and self-employed taxpayers; and across late filers, late payers, and those taxpayers who both file late and pay late. Our results are reported in Tables 4-6: although each table reports both ITT (columns 1 and 2) and LATE (columns 3 and 4) estimates, we shall focus in the text on the (more conservative) ITT estimates. In almost all cases, the loss of statistical power entailed by splitting the sample renders the treatment effects for the information letter statistically insignificant at conventional levels. We therefore focus on the simplification and deterrence letters, whose effect proves in all cases to be robust to the splits of the sample we consider.

First considering possible regional heterogeneity, in the Indonesian context, the starkest regional differences arise between the island of Java – home to Jakarta, the capital city – and the remaining (less developed) islands. Such regional differences can be informative as to the mediating effect of the level of development. We would expect our findings for Java to approximate results in developed country contexts, whereas results outside of Java might be considered a "purer" indication of effects in less developed environments.

We find (Table 4) that the estimated treatment effects are lower for taxpayers in Java than in the remaining three regions. The level of development, it seems, tends to reduce responsiveness to the letter interventions. Outside Java, the deterrence letter has a treatment effect approximately twice as large as it does inside Java. The differential is larger for the simplification letter, being almost four times as large. Consistent with these findings would be the notion that, in areas with lower levels of formal education, understanding how to pay a penalty is a more prevalent barrier to timely settlement.

< Table 4 here – see p. 24>

Turning to possible heterogeneity between late filers/payers, recall that our sample comprises of taxpayers fined for late filing only (65 per cent); taxpayers fined for late payment of taxes associated with a filing (6 per cent); and taxpayers fined both for late filing and for late payment (29 per cent). While the late filing attracts a fixed penalty of Rp100,000, the penalty for late payment depends on the amount of tax owed, the extent of lateness, and the applicable penalty interest rate. The median penalty faced by late payers (only) in our sample is Rp11,103 (well below the fine for late filing), while those who file late and pay late face a median penalty of Rp112,408.

The clearest finding from this analysis is for the deterrence letter (Table 5), where the effect size is monotone in the group-average level of penalties. Thus, the lowest effect size is for late payers only, and the highest effect size is for taxpayers who both file late and pay late. The latter effect size is approximately twice as large as for taxpayers who only file late. This pattern of results suggests that emphasising deterrence is increasingly salient the higher are the stakes.

< Table 5 here – see p. 24>

The last source of heterogeneity we explore is by employment status. We split taxpayers into employees and non-employees (i.e., self-employed), as classified by the DJP. As employees commonly have their income tax withheld by their employer, they typically contact the tax office only rarely. By contrast, non-employees engage in regular income tax return filing. Therefore, one might expect non-employees to be more accustomed to tax procedures. Somewhat confounding this expectation, however, non-employees respond more strongly to the simplification letter than employees (Table 6). Both taxpayer types respond to the deterrence letter similarly.

< Table 6 here – see p. 25>

5.3. Cost-Benefit Analysis

Cost-benefit analysis compares the net benefit of an intervention to its cost. A ratio of 1:1 indicates that the net benefit equals its cost.¹⁶ Policymakers can use this measure to compare intervention outcomes and surmise the potential net benefit from scaling-up the most gainful intervention.

We summarise the comparison of the costs and benefits of the trial in Table 7. We base our figures on the average fine of \$6.50 fine per taxpayer in our sample. To calculate potential revenue under each treatment, we multiply the predicted probability of timely settlements by the sample size (10,067 taxpayers), assuming all settlements are by cash payment.¹⁷ The total benefit per taxpayer allows for a reduction in printing and delivering warning letters, worth an estimated \$0.70 per taxpayer.

< Table 7 here – see p. 25 >

¹⁶ Net benefit is the benefit of sending the intervention letter (including additional revenue and reduction of cost of performing heightened collection efforts) after taking into account the cost of the intervention.

¹⁷ The predicted probabilities of timely settlement are those from the ITT analysis of Section 4.

The treatments result in yield-to-cost ratios (Table 7) of 20:2 (10:1) for the simplification letter; 19:2 for the deterrence letter, and 13:2 for the information letter. According to these ratios, deterrence and simplification nudges are highly cost-effective. For these two nudges, the ratios achieved exceed the 8:1 ratio reported by Gould and Rablen (2020) for traditional audit-based enforcement programs in the UK. Also, the benefit-to-cost ratio for deterrence is higher than the equivalent ratio of a little under 4:1 that Sinning and Zhang (2023) report in their experiment on speeding ticket compliance in Australia.

6. Concluding Remarks and Policy Recommendations

We study the effect of behavioural nudges among more than 10,000 taxpayers issued tax penalties. We perform the study in Indonesia where – as we anticipate is the case in many developing countries – extant levels of timely penalty settlement are low. In this context, we provide novel evidence of the effect of deterrence and non-deterrence (information and simplification) letters on the timely settlement of tax penalties.

Economic theory has long emphasised the important role of deterrence and its effective communication. And, like many prior studies, we indeed observe that communicating deterrence improves settlement rates. Perhaps more surprising, but nonetheless in line with recent evidence, is that – although the effects of the simplification letter are difficult to distinguish statistically from those of the deterrence letter – the balance of evidence points to simplification being the most effective of the intervention letters. Based on our cost-benefit analysis, were the DJP to send 100,000 simplification letters, this would generate a net benefit of approximately Rp3.7 billion (relative to only sending the standard Notice of Tax Penalties).

Both the simplification and deterrence treatments are found to statistically outperform the information treatment, although all three treatments increase the timely settlement of penalties at conventional significance levels. As information letters have proved highly effective in some other contexts, however, we echo the observation (e.g., Luttmer and Singhal, 2014; Sunstein, 2017; Dušek et al., 2022) that a central question for the nudge literature going forward must be to develop a coherent understanding of why nudges work in some contexts but fail in others. Dušek et al. (2022) interpret nudges as inducing an updating of prior beliefs. Nudges work when belief updating occurs in the desired direction and to a sufficient degree.

If Dušek et al. (2022) are right, the belief updating induced by a nudge will be a function of both the characteristics of the nudge and the characteristics of the initial environment into which it is introduced. Qualitative interviews we conducted before data collection highlighted extant weaknesses relating to the clarity of the Notice of Tax Penalties, with respondents reporting confusion about how they were supposed to react to it. Thus, the strong findings we report for simplification may partly owe to the weakness of the initial conditions in which the nudge was applied.

