

India: Informally, yours

Free to View Economics - India

The prospects of the omnipresent unorganised sector

- Half of India's 80% informal sector workforce is employed outside agriculture; half of whom are in urban India
- Agricultural wages have held up, but non-agricultural informal sector wages have borne the brunt of "forced formalisation"
- Remaining generous with social welfare schemes, and taking steps that help small firms grow are needed to sustain growth

The lack of high-frequency data makes it hard to track India's large informal (or unorganised) sector, which employs c80% of the labour force and produces c50% of its GDP. But a lot is at stake. Ignoring the informal sector can hurt jobs, wages, and even macro stability. We find that the 20% in the formal sector are doing relatively well. Large and listed firms and their employees have done better than the smaller firms. The urban affluent led the pent-up demand wave in 2020. They may focus on services instead of goods this year (with overall spending a shade lower than last year).

Of the 80% in the informal sector, half work in agricultural. The incomes of both the landed and the landless agricultural workers (proxied by real rural agricultural wages and food production) have been resilient over 2020-21, led by strong monsoons, immunity from lockdowns, and a rise in government spending. As the second wave passes, those in this group may want to consume goods that make them feel more secure, funded by the relatively resilient incomes. Having said that, it is likely to be a wave of selective demand, rather than a large and broad-based one. Longer term prospects depend on reforms which diversify income sources and raise agricultural productivity.

Of the remaining 40% in the informal sector, half are in rural India, the other half in urban. We worry that this group has borne the brunt of the economic disruption that the pandemic has unleashed. Unlike agricultural wages, non-agricultural wages in rural India have not been as resilient. We find that the wages of the two groups can diverge for an extended period of time as they have different drivers. The informal sector workers of urban India, we believe, have been at the receiving end of 'forced formalisation', with evidence of some business moving from the informal to the formal sector. There has been a spike in urban self-employment and unemployment rates.

All of this suggests that "formalisation" can hurt incomes and growth if it happens at the cost of putting small informal firms out of business. The constructive way to think about it is to perhaps differentiate between 'forced' and 'organic' formalisation. There is a case for remaining generous with rural welfare schemes, investing in urban welfare schemes and taking steps that help small businesses grow organically over time. On a broader level, the one big lesson from the pandemic has been that India can't wish away the informal sector. Rather, it needs to bring it to the forefront of policy making.

This is an abridged version of a report of the same title published on 15 July 2021. Please contact your HSBC representative or email AskResearch@hsbc.com for more information.

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Opening up a big black box

The lack of high-frequency real-time economic indicators make it hard to track India's large informal sector¹, which employs c80% of the labour force and produces c50% of its GDP².

There is a paucity of good real-time informal sector data

Even the quarterly GDP growth prints don't capture the health of the informal sector adequately. In its first estimate, informal sector GDP is proxied by formal sector GDP. This works fine on normal days, but not when the two sectors are diverging.

Here it can be argued that recent shocks such as the demonetization and the pandemic have delivered a bigger blow to informal sector firms, which typically have lower financial buffers.

In this report we delve deeper into the constituents of the informal sector. Who are they? What do they do for a living? How are they faring? And what are their prospects? We also look at the ongoing formalisation trend, its sustainability, and its impact on informal counterparts. Finally, we discuss if the current state of play is supportive of higher and sustainable GDP growth in the Indian economy.

What's at stake?

Ignoring the informal sector can hurt growth and macro stability

There are many examples to illustrate that ignoring the informal sector can be costly for the economy; not just in terms of economic growth, but also social welfare and macro stability (for instance, price stability). Here we briefly outline three examples:

Loss in jobs and wages – Following demonetization, a disproportionately higher number of jobs were created in rural India instead of urban India³. And despite the employment rate rising, wage growth declined over this period (see chart 1 and 2).

