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Loss, Recovery and the Long Road Ahead: Tracking India's Informal Workers Through the Pandemic

Paaritosh Nath, Nelson Mandela S and Aishwarya Gawali May 2022

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Abstract

Drawing on results from a panel of 2778 workers interviewed during and after the 68-day hard lockdown imposed in India, the following study examines the livelihood impact of the pandemic and the extent of subsequent recovery or lack thereof. Focussing specifically on workers located in the informal economy, the study is a useful addition to the burgeoning body of work on the economic impacts of Covid-19 by providing an insight into the employment and earnings recovery of those located at the margins. These findings are spliced across socio-economic groups to

showcase the differential impact of the pandemic on different demographics within the informal

sector.

Our results show that six months after the hard lockdown, one out five persons were still out of work. Conditioned on being employed prior to the lockdown and having lost work during the lockdown, we find that urban respondents, women, workers above sixty and graduates were significantly less likely to recover from the shock. A similar exercise carried out for women workers showed that middle aged women, never married women and women who were not-literate women or educated up until primary and middle school were significantly more likely to recover from job loss. Older women, those located in urban areas and Muslim women were on the other

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hand significantly less likely to recover from the job loss. Earnings on the whole were half of what they used to be prior to the pandemic. Some better off workers shifted to more precarious types of employment. Given the fall in earnings poorer worker households were forced to borrow and the amount of loan taken was multiple times their average monthly income. In the context of loss in employment and reverse migration, the survey results show a substantial unmet demand for work under the MGNREGA programme even after the lockdown was lifted.

We conclude that despite a partial recovery in the subsequent period, the pandemic induced lockdown has undermined the material conditions for subsistence for a large segment within the informal economy. Moreover, any attempts made to re-imagine what a social protection programme for the informal economy should look like must take into account the segments most susceptible to an economic shock on their livelihoods.

Introduction

As has been well documented, the Covid-19 pandemic has brought about severe distress to people's lives and livelihoods across the world. Close to 255 million full-time equivalent jobs were estimated to have been lost in the first full year of the pandemic⁴. The subsequent recovery has been slow, uneven and disruptive with the latest estimates from the ILO suggesting that global unemployment levels are set to remain above pre-pandemic levels until at least 2023.⁵

Developing countries, in addition to being low-income economies, have not been able to rely on social safety nets for recovery due to high levels of informality, and thus, the adverse effects of the pandemic have been felt even more acutely here. Estimates suggest that over 2 million workers in Asia and the Pacific have fallen below the extreme poverty line in 2020 (ILO, 2022). The segments most vulnerable to the pandemic in this region have been those located in the informal economy (ILO, 2021b). Evidence from nine developing countries in Asia, Africa and Latin America suggests that living standards have fallen with a median income loss of 70 percent recorded across these geographies. Between 9 to 45 percent of people have been forced to reduce or skip meals (with a median share of 45 percent) (Egger et al. 2021).

With respect to the Indian labour market in particular, data from CMIE-CPHS inform us that the overall work participation rate in December, 2021 was still 2.5 percentage points below prepandemic levels ⁶. Average monthly per capita income⁷ was still around 10% lower than what was recorded for February, 2019. These overall numbers of impact and recovery, as a large body of literature testify, hide substantial intra and inter group variations.

The first wave of the pandemic itself exacerbated the existing inequalities both spatially and socially along the line of caste, class, and gender. According to Deshpande and Ramachandran, (2020), job losses suffered by the lowest rank of scheduled castes were thrice as large as that for

⁴ https://www.ilo.org/wcmsp5/groups/public/---dgreports/---dcomm/documents/briefingnote/wcms 767028.pdf

⁵ https://www.ilo.org/wcmsp5/groups/public/---dgreports/---dcomm/---publ/documents/publication/wcms 834081.pdf

⁶ https://cse.azimpremjiuniversity.edu.in/covid19-data-tracker/

⁷ Data captured till August, 2021.

the upper castes. Individuals having low levels of human capital and working in precarious forms of employment faced more severe job loss and distress (ibid). Moreover, the pandemic's impact was not gender neutral. It is well known that women's participation in the Indian workforce has been low (Menon, 2019); the pandemic widened this gap between men and women further. Though the absolute number of men who lost jobs due to the lockdown was higher than women, it was seen that women who had jobs pre-lockdown were 20 per cent less likely to have a job post-lockdown (Deshpande, 2020). It was also seen that conditional on being in the workforce prior to the pandemic, women were seven times more likely to lose work during the nationwide lockdown and conditional on losing work, eleven times more likely to not return to work subsequently, compared to men (Abraham, Basole, and Kesar, 2021). In terms of its sectoral impact, industries and services sector fared relatively worse off than agriculture. The construction industry has been working at only 60 per cent capacity and not all workers could retain their jobs⁸.

It must be stressed over here that the socio-economic consequences of the pandemic outlined above were informed by the dynamics of capitalist development that predate covid-19 (Pattenden et al., 2021). The pandemic struck India at a time when its economy, especially the informal sector, had suffered serious setbacks in the last quinquennium. As Harriss-White (2020) notes, the ill-conceived policy of demonetisation in 2016 dealt a massive blow to the informal economy. That was followed by the implementation of the goods and service tax (GST) in 2017. GST resulted in perverse redistribution in favour of large firms from small firms due to delays in refunds. It also undermined the states in relation to the centre through delays in payment of GST compensation that are due to the states. Together Demonetisation and GST disrupted the informal economy resulting in loss of livelihood and income for the classes of labour. For a segment reeling from the impacts of the aforementioned policy choices, the pandemic could not have come at a worse time.

The current study

What was the impact of the first wave of pandemic along this axis of informality-formality? Which segments amongst the informal economy were more susceptible to livelihood loss and what has

⁸ "Impact of COVID-19 on Livelihoods of Informal Sector Workers and Vulnerable Groups in Bengaluru: A View from the Ground.", 2021, Azim Premji University) http://strandedworkers.in/mdocs-posts/impact-of-covid-19-on-livelihoods-of-informal-sector-workers-and-vulnerable-groups-in-bengaluru-a-view-from-the-ground/

been the subsequent track of recovery? These are some of the major questions that we try to address through this study. Drawing on results from a panel of 2778 workers interviewed during and after the 68-day hard lockdown imposed in India, we examine the livelihood impact of the pandemic and the extent of subsequent recovery or lack thereof. The study serves a dual purpose. One is the immediate- capturing the employment dynamics observed within the informal sector as a result of the lockdown. The second is to use this as an entry point to examine which demographics or groups within this sector are in general more prone/vulnerable to shocks of an external nature. Given the recent debates surrounding what a social security scheme for the informal workers should look like (Shyam Sundar, 2020), the findings of this study suggest that the informal economy itself cannot be seen as a monolith and special attention needs to be given to certain specific groups and occupations.