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Tables

Treatment Type	Main Message	Potential Mechanism	Ν
Control	No intervention letter attached		5,085
Deterrence	Failure to settle the NTP before the deadline may result in heightened actions by the DJP	Loss aversionSalience	1,627
Information	States the taxpayer's outstanding NTP balance and ways to settle the NTP	InattentionComplete information	1,721
Simplification	Lists the billing codes needed to pay the NTP and the procedure to generate billing codes	 Relax information constraints Simplify complex procedures 	1,634
Total			10,067

Table 1: Treatment Design and Assignment

	Control	Deterrence	Information	Simplification	
	(N = 5,085)	(N = 1,627)	(N = 1,721)	(N = 1,634)	p-value
Age of Taxpayer (years)					0.803
1: 0-19	42 (0.8%)	17 (1.0%)	14 (0.8%)	7 (0.4%)	
2: 20-29	748 (14.7%)	235 (14.4%)	259 (15.0%)	253 (15.5%)	
3: 30-39	1,246 (24.5%)	377 (23.2%)	419 (24.3%)	377 (23.1%)	
4: 40-49	1,188 (23.4%)	400 (24.6%)	430 (25.0%)	409 (25.0%)	
5: >50	1,861 (36.6%)	598 (36.8%)	599 (34.8%)	588 (36.0%)	
Years Registered					0.776
1: 0-2	774 (15.2%)	246 (15.1%)	271 (15.7%)	244 (14.9%)	
2: >2-5	839 (16.5%)	274 (16.8%)	294 (17.1%)	274 (16.8%)	
3: >5-7	403 (7.9%)	114 (7.0%)	141 (8.2%)	128 (7.8%)	
4: >7	3,069 (60.4%)	993 (61.0%)	1,015 (59.0%)	988 (60.5%)	
Occupation					0.983
0: Employee	2,760 (54.3%)	891 (54.8%)	934 (54.3%)	884 (54.1%)	
1: Non-employee	2,325 (45.7%)	736 (45.2%)	787 (45.7%)	750 (45.9%)	
Strategic Taxpayer Status					0.592
0: No	5,040 (99.1%)	1,617 (99.4%)	1,707 (99.2%)	1,624 (99.4%)	
1: Yes	45 (0.9%)	10 (0.6%)	14 (0.8%)	10 (0.6%)	
VAT Taxpayer Status	· · · · ·				0.341
0: No	5036 (99.0%)	1617 (99.4%)	1711 (99.4%)	1620 (99.1%)	
1: Yes	49 (1.0%)	10 (0.6%)	10 (0.6%)	14 (0.9%)	

Table 2: Taxpayer Characteristics Summary Statistics and Balance Test Result

		Itosuit			
	Control	Deterrence	Information	Simplification	
	(N = 5,085)	(N = 1,627)	(N = 1,721)	(N = 1,634)	p-value
Distance from Tax Office (km)					0.597
1: 0-5	827 (16.3%)	246 (15.1%)	299 (17.4%)	288 (17.6%)	
2: >5-10	1,265 (24.9%)	414 (25.4%)	426 (24.8%)	392 (24.0%)	
3: >10-15	718 (14.1%)	237 (14.6%)	243 (14.1%)	225 (13.8%)	
4: >15	2,275 (44.7%)	730 (44.9%)	753 (43.8%)	729 (44.6%)	
Last Year Tax Return Filing Ch	nannel				0.765
1: No Report	1,239 (24.4%)	379 (23.3%)	441 (25.6%)	414 (25.3%)	
2: Electronic	3,417 (67.2%)	1,124 (69.1%)	1,136 (66.0%)	1,082 (66.2%)	
3: Hardcopies	429 (8.4%)	124 (7.6%)	144 (8.4%)	138 (8.4%)	
Reported Annual Taxable Incon	ne (Rp m.)				0.828
1: 0	3,415 (67.2%)	1,104 (67.9%)	1,154 (67.1%)	1,108 (67.8%)	
2: 1-50	242 (4.8%)	83 (5.1%)	86 (5.0%)	75 (4.6%)	
3: 51-250	703 (13.8%)	205 (12.6%)	233 (13.5%)	231 (14.1%)	
4: 251-500	218 (4.3%)	73 (4.5%)	70 (4.1%)	78 (4.8%)	
5: >500	507 (10.0%)	162 (10.0%)	178 (10.3%)	142 (8.7%)	
Annual Tax Payment (Rp m.)					0.711
1: 0	2,977 (58.5%)	984 (60.5%)	1,004 (58.3%)	963 (58.9%)	
2: >0-2.5	940 (18.5%)	280 (17.2%)	296 (17.2%)	281 (17.2%)	
3: >2.5-30	877 (17.2%)	273 (16.8%)	335 (19.5%)	298 (18.2%)	
4: >30-62.5	140 (2.8%)	45 (2.8%)	39 (2.3%)	46 (2.8%)	
5: >62.5	151 (3.0%)	45 (2.8%)	47 (2.7%)	46 (2.8%)	
Total Unpaid Penalties (Rp)					0.928
1: 0	2,976 (58.5%)	969 (59.6%)	987 (57.4%)	945 (57.8%)	
2: >0-Avg. Monthly Pmt.	493 (9.7%)	132 (8.1%)	183 (10.6%)	170 (10.4%)	
3: >Avg. Monthly Pmt.	1,616 (31.8%)	526 (32.3%)	551 (32.0%)	519 (31.8%)	
Audited Status		. ,	. ,	. ,	0.725
0: No	4,980 (97.9%)	1,586 (97.5%)	1,685 (97.9%)	1,597 (97.7%)	
1: Yes	105 (2.1%)	41 (2.5%)	36 (2.1%)	37 (2.3%)	

Table 2 (Continued): Taxpayer Characteristics Summary Statistics and Balance Test Result

balance test (one-way ANOVA) for each baseline characteristic across treatment groups.

	(1)	(2)	(3)
Deterrence	0.037***	0.039***	0.037***
	(0.011)	(0.011)	(0.012)
Information	0.015	0.014	0.017*
	(0.01)	(0.01)	(0.01)
Simplification	0.046***	0.045***	0.045***
	(0.011)	(0.011)	(0.015)
Constant	0.139***	0.113***	-0.082
	(0.005)	(0.039)	(0.053)
Test: Deterrence vs. Information	0.081	0.037	0.047
Test: Deterrence vs. Simplification	0.502	0.703	0.334
Test: Information vs. Simplification	0.015	0.013	0.023
Taxpayer Characteristics	NO	YES	YES
Tax Office Fixed Effect	NO	NO	YES
Control Group Mean	0.139	0.139	0.139
R-Squared	0.003	0.041	0.102
Ν	10,067	10,067	10,067
Panel B – Local A	verage Treatment Effe	ect	
	(1)	(2)	(3)
Deterrence	0.041***	0.044***	0.041***
	(0.012)	(0.012)	(0.013)
Information	0.017	0.015	0.019*
	(0.012)	(0.011)	(0.011)
Simplification	0.052***	0.050***	0.051***
	(0.013)	(0.012)	(0.015)
Constant	0.140***	0.113***	-0.083
	(0.005)	(0.039)	(0.052)
Test: Deterrence vs. Information	0.085	0.039	0.031
Test: Deterrence vs. Simplification	0.480	0.678	0.278
Test: Information vs. Simplification	0.015	0.014	0.010
Taxpayer Characteristics	NO	YES	YES
Tax Office Fixed Effect	NO	NO	YES
Control Group Mean	0.139	0.139	0.139
R-Squared	0.004	0.043	0.102
N	10,067	10,067	10,067