What could this possibly mean? One conjecture is that as cash-dependent urban informal firms were choked, urban informal sector opportunities waned, and some workers were only able to find work back in their rural homes, where wages are 2.5x lower. This dragged down national level wage growth.

Chart 1: During demonetization, rural India, where wages are typically lower, created double the jobs

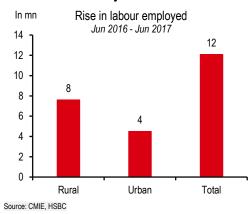
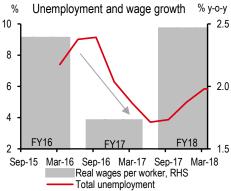


Chart 2: Unemployment fell, but so did wage growth



Source: ASI, CMIE, HSBC. Note: Wages are deflated using headline CPI.

¹ In this report, we focus on those employed in the informal (or unorganised) sector. That number stands at 81.3% of the labour force (2018-19 data). Overall informal employment is even higher. It is the sum of those employed in the informal (or unorganised) sector and those who are informally employed in the formal (organised) sector.

2 Ministry of Statistics and Programme Implementation, National Statistical Office

³ Rural India created double the jobs that urban India did.



Humanitarian cost – During the COVID-19 led national lockdown of 2020, the reaction function of informal sector workers turned out to be rather different compared to their formal sector counterparts. With inadequate safety nets at their urban workplace, there were painful accounts of displaced workers using all means to rush back to their rural homes.

High inflation - India was one of the few countries with high inflation through the pandemicstricken 2020. Some of this is likely to be associated with the disruption in informal firms. The informal sector is most active in the production of essential goods like food and textiles, for which demand never really fell. Disruption in supply led to rising inflation in these specific categories.

In the next few sections, we present a breakdown of India's 472m strong labour force⁴ into three main groups – those employed in the formal sector, those in the agricultural informal sector, and those in the non-agricultural informal sector.

A break-down of India's labour force

80% of labour force are in the informal sector ...

Around 80% of India's labour force is employed in the informal sector, and the remaining c20% in the formal sector⁵.

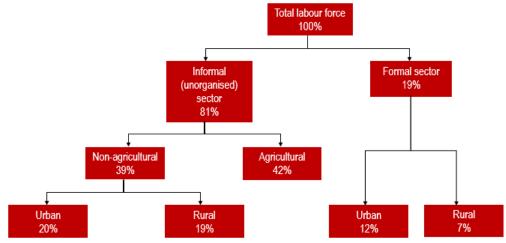
Breaking down the informal sector (see chart 3). Of the c80% informal sector workforce, half work in agriculture (c40% of total workforce), and the remaining in non-agricultural sectors (c40% of total workforce).

... half of whom are in sectors outside of agriculture

Of the c40% non-agricultural informal sector workers, about half live in rural India and the remaining in urban India. Meanwhile, almost all of the c40% agricultural informal sector workers live in rural India.

Of the c20% formal labour force, c8% is employed in the industrial sector (mostly manufacturing and construction), and c12% in services (of which about half is public services, see table 1).

Chart 3: Breakdown of India's labour force (% share of total)



Source: PLFS, NSS and census data, HSBC calculations

⁴ As per WDI 2020

⁵ All our calculations are done using PLFS, NSS and Census data. For sector splits, we have referred to "Covid-19, Social Protection and the Informal Sector: Lessons from India's Experience 2020, Asian Development Bank by Radhicka Kapoor and Amit Basole.



Those employed in the formal

sector have done relatively

well

Table 1: Percent distribution of employment by type of activity

% of labour force	Organised sector	Unorganised sector
Agriculture	0.2	42.3
Mining & Quarrying	0.3	0.1
Manufacturing	4.4	7.7
Electricity, Gas & Water supply	0.4	0.2
Construction	2.5	9.6
Trade, Hotel & Restaurants	1.3	11.3
Transport, Storage & Communication	1.8	4.1
Finance, Business, Real Estate	1.9	1.5
Health, Education, Public Admin	5.9	4.6
Total	18.7	81.3

Source: PLFS, NSS and census data

The fortunes of the c20% in the formal sector

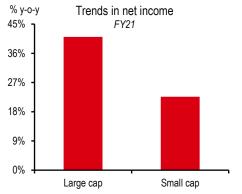
About two-thirds of these 20% employed in the formal sector are based in urban India, the remaining in rural India.