About the survey

The Azim Premji University Covid-19 Livelihoods Phone Survey (CLIPS) was conducted in two rounds in collaboration with several civil society organisations⁹. Phone based interviews were carried out with respondents whom we contacted via the networks of these aforementioned organisations. The first round was conducted between April 13 and May 23, 2020 covering 4942 respondents across 12 states in India. The month of February, 2020 was used to document the baseline estimates of the respondents i.e. the respondent's primary work activity status and earnings, prior to the lockdown. The first round also captured information about the work and earnings of the respondent during the period of lockdown, beginning from March 24th, till the date of the survey. The work and earnings estimates over these two periods were compared to identify the immediate impact of the lockdown on livelihoods. As expected, a massive increase in unemployment was observed alongside an equally dramatic fall in earnings. Two-thirds of the respondents had lost work. The few informal workers who were still employed during the lockdown saw their earnings drop by more than half (Kesar et al, 2021).

⁹ The collaborating civil society organisation for the first round of the survey were Aga Khan Rural Support Programme, Centre for Advocacy and Research (CFAR), Gauri Media Trust, Paschim Banga Khet Majoor Samiti, Pradan, Samalochana, Self Employed Women's Association, Srijan and Vaagdhara. Six out of these nine organisations, namely, Centre for Advocacy and Research (CFAR), Gauri Media Trust, Paschim Banga Khet Majoor Samiti, Pradan, Samalochana and Self Employed Women's Association helped us in carrying out the second round of the survey.

The second round took place between 7th October and 23rd December 2020. This was a re-visit round where we tried to reach out to the same respondents with whom we had spoken to earlier. We were able to re-interview 2778 out of the 4924 respondents. Respondents in this round were asked about their work status and earnings for the months of September, October, and November, depending upon the month when the survey took place (Figure 1). Thus, combining the information gathered over these two rounds, we constructed a panel comprising 2778 individuals whose information was captured for roughly three different time points- i) the month of February, ii) the months of April and May and iii) the months of September, October and November (since the reference period of the second round was the last month). These three time points have been referred to as *pre-lockdown*, *lockdown* and *post lockdown* respectively.

Sampling design

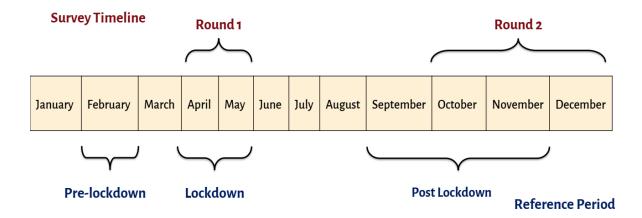
The respondents in this survey belong to communities that our partner civil society organisations work with, and we relied upon the phone databases provided by these organisations to contact the same. Thus, the sample frame adopted for this study is purposive and non-random in nature.

An alternative sampling strategy that could have been pursued was a random digit dialling (RDD) frame. However, given that our focus was on vulnerable communities working in the informal sector, we decided against pursuing random digit dialling as it does not offer the flexibility to focus on only one segment of the population. Additionally, we find that in developing countries the response rates of RDD's are usually low-between 15 to 20 percent¹⁰. Utilising the phone numbers provided by our CSOs, we managed to achieve a higher response rate of around 74 percent¹¹. Carrying out the survey using an RDD method would have, moreover, required a considerable expansion of time and resources. Despite the fact that using the CSO database makes our sample non-random, we tried to ensure that our sample was both geographically and occupationally diverse. Overall, our respondents were from 131 districts covering 12 states. (Table A.1 in the Appendix) It must be noted that given the purposive nature of sampling adopted, the findings presented in this paper pertain only to the sample and are not representative of the larger population. Furthermore, the estimates are unweighted.

¹⁰https://www.poverty-action.org/blog/what-do-we-really-know-about-phone-surveying-low-and-middle-income-countries

¹¹ Round 2 of the survey.

Figure 1: Timeline of the survey



Sample description

Table 1 presents the descriptive statistics of the panel of our 2778 respondents. Overall, the sample primarily consisted of those working in the informal economy and included occupational categories such as farmers, agricultural labourers, self employed women, NREGA workers, construction workers, domestic help, and street vendors. Nearly 6 in 10 persons interviewed by us were women workers. 40 percent of the sample resided in urban areas. The average age was around 39 years. Scheduled caste and scheduled tribe workers together formed more than half of the sample. 84 percent of our sample identified themselves as Hindus. Half of our respondents worked as casual wage workers while self-employed (excluding unpaid labour) constituted a further quarter of the sample. The share of regular wage workers was around 19 percent. The majority hailed from low income households whose average monthly household income in February, 2020 was around Rs 10,100¹². To put this into context, the average monthly household income as reported by respondents of nationally representative surveys such as the CMIE for the same time period is around Rs.20,600.

¹² Taking into account only those households reporting a monthly income of at least Rs 1000 in February.

Contributions: Understanding the impact of the pandemic on the informal workforce

Despite there being a plethora of works highlighting the impact of the pandemic on India's labour markets, we believe the following work makes a unique contribution to the overall literature on account of the specific nature of the sample that we have captured in our phone survey. For one, as we have already highlighted above, this is one of the few studies that uses a panel dataset of individuals dependent upon the informal economy. Studies based on nationally representative surveys such as the PLFS and CMIE, while crucial in understanding the macro picture when it comes to employment dynamics during the pandemic, also include relatively well off segments in their sample. We, on the other hand, capture those relegated to the margins.

To get a better sense of who these marginalised workers are, we use data from the 2018-19 PLFS to provide some characteristic features about the same. Approached from the employment side, the unorganised sector¹³ which harbours approximately 379 million workers constitutes an overwhelmingly large segment of the Indian economy (Table A.2 in the appendix). More than 8 out of 10 workers belong to the same with the agrarian workforce almost entirely located here. Even the major non-agrarian sectors such as construction, manufacturing and services see the bulk of their workers engaged in the unorganised sector (Figure A.1 in the appendix). The organised sector also harbours its fair share of workers (around 42%) who are employed on entirely informal terms i.e they have no job security nor are they protected by any social security mechanism. This combined pool of unorganised sector workers and informal workers in the organised sector represent the segment of the workforce most vulnerable to shocks of this nature.

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¹³ For the definition of 'unorganised' employed see Srivastava and Naik (2017)

Table 1: Sample demographics

	APU Livelihoods Survey (Round 2)
Number of Respondents (N)	2778
Female workers (%)	58
Urban workers (%)	40
Social group of workers (%)	(n=2432)
Scheduled Castes	29
Scheduled Tribes	23
Other Backward Class	31
General	16
Religion of workers (%)	(n=2576)
Hindu	84
Muslim	8
Others	8
Average age (in years)	39
Employment type (%)	(n=2600)
Self-employed (excluding unpaid)	25
Regular Wage Worker	19
Casual wage worker	50
Unpaid workers	5
Educational Status of workers (%)	(n=2598)
Not literate	36
Literate up to primary	16
Middle	16
Secondary	18
Senior secondary	7
Diploma/ Graduate and above	7
Mean monthly HH income	
(February)	Rs 10,102

Source : Azim Premji University CLIPS (Round 2)

Unorganised workers unsurprisingly earn much lower incomes than their organised counterparts. The earnings of a typical worker engaged in the unorganised sector of the economy is only 0.6 times that of a worker engaged in the organised sector (Table A.3 in the appendix) We also note that there is a more than proportionate concentration of unorganised sector workers in the lower earning deciles. The share of unorganised workers starts decreasing as we move up the earnings strata (Figure A.2 in the appendix).