Table 3: Treatment Effect Estimates

Outcome: Settlement within 37 days of issuance. Taxpayer characteristics are per Table 2. The table reports p-values associated with the F-test for equality of treatment effects across the experimental groups (Deterrence vs. Information, Deterrence vs. Simplification, and Information vs. Simplification, respectively). Panel A reports the results from a linear probability model, while Panel B reports the results from instrumental variable regressions. Robust standard errors are in parentheses. *p < 0.1, **p < 0.05, and ***p < 0.01.

	ľ	ГТ	LA	TE
	Java	Others	Java	Others
	(1)	(2)	(3)	(4)
Deterrence	0.03**	0.059***	0.034**	0.062***
	(0.013)	(0.018)	(0.015)	(0.019)
Information	0.015	0.011	0.017	0.012
	(0.013)	(0.017)	(0.014)	(0.018)
Simplification	0.023*	0.087***	0.026*	0.095***
	(0.013)	(0.019)	(0.015)	(0.02)
Constant	0.089**	0.145	0.089**	0.144
	(0.04)	(0.127)	(0.04)	(0.126)
R-Squared	0.0469	0.0687	0.0481	0.0675
Ν	6,782	3,285	6,782	3,285

Table 4: Treatment Effect by Region

Outcome: Settlement within 37 days of issuance. Columns 1 and 2 are estimated using a linear probability model. Columns 3 and 4 are estimated using an instrumental variable regression. All estimations include taxpayer characteristics (per Appendix 5) as controls. Robust standard errors are in parentheses. *p < 0.1, **p < 0.05, and ***p < 0.01.

ITT			LATE			
Late Payment Only	Late Filing Only	Late Payment and Filing	Late Payment Only	Late Filing Only	Late Payment and Filing	
(1)	(2)	(3)	(4)	(5)	(6)	
0.02	0.032***	0.061***	0.025	0.035***	0.071***	
(0.053)	(0.012)	(0.023)	(0.062)	(0.013)	(0.026)	
0.073	0.008	0.021	0.092	0.009	0.024	
(0.05)	(0.011)	(0.021)	(0.062)	(0.012)	(0.025)	
0.007	0.05***	0.044**	0.009	0.055***	0.051**	
(0.049)	(0.013)	(0.022)	(0.056)	(0.014)	(0.026)	
0.258	0.071*	0.237**	0.253	0.072*	0.233**	
(0.376)	(0.042)	(0.114)	(0.367)	(0.041)	(0.113)	
0.104	0.0228	0.0686	0.1028	0.0256	0.0676	
584	6,588	2,895	584	6,588	2,895	
	Only (1) 0.02 (0.053) 0.073 (0.05) 0.007 (0.049) 0.258 (0.376) 0.104	Late Payment OnlyLate Filing Only(1)(2)0.020.032***0.020.032***(0.053)(0.012)0.0730.008(0.05)(0.011)0.0070.05***(0.049)(0.013)0.2580.071*(0.376)(0.042)0.1040.02285846,588	Late Payment OnlyLate Filing OnlyLate Payment and Filing(1)(2)(3)0.020.032***0.061***(0.053)(0.012)(0.023)0.0730.0080.021(0.05)(0.011)(0.021)0.0070.05***0.044**(0.049)(0.013)(0.022)0.2580.071*0.237**(0.376)(0.042)(0.114)0.1040.02280.06865846,5882,895	Late Payment OnlyLate Filing onlyLate Payment and Filing (OnlyLate Payment Only(1)(2)(3)(4)0.020.032***0.061***0.025(0.053)(0.012)(0.023)(0.062)0.0730.0080.0210.092(0.05)(0.011)(0.021)(0.062)0.0070.05***0.044**0.009(0.049)(0.013)(0.022)(0.056)0.2580.071*0.237**0.253(0.376)(0.042)(0.114)(0.367)0.1040.02280.06860.10285846,5882,895584	Late Payment OnlyLate Filing and Filing and Filing OnlyLate Payment OnlyLate Filing Only(1)(2)(3)(4)(5)0.020.032***0.061***0.0250.035***0.020.032***0.061***0.025(0.013)0.053(0.012)(0.023)(0.062)(0.013)0.0730.0080.0210.0920.0090.055(0.011)(0.021)(0.062)(0.012)0.0070.05***0.044**0.0090.055***0.007(0.013)(0.022)(0.056)(0.014)0.2580.071*0.237**0.2530.072*(0.376)(0.042)(0.114)(0.367)(0.041)0.1040.02280.06860.10280.02565846,5882,8955846,588	

Table 5: Treatment Effect by Late Filers/Late Payers/Late Filers and Payers

Outcome: Settlement within 37 days of issuance. Columns 1, 2, and 3 are estimated using a linear probability model. Columns 4, 5 and 6 are estimated using an instrumental variable regression. All estimations include taxpayer characteristics (per Appendix 5) as controls. Robust standard errors are in parentheses. *p < 0.1, **p < 0.05, and ***p < 0.01.

		ITT	Ι	LATE
	Employees	Employees Non-employee		Non-employee
	(1)	(2)	(3)	(4)
Deterrence	0.039***	0.039**	0.043***	0.044**
	(0.015)	(0.016)	(0.016)	(0.018)
Information	0.012	0.013	0.014	0.014
	(0.014)	(0.015)	(0.015)	(0.017)
Simplification	0.03**	0.062***	0.033**	0.069***
	(0.015)	(0.016)	(0.016)	(0.018)
Constant	0.163	0.044	0.162	0.044
	(0.1)	(0.04)	(0.099)	(0.04)
R-Squared	0.0507	0.0419	0.0525	0.0414
Ν	5,469	4,598	5,478	4,659

Table 6: Treatment Effect by Taxpayer Occupation

Outcome: Settlement within 37 days of issuance. Columns 1 and 2 are estimated using a linear probability model. Columns 3 and 4 are estimated using an instrumental variable regression. All estimations include taxpayer characteristics (per Appendix 5) as controls. Robust standard errors are in parentheses. *p < 0.1, **p < 0.05, and ***p < 0.01.