How are these 20% faring? Relatively better than the rest. Through the pandemic, large and listed firms have done relatively better than smaller listed firms and informal unlisted firms (see chart 4). A combination of cost cutting, lower interest rate environment, access to buoyant capital markets, and ongoing formalisation are likely to have helped keep profitability high. The salaries of individuals working at these larger listed firms have also held up relatively better, though lower than the prepandemic trend (see chart 5). These individuals may also have benefitted from wealth effects from buoyant stock markets.

Will they continue to lead recovery? Yes, but differently. Recall that the urban affluent class led the rise in demand post the national lockdown in 2020. They bought consumer durables such as electronics, furniture, passenger vehicles and even new houses. It could even be argued that coming out of the lockdown, they overshot on spending. After soaring during the lockdown, financial savings fell below pre-pandemic levels soon after (to 8.2% of GDP in December 2020 versus 9.8% prepandemic, see chart 6).

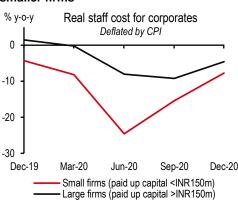
But some of this may not be repeated in 2021. Several of the consumer durables purchased in 2020 are not items that tend to be purchased year after year. Also, the rise in financial savings to support a subsequent urban consumption spree has not been as large this year (at least according to change in bank deposits, a narrow indicator of financial savings; see chart 7).

Chart 4: Large listed firms have done relatively better than smaller listed firms



Source: Bloomberg, HSBC. Based on latest constituents of BSE large and small cap

Chart 5: Salaries of individuals at large listed firms have held up better than smaller firms



Source: RBI's database of the performance of the private corporate business sector, CEIC, HSBC $\,$



Chart 6: Financial savings in December 2020 fell to below pre-pandemic levels of March, as consumers overspent

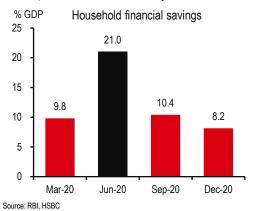
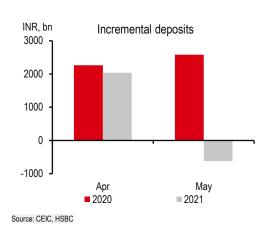


Chart 7: The rise in bank deposits in 2021 has been lower than in 2020



As vaccination spreads, urban consumers may instead switch from pent-up goods demand to pent-up services demand, with the overall spend being lower than last year.

Though long-term prospects depend on reforms

What are their long-term prospects? We believe that depends on the progress in policy reforms. Prospects of overall GDP growth are the strongest driver of real urban wages (see results of our simple OLS econometric model in table 2). Within this, it is the investment rate that raises the capacity of the economy to create sustainable jobs. We believe reforms are the foremost driver of both potential growth and within it, the investment rate.

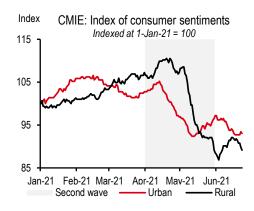
In particular, we are watching progress on four fronts - strengthening the Insolvency and Bankruptcy Code to deal with a possible rise in bad loans at banks, sustaining social welfare spending to support the bottom-of –the-pyramid, getting disinvestment done to raise government revenues, and choosing export promotion over import substitution.