The bulk of workers in the unorganised sector carry on with a hand to mouth existence where their default tendency is to remain engaged in low paying jobs throughout. Analysis of a panel of urban individuals interviewed across the four quarters of PLFS 2018-19 survey informs us that the urban unorganised labour market is characterised by very little fluctuations in and out of the workforce. In fact, 87% of all those employed in the first quarter continue to remain employed across the next three quarters (see Figure A.3 in appendix). A further 4.6% exit the workforce only to subsequently return back to employment. 7 out of 10 women workers remain employed throughout. The default tendency, thus of a majority of unorganised sector workers, is to continuously remain employed.

A second unique feature of our study is what whilst being purposive and non-representative of the region it covers, it has a much larger share of women workers in its respondent set as against nationally representative surveys such as CMIE-CPHS which suffer from a relative underestimation of women's labour force participation owing to their restrictive definition of employment (Abraham and Shrivastava, 2019). As Deshpande, 2020 has highlighted, women workers on the whole were significantly more likely to be the first to be fired and the last to be hired during the pandemic. Using our set, we investigate whether this holds true for women workers in the unorganised segment as well and if so how does it fare in comparison to the overall female workforce.

Thirdly, our study, unlike similar exercises carried out in the wake of the lockdown, incorporates an expansive definition of employment that places emphasis on a priority-cum-major time criterion rather than simply a majority time criterion in determining one's activity status. Simply put, the status of 'working' is given a priority over being unemployed which in turn is prioritised over being out of the labour force. In our analysis, a person was considered employed even if they had

worked for just one day during the reference period of the past one month. ¹⁴ If they had not been working for even a day yet were seeking and available for work, they were marked as unemployed. The rest were considered to be out of the labour force. Having determined the respondent's activity status on the basis of the above, those who were employed were asked if they had engaged in multiple economic activities, and details of their 'major' activity status were explored in detail ¹⁵. The priority-cum-major time criterion helps us in capturing a wider range of economic activities particularly short term, informal forms of work that people might be engaged in for only some days in a month. For example, a person working as an unpaid helper in their family business for only 4 days in the past thirty days and assisting in household chores for the rest of the time would be listed as employed by this criterion and out of the labour force by the majority criterion. It is to be noted that we also provide estimates of employment using the majority criterion approach in order to show the recovery pattern of relatively more long term employment forms.

The PLFS 2019-20 survey adopts the priority-cum-major time criterion to capture an individual's Current Weekly Status (CWS) during the pandemic months. The survey, however, suffers from a gross underreporting of unemployment figures which is down to the manner in which it captures self-employment activities. As per the CWS approach, individuals who had work in household enterprises but did not work during the reference week due to sickness (activity status code 61) or other reasons (activity status code 62) are counted as part of the self employed workforce. The rationale behind this is to include those people whose absence from work during the reference period may have been authorised as per the terms of their employment or may have been voluntary with no long term impact on the continuation of their work. In normal circumstances, this appears justified and such individuals constituting a minute segment of the workforce This share, however shot up during the pandemic months¹⁶. There is a strong argument to be made that such individuals should not be counted in the workforce for the pandemic months as doing so understates the actual

¹⁴ As Mohanan (2021) notes, "the globally accepted criteria is that of a person having worked at least for an hour during the reference period of a week or day to be counted as a worker". Extending on the same we decided to go for a minimum of one day in the past thirty days as our criterion.

¹⁵ In the second round of the survey, we also recorded information of their secondary economic activity but have not used the same in this paper.

¹⁶ As noted in the State of Working India, 2020, the share of those identifying as 'self-employed not working'- in the urban workforce shot up by 13 percentage points between the January -March quarter of 2020 and the April-June quarter of the same year.

livelihood loss during the crisis. In our study, we made an attempt to avoid this underreporting scenario by removing the option of self employed not working from our list of possible statuses and instructed our enumerators during the training process to mark all such individuals who are unable to run their enterprises as out of the workforce¹⁷.

Findings from our Survey

Employment Loss and Recovery

This section draws upon our panel data to understand the extent of employment loss during the 68 day hard lockdown and subsequent recovery. As already highlighted in an earlier section we consider as employed all those who worked for at least one day during the reference period of the last thirty days preceding the survey. Those who were available for work yet could not find even a single day of work were considered as being unemployed. The rest were considered as being out of the labour force.

Table 2 presents the change in employment status for men and women located in rural and urban areas from pre lockdown to lockdown, and from lockdown to post lockdown. It is to be noted that during the pre-lockdown period, 93.8 percent of the respondents were employed, 3.6 percent unemployed, and 2.6 percent reported to be out of the labour force. As the survey specifically targets workers, the employment figures did not vary much for men and women living in rural and urban areas in the pre-lockdown period.

¹⁷ However, as Abraham (2020) notes, this does not mean that the problem is entirely solved. The reliance on identity based measures of employment means that there would still be a fair share of farmers and enterprise owners who still perceive themselves as being gainfully employed despite having not worked at all due to lockdown reasons during the reference period.

Table 2: Change in employment status by sex and rural-urban (in %)

Change in Employment Status (%)							
	From pre	-lockdown to lock	down	From locko	From lockdown to post lockdown		
	Employed	Unemployed	OLF	Employed	Unemployed	OLF	
Rural Male	-54	45	10	48	-42	-6	
Rural Female	-54	50	4	45	-48	4	
Rural Person	-54	48	7	46	-46	-1	
Urban Male	-81	70	10	67	-61	-6	
Urban Female	-81	73	8	54	-65	11	
Urban Person	-81	72	9	59	-63	5	
All Male	-64	54	10	55	-49	-6	
All Female	-65	59	6	49	-55	7	
All Person	-65	57	7	51	-53	1	

Source: Azim Premji University CLIPS (Round 2)

Overall, we find that employment fell by 65 percentage points during the lockdown with a proportionate increase in the share of unemployed (57 percentage points) and out of the labour force (7 percentage points). During the post lockdown period the employment situation improved but still did not reach pre-lockdown levels. The share of employed increased by 51 percentage points and the share of unemployed declined by 53 percentage points while the share of respondents who were out of the labour force rose further by 1 percentage point.

We also note that the lockdown had a varied effect on employment across gender and location. Urban areas suffered more during the pandemic compared to rural areas. Urban employment fell by 81 percentage points during the lockdown and increased only by 59 percentage points in the post lockdown period. In comparison, rural employment witnessed a fall of 54 percentage points and a recovery of 46 percentage points. The inadequate recovery in urban employment compared to its steep fall is explained by the modest employment recovery of urban women. The share of urban women who were out of the labour force increased by 8 percentage points in the lockdown

period, and it further increased by 11 percentage points in the post lockdown period. Fuelled mainly by the withdrawal of urban women from the labour force, the proportion of urban respondents who were out of the labour force increased in both periods.