	(1) Control	(2) Deterrence	(3) Information	(4) Simplification
N	10,067	10,067	10,067	10,067
Prompt Payment Probability (%)	13.9	17.6	15.6	18.4
Amount of timely payments	1,400	1,770	1,570	1,850
The average value of NTP ¹	6.5	6.5	6.5	6.5
Total revenue	9,300	11,800	10,500	12,400
Direct benefit ²		2,500	1,200	3,100
Direct benefit/taxpayer		1.4	0.8	1.7
+ reduction in warning letter ³		0.7	0.7	0.7
Total benefit		2.1	1.5	2.4
- Cost of intervention ⁴		0.2	0.2	0.2
Net benefit per taxpayer		1.9	1.3	2.2
Benefit-cost ratio		9.5:1	6.5:1	11:1

Table 7: Cost-Benefit Analysis of The Intervention (US \$)

¹Based on the late tax return filing penalty for individual taxpayers of Rp100,000 (\$6.50).

²Difference between treatment and control, e.g., (2) - (1) or (3) - (1).

³Consists of the cost of printing and postage of warning letter.

⁴Only consists of the cost of printing the intervention letter; no additional delivery cost is required because the tax office must send the NTP regardless of the intervention.

 ${}^{5}\$1 = Rp15,500.$

Appendix 1

Example of Standard Notice of Tax Penalties (in Indonesian and English)

Page 1 - In Indonesian

SURAT TAGIHAN PAJAK PAJAK PENGHASILAN							
Nom	ior		:	PAJAK	Tanggal Pener	bitan :	
	100000	in Pajal			Tanggal Jatuh	Contraction of the second second	2018/2011/10/06/06/06/06/06/06/06/06/06/06/06/06/06
L.	Peng	haslian a Wajib		penelltlan/pemerlksaan/per	neriksaan ulang ¹⁾	atas pelaksa	anaan kewajiban Paja
п.		penelit ih seba		emeriksaan/pemeriksaan ula rikut:	ng ¹⁾ tersebut di a	tas, jumlah ya	ng masih harus dibaya
	1.			ajak/Pokok Pajak yang harus	dibayar		Rp/US\$ ¹⁾ Rp/US\$ ¹⁾
	3.		dibay ng diba	ar ayar (1-2)			Rp/US\$1)
	4.	Sanks	si Adm	inistrasi:			1.1.1.1.1
		a.	tenta Perpa diuba 11 Ta atas	a Pasal 7 Undang-Undang No ng Ketentuan Umum dan Tat ajakan sebagaimana telah bel ih terakhir dengan Undang-U ihun 2020 (KUP) keterlambatan Penyampalan sertlahuan (SPT) Masa/Tahun	a Cara berapa kali ndang Nomor Surat	Rp/US\$ ¹⁾	
		b.	Bung SPT	a Pasal 8 (2) KUP atas pembe Fahunan yang mengakibatkar adl lebih besar	etulan	Rp/US\$ ¹⁾	
		c.	atas	a Pasal 8 (2a) KUP pembetulan SPT Masa PPh Pa jakibatkan utang pajak menja		Rp/US\$1)	
		d.	atas dilak peml	a Pasal 9 (2a) KUP pembayaran atau penyetoran ukan setelah tanggal jatuh te payaran atau penyetoran paja ang untuk suatu saat atau Ma	mpo ik yang	Rp/US\$ ¹⁾	
		e.	Bung atas dilak	a Pasal 9 (2b) KUP pembayaran atau penyetoran ukan setelah tanggal Jatuh te ampalan SPT Tahunan	pajak yang	Rp/US\$ ¹⁾	
		f.	Bung atas dlbay	a Pasal 14 (3) KUP PPh dalam tahun berjalan tid ar; atau atas kekurangan pe	mbayaran	Rp/US\$ ¹⁾	
		g.	Bung Dalar menu keku peng kurar	a akibat salah tulis dan/atau s a Pasai 19 (3) KUP n hal Wajib Pajak yang diper unda penyampaian SPT tahun rangan pembayaran pajak ak hitungan pajak sementara pa dari jumlah pajak yang sel	bolehkan an, atas Ibat Jak terutang	Rp/US\$ ¹⁾	
		h.	terut Jumi	ang ah sanksi administrasi (a+b+	c+d+e+f+g)		Rp/US\$1)
	5.	Jumla	ih yan	g masih harus dibayar (3+4.1	1)		Rp/US\$1)
т	erhilan	a :					
akul	kan pe	mbaya	ran se	belum tanggal jatuh tempo. <i>i</i> Ikan penagihan pajak dengar	Apabila sampai den		
(epa	da					Kepal	tur Jenderal Pajak a Kantor/ a Seksl ²⁾