Table 2: Urban wage regression GDP growth is a strong driver of real urban wages

Dependent variable: Nominal urban wage (annual, chg in %y-o-y) Sample period: FY08-FY18		
Constant	-10.1**	
CPI inflation (ex food, fuel): Lagged	1.18***	
Core GVA	0.77**	
Core GVA: Lagged	0.49**	
R-Squared	0.83	
D-W stat	1.69	
Level of significance: ***1%, **5%, *10%)	

Source: HSBC estimates. Level of significance: **1%, **5%, *10%. Note: All data are in annual terms from FY08-FY18. Core GVA = GVA excluding public services and agriculture.

Chart 8: Rural sentiment fell sharply but has begun to recover



Source: CMIE, HSBC



The prospects of the 40% in the informal agricultural sector

About two-thirds of rural workforce are in agriculture, and almost all are informally employed. The second wave hit rural India hard. Rural sentiment fell sharply, but has begun to recover since (see chart 8).

To understand the economic health of agricultural workers, we divide them up into marginal farmers, who we broadly refer to as the **'landless'** (~70% of households, defined as owning less than 1 hectare of land) and the **'landed'** (~30%, owning more than 1 hectare).

Rural agricultural wages have held up well, led in part by good monsoon rains The incomes of the landless. Wages, the main source of income for the landless have been resilient over 2020/21, led by good monsoons and elevated reservoir levels (see chart 10). It helped that agricultural production and distribution were exempt from the various lockdowns, and being an 'essential', the demand for food remained robust. Recently, domestic demand has been accompanied by strong foreign demand. Agricultural exports have been on the rise (see chart 11). Alongside, the government has raised social welfare spending in rural India over the last year, which has propped up incomes⁶.

Chart 9: Much of the income of the landless is from wages rather than cultivation

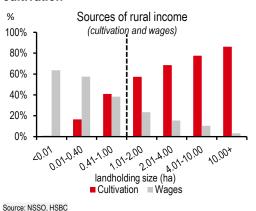


Chart 10: Agricultural wages have held up well through the pandemic

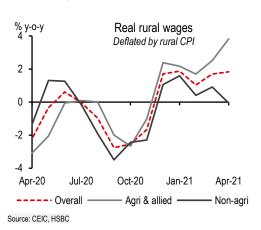


Chart 11: Agricultural exports have been on the rise

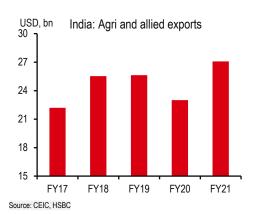
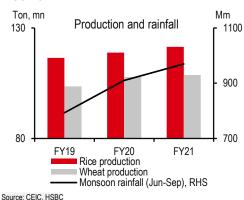


Chart 12: Good monsoon rains and robust production have likely aided agricultural income



⁶ Unemployment benefits (via the MGNREGA programme), cash transfers (via the PM Kisan scheme) and food distribution, were among the main areas of spend.



% Debt to Income Average indebtedness by landholding size (Average debt per household to expected yearly income) 80% 90% 80% 75% 70% 70% 60% 65% 0 50% 60% 40% 54% 55% 30% 50% 20% 45% 10% 40% 0% <0.01 0 41-1 00 1.01-2.00 2.01-4.00 10.00+ 0.01-0.40 4.01-10.00 Landholding size (in hectares) Average indebtedness by landholding size -- % of households indebted (RHS)

Chart 13: The landed are more indebted than the landless

Source: NSSO, HSBC. Note: Yearly income has been extrapolated from the monthly income from all sources for respective landholding size class.

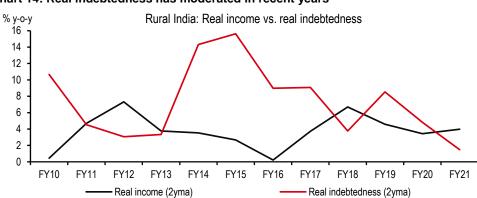


Chart 14: Real indebtedness has moderated in recent years

Source: RBI, CEIC, HSBC. Real incomes are proxied by real agriculture GVA growth. Until FY12, nominal data on debt growth is deflated using CPI-rural labourers index, thereafter with the CPI rural index; debt data corresponds to scheduled commercial banks' advances to agriculture outstanding as of march of every year including both direct and indirect finances.