Figure 2 shows the employment recovery of only those respondents who were working in the pre lockdown period. Despite adopting a lenient definition of employment (see above), it was seen that two-thirds of the February workers lost employment during the lockdown. Six months later, one-fifth still remained out of work. Correspondingly, 14 percent of rural and 27 percent of urban workers remained out of work. If we raise the minimum day criterion to 15 days so as to capture more long term forms of employment, then we find that one-third of the February workers were out of work post the reopening of the economy. This is a cause for serious concern given that most of our sample survive on a daily hand-to-mouth existence.

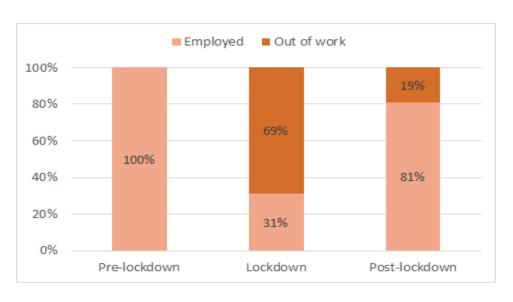


Figure 2: Employment status of the pre-lockdown workforce (in %)

Source: Azim Premji University CLIPS (Round 2)

N=2569

The panel nature of the data allows us to track our respondents' employment trajectories during this entire period. Based on one's employment status during and after the lockdown, an individual employed prior to the lockdown can exhibit one of four possible employment trajectories: (i) status quo- remained employed during all three periods, (ii) recovery- lost work during the lockdown,

but was employed post the lockdown (iii) no recovery- lost work during lockdown, not employed post lockdown and (iv) lagged job loss - employed during lockdown but lost employment post lockdown.

From Figure 3, we note that only one-fourth of the February workforce did not suffer employment loss either during or post lockdown (status quo). A little more than half of the February workforce recovered from the employment loss suffered during the lockdown (recovery). 15 percent of the February workers did not recover from the job loss suffered during the lockdown (no recovery), and 5 percent lost employment in the post lockdown period (lagged job loss).

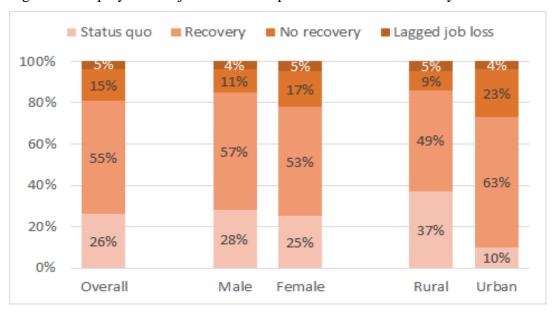


Figure 3: Employment trajectories of the pre lockdown workforce by sector and sex (%)

Source: Azim Premji University CLIPS (Round 2)

N=2569

Women workers fared worse than men in terms of job loss and recovery. 25 percent of the women workers and 28 percent of the men workers followed the status quo trajectory. Only 53 percent of the women recovered their lost jobs, the same figure for men was 57 percent. A higher proportion of women workers (17 percent) did not recover from the job loss. In comparison, 11 percent of men followed the no recovery trajectory. Women and men suffered 5 percent, and 4 percent lagged job loss respectively. Men were able to cope with employment loss by changing industry of work or employment arrangements, i.e., shifting to self-employed or casual wage work. The lower recovery of women from loss in employment than men could be explained by the limited

availability of such 'fallback' options for employment (Abraham, Basole, and Kesar, 2021). There is evidence that suggests that the returning male migrants compete for agricultural wage work in rural areas thereby limiting the options for women (Niyati 2021).

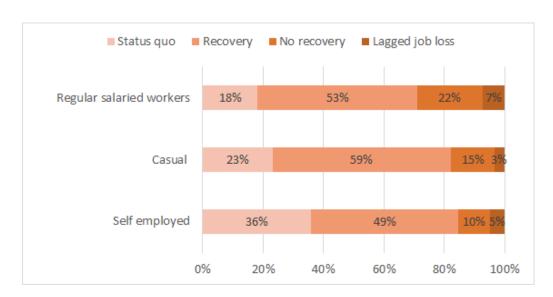


Figure 4: Employment trajectories of the pre lockdown workforce by employment type (%)

Source : Azim Premji University CLIPS (Round 2)

Figure 3 also presents us with the differential impact of the lockdown on rural and urban employment. While 37 percent of the rural workers followed the status quo trajectory, only 10 percent of the urban workers followed the same trajectory. Employment recovery was found to be higher (63 percent) in urban areas than in rural areas (49 percent). However, a relatively higher share of urban respondents had not yet recovered from employment loss - a clear indication that urban labour markets have been much worse hit despite a quicker bounce back. A similar proportion of rural and urban workers followed the lagged job loss trajectory. Furthermore, when we look at employment trajectories by employment type of the workers prior to the pandemic, we note that regular salaried workers fared the worst when it came to employment recovery (Figure 4)

The information provided above suggests that women workers, regular salaried workers and those situated in urban areas found it much more difficult to find lost work post the pandemic. With respect to the latter, one of the possible explanations provided is the presence of MGNREGA¹⁸. We asked the rural based respondents about the availability of work under this programme and found that there was a substantial unmet demand for MGNREGA work which continued even after the lockdown was lifted.

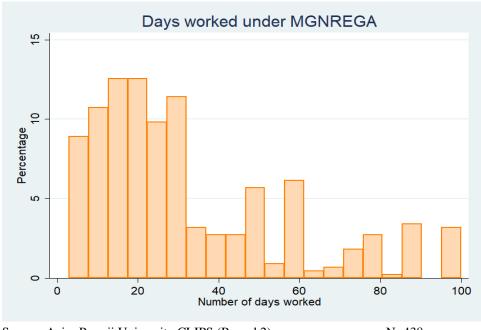
Since April 2020, only 55 percent of rural-based respondents who demanded work under the MGNREGA could get it. Figure 5 shows us the distribution of days worked by those who did manage to find MGNREGA work. It is to be noted that the reference period for this question was from the month of April onwards to the date of the interview which covered a minimum of 140 days. The median number of days worked was 25 days. 98 percent of those who got work said they would have liked to work for more days if work had been available. Those who had not received any work but were willing to work under MGNREGA were also asked about the total number of days they were willing to work under the programme if work became available. We show a distribution of the responses of both sets of individuals in Figure 6. This enables us to make a rough estimate of the level of unmet demand that persisted during this period. Interestingly for both sets of people, the median response was 100 days, clearly showing that the number of days on offer was not enough.

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¹⁸ As per the MGNREGA MIS data, 11.19 crore individuals worked under the programme in the financial year 2020-2021. At the all India level, 52 days of employment were provided on average per household in the same period. Women person days out of total was about 53 percent and employment provided against demand was nearly 84 per cent. Data Source: Ministry of Rural Development.

http://mnregaweb4.nic.in/netnrega/all_lvl_details_dashboard_new.aspx?Fin_Year=2021-2022&Digest=B5DSyTB/eSUSkZd2BpGzbA accessed on 01 February 2022.