Page 2 - In English

Number Issuing Date : Due Date Month/Tax Year Due Date I. An <assessment audit="" reaudit'=""> has been conducted on tax obligation of: Taxpayer's Name Due Date Tax Identification Number Tax Identification Number II. From the <assessment audit="" reaudit'=""> that has been done, the total tax penalities that must be paid is: 1. Tax Instalment/Tax Principal that must be paid Rp/US 2. Has been paid Rp/US 3. Underpayment (1-2) Rp/US 4. Administrative Penaltiles: Rp/US a. Fine - Art. 7 Law No. 6/1983 regarding General Provisions and Taxation Procedures (GPTP) that has been changed recently with Law No. 11/2020 on Monthly/Annual income Tax Return Late Filing Rp/USS1 b. Interest - Art. 8 (2) (GPTP) Rp/USS1 Annual income Tax Return Amendment, which resulted in higher underpaid taxes Rp/USS1 d. Interest - Art. 9 (2a) (GPTP) Rp/USS1 Monthly Income Tax Late Payment Rp/USS1 e. Interest - Art. 9 (2b) (GPTP) Rp/USS1 Monthly Income Tax Late Payment Rp/USS1 f. Interest - Art. 9 (2b) (GPTP) Rp/USS1 Unpaid or underpaid taxes, or underpaid taxes due to miscaculation/mistyping Rp/USS1 Underpaid taxes due to difference in temporary and real calculation for taxpa</assessment></assessment>						
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b. Interest – Art. 8 (2) (GPTP) Rp/USS ¹ Annual Income Tax Return Amendment, which resulted in higher underpaid taxes c. Interest – Art. 8 (2a) (GPTP) Rp/USS ¹ Monthly Income Tax Return Amendment, which resulted in higher underpaid taxes d. Interest – Art. 9 (2a) (GPTP) Rp/USS ¹ Monthly Income Tax Late Payment e. Interest – Art. 9 (2b) (GPTP) Rp/USS ¹ Annual Income Tax Late Payment f. Interest – Art. 4 (3) (GPTP) Rp/USS ¹ Unpaid or underpaid taxes; or underpaid taxes due to miscalculation/mistyping g. Interest – Art. 9 (3) (GPTP) Rp/USS ¹ Underpaid taxes due to difference in temporary and real calculation for taxpayers extending the annual income tax return fling h. Total administrative penalties that must be paid (3 + 4h)		ne				
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which resulted in higher underpaid taxes Rp/USS1 C. Interest – Art. 8 (2a) (GPTP) Rp/USS1 Monthly Income Tax Return Amendment, which resulted in higher underpaid taxes Rp/USS1 d. Interest – Art. 9 (2a) (GPTP) Rp/USS1 Monthly Income Tax Late Payment Rp/USS1 e. Interest – Art. 9 (2b) (GPTP) Rp/USS1 Monthly Income Tax Late Payment Rp/USS1 f. Interest – Art. 4 (3) (GPTP) Rp/USS1 Unpaid or underpaid taxes; or underpaid taxes due to miscalculation/mistyping Rp/USS1 Underpaid taxes due to difference in temporary and real calculation for taxpayers extending the annual income tax return fling Rp/USS1 f. Total administrative penalties Rp/U f. Total underpayment and administrative penalties that must be paid (3 + 4h) Rp/U		Rp/US\$1				
c. Interest – Art. 8 (2a) (GPTP) Rp/USS ¹ Monthly income Tax Return Amendment, which resulted in higher runderpaid taxes d. Interest – Art. 9 (2a) (GPTP) Rp/USS ¹ Monthly income Tax Late Payment e. Interest – Art. 9 (2b) (GPTP) Rp/USS ¹ Annual income Tax Late Payment f. Interest – Art. 14 (3) (GPTP) Rp/USS ¹ Unpaid or underpaid taxes; or underpaid taxes due to miscalculation/mistyping g. Interest – Art. 19 (3) (GPTP) Rp/USS ¹ Underpaid taxes due to difference in temporary and real calculation for taxpayers extending the annual income tax return filing h. Total administrative penalties Rp/U that must be paid (3 + 4h)						
Monthly Income Tax Return Amendment, which resulted in higher underpaid taxes d. Interest – Art. 9 (2a) (GPTP) Rp/US\$1 Monthly Income Tax Late Payment Rp/US\$1 e. Interest – Art. 9 (2b) (GPTP) Rp/US\$1 Annual Income Tax Late Payment Rp/US\$1 f. Interest – Art. 14 (3) (GPTP) Rp/US\$1 Unpaid or underpaid taxes; or underpaid taxes due to miscalculation/mistyping Rp/US\$1 Underpaid taxes due to difference in temporary and real calculation for taxpayers extending the annual income tax return filing Rp/US\$1 b. Total administrative penalties Rp/U 5. Total underpayment and administrative penalties that must be paid (3 + 4h) Rp/U		0-4001				
which resulted in higher underpaid taxes Rp/US\$1 d. Interest – Art. 9 (2a) (GPTP) Rp/US\$1 Monthly Income Tax Late Payment Rp/US\$1 e. Interest – Art. 9 (2b) (GPTP) Rp/US\$1 Annual Income Tax Late Payment Rp/US\$1 f. Interest – Art. 4 (3) (GPTP) Rp/US\$1 Unpaid or underpaid taxes; or underpaid taxes due to miscalculation/mistyping g. Interest – Art. 19 (3) (GPTP) Rp/US\$1 Underpaid taxes due to difference in temporary and real calculation for taxpayers extending the annual income tax return fling Rp/US\$1 h. Total administrative penalties Rp/U 5. Total underpayment and administrative penalties that must be paid (3 + 4h) Rp/U		Rp/USS1				
d. Interest – Art. 9 (2a) (GPTP) Rp/USS1 Monthly Income Tax Late Payment Rp/USS1 e. Interest – Art. 9 (2b) (GPTP) Rp/USS1 Annual Income Tax Late Payment Rp/USS1 f. Interest – Art. 14 (3) (GPTP) Rp/USS1 Unpaid or underpaid taxes; or underpaid taxes due to miscalculation/mistyping Rp/USS1 Underpaid taxes due to difference in temporary and real calculation for taxpayers extending the annual income tax return filing Rp/USS1 5. Total underpayment and administrative penalties that must be paid (3 + 4h) Rp/U						
Monthly Income Tax Late Payment e. Interest – Art. 9 (2b) (GPTP) Rp/US\$1 Annual Income Tax Late Payment f. Interest – Art. 14 (3) (GPTP) Rp/US\$1 Unpaid or underpaid taxes; or underpaid taxes due to miscalculation/mistyping g. Interest – Art. 19 (3) (GPTP) Rp/US\$1 Underpaid taxes due to difference in temporary and real calculation for taxpayers extending the annual income tax return filing Rp/US\$1		Pp/115\$1				
e. Interest – Art. 9 (2b) (GPTP) Rp/USS ¹ Annual income Tax Late Payment f. Interest – Art. 14 (3) (GPTP) Rp/USS ¹ Unpaid or underpaid taxes; or underpaid taxes due to miscalculation/mistyping g. Interest – Art. 19 (3) (GPTP) Underpaid taxes due to difference in temporary and real calculation for taxpayers extending the annual income tax return filing h. Total administrative penalties that must be paid (3 + 4h) Rp/USS ¹ Rp/USS ¹ R		Rp1000				
Annual Income Tax Late Payment f. Interest – Art. 14 (3) (GPTP) Unpaid or underpaid taxes; or underpaid taxes due to miscalculation/mistyping g. Interest – Art. 19 (3) (GPTP) Underpaid taxes due to difference in temporary and real calculation for taxpayers extending the annual income tax return filing h. Total administrative penalties F. Total underpayment and administrative penalties that must be paid (3 + 4h)		Rp/US\$1				
f. Interest – Art. 14 (3) (GPTP) Rp/USS ¹ Unpaid or underpaid taxes; or underpaid taxes due to miscalculation/mistyping g. Interest – Art. 19 (3) (GPTP) Rp/USS ¹ Underpaid taxes due to difference in temporary and real calculation for taxpayers extending the annual income tax return filing h. Total administrative penalties Rp/U 5. Total underpayment and administrative penalties Rp/U		10.000				
Unpaid or underpaid taxes; or underpaid taxes due to miscalculation/mistyping g. Interest – Art. 19 (3) (GPTP) Underpaid taxes due to difference in temporary and real calculation for taxpayers extending the annual income tax return filing h. Total administrative penalties Total underpayment and administrative penalties that must be paid (3 + 4h)		Rp/US\$1				
g. Interest – Art. 19 (3) (GPTP) Rp/US\$1 Underpaid taxes due to difference in temporary and real calculation for taxpayers extending the annual income tax return filing h. Total administrative penalties Rp/U 5. Total underpayment and administrative penalties Rp/U that must be paid (3 + 4h)						
Underpaid taxes due to difference in temporary and real calculation for taxpayers extending the annual income tax return filing h. Total administrative penalties Rp/U 5. Total underpayment and administrative penalties Rp/U that must be paid (3 + 4h)	due to miscalculation/mistyping					
and real calculation for taxpayers extending the annual income tax return filing h. Total administrative penalties Rp/U 5. Total underpayment and administrative penalties Rp/U that must be paid (3 + 4h)	g. Interest - Art. 19 (3) (GPTP)	Rp/US\$1				
annual income tax return filing h. Total administrative penalties Rp/U: 5. Total underpayment and administrative penalties Rp/U that must be paid (3 + 4h)	Underpaid taxes due to difference in temp	orary				
h. Total administrative penalties Rp/U 5. Total underpayment and administrative penalties Rp/U that must be paid (3 + 4h)		g the				
5. Total underpayment and administrative penalties Rp/U that must be paid (3 + 4h)						
that must be paid (3 + 4h)	h. Total administrative penalties	Rp/US\$1				
that must be paid (3 + 4h)	Total underpayment and administrative pena	ties Rp/US\$1				
In words:	that must be paid (3 + 4h)					
	words:					
ay before the due date. Any overdue will be followed up by using re listress warrant).		e followed up by using reprimant				

