Public Defence Abstract Unorganised Manufacturing in India: Financing the Firm Growth

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tional factors and during the last few decades, the Indian poicy towards the SSIs/MSMEs has been mainly guided by the same argument (Hussain 1997). However, the o cial policy document of SSIs in India recognises the capital market distortion to be more severe and accordingly, various policies are in place to facilitate the ow of adequate and timely formal credit to the sector. Though the lack of access to credit is widely recognised as one of the most important problem hindering the growth of small rms within the Indian manufauing, very few attempts have been made so far to analyse the extent, nature and institutional barries associated with the above issue in India. The present dissertaion is an attempt to II this gap in the literature and to understand in details the interaction between nancial sector policies and industrial policy during the post-reform period in India which, apart from being a major force shaping the industrial structure of India, also plays an important role in in uencing the performance of the small-sized rms within the Indian manufaturing. More speci clly, analysis presented in the thesis attempts to answer the following set of questions:

- 1. What is the nature of structural change that has been taking place within the manufacturing MSMEs in India during the post-liberalization period?
- 2. How does the trend in both partial and total factor productivities evolve in various industries within the unorganised manufacturing sector during the last decade?
- 3. Some past studies have found a rising trend in the capital intensity in India's unorganised manufacturing sector at a macro-level. We attempt to analyse whether this trend is due to the rising capital intensity of various sub-sectors within the unregistered manufacturing. Alternatively, we also look at whether the structural shift of the output composition of the sector towards the sunrise industries at the expense of traditional tiny and cottage industries explains such a trend.
- 4. What explains the di erences in the nature of the informal industries in India and some of the East Asian economies, where the highly dynamic and productive informal rms' network has become an important part of the success of the export oriented

industrialization (EOI) of these countries? In this context, attempt is made to under-

adoption in the industrial sector is well documented in the literature (Nelson 1993) though the role of nancial instituions within the broad concept of the NIS remains unexplored in the extant literature. In the backdrop of the recent policy initiative to foster growth of relatively modern and innovative manufactuing rms under the Startup India initiative, it is important to analyse the adequacy of the extant institution setup within the country with respect to the same objective. In this context, Chapte 4, titled \Finance and Productivity: an Empirical Analysis of the Technology Intensive modern Manufacturing MSMEs in India" aims to conduct a detaliled empirical exercise of the rm-level productivity dynamics within the Indian manufacturing indutsry during the period 2002-2016 in order to understand the relation between manufacturing rms' R&D expenses, productivity and sources of nancing across a wide range of industries and rms of various size categories. Chapter 4 contributes to the extant literature on productivity measurement in Indian manufactuing by systematically analysing the productivity trend at a micro or rm level using the semi-parametric methodology of production function estimation. Further, the chapter decompose the productivity gain at industry level following the empirical methodology of Olley and Pakes (1996) into its two main sources, i.e., average rm-level productivity change and reallocation of resources at the industry through rm entry/exit. Finally, the econometric analysis in the chapter aims to undertand the nature of the relation between rms' nancing sources and its R&D expenditure. The major indings of the chapter are that while capital market's contribution in nancing industry remains relative low, the non-bank non-market sources of nance coexist with the formal sources in Indian manufacturing. The access to bank and market-based sources of nancing is primarily available to larger rms while smaller sized rms are more reliant on other sources of nance. Further, empirical analysis provides some evidences of a negative correlation between rms' technology intensity and proportion of bank nancing.

The objective of chapter 5 is to understand the impact of the more market oriented approach that India adopted after reform on the industrial credit disbursement. As a part of the overall mandate of ensuring greater market forces in credit allocation, the nancial

sector policies in India gradually dismantled the specialized development banking model and instead emphasised more on its commercial universal banking system for credit disbursal in an e cient manner. Chapter 5 aims to understand the impact of such policies on the credit disbursement to Indian industry, again with a focus on credit to small rms. Further, the comparative analysis of nancial sector policies in India and East Asian countries in the chapter complements the India-spec c empirical analysis presented in the earlier chapters and provides important policy implications. Finally, chapter 6 concludes the thesis with main observations, discussion on policy implications, coupled with some limitation of the present study and future research directions.

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