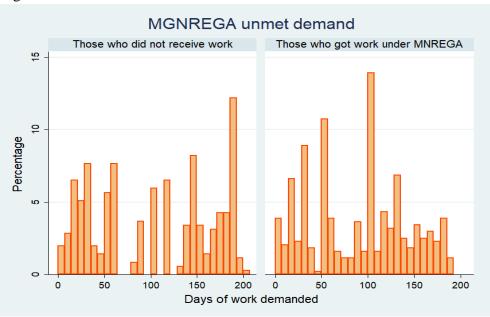
Figure 5: Distribution of days worked under MGNREGA



Source: Azim Premji University CLIPS (Round 2)

N=438

Figure 6: Unmet demand under MGNREGA



Source: Azim Premji University CLIPS (Round 2)

Earnings recovery and rise in precarity

In order to get a proper sense of what this employment recovery means, we examined the level of earnings that these workers were receiving compared to pre-lockdown levels along with the type of work they were doing post this 'recovery'. The overall recovery in earnings was sought to be captured by the earnings index.¹⁹ We created these indices for two different samples. The first covers all those who had a positive income in the pre-lockdown phase irrespective of their employment status in the post lockdown period. Individuals who dropped out of the workforce or became unpaid helpers had zero earnings. The second was conditioned on February earners having positive incomes in the post lockdown period as well. Farmers were excluded from both sets.

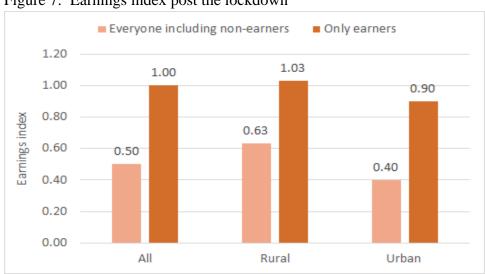


Figure 7: Earnings index post the lockdown

Source: Azim Premji University CLIPS (Round 2)

N1:1098, N2:714

Given that a significant share of the sample was still out of work six months after the lockdown, it was noted that earnings, on the whole, were half of what they used to be before the lockdown (Figure 7). The situation in urban areas was worse with overall earnings being only 40 percent of

¹⁹ The earnings index was created for each individual by taking the ratio of their earnings in the post-lockdown period to their earnings in the pre-lockdown period. We then took the median value of these ratios to arrive at an earning index for a typical individual. We take the average (median) of the ratios and not ratios of the medians to provide equal weightage to each observation. We use median values instead of mean values to account for the outliers in the earnings data.

pre-lockdown levels. However, if we look at only those workers who have managed to find work in the post lockdown period (i.e. we leave out those unemployed in the post lockdown period), we find that their earnings have managed to recover to pre-lockdown levels. Moreover, as we note from Table 3 of those who found work again, the poorest earnings recovery was noted for those employed as self-employed workers in the pre-pandemic period.

Table 3 Earnings index by employment type

		Earnings Index	
	Self employed	Regular salaried	Casual workers
Everyone including non-earners	0.40	0.40	0.60
Only earners	0.60	0.90	1.10

Source: Azim Premji University COVID Livelihoods Survey (Round 2)

Table 4 Shift in employment category post the lockdown (in %)²⁰

Category	Self Employed	Regular Wage Workers	Casual Wage Workers
Self Employed	60%	9%	31%
Regular Wage Workers	27%	40%	33%
Casual Wage Workers	38%	12%	50%

Source: Azim Premji University COVID Livelihoods Survey (Round 2)

²⁰ The rows denote the pre lockdown employment category of the respondents and the columns represent their employment category post the lockdown. Conditioned on being employed during both time periods. The numbers in bold provide us with the share of workers who in the post lockdown period managed to retain their pre lockdown employment category.

We also found that some better off workers (with regular salaries in the pre-pandemic period) had to resort to more precarious and poorly paid types of employment. 60 percent of those employed as regular salaried workers before the lockdown shifted to self-employment and casual forms of work in the post lockdown period. For such workers, post lockdown earnings were only 75 percent of pre-lockdown earnings.

Increase in debt burden and uncertainty of the recovery

This overall loss in earnings (either down to job loss or shift towards more precarious forms of employment) coupled with inadequate social protection programmes and low savings meant that many of our respondents were forced to take up a loan or sell an asset to make ends meet during this crisis. 22 percent of our respondents admitted to having sold or pawned an asset so as to cover for the financial difficulties faced by them during the lockdown (Figure A.4 in appendix). A much larger share of our respondents (43 percent) borrowed to cover costs during the lockdown. Most of these loans were acquired via informal networks with friends and relatives and local money lenders providing more than half of all loans lent out to the respondents. Worryingly, the amount of loan borrowed by these informal worker households was a higher multiple of their pre-pandemic household income with the poorest households taking the largest loans relative to their earnings.

Table 5 shows the burden of debt across the income quartiles based on February household income. From the same, we note that the median February household income of the bottom quartile was Rs 4000 and that of the top quartile was Rs 18000²². The loan amount borrowed by a typical household located in the bottom quartile was Rs 12000 and that in the top quartile was Rs 30,000. The poorest households (bottom quartile) had taken loans that were 3.8 times their monthly household income in February. The top quartile on the other hand had debt burdens 1.4 times their pre-pandemic incomes.

Table 5 Loan amount taken across income quartiles based on February household income

²¹ In rural areas 41 percent of our respondents took a loan while in urban areas 45 percent was the share of respondents who reported having taken a loan.

²² We are using median and not mean figures in our income and loan analysis on account of outliers that distort the average.

	Overall	Bottom 25%	Second 25%	Third 25%	Top 25%
Median household income February 2020 (Rs)	8500	4000	7000	10000	18000
Amount of loan taken (Rs)	18000	12000	15000	20000	30000
Ratio of loan amount to household income ²³	2.1	3.8	2.1	2	1.4

Source: Azim Premji University COVID Livelihoods Survey (Round 2)

The above is of significant concern as it signals towards an increase in indebtedness of the poorest among the poor and suggests an increase in vulnerability that is likely to persist even after the employment recovery is achieved.

Employment Recovery- Regression Analysis

In the final section of the paper, we carry out a multivariate logistic regression model using maximum likelihood estimation in order to understand how employment recovery varied with specific attributes of the respondents. Only those respondents who were employed in the prelockdown period and lost work during the lockdown period were considered for the analysis. The dv in our model takes the value of 1 if a respondent is employed in the post lockdown period and 0 if the respondent is out of work. We regressed this variable on specific attributes of the respondents, such as their per capita household income in February, age group, social group (caste), religion, gender, marital status, education, the type of employment they had in February (regular, self-employed, or casual), the sector of employment and their location (rural or urban). We used the state fixed effect to account for state level variations. The standard errors are clustered at the state level.

The estimates are presented as odds ratio in table 6. For an independent categorical variable, if the odds ratio is above 1, then the non-base category is more likely to recover from employment loss in comparison to the base category. If the odds ratio is lesser than 1, then the non-base category is less likely to recover from the loss of employment. We find that urban workers are significantly less likely to recover from the employment loss than rural workers. During the first wave of the

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²³ We take the median of the ratios and not ratios of the medians so as to provide equal weightage to each observation. This is also the reason why the values arrived at by dividing the median value of loan taken to the median value of household income in February will not be necessarily equal to the values provided in the row titled *Ratio of loan amount and household income in February*.

covid-19 infections, the urban areas had a higher disease burden and stricter lockdowns. This along with the fact that the agriculture sector registered relatively higher growth rates than other sectors, could partly explain this result. We also find that women workers and workers above the age of sixty are significantly less likely to recover from employment loss. While workers who are not literate are significantly more likely to recover from employment loss than the workers with the education level of higher secondary and above.