F.5.1.23.

Page 2 - In Indonesian

			AT TAGIHAN PAJAK AK PENGHASILAN		
		Nomor Masa/Tahun Pajak Tanggal Penerbitan Tanggal Jatuh Tempo			
ama PWP	a Wajib Pajak	1			
				JUMLAH RUPIAH	/US\$ ¹⁾ MENURU
No.		URAIAN		WAJIB PAJAK	FISKUS
1 2 3 4	Telah dibayar Kurang dibay, Sanksi Admin a. Denda b. Bunga c. Bunga d. Bunga f. Bunga g. Bunga	ar (1-2)			
5		masih harus dibayar (3+4.h)	d+e+r+g)		
) Co	ret yang tidak .23				
					·
					·
					·

Page 2 - In English

	NOTICE OF TAX PENALT INCOME TAXES	nes	
	Number : Month/Tax Year : Issuing Date : Due Date :		
	ayer's Name : lentification Number :		
	2	Amount (Rp/US	\$1) According to
No.	Description	Taxpayer	Tax Officer
1. 2.	Tax Instalment/Tax Principal that must be paid Has been paid		
3.	Underpayment (1-2)	-	
4.	a. Fine – Art. 7 b. Interest – Art. 8 (2) c. Interest – Art. 8 (2a) d. Interest – Art. 9 (2a) e. Interest – Art. 9 (2b) f. Interest – Art. 14 (3) g. Interest – Art. 14 (3) h. Total Administrative Penalties (a+b+c+d+e+f+g)		
5.	Total underpayment and administrative penalties that must be paid (3 + 4h)		
.23			

Appendix 2

Intervention Letters (in Indonesian and English)

Deterrence - In Indonesian

	an/penyetora	in pajak	Rp	xxx
Semoga Saudara selalu dalam keadaan sehat da <mark>Serikut rincian STP yang diterbitkan:</mark>	an mendapa	itkan kelancara	n dalam s	egala aktivitas
No. No. STP Jenis Sanksi	Jenis Pajak	Masa/Tahun	Jumlah	Jatuh Tempo
xx xxx xxx	xxx	ххх	Rp XXX	XXX
Apa yang harus saya lakukan? Segera lunasi STP sebelum tanggal jatuh temp Gunakan kode billing untuk melakukan pemb nemiliki kode billing, buat kode billing terlebih	bayaran di		s perseps	si. Jika b e

Memerlukan informasi dan bantuan? Hubungi kami pada hari dan jam kerja:

<Nama AR> (Account Representative) Kantor Pelayanan Pajak Pratama <Nama KPP> <Alamat KPP> <Telepon KPP> <Whatsapp KPP>





Deterrence - In English

Taxpayer's Address>	
ou were issued Notice of Tax Penalties (STP)	
STP could be issued due to: > You are late or not filing your monthly or annual tax return (SPT)	Nilai STP

No.	STP Number	Penalty Detail	Tax Article	Month/Year	Amount (Rp)	Due Date
xx	XXX	XXX	XXX	XXX	Rp XXX	XXX

What should you do?

Please pay the STP before the due date.

You could use the biller code to pay the STP at the closest banks/post offices. If there is no biller code attached to this STP, or the biller code has been expired, please generate one as directed on the back page of this letter.



Any Unpaid Penalties:

will be processed further to issuance of distress warrant, confiscation of assets, auction, or other active collection efforts such as bank account freezing, immigration prevention, and potentially taken as hostage in jail.

Need more information or assistance?

Do not hesitate to contact us in our working hours.

<Tax Office's Name> <Tax Office's Name> <Tax: Office's Address> <Phone> <Whatsapp>





Information - In Indonesian



Gunakan kode billing untuk melakukan pembayaran di bank/kantor pos persepsi. Jika belum memiliki kode billing, buat kode billing terlebih dahulu dengan cara seperti tercetak di halaman belakang surat ini.

Anda juga masih memiliki tunggakan sebesar: Rp XXX

Apa hak saya terkait STP yang saya terima?

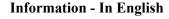
Anda dapat mengajukan permohonan angsuran atau penundaan (hanya pokok pajak, untuk paling lama 12 bulan), pengurangan sanksi, penghapusan sanksi, atau pembatalan STP (jika menurut Anda pengenaan sanksi kurang tepat).

Hubungi kami melalui kontak di bawah.

Memerlukan informasi dan bantuan? Hubungi kami pada hari dan jam kerja:

<Nama AR> (Account Representative) Kantor Pelayanan Pajak Pratama <Nama KPP> <Alamat KPP> <Telepon KPP> <Whatsapp KPP>





To: Mr/Mrs <Taxpayer's Name>

<Taxpayer's Address>

You were issued Notice of Tax Penalties (STP)

STP could be issued due to:	Nilai STP
 You are late or not filing your monthly or annual tax return (SPT) You are late or not paying your taxes 	<rp xxx=""></rp>

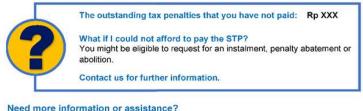
We hope you are healthy and wish you every success. Below is the detail of the STP that have been issued to you:

No.	STP Number	Penalty Detail	Tax Article	Month/Year	Amount (Rp)	Due Date
XX	XXX	XXX	XXX	XXX	Rp XXX	XXX

What should you do?