Real indebtedness of the landed has moderated

The finances of the landed. Cultivation is the main source of income for the landed. Strong monsoon and robust production are likely to have aided the incomes of the landed over 2020/21, just as they did for the landless (see chart 12). This class is also more indebted than the landless (see chart 13), and here, there is some data to support that real indebtedness has moderated in recent years (see chart 14).

Will agricultural labourers contribute to the "pent-up demand" in 2021? Perhaps, but only selectively. As rural Indians emerge from the second wave, they may want to consume goods that make them feel more secure, funded by the relatively resilient agricultural incomes of 2020/21. These goods could include discretionary items such as two-wheelers, as well as home repair/renovations services.

Having said that, for at least three reasons, this is **likely to be a selective wave of demand, rather than a large and broad-based one**. **One**, while reservoir levels, an important driver of rural fortunes, are trending higher than the long-term average (31% of storage capacity on 8 July, versus 25% long-term average), it is lower than last year (33%). We find that reservoir levels by the end of July matter most, and the catch up in July rains will be critical. Current rainfall deficit is 6% as of 13-Jul-21 (but it is forecast by the weather department to catch up in subsequent weeks).



Two, with core inflation rising recently, the terms of trade may tip against rural India (see chart 15). **Three**, even as agricultural wages are strong, non-agricultural wages have not been as resilient (more on this later).

But longer term prospects, again, depend on reforms

What are their long-term prospects? Pent-up demand is a one-off. Will agricultural workers have the income to support higher longer-term consumption demand? Given the irrigation infrastructure is patchy, rural incomes depend much on the vagaries on monsoon rains.

Two things may be needed to snap out of this. One, more diversification of income sources. Too many people work on the farm. And two, higher agricultural productivity. Both of these need agricultural reforms - improving rural infrastructure, food distribution networks, crop insurance spread, etc.

The vulnerabilities of the 40% in the non-agricultural informal sector

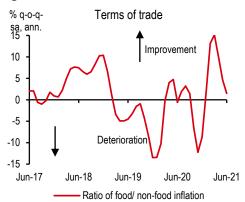
The non-agricultural informal sector workers have borne the brunt of the pandemic

Those employed in the non-agricultural informal sector, making up 40% of India's labour are half rural, half urban. We worry that **this group has borne the brunt of the economic disruption** that the pandemic has unleashed. To explain our point, we first need to understand what these 40% do. On an all-India level, about half of these 40% are employed in industry (manufacturing and construction in equal parts), and half in services (like trade, hotels and restaurants, see table 1).

A. The informal sector labour force of rural India, who are not farming

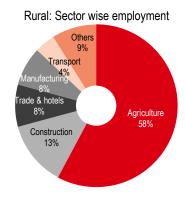
Not doing as well. These labourers, making up 20% of labour force are mostly involved in construction, followed by trade and transport and manufacturing (see chart 16). Alas, non-agricultural wages have not been as buoyant as agricultural wages (see chart 10 above and chart 18). The sharp rise in the demand for NREGA works may also be an indicator of this (see chart 19).