We carried out a similar employment recovery regression exercise for only women workers. The results are also provided in table 6, It was observed that women aged between 30 to 44 were significantly more likely to recover from job loss while women aged 60 & above were less likely to recover their lost employment as compared to those in the age group of 18 to 29. Never-married women were significantly more likely to regain lost work compared to currently married women. Furthermore, women located in urban areas and Muslim women were significantly less likely to recover from the job loss. Also, not-literate women and women educated up until primary and middle school were significantly more likely to find employment once again than women with the educational qualification of higher secondary and above.

Table 6: Logistic regression estimates of Employment Recovery (Odds Ratio)

	Overall	Women
Age (Base: 18 to 29)		
30 to 44	1.201	1.508*
30 to 44	(0.285)	(0.345)
45 to 50	0.752	0.790
45 to 59	(0.162)	(0.209)
60 & above	0.284***	0.312***
oo & above	(0.128)	(0.136)
Religion (Base: Hindu)		
Muslim	0.759	0.448**
	(0.301)	(0.151)
Others	1.487	0.821
	(0.826)	(0.564)
Sex (Base: Male)		NA
Female	0.393***	
	(0.127)	
Sector (Base: Rural)		
Urban	0.259**	0.2499*
	(0.151)	(0.187)
Educational Status (Base: Higher Secondary & Above)		
Secondary	1.112	1.770
Secondary	(0.446)	(0.873)
Middle	1.143	2.29479**
Wildle	(0.379)	(0.852)
Primary	1.414	2.13832*
Timaly	(0.387)	(0.897)
Not literate	1.879**	2.62166***
	(0.474)	(0.862)
Marital Status (Base: Currently married)		
Never married	1.159	3.507527*
110101 Mairied	(0.272)	(2.678)
Widowed	1.540	1.748
111001100	(0.619)	(0.601)
Other	5.059	4.361
	(5.060)	(4.258)
State Fixed Effects	Yes	Yes
Number of observations	1,082	650
Log pseudolikelihood	-440.5446	-296.73

Note: Standard errors are in parentheses. *,**,*** indicate 10%, 5%, and 1% level of significance respectively. Please refer to appendix table A4 and A5.

Summary and Conclusion

The sudden announcement of lockdown exposed the informal workers to many vulnerabilities. Even before the pandemic hit, the Indian economy was in a phase of deceleration. The pandemic lockdown has brought the already slowing down economy to a screeching halt. The worst affected were those engaged in the informal economy.

Our study of 2778 informal sector workers shows that the extent of employment recovery six months after the lockdown period has been modest at best. One-fifth of the pre-lockdown workforce was not working when we interviewed them the second time. Women workers, those located in urban areas and regular salaried workers were particularly affected. There was also a huge unmet demand in rural areas for MGNREGA work signalling the livelihood crisis as a result of this shock.

Given the staggered recovery, overall earnings in the post lockdown period were half of what they used to be before the lockdown with urban earnings less than half of pre-lockdown levels.. Those who managed to recover employment, however, saw their earnings reach to pre-covid levels. Furthermore, there was a movement away from better forms of work with close to two-thirds of pre-lockdown regular salaried workers shifting to self-employment and casual work in the post lockdown period. These workers were now earning only three-fourth of their pre-lockdown incomes. Consequently, the households resorted to informal loans and distress sale of assets to tide over the crisis. Worryingly, the amount of loan borrowed by these informal worker households was a higher multiple of their pre-pandemic household income with the poorest households taking the largest loans relative to their earnings, raising concerns of a persistence of vulnerability and precarity experienced by these workers even after the employment recovery is achieved.

Our regression analysis of employment recovery conditional on job loss suggests that respondents hailing from urban centres, women respondents, and workers above the age of sixty were significantly less likely to recover from a loss in employment. The workers who are not literate were significantly more likely to achieve employment recovery than those with educational qualification of higher secondary and above. A similar exercise carried out for women workers informs us that middle aged women, never married women and women who were not-literate women or educated up until primary and middle school were significantly more likely to recover

from job loss. Older women, those located in urban areas and Muslim women were on the other hand significantly less likely to recover from the job loss.

The results of our analysis thus inform us that while it is true that the pandemic induced lockdown has undermined the material conditions for subsistence of the vast majority of informal workers, this segment cannot be seen as a monolith. Special attention needs to be given to certain specific demographic groups and occupations which are most vulnerable to falling behind in the case of any large-scale economic shock. Such considerations need to inform both our short term relief measures as a response to this pandemic as well as our long term re-imagination of what a social protection programme for the informal economy should look like.

Appendix

Table A.1 State wise rural-urban distribution of respondents

State	Rural	Urban	Total
Andhra Pradesh	257	8	265
Delhi	0	65	65
Gujarat	122	138	260
Jharkhand	270	0	270
Karnataka	135	291	426
Madhya Pradesh	210	0	210
Maharashtra	7	144	151
Odisha	228	152	380
Other states	5	6	11
Rajasthan	0	238	238
Telangana	253	35	288
Uttar Pradesh	36	26	62
West Bengal	146	3	149
Total	1,669	1,106	2,775

Source: Azim Premji University COVID Livelihoods Survey (Round 2)

Table A.2 Size of India's informal workforce (in millions), 2018-19²⁴

	Strongly Formal	Weakly Formal	Informal	Total
Organised	25.6	25.8	37.7	89.1
Unorganised	1.0	3.9	373.6	378.5
Overall	26.6	29.7	411.3	467.6

Source: Author's calculation from the unit level PLFS 2018-19 data.

Table A.3 Median monthly earnings of organised and unorganised sector workers, 2018-19

	Organised Sector	Unorganised Sector
Self Employed Workers	22000	8000
Regular Wage Workers	15000	8000
Casual Wage workers	6000	5600
All worker categories	12000	7200

Source: Author's calculation from the unit level PLFS 2018-19 data.

²⁴ Wage workers who have a written contract as well as access to social security are employed in 'Strongly Formal' jobs. Those who have either a written contract or access to social security are employed in 'Weakly Formal' jobs. Lack of both is characterised as Informal employment.