Please pay the STP before the due date.

You could use the biller code to pay the STP at the closest banks/post offices. If there is no biller code attached to this STP, or the biller code has been expired, please generate one as directed on the back page of this letter.



SCAN TO SEND

Do not hesitate to contact us in our working hours.

<Tax Officer's Name> <Tax Office's Name> <Tax: Office's Address> <Phone> <Whatsapp>

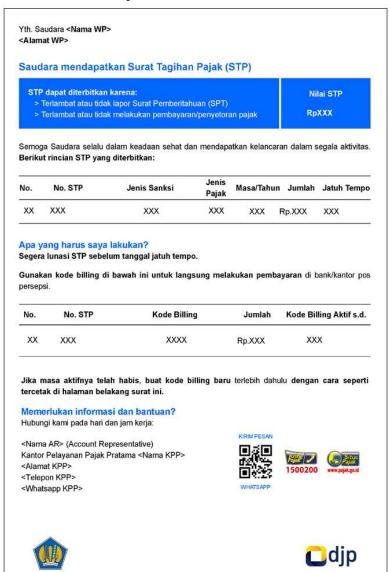








Simplification - In Indonesian



Simplification - In English

To: Mr/Mrs <Taxpayer's Name>

<Taxpayer's Address>

You were issued Notice of Tax Penalties (STP)

STP could be issued due to:	Nilai STP
 You are late or not filing your monthly or annual tax return (SPT) You are late or not paying your taxes 	<rp xxx=""></rp>

We hope you are healthy and wish you every success. Below is the detail of the STP tha have been issued to you:

No.	STP Number	Penalty Detail	Tax Article	Month/Year	Amount (Rp)	Due Date
XX	XXX	XXX	XXX	XXX	Rp XXX	XXX

What should you do?

Please pay the STP before the due date.

You could use the biller code below to pay the STP at the closest banks/post offices.

No.	STP Number	Biller Code	Amount (Rp)	Biller Code Expired
<no></no>	<nostp></nostp>	<kodebilling></kodebilling>	<nilai></nilai>	<nilai></nilai>

If you find the biller code has been expired, please generate the new one as directed on the back of this letter.

Need more information or assistance?

Do not hesitate to contact us in our working hours.

<<Tax Office's Name>> <<Tax Officer's Name>> <<Tax Office's Address>> <<Phone>> <<Whatsapp>>









Graphical Content Printed on the Back of All Intervention Letters (How to Generate Billing Code – in Indonesian and English)



Laman Portal Penerimaan Negara

Wajib Pajak dapat membuat Kode Billing dengan mengakses Laman Single Sign-On Portal Penerimaan Negara pada alamat https://mpn.kemenkeu.go.id/.

Aplikasi M-Pajak

Tersedia di Google Play Store untuk ponsel Android dan Apple App Store untuk ponsel IPhone

 Telepon Kring Pajak 1500200 meminta Kode Billing dengan dilakukan verifikasi data. Datang langsung ke petugas TPT atau Helpdesk di KPP/KP2KP.

How to Generate

BILLING

🗖 djp

As of 1st January 2020, DJP's billing application services will be terminated.

You can generate billing code through the e-Billing menu in your DJP Online account. You may use the billing code generating channels listed below.

DJP Online Web Page

If you have activated your DJP Online account, please login and add the e-Billing menu:

- Choose "Full Profile" at the left hand side Click on the e-Billing at the "Add/Remove

If you are new users, you may activate your DJP EFIN. Please visit the closest tax offices (for individual) or the tax offices where you are registered (for firms).

Authorised tax application services providers:

- SoluTax (PT Sarana Prima Telematika) • Jurnal Consulting (PT Jurnal Consulting
- Indonesia)

National Revenue Single Sign-On Portal

You may generate billing code by accessing national revenue single sign on portal

M-Pajak Apps

Available on Google PlayStore for Android and Apple AppStore for Iphone

In English

Appointed Banks/Post Offices

Automated Teller Machine (ATM)

Bank Mandiri, Bank BNI, and EDC/MiniATM Laku Pandai Agents: BRILink, Mandiri, and BNI 46 for 7 types of taxes:

- Article 21, 22, and 23 monthly Income Taxes
- Article 25 (individuals and firms)
- Domestic VAT (monthly) GR-23 Small Businesses monthly Income Tax

Bank BCA's ATM only for GR-23 Small Businesses monthly Income Tax.

Internet Banking

Applicable for customers of Citibank, Bank Bukopin, CIMB Niaga, BRI, Bank Permata, BCA, Bank UOB, Maybank, Bank Danamon, and OCBC-NISP Bank.

The Banks' Customer Services Officers

Tellers at the appointed Post Offices

- Through 1500200 call centre · Visiting the closest tax offices



Tax Officers

	(1)	(2)	(3)
Deterrence	0.154***	0.172***	0.168***
	(0.043)	(0.044)	(0.049)
Information	0.063	0.062	0.082*
	(0.043)	(0.044)	(0.043)
Simplification	0.188***	0.187***	0.201***
	(0.043)	(0.043)	(0.06)
Constant	-1.085***	-1.252***	-2.419***
	(0.022)	(0.202)	(0.249)
Test: Deterrence vs. Information	0.081	0.039	0.038
Test: Deterrence vs. Simplification	0.502	0.771	0.322
Test: Information vs. Simplification	0.015	0.017	0.016
Taxpayer Characteristics	NO	YES	YES
Tax Office Fixed Effect	NO	NO	YES
Control Group Mean	0.139	0.139	0.139
R-Squared	0.003	0.045	0.1114
N	10,067	10,067	10,067

Appendix 3 ITT Estimates (Probit model)

Outcome: An indicator for NTP settlement within 37 days of issuance. Taxpayer characteristics are per Table 2. The table reports p-values associated with the Chi-square test for equality of treatment effects across the experimental groups (Deterrence vs. Information, Deterrence vs. Simplification, and Information vs. Simplification, respectively). Units are in percentage points. Robust standard errors are in parentheses. *p < 0.1, **p < 0.05, and ***p < 0.01.