Chart 15: The terms of trade may tip against rural India



Source: CEIC, HSBC

Chart 16: Sector-wise employment details of rural India



Source: CEIC, HSBC

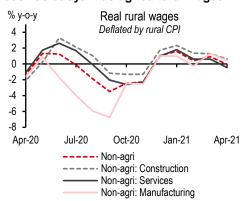


Chart 17: Sector-wise employment details of urban India



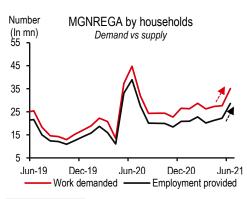
Source: CEIC, HSBC

Chart 18: Non-agricultural wages have not been as buoyant as agricultural wages



Source: CEIC, HSBC

Chart 19: The demand for NREGA works has picked up recently



Source: nrega.nic.in, HSBC

Chart 20: With an increased reliance on construction wage income, dependence of on agriculture has fallen over time



Source: PLFS, HSBC

The lack of convergence in rural wages. But this seems rather odd. Why are rural agriculture and non-agriculture wages diverging? Shouldn't there be scope for arbitrage which makes the two converge⁷? To understand what's going on, we use a Granger Causality econometric set up.

Using data from **2015 to 2021**, we find that indeed, agriculture and non-agricultural wages are correlated with an optimal lag of 5 months⁸. In econometric parlance, agricultural wages granger-cause non-agricultural wages, and vice versa.

We test this again, this time taking a more recent timeframe, i.e. **2018 to 2021**, we find that while the two do correlate, the period over which this happens is 10 months, double the time compared to our first regression.

And finally, taking a more historical timeframe, i.e. **2015-2018**, the optimal lag falls sharply to just 3 months. What's going on? Why is arbitrage between agriculture and non-agriculture wages taking much longer now than in the past?

much longer now than in the past?

Here is why. The dependence of rural workforce on agriculture has fallen over time, as the

... despite agricultural wages being buoyant

Non-agricultural rural wages

haven't been resilient ...

importance of activities like construction has risen (see chart 20). And some of the key drivers of the two differ. For instance, good monsoons are a key driver of agricultural wages, while urban demand

⁷ For instance, shouldn't higher agriculture wages incentivise non-agricultural workers to move to agriculture? Or at least improve their wage negotiation power?

⁸ The null hypotheses that "real non-agricultural wages do not granger cause real agricultural wages" and "real agricultural wages do not granger cause real non-agricultural wages" are both rejected at a 1% confidence level, with a F-stat of 8.5 and 4 respectively.



and health of the banking sector can be a driver of non-agricultural wages⁹. And since these drivers are unrelated, it is possible for them to diverge, elongating the timeframe over which agricultural and non-agricultural wages converge.

But eventually they will converge, and whether they converge to the higher wage or the lower one, will determine the sustainability of rural demand.

B. The informal sector labour force of urban India

These labourers, making up 20% of labour force are employed across trade, hotels, transport, manufacturing, construction and others (see chart 17).

Some business has moved from the populous informal sector to the formal sector ...

The receiving end of 'forced formalisation'. As discussed earlier, shocks such as the pandemic and demonetization are likely to have hurt the informal sector, which does not have adequate buffers to withstand large shocks, more acutely.

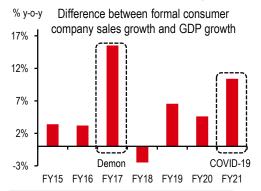
We look closely at the constituent companies of the FTSE index, which by design, belong to the 'formal sector'. We find that historically, nominal GDP growth has been a good indicator of the formal sector corporate sales. But during demonetization, and also the pandemic period, formal corporate sales overshot nominal GDP growth (see chart 21).

We believe this means that some demand, which was previously catered to by the informal sector, began to be catered by the formal sector. Another database shows how demand moved from small firms to the bigger ones (see chart 22). It is no surprise that employees of large firms have done much better than small firms. And extending that, those involved with the small informal firms are likely to have done even worse (see chart 4 and 5 above).

... resulting in job losses

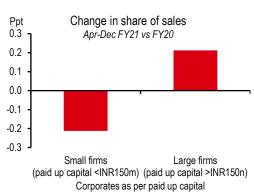
The April-June 2020 PLFS survey showed a rise in self-employment in urban areas. Another recently conducted survey¹⁰ showed that this category suffered the highest earnings loss (in Sep-Oct 2020 vs same time a year ago).