Table A.4 Employment Recovery

(Std. Err. adjusted for 12 clusters in state)

		(Std.	Err. a	djusted for	: 12 clusters	in state)
		Robust				
emp_binary_Octlday	Odds Ratio	Std. Err.	z	P> z	[95% Conf.	Interval]
log_percapita_feb	1.276385	.2331763	1.34	0.182	.892237	1.825927
agecat						
30 to 44	1.200802	.284828	0.77	0.440	.7543412	1.911502
45 to 59	.7517761	.1618557	-1.33	0.185	.4929771	1.146437
60 & above	.2838944	.1276303	-2.80	0.005	.1176203	.6852219
social_group						
OBC	.910768	.406949	-0.21		.3793799	2.186459
SC	.8777357	.2810756	-0.41		.4685815	1.644154
ST	1.360088	.8653914	0.48	0.629	.390812	4.733323
religion						
Muslim	.7590161	.3008869	-0.70		.3489958	1.650752
Others	1.486671	.8256106	0.71	0.475	.5006187	4.414918
female						
Female	.393302	.1272632	-2.88		.208592	.7415746
2.rural_urban	.258634	.1508735	-2.32	0.020	.0824403	.8113942
edu_resp						
Secondary	1.112322	.445535	0.27		.5073248	2.438794
Middle	1.14272	.3794116	0.40		.5961004	2.190584
Primary	1.413829	.3867368	1.27		.8271048	2.416759
Not literate	1.878669	.4743269	2.50	0.013	1.145351	3.081498
febemptype_broad	1 201644	2247522	0.60	0.407	2025002	2 040000
Self-employed	1.201644	.3247532	0.68		.7075097	2.040889
Casual	1.064423	.3436047	0.19	0.847	.5653785	2.003961
febv203broad						
Manufacturing	.6739697	.2976051	-0.89		.2836448	1.601422
Construction	1.037368	.17605	0.22		.7438354	1.446735
Services	.9731962	.2766206	-0.10	0.924	.5575136	1.698812
Marital_status						
Never married	1.158747	.2722144	0.63		.7311778	1.836344
Widowed	1.540467	.6191182	1.08		.7007325	3.386513
Other	5.058603	5.060165	1.62	0.105	.7121413	35.93312
month						
11	.440375	.2382799	-1.52		.1524934	1.271728
12	1.052274	.4542958	0.12	0.906	.451483	2.45254
state						
2	7.357314	3.384837	4.34	0.000	2.986152	18.12703
3	2.088777	.6725738	2.29		1.111246	3.926213
4	1.489815	.3266233	1.82		.9694315	2.289537
5	4.692299	2.466476	2.94		1.674778	13.14662
6	1.03858	.3003066	0.13		.5892697	1.830484
7	1.362626	.630143	0.67		.5504787	3.372972
8	5.109935	1.921949	4.34		2.444902	10.67995
9	3.088342	1.533968	2.27		1.16664	8.175492
10	9.029239	2.94638	6.74		4.763114	17.11636
11 12	2.054159 6.392759	.7988575 2.65168	1.85 4.47		.9585258 2.835403	4.402144 14.41325
cons	.9711025	1.416249	-0.02	0.984	.055703	16.92978
			3.02			

Table A5 Women Employment recovery

(Std. Err. adjusted for 11 clusters in state)

5 4.531708 2.110263 3.25 0.001 1.819224 11.28854 6 .8370595 .2882168 -0.52 0.605 .4262556 1.643776 7 3.14081 1.373262 2.62 0.009 1.33312 7.399698 8 6.745637 2.570037 5.01 0.000 3.196846 14.23391 9 3.681107 1.946376 2.46 0.014 1.305894 10.37646 10 6.420061 2.644763 4.51 0.000 2.863415 14.39442 11 3.734339 2.767069 1.78 0.075 .8739581 15.95647 12 7.101886 3.542944 3.93 0.000 2.671355 18.8806			(Std.	Err. ad	justed fo	r 11 clusters	in state)
Emp_binary_Octlday Odds Ratio Std. Err.			Pobust				
### Agecat 30 to 44 45 to 55 7904926 200847 -0.89 0.374 4709899 1.326735 60 \$ above 3116439 1.364242 -2.66 0.008 .1321416 .7349839 **social_group OBC 1.434263 SC _9371465 .251395 -0.24 0.809 .5539464 1.586431 Feligion Muslim A471883 .1509497 -2.38 0.017 .2307623 .8665946 Others 8214306 .5643715 -0.29 0.775 .2136707 3.157888 2.rural_urban .249902 .1869941 -1.85 0.064 .0576566 1.083173 edu_resp Secondary Hiddle 2.29479 .8517377 .224 0.025 Flimary Rot literate 2.621662 .8618812 2.93 .003 1.376389 febemptype_broad Self-employed 1.192847 .3301811 0.64 0.524 .6933804 2.052098 Aself-employed 1.192847 .3301811 0.64 0.524 .6933804 2.052098 Construction Services 8018502 .3367674 -0.16 0.870 .253779 3.191464 Construction Services 8018502 .3367674 -0.53 0.599 .3520455 1.826365 Marital_status Newer married 3.507527 2.679416 1.64 0.100 .7865494 0.197668 .6006829 1.62 0.008 1.1851804 3.427847 0.181 3.507527 2.679416 1.64 0.100 .7852494 1.528779 3.191464 0.600682 Marital_status Newer married 3.507527 2.679416 1.64 0.100 .7852494 1.5810384 3.427847 0.11 .643688 2.55739 .8173662 .8018502 .3367674 -0.53 0.008 1.285454 .584117 .643688 2.55739 .8173662 .8018502 .3367674 -0.53 0.008 1.285454 .6933804 2.0560491 .6933804 2.052098 .6933804 2.052098 .6933804 2.052098 .6933804 2.052098 .6933804 2.052098 .6933804 2.052098 .812795 .9140	emp_binary_Octlday	Odds Ratio		z	P> z	[95% Conf.	<pre>Interval]</pre>
30 to 44 45 to 59	log_percapita_feb	1.133693	.2419925	0.59	0.557	.7461086	1.722617
### 45 to 59	agecat						
60 & above .3116439 .1364242 -2.66 0.008 .1321416 .7349839 social_group OBC SC .9371465 1.434263 .251395 -0.24 .0.809 .5539464 1.585431 ST 2.113607 1.195974 1.32 .0.196 .69723 6.407262 religion Muslim Others .4471883 .1509497 -2.38 .0.017 .2307623 .8665946 Others .8214306 .5643715 -0.29 .0.775 .2136707 3.157888 2.rural_urban .249902 .1869941 -1.85 0.064 .0576556 1.083173 edu_resp Secondary Middle 2.29479 .8517737 2.24 0.025 1.108655 4.749956 Primary Not literate 2.621662 .8618812 2.93 0.003 1.376389 4.993584 febemptype_broad Self-employed 1.192847 .3301811 0.64 0.524 .6933804 2.052098 febv203broad Manufacturing .8999593 .5812584 -0.16 0.870 .253779 3.191464 Construction .7865844 .197817 <td>30 to 44</td> <td>1.507974</td> <td>.3454019</td> <td>1.79</td> <td>0.073</td> <td>.9625561</td> <td>2.362446</td>	30 to 44	1.507974	.3454019	1.79	0.073	.9625561	2.362446
Social_group OBC 1.434263	45 to 59	.7904926	.208847	-0.89	0.374	.4709899	1.326735
OBC 1.434263 6.225667 0.83 0.406 6.125621 3.358208 SC .9371465 .251395 -0.24 0.809 .5539464 1.585431 C.113607 1.195974 1.32 0.186 .69723 6.407262 C.13607 1.195974 1.32 0.186 .69723 6.407262 C.13607 C.13	60 & above	.3116439	.1364242	-2.66	0.008	.1321416	.7349839
SC	social_group						
ST	OBC	1.434263	.6225667	0.83	0.406	.6125621	3.358208
religion Muslim Others	SC	.9371465	.251395	-0.24	0.809	.5539464	1.585431
Muslim Others	ST	2.113607	1.195974	1.32	0.186	.69723	6.407262
Others	religion						
2.rural_urban	Muslim	.4471883	.1509497	-2.38	0.017	.2307623	.8665946
edu_resp Secondary Middle 2.29479 .8517737 2.24 0.025 1.108655 4.749956 Primary 2.138321 .8967784 1.81 0.070 .9399228 4.864672 Not literate 2.621662 .8618812 2.93 0.003 1.376389 4.993584 febemptype broad Self-employed Casual 1.049269 .3612795 0.14 0.889 .5343244 2.060481 febv203broad Manufacturing .8999593 .5812584 -0.16 0.870 .253779 3.191464 Construction .7866544 .157817 -0.95 0.340 .4805466 1.287753 Services .8018502 .3367674 -0.53 0.599 .3520455 1.826365 Marital_status Never married Widowed 1.747668 .6006829 1.62 0.104 .8910384 3.427847 0.12 .9878662 .5015029 -0.02 0.981 .365237 2.671908 state 2 1 (empty) 3 2.66559 .955411 2.63 0.008 1.285454 5.544117 4.93764 4.85054 2.65 0.008 1.18818 3.1666 5 4.531708 2.110263 3.25 0.001 1.819224 11.28854 6 8.870595 .2882168 -0.52 0.605 .4262556 1.643776 7 3.14081 1.373262 2.62 0.009 1.33312 7.399698 8 6.745637 2.570037 5.01 0.000 3.196846 14.23391 9 3.681107 1.946376 2.46 0.014 1.305894 10.789696 10.789698 10.7896998 10.789698 10.	Others	.8214306	.5643715	-0.29	0.775	.2136707	3.157888
Secondary 1.769956	2.rural_urban	.249902	.1869941	-1.85	0.064	.0576556	1.083173
Middle Primary 2.138321 .8517737 2.24 0.025 1.108655 4.749956 Primary 2.138321 .8567784 1.81 0.070 .9359228 4.864672 2.621662 .8618812 2.93 0.003 1.376389 4.993584 febemptype_broad Self-employed Casual 1.049269 .3612795 0.14 0.809 .5343244 2.060481 febv203broad Manufacturing .8999593 .5812584 -0.16 0.870 .253779 3.191464 Construction .7866544 .197817 -0.95 0.340 .4805466 1.287753 Services .8018502 .3367674 -0.53 0.599 .3520455 1.826365 Marital_status Never married Widowed 1.747668 .6006829 1.62 0.104 .8910384 3.427847 Other 4.361454 4.257891 1.51 0.131 .643638 29.55432 month 11 .5166563 .3532957 -0.97 0.334 .1352508 1.97362 12 .9878662 .5015029 -0.02 0.981 .365237 2.671908 state 2 1 (empty) 3 2.66959 .995411 2.63 0.008 1.285454 5.544117 4 1.939714 .485054 2.65 0.008 1.18818 3.1666 5 4.531708 2.110263 3.25 0.001 1.819224 11.28854 6 8.370595 .2882168 -0.52 0.605 .4262556 1.643776 7 3.14081 1.373262 2.62 0.009 1.33312 7.399698 8 6.745637 2.570037 5.01 0.000 3.196846 14.23391 9 3.681107 1.946376 2.46 0.014 1.305894 10.37646 10 6.420061 2.644763 4.51 0.000 2.863415 14.39442 11 3.734339 2.767069 1.78 0.075 .8739581 15.95647 7 7.101886 3.542944 3.93 0.000 2.6671355 18.8806	edu_resp						
Primary Not literate	Secondary	1.769956	.8726338	1.16	0.247	.6734391	4.651861
Not literate 2.621662	Middle	2.29479	.8517737	2.24	0.025	1.108655	4.749956
febemptype_broad Self-employed	Primary	2.138321	.8967784	1.81	0.070		4.864672
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	11	3.734339	2.767069	1.78	0.075	.8739581	15.95647
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	_cons	.4411673	.7370094	-0.49	0.624	.0166953	11.65766