	Control	Deterrence	Information	Simplification	n volu-
	(N = 473)	(N = 156)	(N = 175)	(N = 155)	p-value
Age of Taxpayer (years)					0.955
1: 0-19	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	
2: 20-29	38 (8.0%)	12 (7.7%)	12 (6.9%)	9 (5.8%)	
3: 30-39	95 (20.1%)	28 (17.9%)	46 (26.3%)	36 (23.2%)	
4: 40-49	131 (27.7%)	52 (33.3%)	41 (23.4%)	43 (27.7%)	
5: >50	209 (44.2%)	64 (41.0%)	76 (43.4%)	67 (43.2%)	
Years Registered					0.705
1: 0-2	62 (13.1%)	22 (14.1%)	24 (13.7%)	16 (10.3%)	
2: >2-5	51 (10.8%)	21 (13.5%)	22 (12.6%)	21 (13.5%)	
3: >5-7	38 (8.0%)	14 (9.0%)	12 (6.9%)	10 (6.5%)	
4: >7	322 (68.1%)	99 (63.5%)	117 (66.9%)	108 (69.7%)	
Occupation					0.686
0: Employee	187 (39.5%)	54 (34.6%)	65 (37.1%)	62 (40.0%)	
1: Non-employee	286 (60.5%)	102 (65.4%)	110 (62.9%)	93 (60.0%)	
Strategic Taxpayer Status			· · · ·		0.796
0: No	463 (97.9%)	153 (98.1%)	172 (98.3%)	150 (96.8%)	
1: Yes	10 (2.1%)	3 (1.9%)	3 (1.7%)	5 (3.2%)	
VAT Taxpayer Status					0.643
0: No	460 (97.3%)	150 (96.2%)	168 (96.0%)	152 (98.1%)	
1: Yes	13 (2.7%)	6 (3.8%)	7 (4.0%)	3 (1.9%)	
Distance from Tax Office (km)	· · ·	, ,			0.372
1: 0-5	76 (16.1%)	18 (11.5%)	21 (12.0%)	20 (12.9%)	
2: >5-10	181 (38.3%)	58 (37.2%)	62 (35.4%)	54 (34.8%)	
3: >10-15	54 (11.4%)	24 (15.4%)	28 (16.0%)	24 (15.5%)	
4: >15	162 (34.2%)	56 (35.9%)	64 (36.6%)	57 (36.8%)	
Prior Year Tax Return Filing C	hannel				0.869
1: No Report	67 (14.2%)	23 (14.7%)	25 (14.3%)	19 (12.3%)	
2: Electronic	330 (69.8%)	108 (69.2%)	115 (65.7%)	113 (72.9%)	
3: Hardcopies	76 (16.1%)	25 (16.0%)	35 (20.0%)	23 (14.8%)	
Reported Annual Taxable Incor	ne (Rp m.)	~ /		/	0.693
1: 0	286 (60.5%)	95 (60.9%)	103 (58.9%)	87 (56.1%)	
2: >0-50	65 (13.7%)	21 (13.5%)	27 (15.4%)	20 (12.9%)	
3: >50-250	63 (13.3%)	16 (10.3%)	20 (11.4%)	23 (14.8%)	
4: >250-500	20 (4.2%)	8 (5.1%)	10 (5.7%)	10 (6.5%)	
5: >500	39 (8.2%)	16 (10.3%)	15 (8.6%)	15 (9.7%)	
Annual Tax Payment (Rp m.)	. ,	. /	× /		0.627
1: 0	148 (31.3%)	47 (30.1%)	61 (34.9%)	55 (35.5%)	
2: >0-2.5	174 (36.8%)	56 (35.9%)	64 (36.6%)	44 (28.4%)	
3: >2.5-30	116 (24.5%)	36 (23.1%)	35 (20.0%)	47 (30.3%)	
4: >30-62.5	8 (1.7%)	7 (4.5%)	7 (4.0%)	5 (3.2%)	
5: >62.5	27 (5.7%)	10 (6.4%)	8 (4.6%)	4 (2.6%)	

Appendix 4 Descriptive Statistics and Balance Test (ANOVA) of Dropout Taxpayers

	Control	Deterrence	Information	Simplification	p-value
	(N = 473)	(N = 156)	(N = 175)	(N = 155)	P value
Total Unpaid NTPs (Rp)					0.464
1: 0	294 (62.2%)	102 (65.4%)	101 (57.7%)	97 (62.6%)	
2: >0-Avg. Monthly Pmt.	65 (13.7%)	18 (11.5%)	23 (13.1%)	23 (14.8%)	
3: >Avg. Monthly Pmt.	114 (24.1%)	36 (23.1%)	51 (29.1%)	35 (22.6%)	
Audited Status					0.732
0: No	465 (98.3%)	153 (98.1%)	170 (97.1%)	153 (98.7%)	
1: Yes	8 (1.7%)	3 (1.9%)) 5 (2.9%)	2 (1.3%)	

Appendix 4 (Continued): Descriptive Statistics and Balance Test (ANOVA) of Dropout Taxpayers

Summary statistics: mean and standard deviation (in parentheses). *P-values* indicate the results from the balance test (ANOVA) for each baseline characteristic across treatment groups.

The qualitative results above are replicated with a Tukey-HSD test. This test is more restrictive than the ANOVA test in that it requires that the characteristics of the control and treatment groups do not differ. Consistent with these findings, an ANOVA test on the sample excluding dropouts indicates no loss of balance from dropouts.

Age of Taxpay	ver (years)
1 0-19	
2 20-2	9
3 30-3	9
4 40-4	9
5 >50	
Years Register	red
1 0-2	
2 >2-5	
3 >5-7	
4 >7	
Occupation	
0 Emp	loyee
	employee
	payer Status – taxpayers classified as "strategic taxpayer" are closely
	a strategic business unit within the local tax offices
0 No	8
1 Yes	
VAT Taxpave	r Status – taxpayer is registered as a value added taxpayer
0 No	
1 Yes	
	Tax Office – residential distance from the closest local tax office (km)
1 0-5	
2 >5-1	0
3 >10-	
4 >15	
	Return Filing Channel
1 No R	
2 Elect	
3 Hard	lcopies
	ual Taxable Income – amount of taxable income reported in the 2020 income
tax return (R	-
1 0	
2 >0-5	0
3 >50-	250
4 >250	
5 >500)
Annual Tax Pa	ayment – total taxes paid in the 2020 tax year (Rp m.)
1 0	
2 >0-2	5
3 >2.5	-30
4 >30-	62.5
5 >62.	
	NTPs – total amount of unpaid NTPs from 2016 – 2020 (Rp)
1 0	
	Avg. Monthly Pmt.
	/g. Monthly Pmt.
	s – taxpayer has been audited before the experiment
0 No	5 - taxpayer has been autiled before the experiment
1 Yes	

Appendix 5: Taxpayer Baseline Characteristics