Chart 21: During demonetization and the pandemic period, formal sector corporate sales has overshot nominal GDP growth



Source: Bloomberg, HSBC. The sales growth is based on current FTSE India constituents. We use 16 consumer companies of the following sub-sectors: general retailers, food producers, personal goods and tobacco.

Chart 22: Demand moved from small firms to the bigger ones during the pandemic



Source: RBI's database of the performance of private corporate business sector, CFIC. HSRC

Making formalisation last

Large and listed firms have benefitted through the pandemic and the resultant "formalisation" has showed up clearly in corporate results. Given the large efficiency gains associated with the formal sector, it is no surprise that equity markets have cheered hard.

⁹ See India's unlikely growth linkages: Rural income, construction cycle and shadow banks, 22 August 2019 10 State of working India 2021: One year of Covid-19 by Azim Premji University



"Forced formalisation" can weigh on demand and growth over subsequent periods **But "formalisation" can be a double edged sword.** If it happens at the cost of putting small informal firms out of business, then the disruption in the informal sector can weigh on demand in subsequent periods.

In previous research (and also discussed earlier in the report), we found that when urban informal workers without social security lose jobs, many move back to their rural homes. But rural wages are 2.5x lower than urban wages, leading to lower demand and growth over time.

It is also possible that formalisation wears off over time. If the ecosystem that promotes formality does not change very much, the informal sector makes a comeback. And in that case, the efficiency gains associated with formalisation wears off¹¹.

The constructive way to think about this is perhaps to differentiate between 'forced' and 'organic' formalisation. The formalisation that comes only on the back of external pressure or leads to deep distress in the informal sector, may not be sustainable. In contrast, the formalisation that happens on the back of policy changes which help small and informal firms grow over time into medium or larger formal sector firms, is more sustainable.

The road ahead

There is need to remain generous with social welfare schemes ...

What is perhaps needed now is to protect the informal sector workers via social welfare schemes so that the disruption they are facing does not lead to a permanent fall in demand. There is a case of remaining generous with programmes such as the rural NREGA scheme for longer.

India doesn't have an equivalent urban social welfare scheme. Government capex doubles up as an urban welfare scheme, providing short term jobs. But government capex can be unreliable. The government has also focussed on credit guarantee schemes this time around. But the success of those depends much of the health of the intermediaries – India's banking sector. We believe there is a good case for setting up a more permanent direct urban social welfare structure.

... while helping small firms to grow

And in the meantime, steps to promote reforms that are necessary to help small businesses grow is critical - for example, lowering the regulatory burden associated with growing firms.

Lessons from the pandemic

The informal sector needs to be brought to the forefront of policy making

On a broader level, one big learning from the pandemic has been that **India can't wish away the informal sector**. And neither can it be assumed that the fortunes of the formal and informal sector move together.

Investing in real-time informal sector data, and bringing the informal sector to the forefront of policy decisions can have large multi-year economic growth payback.

¹¹ It can be argued that the demonetization led to a mix of the two outcomes. Some urban workers moved to rural India permanently, lowering wages and demand. And some urban informality made a comeback.



Disclosure appendix

Analyst Certification

The following analyst(s), economist(s), or strategist(s) who is(are) primarily responsible for this report, including any analyst(s) whose name(s) appear(s) as author of an individual section or sections of the report and any analyst(s) named as the covering analyst(s) of a subsidiary company in a sum-of-the-parts valuation certifies(y) that the opinion(s) on the subject security(ies) or issuer(s), any views or forecasts expressed in the section(s) of which such individual(s) is(are) named as author(s), and any other views or forecasts expressed herein, including any views expressed on the back page of the research report, accurately reflect their personal view(s) and that no part of their compensation was, is or will be directly or indirectly related to the specific recommendation(s) or views contained in this research report: Pranjul Bhandari and Aayushi Chaudhary

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