Share of workers engaged in the unorganised sector by Industry, 2018-19 99.6% 100.0% 80.8% 81.0% 80.0% 66.2% 64.0% 60.0% 33.2% 40.0% 20.0% 0.0% Milling and Charrying Manufacturing

Figure A.1: Share of workers engaged in the unorganised sector by industry, 2018-19

Source: Author's calculation from the unit level PLFS 2018-19 data.

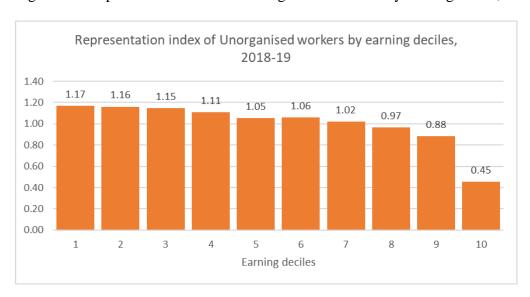
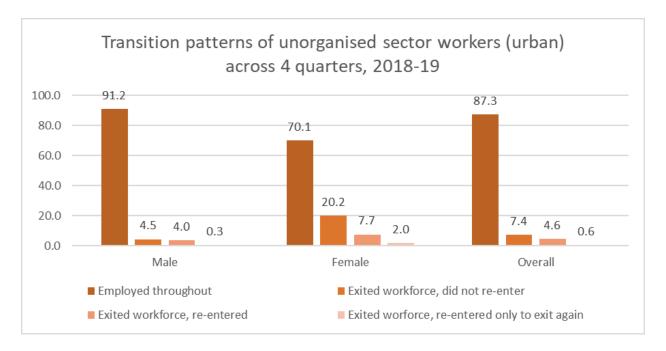


Figure A.2 Representation index of Unorganised workers by earning decile, 2018-19²⁵

Source: Author's calculation from the unit level PLFS 2018-19 data.

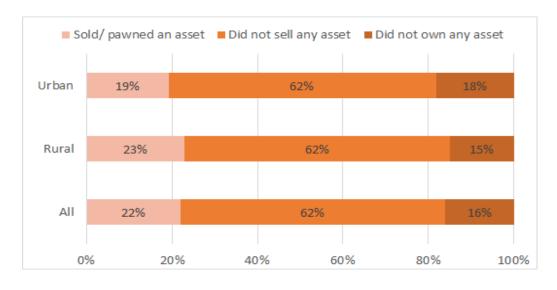
²⁵ The representation index in Figure A.2 provides us with the share of unorganised sector workers in each earning decile divided by the overall share of unorganised sector workers. We calculate this as an index of disproportionality. An index score greater than one suggests that the decile bin in question has a disproportionately higher fraction of unorganised workers.

Figure A.3 Transition patterns of unorganised sector workers (urban) across four quarters, 2018-19



Source: Author's calculation from the unit level PLFS 2018-19 data.

Figure A.4: More than 1/5th sold/pawned an asset to cover expenses during the lockdown



Source: Azim Premji University CLIPS (Round 2)

N rural=1669, N urban=1106

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